

Victorian Year-Book 1954-58

PART IV.

FACTORIES, FISHERIES, MINES, ETC.

FACTORIES.

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 in them. 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 the later years expansion has been accentuated by reason of the continually increasing price levels. Comparison of the results for the years 1956-57 and 1957-58 shows that the number of factories rose from 16,232 to 16,426, the average number of employees increased from 355,204 to 357,143, and the net value of production increased from £528,030,901 to £566,475,601.

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; and an extensive system of State-owned railways served by a network of feeder roads. It possesses highways and main roads which cater effectively for the ever-growing motor haulage industry. These advantages, coupled with the continued organization of production and of markets, should maintain the progress of the State in the manufacturing field.

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 next table particulars indicating the development of the manufacturing industries of Victoria during the twenty-year period 1938-39 to 1957-58 are given:—

VICTORIA—GROWTH IN FACTORY PRODUCTION.

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.
			£	£	£	£
1939 ..	9,250	201,831	80,596,625	38,305,885	80,721,680	152,967,611
1940 ..	9,215	212,461	84,553,699	41,920,726	93,390,751	174,304,401
1941 ..	9,121	237,636	92,050,326	52,294,673	112,024,332	209,348,845
1942 ..	8,918	258,400	98,157,370	67,158,613	136,058,136	257,281,080
1943 ..	8,738	262,357	104,605,310	76,033,111	144,778,354	277,678,940
1944 ..	9,317	261,299	110,520,701	77,400,688	149,189,244	284,647,914
1945 ..	9,669	257,633	116,379,925	74,227,245	152,761,198	287,422,311
1946 ..	10,195	256,249	118,802,347	70,499,214	154,224,950	286,989,408
1947 ..	10,949	265,757	121,877,270	77,993,765	170,223,745	315,437,679
1948 ..	11,642	278,271	132,058,592	93,802,188	203,121,836	377,412,025
1949 ..	12,702	292,006	149,463,382	112,410,440	244,486,168	446,837,879
1950 ..	13,231	303,476	176,872,369	130,254,694	284,197,019	526,466,280
1951 ..	13,504	316,792	207,587,582	163,207,236	370,258,115	675,033,324
1952 ..	14,758	324,143	248,398,656	202,585,880	463,121,444	833,967,023
1953 ..	15,154	310,759	282,690,086	210,877,568	461,810,787	860,146,161
1954 ..	15,533	331,277	339,267,651	236,036,586	531,527,923	985,505,127
1955 ..	15,861	352,648	412,671,190	262,749,786	597,009,079	1,100,656,423
1956 ..	16,053	355,185	473,216,589	286,944,212	653,230,994	1,201,391,746
1957 ..	16,232	355,204	542,808,638	296,607,452	683,904,232	1,276,141,978
1958 ..	16,426	357,143	591,085,680	310,540,109	743,273,629	1,377,697,308

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

The first Factories Act in Victoria was passed in 1873. Since then many other Acts dealing with the subject have been placed upon the statute-book. The *Labour and Industry Act 1958* consolidated all Acts passed prior to that year. The general provisions of factory legislation, including Wages Boards, are further referred to in Part, "Social Condition," of this *Year-Book*.

Factory Premises. Plans must be approved by the department of Labour and Industry before the commencement of the building of any factory premises or alterations or additions.

Statistics Act 1928. Statistics concerning the factories of Victoria are collected by the Deputy Commonwealth Statistician and Government Statist under the authority of the Commonwealth *Census and Statistics Act 1905-49* and the Victorian *Statistics Act 1958*. In the year 1902, Australian statisticians adopted a uniform classification of industries for statistical purposes in all States. A factory is taken to be an industrial establishment in which four or more hands are employed or in which power other than hand is used. In 1930, a new classification, based upon that used in Great Britain for census purposes, was adopted and still obtains. The definition of a factory remains unchanged.

Added Value. In estimating the relative importance of various industries, or the value of manufacturing industry as a whole, the method used is to calculate the value added in the process of manufacture. This "added value" is arrived at in the following way:—From the value of output of each industry are deducted the most important items of manufacturing expense such as costs of raw materials, containers, fuel and light, repairs to plant and machinery, and replacement of tools; the remainder constitutes the value added to raw materials in the process of manufacture, and represents 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 produce of one process of manufacture forming, as it often does, the raw material for another, an inaccurate impression would be obtained by using the total value of output of manufacturing industries in year to year comparisons. Woollen manufactures might be cited as an example. Greasy wool forms the raw material for the wool-scouring industry, the product of which is scoured wool. This is afterwards combed into wool tops which are used in the spinning mills for the manufacture of yarn. In due course the yarn is woven into cloth, the raw material for the clothing industry. If these processes are carried out separately in different factories it is evident that the value of the wool would be counted five times by using value of output as the basis for annual comparisons of manufacturing production.

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

The following table shows the value added per person employed in each class of manufacturing industry during the year ended 30th June, 1958 :—

VICTORIA—VALUE ADDED BY PROCESS OF MANUFACTURE,
1957-58.

Class of Industry.	Average Number of Persons Employed.	Value Added.	Value Added per Person Employed.
		£	£
1. Treatment of non-metalliferous mine and quarry products ..	6,341	11,822,268	1,864
2. Bricks, pottery, glass, &c. ..	5,660	8,768,272	1,549
3. Chemicals, dyes, explosives, paint, oils and grease	16,996	48,563,400	2,857
4. Industrial metals, machines, implements, and conveyances ..	134,221	198,464,108	1,479
5. Precious metals, jewellery, and plate	2,469	3,423,335	1,387
6. Textiles and textile goods (not dress)	38,078	50,520,320	1,327
7. Skins and leather (not clothing or footwear)	4,649	6,008,812	1,292
8. Clothing	45,764	48,346,805	1,056
9. Food, drink, and tobacco ..	37,310	71,433,221	1,915
10. Woodworking and basketware ..	14,815	22,030,405	1,487
11. Furniture, bedding &c.	6,550	9,062,831	1,384
12. Paper, stationery, printing, book-binding, &c... ..	22,113	41,840,556	1,892
13. Rubber	6,932	13,456,679	1,941
14. Musical instruments	269	436,876	1,624
15. Miscellaneous products	10,357	15,983,080	1,543
16. Heat, light and power	4,619	16,314,633	3,532
Total	357,143	566,475,601	1,586*

* Average for all Industries.

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 following table 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.
	£	£	£		£
1949 ..	446,837,879	264,077,503	182,760,376	292,006	626
1950 ..	526,466,280	307,221,673	219,244,607	303,476	722
1951 ..	675,033,324	399,372,947	275,660,377	316,792	870
1952 ..	833,967,023	499,607,098	334,359,925	324,143	1,032
1953 ..	860,146,161	502,113,333	358,032,828	310,759	1,152
1954 ..	985,505,127	577,190,411	408,314,716	331,277	1,233
1955 ..	1,100,656,423	648,433,221	452,223,202	352,648	1,282
1956 ..	1,201,391,746	709,444,158	491,947,588	355,185	1,385
1957 ..	1,276,141,978	748,111,077	528,030,901	355,204	1,487
1958 ..	1,377,697,308	811,221,707	566,475,601	357,143	1,586

* "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.

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

VICTORIAN FACTORIES—POWER, WORKERS, MANUFAC

Nature of Industry.	Factories.	Rated Horse-power of Engines.	Average Number Employed.		Salaries and Wages Paid.
			Males.	Females.	
	No.				£
Class 1.—Non-metalliferous Mine and Quarry products	442	53,952	5,988	353	6,118,099
Briquetting	1	21,829	430	6	533,563
Lime, plaster and asphalt	38	4,759	517	23	554,305
Fibrous plaster and products	175	1,945	1,374	81	1,220,499
Marble, slate, &c.	56	2,397	407	13	370,409
Cement and cement goods, &c.	5	3,144	479	14	586,110
Asbestos cement sheets and mouldings	136	5,708	1,953	84	1,907,549
Other	31	14,170	828	132	945,664
Class 2.—Bricks, Pottery, Glass, &c.	159	38,865	5,155	505	5,262,675
Bricks, tiles, and firebricks	65	26,332	2,396	55	2,561,205
Earthenware, china, and porcelain	41	5,240	1,072	254	1,138,487
Other (including glass and glass Bottles)	53	7,293	1,687	196	1,562,983
Class 3.—Chemicals, Dyes, Explosives, Paint, Oils, and Grease	350	151,142	13,018	3,978	17,234,395
Industrial and heavy chemicals, and acids	74	22,531	2,364	359	3,171,147
Pharmaceutical and toilet preparations	59	8,738	1,441	1,214	2,376,341
Explosives (including fireworks)	12	30,854	2,744	1,173	3,552,565
White lead, paints, and varnish	52	7,643	1,318	406	1,710,288
Oils, vegetable (including oilcake)	9	724	72	6	84,026
Oils, mineral	18	49,029	1,314	129	1,798,766
Boiling down, tallow refining	37	6,188	711	29	768,221
Soap and candles	25	3,806	612	150	822,042
Chemical fertilizers	8	14,681	1,559	51	1,739,179
Inks and polishes	48	4,258	543	263	714,408
Other	8	2,690	340	198	497,412
Class 4.—Industrial Metals, Machine, Implements, and Conveyances	5,971	417,233	118,775	15,446	124,314,428
Smelting, converting, refining of iron and steel	11	8,259	1,304	41	1,395,686
Foundries (ferrous)	224	13,151	2,933	140	3,047,036
Plant equipment and machinery	686	83,291	21,842	2,609	24,036,490
Other engineering	830	28,634	8,012	595	7,910,905
Extracting and refining of other metals; alloys	24	1,018	280	26	328,277
Electrical machinery, cables and apparatus	370	28,827	8,916	3,055	10,602,935
Tramcars and rolling stock (Government)	22	23,416	7,516	38	6,487,164
Motor Vehicles—					
Construction and assembly	15	39,255	9,095	748	10,362,604
Repairs	2,237	14,708	13,812	1,249	10,994,995
Motor bodies	498	14,872	8,090	348	7,856,188
Horse-drawn vehicles	10	89	36	1	25,815
Motor accessories	91	10,941	2,790	948	3,257,981
Aircraft	23	17,422	6,047	477	6,761,528
Cycles (foot and hand driven) and accessories	46	400	176	19	129,780
Ship and boat building—					
Government	4	9,037	1,438	60	1,457,611
Municipal and other	37	2,348	764	12	794,629
Cutlery and small hand tools	72	12,827	1,993	265	2,086,136
Agricultural machines and implements	100	20,821	5,013	286	5,084,999
Non-ferrous metals—rolling and extrusion	6	5,166	610	38	779,632
Founding, casting, &c. (non-ferrous)	153	8,372	2,954	476	3,113,286

TURING COSTS AND VALUE OF PRODUCTION, 1957-58.

Fuel and Light Used.	Lubricating Oil and Water.	Repairs to Plant, &c.	Materials Used, Including Containers.	Articles Produced or Work Done.	Value Added.	Land and Buildings.	Plant and Machinery.
£	£	£	£	£	£	£	£
1,942,356	85,982	728,377	11,641,193	26,220,176	11,822,268	4,364,627	6,568,436
323,467	26,348	80,507	646,218	2,082,064	1,005,524	376,775	1,351,159
212,336	9,036	99,059	2,184,485	3,874,200	1,369,204	417,855	481,963
42,976	4,659	42,533	1,695,698	3,762,853	1,976,957	966,666	285,807
12,414	1,811	24,704	376,071	1,078,155	663,155	117,346	64,241
68,962	10,993	122,341	1,200,294	2,606,412	1,203,822	526,869	589,023
62,843	20,225	187,218	3,778,889	7,355,790	3,306,615	950,974	1,117,782
1,219,358	12,830	171,985	1,759,538	5,460,702	2,296,991	1,008,142	2,698,461
1,910,069	63,630	997,586	4,104,660	15,844,217	8,768,272	3,603,113	3,005,079
995,911	33,923	359,814	978,852	6,167,381	3,798,881	1,210,173	1,471,368
292,437	6,054	115,198	248,487	2,388,840	1,726,664	742,515	475,022
621,721	23,653	522,574	2,877,321	7,287,906	3,242,727	1,650,425	1,058,689
6,087,092	268,081	3,280,030	94,981,119	153,179,722	48,563,400	28,851,541	51,435,431
662,838	43,654	544,975	9,558,807	17,682,819	6,872,455	4,332,796	6,343,924
225,310	15,922	181,943	6,316,584	12,684,561	5,944,802	5,223,644	1,706,205
327,925	30,682	256,102	6,493,703	12,896,735	5,788,323	5,341,837	7,647,697
89,617	9,804	30,836	7,116,476	10,579,160	3,282,427	2,476,113	1,933,721
11,208	1,196	13,165	769,284	984,608	189,755	235,656	168,626
3,948,756	109,109	1,203,277	44,925,882	65,422,406	15,235,382	7,282,535	28,998,624
244,103	12,581	101,340	3,022,457	5,060,427	1,679,946	493,797	586,747
193,797	11,607	417,418	4,012,384	8,443,382	2,908,176	823,512	1,488,400
265,322	19,114	394,986	8,075,116	12,610,001	3,855,463	945,034	1,387,449
39,657	4,531	45,876	2,830,546	4,885,159	1,964,549	935,835	602,972
78,559	9,881	40,112	959,790	1,930,464	842,122	736,782	571,097
6,340,487	622,183	8,490,553	194,281,556	408,198,887	198,464,108	95,603,296	69,561,194
305,118	8,269	138,386	1,050,781	3,361,510	1,858,956	279,632	373,661
378,286	14,087	216,787	2,874,432	8,013,615	4,530,623	2,029,425	1,714,583
938,922	114,577	1,425,508	38,840,896	81,459,404	40,139,501	17,697,601	12,779,196
217,214	37,044	379,467	8,317,554	22,649,509	13,698,230	5,864,739	4,617,007
44,225	845	38,556	2,847,468	3,740,395	809,301	370,682	236,401
554,724	34,569	648,282	21,283,996	38,863,199	16,341,628	9,003,867	6,358,513
223,643	5,386	499,931	4,668,997	13,909,602	9,602,545	2,063,700	1,107,976
723,660	138,596	1,670,491	15,150,514	35,946,346	18,263,085	9,458,161	9,976,292
292,321	59,267	400,785	11,675,958	29,412,029	16,983,698	15,359,560	3,416,811
282,553	31,569	394,677	10,430,931	22,230,582	11,090,852	4,567,453	1,764,053
618	160	514	22,952	74,739	50,495	26,831	5,404
193,650	21,942	282,232	3,822,875	10,437,889	6,117,190	2,465,990	2,064,930
227,366	22,051	186,514	4,609,234	13,757,468	8,712,303	5,203,978	2,455,684
9,831	284	5,145	442,398	746,520	288,862	218,862	43,127
37,648	5,316	26,167	462,977	2,108,593	1,576,485	664,108	844,861
19,425	2,284	48,004	382,623	1,759,666	1,307,330	400,240	182,750
132,447	13,619	112,401	1,904,265	5,881,705	3,718,973	1,223,438	853,493
357,762	27,722	380,052	7,361,827	16,799,054	8,671,691	2,730,684	2,648,859
113,852	5,557	112,953	5,571,760	7,831,386	2,027,264	402,613	292,849
236,250	12,458	191,952	4,624,033	9,984,892	4,920,199	2,186,537	1,378,157

VICTORIAN FACTORIES—POWER WORKERS, MANUFACTURING

Nature of Industry.	Factories.	Rated Horse-power of Engines.	Average Number Employed.		Salaries and Wages Paid.
			Males.	Females.	
Class 4—continued.	No.				£
Sheet metal working, pressing and stamping	363	23,700	6,756	1,737	7,824,618
Pipes, tubes, fittings—ferrous	10	2,324	449	16	527,537
Wire and wireworking (including nails)	68	8,478	1,944	395	2,217,672
Stoves, ovens, and ranges	24	4,942	1,488	224	1,694,383
Gas fittings and meters	6	59	272	10	262,362
Lead mills	4	648	63	24	79,176
Sewing machines	10	60	113	23	106,049
Arms, ammunition	8	29,979	1,659	130	1,659,049
Wireless and amplifying apparatus	39	2,166	2,023	1,400	3,036,293
Other metal works	70	2,023	387	56	363,612
Class 5.—Precious Metals, Jewellery, and Plate	266	5,046	2,061	408	2,065,615
Jewellery	105	515	544	157	530,699
Watches and clocks	29	326	207	35	212,064
Gold, silver, and electroplate	132	4,205	1,310	216	1,322,852
Class 6.—Textiles and Textile Goods (not dress)	748	102,899	16,789	21,289	29,352,927
Cotton spinning and weaving	44	14,992	1,921	1,958	3,852,612
Wool, worsted, spinning, and weaving, &c.	88	41,081	5,625	6,430	9,065,365
Hosiery and other knitted goods	427	14,227	4,556	10,483	10,657,536
Silk, natural	3	2,382	161	188	289,249
Rayon, nylon, and other synthetic fibres	11	3,776	929	387	1,150,710
Flax mills	7	1,734	228	20	245,940
Rope and cordage	12	9,174	954	554	1,260,860
Canvas goods, tents, &c.	31	164	204	165	268,715
Bags and sacks	26	1,801	162	111	197,456
Textile, dyeing and printing	31	6,063	924	278	1,212,750
Other	68	7,505	1,125	715	1,651,734
Class 7.—Skins and Leather (not Clothing or Footwear)	289	21,292	3,594	1,055	3,840,602
Furriers and fur dressing	70	433	197	135	217,276
Fellmongery	26	6,089	832	6	816,676
Tanning and leather dressing	36	13,532	1,827	168	1,846,806
Saddlery, harness, and whips	9	62	68	30	68,375
Machine belting	9	108	42	6	42,931
Bags and trunks	139	1,068	628	710	848,538
Class 8.—Clothing	2,516	29,266	13,984	31,780	30,126,717
Tailoring and ready-made clothing	634	3,274	2,865	6,914	6,447,828
Waterproof and oilskin clothing	17	592	116	334	304,198
Dressmaking	607	2,613	1,211	7,523	5,819,924
Millinery	67	285	180	636	505,463
Shirts, collars, and underclothing	170	2,689	723	5,626	3,912,006
Foundation garments	33	1,124	234	1,504	1,111,940
Handkerchiefs, ties, and scarves	30	113	76	373	277,213
Hats and caps	12	831	202	171	272,873
Gloves	16	79	35	218	154,859
Boots and shoes	221	9,202	5,371	5,721	8,004,732
Boot repairing	359	561	712	54	328,495
Boot accessories	39	997	375	211	457,543
Umbrellas and walking sticks	5	39	21	66	48,217
Dyeworks and cleaning	264	6,673	1,756	2,054	2,704,326
Other	42	203	107	370	277,100
Class 9.—Food, Drink, and Tobacco	2,022	222,430	26,981	10,329	32,559,995
Grain milling	34	15,235	1,263	51	1,308,466
Cereal foods and starch	21	10,634	733	421	1,091,415
Animal and bird foods	13	1,547	171	13	196,548
Chaff-cutting and corn-crushing	62	2,315	260	24	210,459
Bakeries	1,075	8,001	4,185	1,287	3,605,055

COSTS AND VALUE OF PRODUCTION,—*continued* 1957-58.

Fuel and Light Used.	Lubricating Oil and Water.	Repairs to Plant, &c.	Materials Used, Including Containers.	Articles Produced or Work Done.	Value Added.	Land and Buildings.	Plant and Machinery.
£	£	£	£	£	£	£	£
377,114	27,377	744,540	19,306,881	33,386,739	12,930,827	5,916,444	5,061,918
32,068	1,927	51,996	1,165,214	2,181,451	930,246	139,417	151,964
158,617	11,402	193,797	7,649,203	13,045,258	5,092,239	2,371,290	1,605,970
264,351	7,575	142,478	2,447,529	5,145,272	2,283,339	1,155,079	1,268,484
5,754	282	3,109	76,410	427,783	342,228	60,864	20,909
16,084	369	16,750	539,611	732,402	159,588	66,771	78,320
1,416	164	1,249	69,787	226,852	154,236	160,214	3,101
103,561	9,046	58,454	6,340,910	8,258,711	1,746,740	2,077,056	7,069,259
77,222	5,521	100,345	9,732,611	14,401,186	4,485,487	1,079,862	963,687
14,785	2,918	19,931	606,929	1,335,130	690,567	358,198	223,026
131,599	9,944	75,202	2,795,601	6,435,681	3,423,335	1,720,544	588,492
10,744	1,087	11,011	745,440	1,696,605	928,323	498,470	82,893
7,879	412	5,162	860,097	1,195,856	322,306	248,057	90,930
112,976	8,445	59,029	1,190,064	3,543,220	2,172,706	974,017	414,669
2,172,504	194,542	2,184,216	75,800,329	130,871,911	50,520,320	22,475,125	19,420,222
287,355	21,995	458,224	12,240,169	19,882,855	6,875,112	3,095,131	2,108,256
743,529	67,764	620,504	24,597,525	39,461,291	13,431,969	5,543,371	6,583,282
478,194	36,014	589,051	23,951,758	43,024,020	17,969,403	7,319,900	5,766,123
56,627	2,429	42,021	653,647	1,273,467	518,743	256,183	385,919
110,887	4,601	53,140	1,939,536	4,141,990	2,033,796	671,956	889,565
13,288	1,514	32,227	662,189	920,203	211,035	140,831	109,102
73,647	4,478	99,071	2,037,741	4,442,599	2,227,662	1,682,818	851,911
4,493	263	6,337	900,057	1,448,261	537,111	437,818	27,068
7,097	1,068	11,900	1,248,480	1,769,031	500,486	207,409	104,060
261,631	43,916	121,899	2,003,622	4,555,567	2,124,499	1,238,364	1,274,180
135,756	10,509	149,842	5,566,025	9,952,627	4,090,504	1,881,355	1,320,756
398,060	71,222	246,515	10,882,365	17,606,974	6,008,812	2,805,881	1,406,719
5,885	1,273	8,023	347,908	815,321	452,232	337,754	42,091
202,552	36,465	102,671	4,586,245	6,167,638	1,239,705	733,489	326,523
169,449	31,594	110,720	4,181,207	7,083,067	2,590,097	1,018,103	829,523
968	71	439	122,906	254,043	129,659	74,290	4,793
908	31	1,013	77,549	151,122	71,621	38,762	9,424
18,298	1,788	23,649	1,566,550	3,135,783	1,525,498	693,483	194,365
857,751	47,175	902,631	47,257,117	97,411,479	48,346,805	16,516,250	6,849,763
138,573	4,214	115,000	12,998,459	24,086,026	10,829,750	3,705,712	1,077,503
12,752	617	9,397	570,267	1,020,506	427,473	168,419	87,320
97,703	3,168	87,092	6,801,804	15,428,950	8,438,233	3,586,729	794,622
15,469	505	8,334	6,870,078	1,579,917	868,531	491,494	82,527
57,558	3,816	77,650	8,128,151	14,454,680	6,187,505	1,721,882	578,993
16,188	2,385	46,658	1,983,975	3,738,811	1,689,605	659,217	159,709
4,278	217	3,538	703,271	1,193,978	482,674	213,856	16,805
14,729	676	4,769	304,132	664,443	304,137	75,942	64,240
2,095	159	2,596	132,607	358,959	221,502	59,641	16,458
134,736	7,935	346,775	12,294,375	24,719,301	11,935,480	2,275,867	2,280,761
10,938	979	5,625	368,170	1,148,577	762,865	783,091	112,191
10,353	1,502	36,125	1,181,322	2,156,982	927,680	262,972	144,218
1,219	71	726	96,158	188,026	89,852	73,115	9,673
335,064	20,734	150,850	588,391	5,767,551	4,672,512	2,207,650	1,350,092
6,096	197	7,496	418,957	905,672	472,926	231,663	74,651
5,409,145	337,417	3,307,138	180,406,473	260,893,394	71,433,221	43,318,438	38,525,646
216,150	15,659	140,903	18,368,818	21,773,885	3,032,355	1,882,372	1,482,189
216,834	18,560	123,928	5,196,245	8,044,284	2,488,717	1,173,106	1,649,294
24,479	1,632	23,167	2,865,056	3,405,137	490,833	272,598	171,284
15,322	2,010	13,254	1,555,898	2,041,220	454,736	178,880	79,574
642,722	25,046	296,863	10,587,058	19,397,180	7,845,486	5,923,240	3,470,280

VICTORIAN FACTORIES—POWER, WORKERS, MANUFACTURING

Nature of Industry.	Factories.	Rated Horse- power of Engines.	Average Number Employed.		Salaries and Wages Paid. £
			Males.	Females.	
	No.				
Class 9—continued.					
Biscuits	18	3,615	829	904	1,324,496
Confectionery	83	13,664	1,435	1,607	2,253,793
Jam, fruit, and vegetable canning	39	34,811	2,398	1,817	3,849,899
Pickles, sauces, and vinegar	24	2,201	454	234	612,413
Bacon curing	16	3,281	693	148	756,531
Butter and cheese factories, &c.	131	42,537	4,644	773	5,344,970
Margarine and butterine	14	1,291	139	15	137,167
Meat and fish preserving, meat extracts	15	4,045	606	313	918,779
Condiments, coffee, spices, &c.	72	5,552	621	521	961,497
Ice and refrigerating	126	31,562	1,629	136	1,701,355
Aerated waters, cordials, &c.	103	3,832	854	160	807,775
Breweries	6	11,765	1,781	91	2,019,861
Distilleries	6	1,713	187	34	223,903
Winemaking	22	539	120	20	91,196
Cider and perry	3	71	17	8	19,145
Malting	12	5,019	397	9	483,395
Bottling	26	478	338	98	406,808
Tobacco, cigars, cigarettes	10	3,595	990	959	1,696,131
Dried fruits and vegetables	22	2,787	452	177	492,627
Ice cream	11	3,469	337	172	477,406
Sausage skins	19	619	496	86	557,923
Other	39	8,252	902	251	1,010,982
Class 10.—Woodworking and Basket- ware					
	1,407	120,761	14,056	759	12,470,488
Sawmills	588	82,210	6,814	219	6,061,471
Plywood mills (including veneers)	4	306	42	3	49,575
Joinery	550	22,609	4,866	222	4,223,383
Cooperage	6	310	27		27,460
Boxes and cases	82	8,744	814	45	685,081
Woodturning, woodcarving, &c.	112	4,947	944	152	888,136
Basket, wicker, bamboo, &c.	24	86	85	6	52,415
Perambulators	22	303	182	65	187,853
Wall and ceiling boards	3	506	144	12	143,740
Other	16	740	138	35	151,374
Class 11.—Furniture, Bedding, &c.					
	704	16,885	5,472	1,078	5,142,604
Cabinet and furniture making	542	14,431	4,446	297	3,807,255
Bedding and mattresses	37	1,630	465	321	612,229
Furnishing, drapery	52	165	167	267	283,886
Picture frames	18	66	62	30	47,997
Blinds, window, verandah, &c.	55	594	332	163	391,237
Class 12.—Paper, Stationery, Printing, Bookbinding, &c.					
	884	111,327	16,609	5,504	21,030,579
Newspapers, &c.	106	9,862	2,687	237	2,950,770
Printing—Government, &c.	3	1,300	774	376	948,420
General printing, &c.	549	13,108	6,088	2,293	7,460,976
Stationery and paper products	46	2,780	834	645	1,162,376
Stereotyping and electrotyping	10	301	160	18	170,990
Process and photo-engraving	21	742	630	51	721,248
Cardboard boxes, cartons, &c.	52	963	1,227	898	1,748,126
Paper bags	28	1,516	509	374	840,947
Paper making	7	78,096	2,871	151	3,769,788
Pencils, chalks	6	354	107	209	237,936
Other	56	2,305	722	252	1,018,952
Class 13.—Rubber					
	151	58,143	5,523	1,409	6,884,454
Rubber goods (including tyres made)	54	55,214	4,937	1,317	6,279,660
Tyre retreading and repairing	97	2,929	586	92	604,794
Class 14.—Musical Instruments					
	28	440	228	41	217,887
Gramophones & gramophone records	6	302	94	32	103,155
Pianos, player and organs	16	93	117	8	104,391
Other	6	45	17	1	10,341

COSTS AND VALUE OF PRODUCTION, 1957-58—continued.

Fuel and Light Used.	Lubricating Oil and Water.	Repairs to Plant, &c.	Materials Used, Including Containers.	Articles Produced or Work Done.	Value Added.	Land and Buildings.	Plant and Machinery.
£	£	£	£	£	£	£	£
157,592	4,674	89,700	2,779,642	5,390,414	2,358,806	1,160,107	1,007,963
214,601	8,138	168,803	6,687,315	10,832,414	3,753,557	1,795,012	1,801,956
328,155	45,565	358,648	18,650,196	28,474,743	9,092,179	5,497,810	5,030,069
84,946	12,912	58,262	2,987,289	4,458,333	1,314,924	587,551	587,485
90,312	8,738	48,878	4,544,265	6,595,991	1,903,798	639,506	366,118
1,474,146	57,435	694,652	49,863,305	63,707,088	11,617,550	6,233,018	7,524,488
30,164	2,515	13,486	930,514	1,416,629	439,950	105,651	182,697
125,597	14,662	125,535	4,983,431	7,336,807	2,087,582	893,885	970,581
102,574	11,772	80,256	4,283,656	7,081,887	2,603,629	1,867,073	767,303
411,981	21,158	157,174	825,955	4,068,269	2,652,001	3,464,639	1,840,757
62,676	16,923	60,558	2,481,941	4,677,081	2,054,983	1,135,315	928,746
343,194	17,213	393,673	6,898,053	11,766,177	4,114,044	2,977,758	4,360,600
96,831	653	39,612	813,429	2,209,269	1,258,744	219,270	211,275
6,041	769	5,507	189,578	431,555	229,660	140,878	80,582
1,567	388	1,102	23,582	56,014	29,375	29,259	11,701
289,493	21,094	62,202	4,194,299	5,837,979	1,270,891	1,703,681	1,260,053
13,533	3,223	12,971	573,250	1,247,244	644,267	596,813	149,369
34,713	5,699	89,608	14,335,495	19,145,516	4,650,001	1,993,731	2,079,805
17,351	2,468	45,535	561,333	1,325,350	698,663	416,204	398,784
60,714	6,206	60,052	1,227,560	2,614,209	1,259,677	947,826	712,359
32,390	6,245	29,807	1,695,600	2,514,488	750,446	267,022	106,855
285,067	6,090	112,997	12,303,710	15,044,231	2,336,367	1,211,233	1,293,479
585,390	77,646	852,949	26,093,239	49,639,629	22,030,405	7,589,316	5,236,749
404,759	60,382	649,101	14,781,216	27,497,988	11,602,530	3,050,459	3,257,671
2,714	220	1,077	155,384	249,781	90,386	66,545	20,027
100,611	10,512	113,039	7,225,044	14,001,161	6,551,955	2,811,222	1,170,196
530	91	745	17,296	55,152	36,490	12,299	2,446
25,179	3,188	33,355	1,479,622	2,630,394	1,089,050	443,324	276,196
24,285	2,167	30,024	1,160,987	2,827,794	1,610,331	602,838	266,733
1,320	114	741	67,457	175,601	165,969	83,630	9,409
4,039	206	4,233	381,581	679,102	289,043	132,085	42,818
6,878	179	11,464	423,732	742,865	300,612	148,926	96,870
15,075	587	9,170	400,920	779,791	354,039	237,988	94,383
109,958	11,344	125,351	9,998,020	19,307,504	9,062,831	4,489,579	1,189,118
84,892	8,916	86,244	5,781,383	12,385,843	6,424,408	3,200,423	811,169
11,771	1,191	24,956	2,169,914	3,362,624	1,154,792	537,266	241,832
4,699	616	2,995	782,983	1,356,085	564,792	222,961	27,501
1,196	60	928	60,918	200,468	137,366	82,690	5,019
7,400	561	10,228	1,202,822	2,002,484	781,473	446,234	103,597
1,623,364	169,286	1,246,531	45,178,232	90,057,969	41,840,556	17,361,740	20,924,719
104,585	10,452	111,738	7,155,997	12,607,045	5,224,273	1,517,366	1,790,637
20,318	1,777	11,878	1,013,347	2,331,956	1,284,636	323,450	432,243
199,623	28,088	314,522	10,121,885	23,968,423	13,304,305	5,981,564	6,109,456
39,593	2,867	55,181	2,705,304	5,237,345	2,434,400	1,149,421	807,170
9,043	75	5,299	146,449	499,937	339,071	98,685	44,314
14,730	1,591	22,171	412,424	1,503,318	1,052,402	303,066	190,443
75,392	5,832	110,296	6,027,731	10,537,426	4,318,175	1,783,677	1,675,781
39,508	3,544	42,196	3,222,769	5,292,689	1,984,672	876,303	831,327
1,057,365	110,969	511,028	11,394,235	22,814,972	9,741,375	4,512,106	8,396,710
4,467	1,445	18,692	579,147	1,119,636	516,485	108,588	129,515
58,740	2,646	44,130	2,398,944	4,145,222	1,640,762	707,513	517,123
1,024,563	62,850	909,275	16,506,010	31,959,377	13,456,679	4,679,635	4,602,645
933,010	58,206	847,983	15,061,964	28,901,824	12,000,661	3,734,571	4,027,768
91,553	4,644	61,292	1,444,046	3,057,553	1,456,018	945,064	574,877
10,994	205	10,285	241,135	699,495	436,876	183,453	105,472
1,426	62	1,804	45,889	201,972	152,791	82,858	10,919
345	11	262	14,949	36,327	20,760	12,410	3,252
9,223	132	8,219	180,297	461,196	263,325	88,185	91,301

VICTORIAN FACTORIES—POWER, WORKERS, MANUFACTURING

Nature of Industry.	Factories.	Rated Horse-power of Engines.	Average Number Employed.		Salaries and Wages Paid.
			Males.	Females.	
	No.				£
Class 15.—Miscellaneous Products	411	26,845	6,588	3,769	8,582,266
Plastic moulding and products ..	145	15,694	3,037	1,969	4,342,317
Brooms and brushes	25	1,043	391	210	493,060
Optical instruments and appliances	40	189	283	55	281,135
Surgical instruments and appliance	53	963	695	147	749,750
Photographic material (including developing, &c.)	41	2,204	974	665	1,186,596
Toys, games, and sports requisites	74	1,791	559	458	703,857
Artificial flowers	6	36	21	95	69,101
Other	27	4,925	628	170	756,450
Class 16.—Heat, Light, and Power	78	1,615,537	4,583	36	5,336,378
Electric light and power—					
(i) Government	17	1,443,949	2,581	26	2,972,059
(ii) Local Authority	17	150,051	594	4	594,403
(iii) Companies	17	5,431	40	2	32,292
Gas works—					
(i) Government	5	14,057	926	3	1,304,001
(ii) Companies	22	2,049	432	1	433,623
Total all Classes	16,426	2,992,064	259,404	97,739	310,540,109

INDIVIDUAL INDUSTRIES.

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

Information given in the tables under this heading relates only to the sub-class of industry mentioned in association with the respective tables, viz. Tanneries (7.3). It is possible that additional production of certain commodities takes place in other classes of industry—see reference on page 153.

Tanneries. Tanning was one of the earliest industries established in Victoria, in the year 1850 there were thirteen tanneries in the State. Particulars of the industry for the year 1948-49 and the past five years are given in the following table:—

COSTS AND VALUE OF PRODUCTION, 1957-58—continued.

Fuel and Light Used.	Lubricating Oil and Water.	Repairs to Plant, &c.	Materials Used, Including Containers.	Articles Produced or Work Done.	Value Added.	Land and Buildings.	Plant and Machinery.
£	£	£	£	£	£	£	£
531,248	36,626	695,100	17,861,018	35,107,072	15,983,080	5,851,118	5,246,118
332,997	20,443	358,829	10,516,921	20,047,631	8,818,441	2,958,394	3,381,102
8,595	1,031	17,752	862,331	1,720,629	830,920	492,747	192,762
7,330	343	7,454	258,822	756,835	482,886	258,421	61,935
17,105	1,631	16,443	533,085	1,683,523	1,115,259	422,256	166,830
70,659	6,276	117,337	1,872,540	3,621,592	1,554,780	958,798	657,965
28,091	1,366	29,081	1,078,897	2,239,883	1,102,448	365,006	204,091
1,466	207	1,520	64,649	161,942	94,100	34,793	9,448
65,005	5,329	146,684	2,673,773	4,875,037	1,984,246	360,703	572,185
11,279,295	290,457	1,133,874	5,245,562	34,263,821	16,314,633	20,793,106	76,213,115
9,753,266	168,431	602,323	232	22,624,003	12,099,751	16,212,043	59,927,010
1,147,794	21,577	61,357	1,750	2,776,071	1,543,593	1,192,158	3,580,493
55,220	6,854	10,125	1,090	136,261	62,972	39,600	151,434
277,716	48,034	284,150	3,464,828	5,741,672	1,666,944	3,087,963	10,425,432
45,299	45,561	175,919	1,777,662	2,985,814	941,373	261,342	2,128,746
40,413,875	2,348,590	25,185,613	743,273,829	1,377,697,308	566,475,601	280,206,762	310,878,918

VICTORIA—TANNERIES, (7-3).

Item.	Year Ended 30th June—					
	1949.	1954.	1955.	1956.	1957.	1958.
Number of establishments ..	44	44	42	40	40	36
Number of persons employed	2,427	2,385	2,377	2,127	1,994	1,995
Horse-power of engines used	10,905	13,374	13,288	13,008	13,339	13,532
Value of plant and machinery £	394,081	783,480	823,121	865,599	906,157	329,523
Value of land and buildings £	561,607	1,052,556	1,032,879	1,052,849	1,073,979	1,018,103
Salaries and wages paid .. £	1,141,977	1,939,965	1,972,290	1,933,028	1,850,966	1,846,806
Fuel, light, and power .. £	70,189	135,364	125,151	134,963	152,348	169,449
Value of materials used .. £	2,474,287	3,810,292	3,832,094	4,049,889	4,289,032	4,181,207
Value of output .. £	4,455,600	7,173,631	7,213,584	7,019,966	6,981,548	7,083,067
Value added to materials .. £	1,785,623	3,043,728	3,091,621	2,667,171	2,387,473	2,590,997

The value of leather and leather manufactures and substitutes therefor imported into Victoria from overseas countries during the year ended 30th June, 1958, was £337,765, whilst the value exported overseas for the same period amounted to £1,455,678.

The manufacture of soap was also one of the earliest **Soap, Candles, &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 in Sub-Class 9 of Class 3 of the Statistical Classification of Factories "Soap and Candles":—

VICTORIA—SOAP FACTORIES, (3-9).

Item.	Year Ended 30th June—					
	1949.	1954.	1955.	1956.	1957.	1958.
Number of establishments ..	17	23	29	28	25	25
Number of persons employed	783	680	716	674	671	762
Horse-power of engines used	2,313	2,711	2,507	3,310	3,450	3,806
Value of plant and machinery £	233,773	1,070,399	1,415,504	1,722,677	1,658,355	1,448,409
Value of land and buildings £	181,224	718,249	828,627	839,635	811,935	822,512
Salaries and wages paid .. £	332,264	562,584	614,093	663,409	784,874	822,042
Fuel, light, and power .. £	135,752	211,718	191,412	167,664	171,718	193,797
Value of materials used .. £	1,497,649	3,062,621	3,925,756	3,762,323	4,037,395	4,912,384
Value of output £	2,666,115	5,257,271	6,354,538	6,381,913	7,095,429	8,443,382
Value added to materials .. £	961,349	1,773,247	2,018,355	2,155,457	2,516,527	2,908,176

Additional manufacture of soap takes place in other Sub-classes of industry.

Imports from oversea countries into Victorian ports in the year ended 30th June, 1958, included 57,127 lb. of soap, and 2,751,930 lb. of soap substitutes valued at £10,637 and £239,820 respectively.

These industries are grouped because some establishments **Bricks, Pottery, Pipes, and Tiles.** 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, (2-1,2-2).

Item.	Year Ended 30th June—					
	1949.	1954.	1955.	1956.	1957.	1958.
Number of establishments ..	96	107	104	104	108	106
Number of persons employed	3,244	3,674	3,818	3,870	3,658	3,777
Horse-power of engines used	16,737	22,326	23,672	24,058	24,806	31,572
Value of plant and machinery £	644,876	1,290,302	1,588,339	1,732,435	1,851,630	1,946,390
Value of land and buildings £	584,903	1,283,499	1,464,664	1,599,487	1,702,455	1,952,688
Salaries and wages paid .. £	1,346,792	2,922,721	3,162,839	3,530,582	3,480,344	3,699,692
Fuel, light, and power .. £	367,830	1,078,221	1,123,191	1,182,102	1,189,994	1,288,348
Value of materials used .. £	331,748	683,893	714,661	947,750	995,346	1,227,339
Value of output £	2,722,979	6,258,163	6,771,345	7,609,752	7,592,054	8,556,221
Value added to materials .. £	1,876,306	4,144,630	4,526,074	4,991,090	4,922,576	5,525,545

Sawmills. Detailed information in regard to the sawmills of the State for the years 1948-49 and 1953-54 to 1957-58 is given in the table which follows :—

VICTORIA—SAWMILLS.

Year Ended 30th June—	Number of Mills.	Value of Land and Buildings, Machinery and Plant in Use.	Persons Employed.	Salaries and Wages Paid	Rough-sawn Timber Produced.	
					Quantity.	Value.*
		£	No.	£	super. ft.	£
1949 ..	486	2,182,131	5,969	2,169,200	267,724,071	4,414,533
1954 ..	640	4,941,597	7,323	4,929,982	326,936,259	13,185,958
1955 ..	635	5,439,424	7,673	5,642,384	353,529,724	15,077,883
1956 ..	636	6,017,635	7,907	6,120,111	343,022,347	15,356,706
1957 ..	575	6,323,688	7,345	6,087,348	333,802,710	14,966,030
1958 ..	588	6,308,130	7,033	6,061,471	334,238,405	14,950,466

* Estimated.

The figures given in the foregoing table relate to all sawmills which are included in Sub-Class 1 of Class 10 of the Statistical Classification of Factories. Particulars of the production of sawn timber in other factories, e.g., Box and Case Mills, &c., are not included.

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 819 other factories which comprise the wood-working group will be found on pages 158 and 159.

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.

VICTORIA—AGRICULTURAL AND DAIRYING MACHINERY WORKS, (4-20).

Item.	Year Ended 30th June—					
	1949.	1954.	1955.	1956.	1957.	1958.
Number of establishments ..	67	76	80	84	97	100
Number of persons employed	4,903	6,285	6,487	6,338	5,060	5,299
Horse-power of engines used	15,652	19,729	19,844	20,361	20,970	20,821
Value of land and buildings £	1,087,626	1,456,906	2,136,976	2,312,551	2,454,354	2,730,684
Value of plant and machinery £	1,296,091	1,995,436	2,566,701	2,689,273	2,725,774	2,648,859
Salaries and wages paid .. £	2,298,367	5,331,607	5,798,133	5,867,975	4,638,396	5,084,999
Value of materials used .. £	2,250,261	8,188,661	8,410,073	7,968,256	6,055,164	7,361,827
Fuel, light, and power used £	128,503	376,975	415,846	404,905	320,003	357,762
Value of output £	5,581,769	16,691,518	17,490,331	17,113,737	14,414,051	16,799,054

Bacon Curing. In the following table particulars of bacon and ham curing establishments are given for the year 1948-49 and the past five years:—

VICTORIA—BACON FACTORIES, (9-12).

Item.	Year Ended 30th June—					
	1949.	1954.	1955.	1956.	1957.	1958.
Number of establishments	19	16	16	15	15	16
Number of persons employed	729	623	674	776	775	841
Horse-power of engines used	3,412	2,851	2,891	3,014	3,049	3,281
Value of land, buildings, plant, &c. .. £	393,229	477,228	532,374	894,472	916,354	1,005,624
Salaries and wages paid .. £	299,985	460,726	548,912	665,487	665,713	756,531
Value of materials used .. £	2,457,579	3,638,205	3,701,120	4,407,178	4,383,746	4,544,265
Value of fuel and light .. £	31,916	52,619	60,055	67,248	72,386	90,312
Value of output £	2,997,940	4,909,438	5,094,993	5,634,793	5,860,210	6,595,991

Butter, Cheese and Milk Products. The following table gives some indication of the value of this industry to the State:—

VICTORIA—~~BUTTER~~ BUTTER AND CHEESE FACTORIES, ETC. (9-13).

Item.	Year Ended 30th June—					
	1949.	1954.	1955.	1956.	1957.	1958.
Number of establishments	145	135	134	130	131	131
Number of persons employed ..	4,605	5,164	5,219	5,443	5,620	5,417
Horse-power of engines	23,182	36,073	36,644	38,204	41,094	42,537
Value of plant and machinery .. £	1,805,671	5,545,539	5,787,405	6,167,630	7,030,601	7,524,488
Value of land and buildings .. £	1,777,413	4,217,201	4,869,822	5,160,612	5,836,349	6,233,018
Salaries and wages paid £	2,093,254	4,333,802	4,563,116	5,034,591	5,381,307	5,344,970
Fuel, light, and power £	502,644	1,274,215	1,287,812	1,470,430	1,541,628	1,474,146
Value of materials used £	22,071,888	42,785,267	45,980,696	49,565,235	50,812,487	49,863,305
Value of output £	25,655,002	53,299,929	55,918,046	62,451,734	63,726,100	63,707,088
Added value £	2,832,785	8,643,238	8,037,560	10,678,284	10,567,169	11,617,550

Further particulars relating to butter and cheese factories will be found on pages 158 and 159.

**Bakeries
including
Bread, Pastry
and Cakes.**

The statistical definition of a factory (see page 151) excludes from enumeration many small bakeries. Particulars relating to 1957-58 include 1,075 bakehouses which come within that definition.

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

VICTORIA—BAKERIES, (9-5).

Item.	Year Ended 30th June—					
	1949.	1954.	1955.	1956.	1957.	1958.
Number of factories ..	837	1,078	1,058	1,075	1,052	1,075
Number of persons employed ..	4,649	5,327	5,411	5,553	5,694	5,472
Horse-power of engines used ..	4,341	6,396	6,972	7,018	7,493	8,001
Value of land and buildings £	2,273,933	3,913,899	4,224,463	4,767,400	5,728,481	5,923,240
Value of plant and machinery ..	772,139	2,276,859	2,691,131	2,974,943	3,325,407	3,470,280
Salaries and wages paid .. £	1,379,182	2,852,675	3,002,065	3,294,445	3,618,352	3,605,055
Value of materials used .. £	4,183,996	8,712,938	9,298,845	9,731,633	10,381,960	10,587,053
Fuel, light, and power used ..	195,103	497,910	515,412	568,051	637,639	642,722
Repairs, oil and water used ..	104,063	237,679	241,312	297,074	323,295	321,914
Total output £	7,359,116	16,190,669	16,965,376	18,072,497	20,166,911	19,397,180
Value added £	2,875,954	6,742,142	6,909,807	7,475,739	8,824,917	7,845,486

**Meat and Fish
Preserving
Works.**

Details appertaining to the meat and fish preserving industry for 1948-49 and the past five years are given below :—

VICTORIA—MEAT AND FISH PRESERVING WORKS, (9-17).

Item.	Year Ended 30th June—					
	1949.	1954.	1955.	1956.	1957.	1958.
Number of establishments ..	16	16	16	17	15	15
Number of persons employed ..	1,178	1,064	1,424	756	653	919
Horse-power of engines used ..	2,440	2,931	3,349	3,652	3,219	4,045
Value of plant and machinery £	196,759	477,185	642,671	844,706	738,708	970,581
Value of land and buildings ..	363,702	629,918	826,835	731,396	684,409	893,885
Salaries and wages paid .. £	487,317	844,824	902,035	714,847	613,728	918,779
Fuel, light, and power .. £	50,565	93,511	146,313	117,509	86,571	125,597
Value of materials used .. £	2,665,318	5,091,852	6,143,253	5,493,284	3,258,626	4,983,431
Value of output £	3,789,892	6,526,100	7,593,928	7,107,624	4,599,538	7,336,807
Value added to materials .. £	1,027,497	1,264,704	1,163,769	1,349,209	1,158,207	2,087,582

**Ice and
Refrigeration.**

One hundred and twenty-six establishments were included under the industrial Sub-class "Ice and Refrigeration" during 1957-58. There were 1,765 persons employed and the total horse-power of machinery used was 31,562. The value of Land, etc. and Plant, etc. was £5,305,396 and the value of Output £4,068,269. Particulars of Meat Freezing Works are incorporated in the above figures. No collection of factory 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, 1958 :—

VICTORIA—MEAT IMPORTED AND EXPORTED OVERSEA,
1957-58.

Meats.	Imports.		Exports.			
	Quantity.	Value.	Quantity.	Value.		
		£		£		
Preserved by cold process—						
Beef	} lb. 34,695	3,298	lb. 15,544,446	1,556,412		
Lamb			35,192,866	3,227,370		
Mutton			24,693,835	1,334,982		
Pork			395,735	63,631		
Poultry			48,553	11,631		
Rabbits and Hares—						
furred					Prs. 95,100	49,157
skinned					lb. 22,486,193	2,136,018
Veal					2,000,654	203,058
Other					7,608,994	923,997
Bacon and hams			27,964	6,247		
Meat Extracts			385,326	143,364		
Preserved in tins, &c.	30,130	4,650	68,032,273	6,578,323		
Sausage casings	Bdls. 281,294	250,488	Bdls. 1,550,512	1,788,710		
Other	(a)	3,815	(a)	47,005		
Total Value	(a)	262,251	(a)	18,069,905		

(a) Value only.

Flour Mills. Victorian flour mills produce ample flour, etc., to supply all local requirements and a considerable surplus for export. The following table gives particulars of Sub-class 1 of Class 9 of the Statistical Classification of Factories, "Flour-Milling," for the year 1948-49 and for the past five years. There is additional production of flour, etc., in other Sub-classes of industry.

VICTORIA—FLOUR MILLS, (9-1).

Item.	Year Ended 30th June—					
	1949.	1954.	1955.	1956.	1957.	1958.
Number of establishments ..	39	37	35	35	34	34
Number of persons employed	1,263	1,240	1,254	1,254	1,391	1,314
Horse-power of engines used	10,299	14,007	14,787	14,394	15,404	15,235
Value of plant and machinery £	615,283	1,226,794	1,245,359	1,288,763	1,352,927	1,482,189
Value of land and buildings £	725,233	1,164,232	1,182,064	1,229,715	1,564,795	1,882,372
Salaries and wages paid .. £	597,352	1,057,925	1,077,712	1,093,391	1,244,330	1,308,466
Fuel, light, and power .. £	100,762	166,519	155,439	163,348	205,868	216,150
Value of materials used .. £	8,324,664	14,824,173	15,465,245	15,219,289	17,672,652	18,368,818
Value of output £	9,742,579	17,530,997	17,526,822	17,332,010	20,437,346	21,773,885
Value added to materials .. £	1,245,529	2,405,804	1,800,634	1,842,578	2,417,217	3,032,355

During the year ended 30th June, 1958, 212,051 tons of plain white flour, valued at £6,639,543 were exported from Victorian ports to countries beyond Australia.

Particulars relating to jam, pickle, and sauce factories and fruit and vegetable canning factories, Sub-classes 10 and 11 of Class 9 of the Statistical Classification of Factories are given in the table below, which shows the main items of output, etc., for the year 1948-49 and for the past five years:—

VICTORIA—JAMS, PICKLES, SAUCES, PRESERVES, ETC.,
(9-10, 9-11).

Item.	Year Ended 30th June—					
	1949.	1954.	1955.	1956.	1957.	1958.
Number of establishments ..	58	64	62	60	60	63
Number of persons employed	4,609	4,314	4,498	4,475	4,965	4,903
Horse-power of engines used	11,317	14,630	15,225	20,239	27,465	33,612
Value of plant and machinery	£ 1,165,568	2,443,327	2,421,336	4,696,154	5,296,945	5,617,554
Value of land and buildings	£ 1,229,491	2,540,874	2,663,715	5,090,769	5,633,105	6,085,361
Salaries and wages paid ..	£ 1,740,874	3,242,993	3,389,643	3,621,171	4,320,626	4,462,312
Fuel, light, and power used	£ 123,150	257,324	274,033	307,276	415,476	413,101
Value of material used ..	£ 6,726,382	13,256,809	13,740,768	14,126,352	20,348,458	21,637,485
Value of output ..	£ 10,111,172	21,388,659	21,772,339	22,124,036	30,457,315	32,933,076

There is additional production in other Sub-classes of industry.

Particulars regarding breweries and distilleries for the year 1948-49 and for the past five years are set forth in the succeeding tables:—

VICTORIA—BREWERIES, (9-22).

Item.	Year Ended 30th June—					
	1949.	1954.	1955.	1956.	1957.	1958.
Number of breweries ..	7	7	7	6	6	6
Number of persons employed ..	1,744	2,152	2,701	2,651	1,993	1,872
Horse-power of engines ..	7,020	9,396	10,937	12,029	12,096	11,765
Value of plant and machinery ..	£ 1,056,521	1,318,513	2,716,834	3,448,470	3,951,998	4,360,600
Value of land and buildings ..	£ 733,955	2,351,068	2,411,041	2,572,804	2,868,716	2,977,758
Salaries and wages paid ..	£ 923,935	1,730,707	2,422,450	2,595,828	2,081,382	2,019,861
Fuel, light, and power used ..	£ 132,296	395,385	356,762	345,347	339,834	343,194
Value of materials used	£ 1,924,929	6,895,444	7,144,774	7,209,078	6,502,285	6,898,053
Value of output ..	£ 3,329,303	10,509,751	11,051,551	11,836,425	11,317,864	11,766,177
Value added to materials	£ 1,203,780	3,048,705	3,284,012	3,935,686	4,078,174	4,114,044

* Excluding waste beer.

VICTORIA—DISTILLERIES, (9-23).

Item.	Year Ended 30th June—					
	1949.	1954.	1955.	1956.	1957.	1958.
Number of distilleries ..	9	7	7	6	6	6
Number of persons employed ..	285	187	197	206	232	221
Horse-power of engines ..	1,437	1,985	1,958	1,901	1,926	1,713
Value of plant and machinery £	221,030	300,952	308,851	204,970	260,428	211,275
Value of land and buildings £	151,991	136,329	225,366	197,755	219,633	219,270
Salaries and wages paid .. £	135,192	161,374	166,030	190,358	231,661	223,903
Fuel, light, and power .. £	65,830	61,927	68,767	72,793	92,843	96,831
Value of materials used .. £	504,273	40,979	460,960	516,439	694,195	813,429
Value of output £	939,056	66,375	908,137	1,008,471	1,444,246	2,209,269

**Tobacco
Factories.**

The ten establishments engaged in the manufacture of tobacco, cigars, and cigarettes during 1957-58 which conformed to the statistical definition of a factory gave employment to 1,949 persons, who were paid £1,696,131 in wages and who used machinery, plant, land, and buildings valued at £4,078,536. The table below shows the quantity of tobacco leaf used by, and the output of the full number of licensed establishments for the year 1948-49 and the past five years:—

VICTORIA—TOBACCO FACTORIES, (9-28).

Year Ended 30th June—	Leaf Operated on.		Production.		
	Australian.	Imported.	Tobacco.	Cigars.	Cigarettes.
	lb.	lb.	lb.	No.	No.
1949	1,137,753	7,315,033	6,188,846	15,697,065	1,532,942,025
1954	1,880,206	12,802,514	7,637,166	18,387,405	3,706,651,720
1955	1,727,432	15,091,886	6,256,721	19,681,155	5,355,563,750
1956	1,872,625	15,673,320	4,945,367	19,416,598	6,390,607,490
1957	1,801,732	15,172,640	5,580,800	16,029,821	6,041,402,750
1958	2,692,406	15,469,918	5,528,891	19,101,569	6,621,039,310

**Woollen
Mills.**

Victorian manufacturers supply approximately half of the Australian requirements in woollen piece goods. They have also developed an oversea export trade in wool tops, noils, and waste, the value of which, for the year 1957-58, was £4,733,992.

VICTORIA—WOOLLEN MILLS, (6-3).

Item.	Year Ended 30th June—					
	1949.	1954.	1955.	1956.	1957.	1958.
Number of establishments ..	87	93	88	81	84	88
Number of persons employed	12,192	11,655	11,386	11,273	12,013	12,055
Horse-power of engines ..	34,160	39,324	39,199	42,123	42,803	41,081
Value of plant and machinery £	2,091,389	5,169,298	6,080,917	6,287,187	6,263,559	6,583,282
Value of land and buildings £	1,949,391	3,698,311	4,171,552	4,363,352	5,533,319	5,543,371
Salaries and wages paid .. £	4,526,344	7,621,760	7,373,330	7,634,285	8,925,391	9,065,365
Fuel, light, and power .. £	424,981	612,151	588,345	654,998	743,461	743,529
Value of materials used .. £	12,872,112	22,105,459	18,714,773	19,930,980	24,139,546	24,597,525
Value of output £	20,762,640	35,292,642	31,312,519	33,732,522	40,201,842	39,461,291
Added value £	7,017,633	12,078,647	11,522,164	12,642,372	14,673,763	13,431,969

Hosiery and Knitting.

Early records show that, in the year 1886-87, there were three hosiery factories in Victoria, employing 56 hands. The capital value of land, buildings, and machinery was £2,080. The following table shows the main details about this industry for 1948-49 and the past five years:—

VICTORIA—HOSIERY AND KNITTING, (6-4).

Item.	Year Ended 30th June—					
	1949.	1954.	1955.	1956.	1957.	1958.
Number of establishments ..	307	420	427	429	429	427
Number of persons employed—						
Male	4,590	5,225	5,235	4,975	4,852	4,556
Female	9,511	10,165	10,616	10,130	10,372	10,483
Salaries and wages paid .. £	4,355,852	9,159,653	9,736,036	9,882,812	10,520,511	10,657,536
Value of land and buildings £	1,977,300	4,598,502	5,825,061	6,257,355	6,665,597	7,319,900
Value of plant and machinery £	1,783,052	5,049,642	5,493,936	5,612,335	5,504,214	5,766,123
Value of materials used .. £	8,471,920	17,937,085	18,088,023	19,103,246	21,535,614	23,951,358
Fuel, light, and power .. £	175,687	407,728	375,567	413,638	452,772	478,194
Value of output £	15,886,698	35,987,732	37,383,608	37,826,879	41,599,653	43,024,020
Added value £	6,863,710	17,081,053	17,485,174	17,694,594	18,996,798	17,969,403

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

VICTORIA—BOOTS AND SHOES, (8-10).

Item.	Year Ended 30th June—					
	1949.	1954.	1955.	1956.	1957.	1958.
Number of establishments ..	249	239	230	226	222	221
Number of persons employed	11,121	11,402	11,422	10,939	11,136	11,092
Horse-power of engines used	6,038	9,310	9,787	9,508	9,265	9,202
Value of plant, machinery, land and buildings .. £	1,790,251	3,316,103	3,599,839	3,850,268	4,104,328	4,556,628
Salaries and wages paid .. £	3,832,036	7,114,644	7,326,002	7,269,877	7,974,322	8,004,732
Fuel, light, and power .. £	57,881	92,293	101,355	106,831	125,793	134,736
Value of materials used .. £	5,807,671	10,750,344	11,360,428	11,731,745	11,731,640	12,294,375
Value of output £	11,614,506	21,025,593	21,945,602	22,459,819	23,332,355	24,719,301

Dress (exclusive of Boot) Factories. Information in the next table deals with industries associated with the manufacture of dress. The figures shown represent for the year ended June, 1949 and each of the past five years, the sum of the statistical sub-classes of industry mentioned below. Tailoring and ready-made tailoring, waterproof and oilskin clothing, dress-making, millinery, shirts, underclothing, foundation garments, handkerchiefs, hats and caps, and gloves are included, but not the knitting industry.

VICTORIA—DRESS (EXCLUSIVE OF BOOT) FACTORIES.

Year Ended 30th June—	Number of Factories.	Number of Persons Employed.			Salaries and Wages Paid.	Value of Materials Used.	Value of Output.
		Males.	Females.	Total.			
					£	£	
1949	1,471	6,244	25,996	32,240	9,272,246	20,924,124	36,562,066
1954	1,654	6,218	24,300	30,548	16,546,721	30,078,842	56,895,807
1955	1,655	6,123	24,579	30,702	17,330,807	31,469,443	59,606,240
1956	1,608	5,901	24,419	30,320	17,573,217	32,236,840	61,315,870
1957	1,581	5,848	23,986	29,834	18,246,675	32,074,773	61,857,966
1958	1,586	5,642	23,304	28,946	18,306,304	32,709,744	62,525,370

Particulars concerning electric light and power works of the State are given in the next table:—

VICTORIA—ELECTRIC LIGHT AND POWER WORKS.
(16-1, 16-2, 16-3).

Year Ended 30th June—	Number.	Value of Machinery and Plant.	Persons Employed.	Wages Paid.	Electricity Generated.	Value of Output.
		£	No.	£	'000 kilowatt hours.	£
1949	68	12,725,787	2,059	1,221,460	2,321,283	5,512,473
1950	67	14,797,107	2,294	1,452,885	2,530,227	6,214,850
1951	69	13,629,496	2,453	1,593,944	2,708,012	8,301,206
1952	68	15,941,360	2,500	1,979,255	2,772,047	10,603,024
1953	68	21,464,881	2,608	2,317,959	3,013,827	14,095,325
1954	67	34,925,189	2,690	2,431,526	3,485,668	16,168,746
1955	62	47,397,231	2,891	2,790,735	3,956,715	19,046,254
1956	57	49,071,096	3,007	3,315,382	4,417,958	21,475,012
1957	53	57,017,032	3,186	3,533,826	4,751,241	24,942,389
1958	51	63,658,937	3,247	3,598,754	5,012,578	25,536,335

Employees engaged in the transmission and distribution of electricity have not been included. In addition to the power stations shown above, there are 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: 1953-54, 207,005; 1954-55, 195,644; 1955-56, 210,532; 1956-57, 285,832; and 1957-58, 307,994.

STATE ELECTRICITY COMMISSION OF VICTORIA.

The State Electricity Commission was established by the *Electricity Commissioners Act* 1918, and constituted in its present form by the *State Electricity Commission Act* 1920, now consolidated in the *State Electricity Commission Act* 1958. The Act provides for the appointment for terms not exceeding seven years, of a chairman and three part-time commissioners. The Commission's duties cover:—

- (1) Co-ordination and integration 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.
- (4) Development of the State's brown coal resources for the generation of electricity, manufacture of briquettes and supply of brown coal to industry.

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.

Electricity production in the State generating system totalled 5,113 million kilowatt-hours in the financial year 1957-58. All generating stations in the State system are owned by the Commission, except Spencer-street Power Station, which is owned by the Melbourne City Council but operates as a unit in the State system, and the 50,000 kilowatt Hume hydro-electric power station (on the River Murray), the output of which is shared by the State Electricity Commission of Victoria and the State Electricity Commission of New South Wales.

The State Electricity Commission's power system generates virtually all Victoria's electricity, and at 30th June, 1958, was serving nearly 96 per cent of the population of the State. (Local country electricity undertakings outside the State system generated nearly 44 million kilowatt-hours in 1957-58.)

With the exception of Commission power stations in one region not connected to the State system (Mildura), the State generating system comprises a series of interconnected steam, hydro-and internal combustion power stations based on the large brown coal power station at Yallourn.

The installed generator capacity of the interconnected generating system at 30th June, 1958, was 1,186,459 kilowatts. Power stations in the interconnected system, and their respective installed generator capacities were as follows:—*Steam*: Yallourn (including allowance for briquette works) 389,000 kW (with further enlargement in progress); Newport (metropolitan area) 311,000 kW; Richmond (metropolitan area) 53,000 kW; Spencer-street (Melbourne City Council) 84,750 kW (further enlargement of 30,000 kW completed in May, 1959); Geelong "A" 10,500 kW; Geelong "B" 30,000 kW; Ballarat "A" 5,900 kW; Ballarat "B" 20,000 kW. *Hydro*: Kiewa 87,600 kW (with further enlargement in progress); Eildon 136,000 kW; Rubicon-Royston 12,915 kW; Hume (capacity available to Victoria) 25,000 kW. *Internal combustion*: Shepparton 10,530 kW; Warrnambool 4,980 kW; Hamilton 3,020 kW; Horsham 2,264 kW (ceased operation October, 1958).

In the Mildura region, which is not connected to the State system, the respective generator capacities of the Commission's two power stations at 30th June, 1958, were as follows:—Redcliffs 17,550 kW and Mildura 7,000 kW. Redcliffs and Mildura are locally interconnected. There were at 30th June, 1958, 12 terminal stations (total capacity 1,116,500 kVA), five switching stations (90,500 kVA), 60 main

metropolitan transmission sub-stations (1,049,000 kVA), 18,036 metropolitan and extra-metropolitan sub-stations (totalling 1,578,101 kVA). High and low voltage power lines aggregated 16,382 and 10,150 miles respectively. In addition, there were 917 miles of underground cables.

At 30th June, 1958, the number of consumers in Victoria served by the State system totalled 794,576, of whom 619,969 were supplied directly by the Commission and the remainder—174,607—by 11 metropolitan councils buying electricity in bulk. The Commission also supplied several municipalities and irrigation settlements bordering the River Murray in New South Wales. Of the consumers served in Victoria, 327,202 were outside the Metropolitan area. Farms supplied by the Commission numbered 38,999. Consumers supplied by local country undertakings outside the State system totalled 21,835. Supply was extended by the Commission during the five financial years 1953-58 to 151,008 additional consumers (including 17,170 consumers formerly served by local undertakings acquired by the Commission during this period). Supply was extended during the same period to 26,573 additional consumers by metropolitan councils buying electricity in bulk.

Other Commission undertakings in operation at 30th June, 1958, comprised the Yallourn, Yallourn North (including Yallourn North Extension) and Morwell brown coal open cuts and the Yallourn briquette works. Production of brown coal at the Yallourn open cut for 1957-58 was 7,714,688 tons, of which 5,285,592 tons were used for electricity generation at Yallourn power station and the remainder—2,429,096 tons—for briquette manufacture. Output of brown coal at Yallourn North and Yallourn North Extension open cuts was 1,647,553 tons, of which 879,196 tons were consumed in Newport and Geelong power stations, the remainder being sold to industrial consumers. Pending the start of electricity generation and briquette production at the Commission's new undertaking at Morwell, output of the Morwell open cut (607,726 tons) was used in Yallourn power station.

Briquette output for the year 1957-58 was 626,173 tons. Sales totalled 645,255 tons, of which 172,000 tons (or nearly 27 per cent.) were used for electricity generation. Nearly 347,000 tons were sold to industrial and household consumers, and the remaining 126,000 tons to the Gas and Fuel Corporation of Victoria for the production of town gas at Morwell for piping to Melbourne. The briquette works also contributed 56 million kWh of by-product electricity to the State system.

The Commission owns and operates the tramway systems in Ballarat and Bendigo.

Approved major power plant extensions include :—Yallourn (steam) 240,000 kW, which will increase the total capacity of Yallourn power station to 621,000 kW ; Kiewa (hydro) 96,000 kW ; Morwell power

station (steam), which is being developed by stages in conjunction with large new briquette works (stage 1 already completed) and is designed for an ultimate net output of 151,000 kW for general supply through the State system, after operating requirements have been met in the new briquette works which will have an annual production of about 1,500,000 tons of briquettes.

To connect Victoria with the Snowy Mountains hydro-electric scheme, work was in progress (for completion in 1959) on a 330,000 volt transmission line to a new switching station in the Victorian supply system at Dederang, north of Kiewa.

Work was completed in the latter months of 1958 on the 87 miles long Colac-Melbourne section of the 220,000 volt grid which is designed ultimately to encircle Central Victoria and extend along the Murray Valley to Redcliffs, near Mildura. Temporarily the Colac-Melbourne line is operating at 66,000 volts. Work was in progress also, for completion in 1959, on another 188 miles long section of the 220,000 volt grid from Kiewa to Shepparton and Bendigo. Initially, the Shepparton-Bendigo section will operate at 66,000 volts.

A proposed major project to follow works now in progress is the erection of the new large Hazelwood steam generating station, near Morwell, which is designed to operate on raw brown coal from the new open cut at Morwell, and is planned for an ultimate capacity of 1,200,000 kW.

Gasworks. Particulars of gasworks are given below for each of the past five years:—

VICTORIA—GASWORKS, (16-4, 16-5, 16-6).

Year Ended 30th June—	Number of Works.	Persons Employed.	Wages Paid.	Black Coal Used.	Oil Used.	Gas Made.	Coke Produced.	Value of Output.
		No.	£	Tons.	Gals.	'000 cubic feet.	Tons.	£
1954 ..	34	1,461	1,393,032	687,004	6,363,273	13,715,072	336,336	7,772,308.
1955 ..	33	1,462	1,403,991	695,519	6,294,976	14,290,270	354,737	8,718,747
1956 ..	32	1,529	1,580,134	657,025	2,297,447	14,467,881	366,919	8,821,951
1957 ..	32	1,629	1,833,078	603,487	879,757	15,745,759	228,457	8,778,498
1958 ..	27	1,372	1,737,624	503,918	882,657	16,683,882	199,431	8,727,486

In addition to black coal, oil, and coke, large quantities of briquettes and petroleum gas are used in gas making.

**Factory
Output by
Classes.**

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

**VICTORIA—VALUE OF ARTICLES PRODUCED IN
FACTORIES.**

Class of Industry.	Year Ended 30th June—				
	1954.	1955.	1956.	1957.	1958.
	£	£	£	£	£
1. Treatment of non-metallic mine and quarry products	17,595,183	20,682,385	23,176,344	24,733,182	26,220,176
2. Bricks, pottery, glass, &c.	11,692,336	13,401,686	15,074,722	14,749,762	15,844,217
3. Chemicals, dyes, explosives, paint, oils, and grease	70,836,980	99,128,508	120,506,721	144,750,520	153,179,722
4. Industrial metals, machines, implements, and conveyances ..	281,161,991	322,848,254	361,813,229	361,873,915	408,198,887
5. Precious metals, jewellery, and plate	5,545,988	5,994,370	6,147,592	6,313,861	6,435,681
6. Textiles and textile goods (not dress)	108,247,448	104,575,687	108,718,318	123,492,985	130,871,911
7. Skins and leather (not clothing or footwear) ..	19,595,770	19,389,988	17,942,080	19,007,394	17,606,974
8. Clothing	86,031,234	89,932,979	93,069,860	95,936,599	97,411,479
9. Food, drink, and tobacco	206,235,235	219,942,822	230,694,602	245,862,831	260,893,394
10. Woodworking and basketware	36,795,372	42,750,320	45,143,057	45,215,595	49,639,629
11. Furniture, bedding, &c. ..	13,440,450	15,236,503	16,647,854	17,224,165	19,307,504
12. Paper, stationery, printing, bookbinding, &c. ..	59,839,308	67,830,097	72,606,188	80,931,011	90,057,969
13. Rubber	21,620,993	25,281,641	29,770,920	29,034,799	31,959,377
14. Musical instruments ..	549,463	577,551	651,287	650,466	699,495
15. Miscellaneous products ..	22,376,322	25,318,631	29,132,009	32,644,015	35,107,072
16. Heat, light, and power ..	23,941,054	27,765,001	30,296,963	33,720,878	34,263,821
Total	985,505,127	1,100,656,423	1,201,391,746	1,276,141,978	1,377,697,308

Employment in Factories. The average number of persons employed over the whole year in each class of industry is shown below:—

VICTORIA—AVERAGE NUMBER OF PERSONS EMPLOYED IN FACTORIES.

Class of Industry.	Year Ended 30th June—				
	1954.	1955.	1956.	1957.	1958.
1. Treatment of non-metalliferous mine and quarry products	5,629	6,088	6,492	6,398	6,341
2. Bricks, pottery, glass, &c.	5,532	5,752	5,893	5,652	5,060
3. Chemicals, dyes, explosives, paint, oils, and grease	14,104	15,418	16,577	16,653	16,996
4. Industrial metals, machines, implements, and conveyances	116,812	125,289	132,270	131,299	134,221
5. Precious metals, jewellery, and plate	2,777	2,785	2,562	2,605	2,469
6. Textiles and textile goods (not dress)	37,753	37,455	36,895	37,945	38,078
7. Skins and leather (not clothing or footwear)	5,436	5,460	4,941	4,724	4,649
8. Clothing	47,196	47,571	46,889	47,093	45,764
9. Food, drink, and tobacco	37,740	39,496	38,427	37,542	37,310
10. Woodworking and basketware	14,595	15,259	15,428	15,093	14,815
11. Furniture, bedding, &c.	6,048	6,168	6,263	6,312	6,550
12. Paper, stationery, printing, bookbinding, &c.	18,898	20,061	21,111	21,619	22,113
13. Rubber	5,371	6,122	6,771	6,348	6,932
14. Musical instruments	298	286	303	293	269
15. Miscellaneous products	8,937	9,081	9,827	10,313	10,357
16. Heat, light, and power	4,151	4,357	4,536	4,815	4,619
Total	331,277	346,648	355,185	355,204	357,143

Size of Factories. The following table shows the number of factories according to the number of hands employed for the period of operation during each of the years 1953-54 to 1957-58:—

**VICTORIA—FACTORIES ACCORDING TO NUMBER OF
HANDS EMPLOYED.**

Size of Factory.	Year Ended 30th June—				
	1954.	1955.	1956.	1957.	1958.
Under 4 hands—					
Number of—					
Factories ..	5,474	5,672	5,693	5,854	6,077
Employees ..	10,725	11,070	11,116	11,730	11,743
4 hands—					
Number of—					
Factories ..	1,251	1,250	1,229	1,247	1,254
Employees ..	5,004	5,900	4,916	4,988	5,016
5 to 10 hands—					
Number of—					
Factories ..	3,841	3,826	3,915	3,918	3,362
Employees ..	26,324	26,885	27,408	27,444	27,252
11 to 20 hands—					
Number of—					
Factories ..	2,179	2,206	2,260	2,252	2,268
Employees ..	32,035	32,151	33,006	33,219	33,341
21 to 50 hands—					
Number of—					
Factories ..	1,660	1,717	1,754	1,705	1,721
Employees ..	52,602	53,410	55,581	53,729	54,254
51 to 100 hands ..					
Number of—					
Factories ..	572	600	608	638	621
Employees ..	40,617	41,620	42,758	44,427	43,358
Over 100 hands—					
Number of—					
Factories ..	556	590	594	618	623
Employees ..	165,447	178,132	181,907	180,976	183,921

The composition of the last-mentioned group "over 100 hands" during 1957-58 was as follows:—

Size of Factory.	1957-58.	
	Number of—	
	Factories.	Employees.
101 to 200 hands	345	47,790
201 to 300 hands	114	27,515
301 to 400 hands	43	14,927
401 to 500 hands	32	13,958
501 to 750 hands	60	35,964
751 to 1,000 hands	11	9,448
1,001 hands and over	18	34,319
Total	623	183,921

VICTORIA—PROPORTION OF FACTORIES OF DIFFERENT SIZES.

Size of Factory.	Percentage to Total (Year Ended 30th June)—									
	1954.		1955.		1956.		1957.		1958.	
	Factories.	Employees.	Factories.	Employees.	Factories.	Employees.	Factories.	Employees.	Factories.	Employees.
Under 4 hands ..	35.2	3.2	35.8	3.2	35.4	3.1	36.1	3.3	37.0	3.3
4 to 10 ..	8.1	1.5	7.9	1.4	7.7	1.4	7.7	1.4	7.6	1.4
11 to 20 ..	24.7	8.1	24.1	7.7	24.4	7.7	24.1	7.7	23.5	7.6
21 to 50 ..	14.0	9.6	13.9	9.2	14.1	9.3	13.9	9.3	13.8	9.3
51 to 100 ..	10.7	15.8	10.8	15.3	10.9	15.6	10.5	15.1	10.5	15.1
101 and over ..	3.7	12.2	3.8	12.0	3.8	12.0	3.9	12.5	3.8	12.1
	3.6	49.6	3.7	51.2	3.7	50.9	3.8	50.7	3.8	51.2
Total ..	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0	100.0

Occupations in Factories.

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

VICTORIA—OCCUPATIONS OF PERSONS EMPLOYED IN FACTORIES.

Occupations.	Year Ended 30th June—				
	1954.	1955.	1956.	1957.	1958.
Working proprietors ..	13,722	14,053	14,056	13,967	13,934
Managerial and clerical staff, including salaried managers and working directors ..	33,789	36,262	38,287	40,279	40,951
Chemists, draftsmen and other laboratory and research staff	4,299	4,590	5,511	5,585	5,751
Foreman and overseers ..	14,193	14,862	15,262	15,498	16,262
Workers in factory, skilled and unskilled ..	262,916	274,741	279,848	277,507	278,110
Carters (excluding delivery only) messengers and persons working regularly at home for the establishment ..	2,358	2,140	2,221	2,368	2,135
Total ..	331,277	346,648	355,185	355,204	357,143

Particulars in the above table have been presented in accordance with amendments adopted at the 1945 Conference of Statisticians.

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 *Labour and Industry 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 Distribution in Factories. The average numbers of males and of females employed in factories, and their proportions to the male and female populations, for each of the years, 1948-49 to 1957-58, were as follows:—

VICTORIA—EMPLOYMENT OF MALES AND FEMALES IN FACTORIES.

Year Ended 30th June—	Males.		Females.		Total.	
	Number.	Average per 10,000 of Male Population.	Number.	Average per 10,000 of Female Population.	Number.	Average per 10,000 of Total Population.
1949 ..	208,184	1,996	83,822	781	292,006	1,380
1950 ..	216,198	2,009	87,278	794	303,476	1,395
1951 ..	224,919	2,012	91,873	817	316,792	1,412
1952 ..	233,699	2,022	90,444	784	324,143	1,403
1953 ..	228,724	1,919	82,035	695	310,759	1,310
1954 ..	240,698	1,979	90,579	751	331,277	1,367
1955 ..	251,675	2,012	94,973	767	346,648	1,393
1956 ..	258,006	1,995	97,179	764	355,185	1,385
1957 ..	258,119	1,937	97,085	743	355,204	1,345
1958 ..	259,404	1,901	97,739	728	357,143	1,319

Of the total persons employed, males formed 71 per cent. in 1948-49 and 73 per cent. in 1957-58. As compared with the year 1948-49, the number of males employed increased by 51,220 or 25 per cent. and the number of females employed by 13,917 or 17 per cent.

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

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

VICTORIA—FACTORY EMPLOYMENT: AGE GROUPS.

On Payroll on Pay Day Nearest*—	Males.				Females.			
	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 Females.
June 15th, 1949	2,806	18,305	179,039	200,150	2,354	16,374	65,245	83,973
" " 1950	2,670	17,113	188,788	208,571	2,181	15,093	70,598	87,872
" 30th, 1951	2,790	16,274	198,053	217,117	2,139	14,550	75,508	92,197
" " 1952	2,981	16,417	199,303	218,701	1,911	13,051	65,530	80,492
" " 1953	2,972	17,890	200,533	221,395	2,432	13,546	67,056	83,034
" " 1954	3,093	18,778	211,311	233,182	2,527	14,180	74,260	90,967
" " 1955	2,908	19,417	220,582	242,907	2,381	14,316	76,863	93,560
" " 1956	2,888	19,815	223,462	246,165	2,338	14,549	78,054	94,941
" " 1957	2,966	20,446	222,402	245,814	2,480	14,571	77,282	94,333
" " 1958	2,805	23,584	221,676	248,065	2,608	17,300	74,792	94,700

VICTORIA—FACTORY EMPLOYMENT: AGE GROUPS.

On Payroll on Pay Day Nearest*—	Males.				Females.			
	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 Females.

Percentage—

	To Total Males Employed				To Total Females Employed			
	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 Females.
June 15th, 1949	1.40	9.15	89.45	100.00	2.80	19.50	77.70	100.00
" " 1950	1.28	8.20	90.52	100.00	2.48	17.18	80.34	100.00
" 30th, 1951	1.28	7.50	91.22	100.00	2.32	15.78	81.90	100.00
" " 1952	1.36	7.51	91.13	100.00	2.37	16.22	81.41	100.00
" " 1953	1.34	8.08	90.58	100.00	2.93	16.31	80.76	100.00
" " 1954	1.33	8.05	90.62	100.00	2.78	15.59	81.63	100.00
" " 1955	1.20	7.99	90.81	100.00	2.54	15.30	82.16	100.00
" " 1956	1.17	8.05	90.78	100.00	2.46	15.33	82.21	100.00
" " 1957	1.21	8.32	90.47	100.00	2.63	15.45	81.92	100.00
" " 1958	1.13	9.51	89.36	100.00	2.75	18.27	78.98	100.00

* Prior to 1950-51—on payroll on payday nearest 15th June. From 1950-51 inclusive on payroll on payday nearest end of June.

Machinery in Factories. 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, 1948-49 to 1957-58. The value recorded is the depreciated or book value less any existing depreciation reserve:—

VICTORIA—MACHINERY IN FACTORIES.

Year Ended 30th June—	Number of Factories Equipped with Power-driven Machinery.	Rated Horse-power Used.	Value of Machinery and Plant.
			£
1949	12,367	1,617,088	76,079,598
1950	12,882	1,758,222	92,748,475
1951	13,222	1,813,416	107,261,327
1952	14,463	1,881,550	128,933,958
1953	14,971	2,095,238	147,365,224
1954	15,429	2,388,237	181,058,520
1955	15,814	2,577,152	226,346,950
1956	15,995	2,695,546	258,295,507
1957	16,232	3,007,602	290,784,979
1958	*	2,992,064	310,878,918

* Not available.

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

VICTORIA—HORSE-POWER OF ENGINES IN FACTORIES,
1957- 1958.

Class of Engine.	Electric Generating Stations. (Maximum Load).	Other Factories.	Total.
Steam—	h. p.	h. p.	h. p.
Reciprocating .. .. .	.. .. .	21,749	21,749
Turbine	1,167,930	60,317	1,228,247
Internal Combustion—			
Gas	2,475	3,508	5,983
Petrol or other light oils	1,720	30,453	32,173
Heavy oils	45,532	12,721	58,253
Water	304,678	1,418	306,096
Total	1,522,335	130,166	1,652,501
Electric motors driven by—			
(a) Purchased electricity .. .. .	.. .. .	1,195,221	1,195,221
(b) Electricity generated in own works	75,096	69,246	144,342

Reserve or idle horse-power capacity amounted to 190,166 (1957-58) 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—	Salaries Paid to Managers and Clerks. *		Wages Paid to all other Factory Workers. †		Total Salaries and Wages.
	Males.	Females.	Males.	Females.	

Aggregate Amounts.

	£	£	£	£	£
1949 ..	12,714,268	3,063,591	78,050,654	18,581,927	112,410,440
1950 ..	14,806,317	3,599,526	90,329,170	21,519,681	130,254,694
1951 ..	18,505,029	4,558,679	112,418,300	27,725,219	163,207,236
1952 ..	23,285,504	5,832,810	140,402,349	33,065,217	202,585,880
1953 ..	25,724,699	6,342,953	146,171,954	32,637,962	210,877,568
1954 ..	27,875,406	6,877,286	162,697,890	38,586,004	236,036,586
1955 ..	31,734,914	7,836,084	181,641,546	41,537,242	262,749,786
1956 ..	37,312,329	8,946,047	197,471,571	43,214,265	286,944,212
1957 ..	40,159,079	9,962,551	201,428,284	45,057,538	296,607,452
1958 ..	43,363,180	10,346,985	209,979,249	46,850,695	310,540,109

Average Amounts.

	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.
1949 ..	623 9 3	276 13 5	438 17 2	258 15 7	399 17 3
1950 ..	693 15 3	310 12 0	489 13 11	288 7 1	466 0 11
1951 ..	816 17 1	374 5 6	586 1 4	352 13 6	534 12 9
1952 ..	961 10 9	461 3 4	709 3 5	432 10 7	650 15 10
1953 ..	1051 10 8	513 7 0	760 4 6	478 1 0	678 11 9
1954 ..	1108 7 4	531 11 2	799 15 1	507 9 11	712 10 1
1955 ..	1178 5 10	562 19 7	855 0 7	523 15 5	790 0 0
1956 ..	1291 15 11	599 17 8	910 3 5	537 13 10	841 3 3
1957 ..	1325 14 8	639 15 6	933 10 1	566 1 7	869 4 3
1958 ..	1404 13 2	653 11 10	969 3 5	586 1 6	904 16 3

* Includes salaries paid to chemists, draftsmen and research staff.

† Includes wages paid to foremen and overseers.

The average annual earnings of all employees (excluding working proprietors) increased by £35 12s. 0d. in 1957-58.

The costs of production and the value of the output in each class of manufacturing industry during the year 1957-58 are given in the following statement:—

VICTORIA—FACTORY COSTS AND OUTPUT, 1957-58.

Class of Industry.	Costs of—				Value of Output
	Raw Materials Used including Containers.	Fuel, Light, and Power Used.	Salaries and Wages Paid.	Tools Replaced, Repairs, to Plant, Oil and Water Used.	
	£	£	£	£	£
1. Treatment of non-metalliferous mine and quarry products	11,641,193	1,942,356	6,118,099	814,359	26,220,176
2. Bricks, pottery, glass, &c.	4,104,660	1,910,069	5,262,675	1,061,216	15,844,217
3. Chemicals, dyes, explosives, paint, oils, and grease	94,981,119	6,087,092	17,234,395	3,548,111	153,179,722
4. Industrial metals, machines, implements, and conveyances ..	194,281,556	6,340,487	124,314,428	9,112,736	408,198,887
5. Precious metals, jewellery, and plate	2,795,601	131,599	2,065,615	85,146	6,435,681
6. Textile and textile goods (not dress)	75,800,329	2,172,504	29,352,927	2,378,758	130,871,911
7. Skins and leather (not clothing or footwear)..	10,882,365	398,060	3,840,602	317,737	17,606,974
8. Clothing	47,257,117	857,751	30,126,717	949,806	97,411,479
9. Food, drink, and tobacco	180,406,473	5,409,145	32,559,995	3,644,555	260,893,394
10. Woodworking and basketware	26,093,239	585,390	12,470,488	930,595	49,639,629
11. Furniture, bedding, &c. . .	9,998,020	109,958	5,142,604	136,695	19,307,504
12. Paper, stationery, printing, bookbinding, &c.	45,178,232	1,623,364	21,030,579	1,415,817	90,057,969
13. Rubber	16,506,010	1,024,563	6,884,454	972,125	31,959,377
14. Musical instruments ..	241,135	10,904	217,887	10,400	699,495
15. Miscellaneous products ..	17,861,018	531,248	8,582,266	731,726	35,107,072
16. Heat, light, and power ..	5,245,562	11,279,295	5,336,378	1,424,331	34,263,821
Total	743,273,629	40,413,875	310,540,109	27,534,203	1,377,697,308

**VICTORIA—PROPORTIONATE VALUE OF COSTS, ETC.,
TO PRODUCTION IN FACTORIES, 1957-58.**

Class of Industry.	Proportion of Costs, etc., to Total Value of Output.				
	Materials Used, Including Containers.	Fuel, Light, and Power.	Salaries and Wages.	Tools Replaced, Repairs to Plant, Oil and Water Used.	All Other Expenditure, Interest, and Profit.
	%	%	%	%	%
1. Treatment of non-ferrous mine and quarry products	44.4	7.4	23.3	3.1	21.8
2. Bricks, pottery, glass, &c.	25.9	12.1	33.2	6.7	22.1
3. Chemicals, dyes, explosives, paint, oils and grease	62.0	4.0	11.3	2.3	20.4
4. Industrial metals, machines, implements and conveyances ..	47.6	1.6	30.4	2.2	18.2
5. Precious metals, jewellery, and plate	43.4	2.1	32.1	1.3	21.1
6. Textiles and textile goods (not dress)	57.9	1.7	22.4	1.8	16.2
7. Skins and leather (not clothing or footwear)	61.8	2.3	21.8	1.8	12.3
8. Clothing	48.5	0.9	30.9	1.0	18.7
9. Food, drink, and tobacco	69.1	2.1	12.5	1.4	14.9
10. Woodworking and basketware	52.6	1.2	25.1	1.9	19.2
11. Furniture, bedding, &c.	51.8	0.6	26.6	1.7	20.3
12. Paper, stationery, printing, bookbinding, &c. ..	50.1	1.8	23.4	1.6	23.1
13. Rubber	51.7	3.2	21.5	3.0	20.6
14. Musical instruments ..	41.6	1.9	37.6	1.8	17.1
15. Miscellaneous	50.9	1.5	24.4	2.1	21.1
16. Heat, light and power ..	15.3	32.9	15.6	4.2	32.0
Total	54.0	2.9	22.5	2.0	18.6

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 2, the sum paid in wages represents 33·2 per cent. and the cost of raw materials 25·9 per cent. of the value of the finished article, whilst, in class 9, the expenditure on wages amounts to 12·5 per cent. and that on raw materials to 69·1 per cent. of the value of the output.

Costs of Production.

In the next table the costs 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 1948-49 to 1957-58 :—

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

Year Ended 30th June—	Specified Costs of Production.				All other Costs, &c. *	Total Value of Output.
	Materials, Including Containers.	Fuel, Light, and Power.	Salaries and Wages.	Tools Replaced, Repairs to Plant, Oil and Water Used.		
	£	£	£	£	£	£
1949	244,486,168	10,612,058	112,410,440	8,979,277	70,349,936	446,837,879
1950	284,197,019	12,822,004	130,254,694	10,202,650	88,989,913	526,466,280
1951	370,258,115	16,324,000	163,207,236	12,790,832	112,453,141	675,033,324
1952	463,121,444	20,778,840	202,585,880	15,706,814	131,774,045	833,967,023
1953	461,810,787	24,354,470	210,877,568	15,948,076	147,155,260	860,146,161
1954	531,527,923	27,539,190	236,036,586	18,123,298	172,278,130	985,505,127
1955	597,023,395	30,002,322	262,749,786	21,421,820	189,459,100	1,100,656,423
1956	653,230,994	32,665,916	286,944,212	23,547,248	205,003,376	1,201,391,746
1957	683,904,232	38,265,436	296,607,452	25,941,409	231,423,449	1,276,141,978
1958	743,273,629	40,413,875	310,540,109	27,534,203	255,935,492	1,377,697,308

* 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.

VICTORIA—PROPORTION OF OUTLAY TO OUTPUT OF FACTORIES.

Year Ended 30th June—	Proportion of Outlay to Output.					Total.
	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.	
	%	%	%	%	%	%
1949	54.7	2.4	25.1	2.0	15.8	100.0
1950	54.0	2.4	24.8	1.9	16.9	100.0
1951	54.8	2.4	24.2	2.0	16.6	100.0
1952	55.5	2.5	24.3	1.9	15.8	100.0
1953	53.7	2.8	24.5	1.9	17.1	100.0
1954	53.9	2.8	24.0	1.8	17.5	100.0
1955	54.2	2.7	23.9	2.0	17.2	100.0
1956	54.4	2.7	23.9	2.0	17.0	100.0
1957	53.6	3.0	23.3	2.0	18.1	100.0
1958	54.0	2.9	22.5	2.0	18.6	100.0

The ratio of cost of materials to the value of the output of factories was 54.0 per cent. on the average of the last five years, as against 54.6 per cent. in the period 1948-49 to 1952-53. The ratio of salaries and wages to output averages 23.4 per cent. over the last five years, as against 24.5 per cent. over the period 1948-49 to 1952-53. The proportionate outlay on fuel, light, and power was 2.8 per cent. as against 2.5 per cent. After allocating the proportion for repairs to plant and buildings, replacement of tools, and costs of lubricating oil and of water, the balance available for miscellaneous expenses, rent, interest, and manufacturers' profit was £17 14s. 10d. in every £100 of the total output value in the period 1953-54 to 1957-58, as compared with £16 9s. 6d. in the preceding five-year period.

In 1957-58 wages and salaries took 54.8 per cent. of the value added in manufacturing (see page 152), leaving 45.2 per cent. for the payment of expenses not specified above (taxation, depreciation, interest, rent, insurance, etc.), and funds available for profits.

**Value of
Land and
Buildings
and Plant
and
Machinery.**

The following statement shows the value of land and buildings and of plant and machinery used in connexion with the various classes of manufacturing industries for the year, 1957-58.

The values recorded in this section are generally the values apportioned in the books of the individual firms after allowance has been made for depreciation, but they include estimates of the capital value of premises and plant rented. The totals shown in the table consequently do not represent the actual amount of capital invested in the items specified.

VICTORIA—VALUE OF MACHINERY AND PLANT, LAND AND BUILDINGS, 1957-58.

Class of Industry.	Value of Land and Buildings.	Value of Machinery and Plant.
	£	£
1. Treatment of non-metalliferous mine and quarry products	4,364,627	6,568,436
2. Bricks, pottery, glass, &c.	3,603,113	3,005,079
3. Chemicals, dyes, explosives, paint, oils and grease	28,851,541	51,435,431
4. Industrial metals, machines, implements, and conveyances	95,603,296	69,561,194
5. Precious metals, jewellery, and plate	1,720,544	588,492
6. Textiles and textile goods (not dress)	22,475,125	19,420,222
7. Skins and leather (not clothing or footwear)	2,805,881	1,406,719
8. Clothing	16,516,250	6,849,763
9. Food, drink and tobacco	43,318,438	38,525,646
10. Woodworking and basketware	7,589,316	5,236,749
11. Furniture, bedding, &c.	4,489,579	1,189,118
12. Paper, stationery, printing, bookbinding, &c.	17,361,740	20,924,719
13. Rubber	4,679,635	4,602,645
14. Musical instruments	183,453	105,472
15. Miscellaneous products	5,851,118	5,246,118
16. Heat, light and power	20,793,106	76,213,115
Total	280,203,762	310,878,918

The value of plant, buildings, etc., used in connexion with three classes of industry—food and drink, industrial metals, etc., and heat, light, and power—amounted in 1957-58 to £344,014,795, approximately 58 per cent. of the total for all manufacturing industries.

The values of machinery and plant and of land and buildings used in connexion with manufacturing industries and the value of depreciation allowed thereon are shown in the next table for the years 1953-54 to 1957-58. The value recorded is the depreciated or book value less any existing depreciation reserve.

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

Year Ended 30th June—	Land and Buildings.		Machinery and Plant.	
	Value at End of Year.	Depreciation Allowed during year.	Value at End of Year.	Depreciation Allowed during Year.
	£	£	£	£
1954	158,209,131	1,624,240	181,058,520	12,157,694
1955	186,324,240	1,909,450	226,346,950	15,208,625
1956	214,921,082	2,244,175	258,295,507	17,445,682
1957	252,023,659	2,670,085	290,784,979	20,836,351
1958	280,206,762	2,949,028	310,878,918	24,436,929

Accidents in Factories. In the appended table the number of accidents reported under the *Labour and Industry Act* and the incidence rate thereof are given for the past ten years. Since 1920 the Act provides for the reporting of all factory accidents which prevent the employee from returning to work within twenty-four hours.

VICTORIA—ACCIDENTS IN FACTORIES *

Year.	Number of Employees.	Number of Accidents.	Percentage of Accidents to Number of Employees.
1949	292,667	5,956	2·035
1950	305,066	6,418	2·104
1951	297,473	5,809	1·953
1952	279,736	4,910	1·755
1953	299,772	5,275	1·760
1954	312,735	7,772	2·485
1955	313,679	9,785	3·119
1956	326,993	8,536	2·610
1957	332,767	8,225	2·472
1958	345,992	8,390	2·425

* Reported under the *Labour and Industry Act*.

Manufactures—Penal Department and Blind Institute. The foregoing tables do not include particulars relating to work of various kinds done at the Pentridge Penal Establishment and at the Royal Victorian Institute for the Blind. At the former establishment the manufacture and process treatment connected with the following industries are carried on:—Textile, tailoring, clothing, footwear, brushware, coir-matting, wood and metal working, knitting, printing, bookbinding, &c. The approximate value of output during 1958 was £123,000 and of materials used £63,000. 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, matting and polythene bags. The Institute also packs sugar, etc., and assembles and packs plastic toys, show bags and light engineering products. In 1957-58 132 persons (117 males and 15 females) were employed. The value of the articles produced for the twelve months ended 31st March, 1958, was £115,000.

The next table lists the principal articles of manufacture in Victoria, irrespective of the sub-class of industry in which production took place. Due to the limited number of producers it is not permissible to publish particulars regarding some articles of manufacture which would otherwise appear below :—

PRINCIPAL ARTICLES MANUFACTURED IN VICTORIA,
1957-58.

Article.	Unit of Quantity.	Quantity.	Value.
			£
Acid—Sulphuric	ton	314,574	*
Aerated and Carbonated Waters	'000 gal.	16,205	3,488,778
Batteries .. .. .	..	..	2,194,723
Beer	'000 gal.	66,752	11,615,963
Biscuits	'000 lb.	48,134	4,922,214
Blankets	pair	486,695	3,245,793
Bolts and Nuts .. .. .	..	..	2,147,468
Paperboard Boxes and Cartons†	..	..	11,380,075
Boxes and cases—Wooden .. ..	..	..	1,715,975
Bread—2-lb. loaves	'000	193,998	11,454,470
Bricks—Clay	'000	236,380	4,303,597
Briquettes—Brown Coal	ton	626,173	1,941,778
Butter	ton	86,236	33,091,226
Cakes, Pastry, Pies, &c. .. ..	..	..	7,703,915
Cans, Canisters, Containers—			
Metal .. .. .	..	..	12,906,492
Cardboard	ton	75,999	7,348,819
Cheese	ton	14,840	3,376,946
Cigarettes	'000	6,621,039	14,822,139
Cloth Piece Goods—			
Woollen	sq. yd.	11,526,378	7,450,134
Worsted	sq. yd.	6,461,263	*
Confectionery—			
Chocolate	'000 lb.	25,075	5,743,174
Other without chocolate	'000 lb.	35,678	4,330,088
Electrical Appliances—			
Household Fittings (Switches, Fuses, &c.) .. .. .	..	..	1,411,892
Regulating, Starting, Controlling, &c. .. .. .	..	..	3,005,208
Electricity Generated	mill. kWh.	5,321	*
Fibrous Plaster Sheets	'000 sq. yds.	7,621	2,449,102
Flour—Wheaten	Short ton	468,977	*
Footwear—			
Boots and Shoes—			
Men's and Youth's	'000 pair	2,270	5,608,624
Women's and Maids	'000 pair	5,868	11,927,533
Children's	'000 pair	1,449	1,582,747
Sandals	'000 pair	886	1,047,020
Slippers	'000 pair	5,004	2,794,000

* Quantity only available.

† Includes composite wood and paper board butter boxes.

PRINCIPAL ARTICLES MANUFACTURED IN VICTORIA, 1957-58—*continued.*

Article.	Unit of Quantity.	Quantity.	Value.
			£
Fruit—preserved—			
Peaches	'000 lb.	60,215	4,510,971
Pears	'000 lb.	90,799	6,327,077
Furniture and Office Equip- ment—			
Metal .. .. .	..	..	3,933,766
Wooden .. .. .	..	..	9,216,384
Gas—Town	mill. cub. ft.	16,684	10,999,714†
Ice	ton	130,736	481,460
Ice Cream	'000 gal.	3,633	2,196,737
Jams, Fruit Spreads, and Butters, &c.	'000 lb.	54,524	3,703,764
Leather—			
Dressed and Upper from Hides	..	..	3,439,729
Sole and belting	'000 lb.	12,619	*
Machinery—Industrial—			
Hoists, Cranes, Lifting .. .. .	..	..	1,576,689
Food Processing and Canning	..	..	1,695,280
Metal Working—			
Machine Tools .. .. .	..	..	2,110,694
Other .. .. .	..	..	1,361,235
Pumping (including Pumps)	..	..	2,826,263
Refrigerating (not household)	..	..	1,101,142
Malt—Barley	bus.	5,685,649	5,669,714
Mattresses—All types	No.	388,224	2,564,113
Meat—Canned	'000 lb.	93,086	9,397,852
Medicines, &c. (Proprietary) .. .. .	..	..	4,307,423
Milk—			
Condensed	'000 lb.	97,234	6,453,859
Powdered—Full Cream .. .. .	..	24,854	*
Paints (not water) and Enamels	'000 gal.	3,355	5,877,472
Pipes—Concrete .. .. .	..	..	1,933,043
Pollard	short ton	101,948	*
Ropes and Cables (excluding Wire)	cwt.	70,292	1,028,656
Sauce—Tomato	'000 pint	10,971	1,312,761
Sausage Casings—Mutton and Lamb .. .. .	..	..	2,152,317
Shirts (Men's and Boy's)	doz.	685,419	*
Sinks—Stainless Steel	No.	95,121	1,332,642
Soap—Household and General washing	cwt.	556,241	3,481,950
Personal Toilet	cwt.	69,274	606,801
Socks and Stockings—Men's and Children's	doz. pair	1,197,563	3,939,504
Stockings—Women's	doz. pair	1,657,083	6,719,691
Soup—Tomato	'000 pint	16,557	1,309,528
Steam Gas Water Fittings, Valves &c. .. .. .	..	..	4,563,576

* Quantity only available.

† Value of gas sold.

PRINCIPAL ARTICLES MANUFACTURED IN VICTORIA, 1957-58—*continued.*

Article.	Unit of Quantity.	Quantity.	Value.
Steel—Structural—Fabricated ..	ton	58,344	£ 7,224,041
Tiles—Roofing—			
Cement	'000	19,357	709,922
Terra Cotta	'000	15,195	623,029
Timber produced from logs—			
Local	'000 sup. ft.	346,431	*
Trailers	No.	963	*
Transformers, Chokes, &c. ..	No.	258,074	2,222,966
Tyres Retreaded and Recapped	No.	589,662	2,664,355†
Underwear—Knitted Garments—			
Men's and Boy's	doz.	674,950	*
Women's and Girl's	doz.	1,301,404	*
Vegetables, Preserved in Liquid	'000 lb.	35,985	2,730,879
Window Frames—Metal .. .. .	..	..	2,870,951
Wool—Scoured or Carbonized..	'000 lb.	59,803	*
Wool Tops	'000 lb.	17,607	*

* Quantity only available.

† Amount charged for retreading and recapping.

VALUE OF VICTORIAN PRODUCTION.

The value of production as estimated in the following table 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 also 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 market. 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 manufacturing into butter, &c., is included in manufacturing production.

VICTORIA--GROSS VALUE OF PRIMARY PRODUCTION.

Industry.	Year Ended 30th June--				
	1954.	1955.	1956.	1957.	1958.
	£'000.	£'000.	£'000.	£'000.	£'000.
Agriculture	89,374	84,305	88,902	86,141	88,108
Pastoral	123,226	130,680	123,757	149,880	137,854
Dairying*	57,730	62,000	70,094	66,330	65,431
Poultry and Bees ..	22,170	20,261	21,394	21,464	23,266
Trapping	2,227	2,315	3,422	3,588	3,621
Forestry	10,190	10,721	12,668	13,134	14,109
Fisheries	986	1,002	871	1,381	1,294
Mining	9,329	10,809	10,917	11,891	14,022
Total Primary Industries	315,232	322,093	332,025	353,809	347,795

* Includes Subsidy--1953-54, £ 6,811,943; 1954-55, £ 7,259,000; 1955-56, £ 6,355,000; 1956-57, £ 6,286,000; 1957-58, £ 6,696,000.

The gross value of production less costs of marketing, viz. freight, cartage, brokerage, commission, insurance and containers represents the gross value of production at the place of production, i.e. Local Value, details of which are shown in the following table:—

Gross Value at the Place of Production (Local Value).

**VICTORIA—GROSS VALUE OF PRIMARY PRODUCTION
AT THE PLACE OF PRODUCTION.**

Produce.	Value in Year Ended 30th June—				
	1954.	1955.	1956.	1957.	1958.
	£'000.	£'000.	£'000.	£'000.	£'000.
Agriculture	74,787	70,299	75,580	72,947	74,933
Barley	2,840	2,494	2,523	2,829	2,710
Maize	225	147	116	60	130
Oats	2,398	3,292	2,984	2,307	4,072
Wheat	31,315	24,952	21,361	19,778	18,460
Onions	614	681	810	685	425
Potatoes	3,100	4,801	11,662	4,797	2,222
Other Vegetables	7,403	7,742	9,845	9,954	9,219
Hay and Straw	12,406	11,034	13,287	14,358	16,331
Fruit—					
Orchards	6,282	6,883	6,517	8,364	9,422
Vineyards	5,213	5,090	3,895	6,498	8,106
Other Crops	2,991	3,183	2,580	3,317	3,836
Pastoral	113,254	119,424	112,041	137,962	125,389
Wool	67,648	68,581	61,917	89,652	68,520
Sheep, slaughtered	15,924	19,965	20,490	17,341	20,865
Cattle, slaughtered	29,682	30,878	29,634	30,969	36,004
Dairying*	55,552	59,677	67,594	63,759	62,918
Cream for butter	21,624	27,069	35,152	29,481	29,027
Milk for cheese	5,003	4,011	2,557	3,921	2,973
Milk for condensing, concentrating, &c.	6,306	5,587	6,229	6,085	6,520
Whole milk consumed	11,087	11,282	11,510	12,050	12,243
Pigs	4,720	4,469	5,791	5,936	5,459
Poultry and Bees	20,479	18,690	19,771	19,787	21,373
Eggs	15,202	14,227	14,877	14,349	15,516
Poultry	4,875	4,110	4,484	4,932	5,589
Honey and Beeswax	402	353	410	506	268

* Inclusive of Subsidy—1953-54, £6,811,943; 1954-55, £7,259,000; 1955-56, £6,355,000; 1956-57, £6,286,000; 1957-58, £6,696,000.

VICTORIA—GROSS VALUE OF PRIMARY PRODUCTION AT THE PLACE OF PRODUCTION—*continued.*

Produce.	Value in Year Ended 30th June—				
	1954.	1955.	1956.	1957.	1958.
	£'000.	£'000.	£'000.	£'000.	£'000.
Trapping, &c.	2,047	2,153	3,197	3,333	3,287
Rabbits and hares	1,361	1,454	1,883	2,387	2,501
Rabbit and hare skins, &c. ..	686	699	1,314	946	786
Forestry	9,475	9,987	11,823	12,297	13,088
Sawmills	6,686	7,130	7,621	7,828	7,617
Hewn Timber	*	*	926	1,007	1,300
Firewood	2,631	2,695	3,118	3,280	4,030
Bark for tanning	158	162	158	163	120
Other	*	*	*	19	21
Fisheries	834	849	733	1,178	1,104
Fish	714	757	637	1,026	937
Crayfish	119	92	96	150	158
Oysters	1	..	..	2	6
Other .. .. .	..	..	..	..	3
Mining	9,329	10,080	10,916	11,891	12,672
Gold	1,039	887	640	653	680
Coal—					
Black	946	886	815	668	556
Brown	3,628	3,945	4,382	4,644	5,227
Other Metals and Minerals ..	761	1,063	1,148	1,188	1,256
Quarrying	2,955	3,299	3,931	4,738	4,953
Total Primary Industries ..	285,757	291,159	301,655	323,154	314,764

* Not available previously.

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 industry.
- (b) Proprietors (including landlords) of any of the instruments of production concerned.
- (c) Providers of capital including debenture holders and mortgagees.

This represents the net value of production which is calculated by the deduction of costs of production from the gross value of production at the place of production. Such costs comprise stock feed, seed costs, manures, spraying, animal dips, fuel, power, water and all other materials consumed in the process of production.

VICTORIA—NET VALUE OF PRODUCTION.

Division of Industry.	Year Ended 30th June—				
	1954.	1955.	1956.	1957.	1958.
Rural—	£'000	£'000	£'000	£'000	£'000
Agriculture ..	65,624	61,516	66,465	63,802	64,971
Pastoral	108,930	112,196	104,820	129,883	115,970
Dairying	46,202	46,428	54,301	47,933	46,153
Poultry	13,991	11,796	12,618	12,506	14,042
Bee-farming ..	402	353	410	506	268
Total, Rural ..	235,149	232,289	238,614	254,630	241,404
Non-rural	19,633	21,134	24,621	26,265	27,367
Total, Primary	254,782	253,423	263,235	280,895	268,771
Manufacturing ..	408,314	452,223	491,948	528,031	566,476
Total All Industries..	663,096	705,646	755,183	808,926	835,247

**Employment
in Factories.**

The index which follows has been compiled from the particulars of monthly employment furnished on Annual Factory Statistics Forms. These forms provide for the collection of the number of workers on the factory pay-roll on the last pay day of each month.

INDEX OF FACTORY EMPLOYMENT.

(Base—3 years ended June, 1939. = 1,000.)

Month.	1953-54.	1954-55.	1955-56.	1956-57.	1957-58.
July	1,602	1,706	1,767	1,788	1,790
August	1,614	1,714	1,776	1,787	1,789
September ..	1,626	1,725	1,782	1,785	1,797
October	1,647	1,737	1,788	1,788	1,804
November .. .	1,658	1,747	1,795	1,794	1,813
December .. .	1,658	1,745	1,785	1,784	1,805
January	1,683	1,759	1,792	1,782	1,823
February .. .	1,700	1,769	1,817	1,808	1,847
March	1,719	1,780	1,824	1,820	1,853
April	1,712	1,771	1,816	1,801	1,826
May	1,701	1,765	1,805	1,795	1,815
June	1,705	1,770	1,794	1,789	1,803

BUILDING STATISTICS.

The tables which follow comprise certain particulars of the building industry in Victoria, collected and compiled quarterly.

The figures shown deal with the operations of private contractors, Government authorities and "owner builders". They exclude the value of land and refer only to new buildings and new additions of £5,000 and over to buildings other than houses. Alterations, additions under £5,000 to buildings other than houses, renovations, etc., are excluded. The operations of "owner-builders" are included except when they relate to buildings in areas where building permits are not required, nor are they included in the tables dealing with employment.

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

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

Year Ended 30th June—	New Houses, Flats, Shop Dwelling.†			Other New Buildings.‡		
	Com- menced during Period.	Com- pleted* during Period.	Under Con- struction at End of Period.	Com- menced during Period.	Com- pleted during Period.	Under Con- struction at End of Period.
(a) Number of New Buildings.						
	No.	No.	No.	No.	No.	No.
1954	21,928	22,582	21,915	2,966	2,740	1,682
1955	24,027	24,851	21,088	2,896	2,811	1,767
1956	22,060	24,045	19,082	3,003	2,851	1,919
1957	20,841	21,181	18,742	2,897	3,076	1,740
1958	23,311	22,568	19,485	3,373	3,368	1,745
(b) Value (when completed) of Buildings mentioned above.						
	£'000	£'000	£'000	£'000	£'000	£'000
1954	59,620	61,093	57,419	30,069	25,627	45,662
1955	68,311	70,527	57,699	34,382	28,405	54,356
1956	68,150	71,916	56,488	53,266	39,678	72,037
1957	66,156	68,581	56,161	43,178	46,249	71,782
1958	76,108	73,664	60,345	46,025	58,092	62,405

* Including owner-built houses.

† See next table for separate details.

‡ Includes Shops without dwellings, Hotels, Boarding houses, Factories, etc.

VICTORIA—NUMBER (a) AND VALUE (b) OF HOUSES, FLATS AND SHOP DWELLINGS COMPLETED DURING THE PERIODS SHOWN.*

Year Ended 30th June—	Houses.			Flats (Units).	Shops with Dwelling.	Total.
	Brick, Brick Veneer, Concrete, etc.	Wood.	Other (including Fibro-Cement).			

(a) Number of New Dwellings.

	No.	No.	No.	No.	No.	No.
1954	6,346	13,313	1,934	689	300	22,582
1955	7,255	14,804	1,780	781	231	24,851
1956	6,938	13,983	1,731	1,273	120	24,045
1957	7,040	11,627	1,518	897	99	21,181
1958	7,905	11,796	1,666	1,104	97	22,568

(b) Value (when completed) of Dwellings mentioned above.

	£'000	£'000	£'000	£'000	£'000	£'000
1954	21,666	32,649	3,722	1,772	1,284	61,093
1955	25,624	38,361	3,653	1,832	1,057	70,527
1956	25,692	38,711	3,805	3,154	554	71,916
1957	28,332	33,998	3,441	2,340	470	68,581
1958	31,313	35,009	3,960	2,914	468	73,664

* Including owner-built houses.

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

Year Ended 30th June—	Commenced During Period.		Completed During Period.		Under Construction at End of Period.	
	Metro-politan.	Other.	Metro-politan.	Other.	Metro-politan.	Other.
	No.	No.	No.	No.	No.	No.
1954	11,107†	9,808	11,364	10,229	10,144	10,851
1955	15,293	7,381	15,919	7,920	13,214	6,613
1956	14,316	6,929	15,453	7,199	12,056	6,343
1957	13,160	6,489	13,732	6,453	11,484	6,379
1958	15,020	6,913	14,544	6,823	11,960	6,469

* Including owner-built houses but excluding flats, shops with dwellings, converted military huts, etc.

† Statistical metropolitan area prior to 1st January, 1954.

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

Particulars.	As at 30th June—				
	1954.	1955.	1956.	1957.	1958.
	No.	No.	No.	No.	No.
Contractors (†) ..	2,353	2,519	2,617	2,412	2,456
Sub-contractors (†) ..	3,486	4,124	4,039	3,760	4,077
Wage Earners ..	22,637	25,753	25,650	24,371	25,101
Total ..	28,476	32,396	32,306	30,543	31,634

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

(†) Actually working on jobs.

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

Tradesmen.	As at 30th June—				
	1954.	1955.	1956.	1957.	1958.
	No.	No.	No.	No.	No.
Carpenters	12,180	14,075	13,489	12,508	12,636
Bricklayers	2,474	2,695	2,643	2,629	3,000
Painters	2,346	2,604	2,877	2,823	2,947
Electricians	934	1,118	1,192	1,190	1,425
Plumbers	1,905	2,154	2,326	2,238	2,541
Builders' Labourers ..	5,488	6,124	6,045	5,074	4,690
Other	3,149	3,626	3,734	4,081	4,395
Total	28,476	32,396	32,306	30,543	31,634

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

FISHERIES.

Certain particulars about the fishing industry in Victoria are given below :—

VICTORIA—FISHERIES: MEN AND BOATS EMPLOYED: QUANTITY AND VALUE OF PRODUCTION, 1953-54 TO 1957-58.

Year Ended 30th June—	Number of Men.	Boats Employed.		Value of Nets and Other Plant.	Production in Victoria.			
		Number.	Value.		Fish.		Crayfish.	
					Quantity.	Value.	Quantity.	Value.
			£		£	lb.	£	doz.
1954 ..	1,045	745	545,980	151,548	10,719,188	848,602	1,209,952	136,119
1955 ..	1,018	726	622,847	153,321	10,789,888	809,242	898,632	112,329
1956 ..	885	683	616,221	143,483	9,333,619	755,760	1,025,524	114,698
1957 ..	930	703	685,090	166,020	12,243,830	1,202,674	1,164,472	176,057
1958 ..	937	699	731,788	171,170	11,233,365	1,098,606	1,229,961	185,521

RABBITS, ETC.

Large quantities of frozen rabbits and hares and of rabbit and hare skins are exported from Victorian ports to overseas countries. The following table shows the quantities and value of frozen rabbits and hares and of rabbit and hare skins exported during each of the years 1955-56 to 1957-58 :—

VICTORIA—RABBITS AND HARES AND RABBIT AND HARE SKINS EXPORTED OVERSEA 1955-56 TO 1957-58.

Year Ended 30th June—	Frozen Rabbits and Hares.				Rabbit and Hare Skins.	
	Furred Carcasses.		Skinned Carcasses and Pieces.		Quantity.	Value.
	Quantity.	Value.	Quantity.	Value.		
	pairs.	£	lbs.	£	lbs.	£
1956 ..	50,358	32,783	13,154,894	1,338,782	2,343,348	1,170,344
1957 ..	44,951	26,682	18,250,580	1,862,756	1,844,919	721,138
1958 ..	95,100	49,157	22,486,193	2,136,018	2,697,104	623,925

MINES AND MINERALS.

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

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

Miners' Rights. The taking out of a "Miner's Right" entitles the holder to prospect for gold on Crown lands. The "Right" may be had for any number of years not exceeding fifteen on payment of a fee at the rate of 2s. 6d. per annum. The holder is entitled to take possession for mining purposes of a defined parcel of Crown lands which is called a "claim". "Claims" for gold mining 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 now incorporated in the *Land Act*, 1958. The number of Miners' Rights issued throughout Victoria in each of the years 1954, 1955, 1956, 1957, and 1958, were respectively 1,665, 1,425, 1,470, 2,005 and 1,923.

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 various rates of rents and royalties.

Mineral Search Licences. Mineral Search Licences are issued for metals (other than gold) and minerals on Crown land. Licences may also be issued over Crown or private land for uranium and thorium. The maximum area to be occupied under this type of licence is 6,400 acres for the minerals uranium or thorium, 640 acres for coal, 100 acres for iron, or 50 acres for other metals or minerals. The term of the licence is twelve months. The fee is £1 for an area not exceeding 160 acres, £1 5s. 0d. up to 320 acres, £2 10s. 0d. up to 640 acres, and £20 for a licence to search for uranium or thorium.

Petroleum Leases and Licences. Under the *Petroleum Act* 1958, Petroleum Mineral leases of not more than 100 square miles and Petroleum Prospecting Licences covering a maximum area of 200 square miles are granted at yearly rentals of £10 or 5s. per square mile respectively. Petroleum "Exploration Permits" were introduced in 1955.

Areas Occupied for Mining. The areas of Crown and of private lands occupied under the Mines Acts at 31st December, 1958, together with the area being worked for different minerals are shown in the following table :—

VICTORIA—AREAS OCCUPIED UNDER THE MINES ACTS
AT 31st DECEMBER 1958.*

Nature of Lease or Licence.	Year Ended 31st December, 1958.
	Acres.
Antimony and Gold	9
Basalt	207
Bauxite	331
Clay	335
Clay and Basalt	18
Clay and Kaolin	34
† Coal, Black	9,243
† Coal, Brown	3,577
Coal, Brown and Clay	376
Diatomaceous Earth	13
Felspar	10
Freestone	4
Gold	15,080
Granite	45
Gypsum	2,660
Iron	62
Iron Oxide	18
Kaolin	135
Kaolin and Gold	21
Limestone	248
Limonite and Gold	26
Machinery Sites	28
Manganese	29
Mineral Water	1
Molybdenite	29
Quartz Crystal	296
Sand	26
Silver and Lead	30
Silver, Lead and Fluorspar	22
Slate	23
Slate and Clay	40
Slate and Gold	106
Slate and Sandstone	27
Stone	51
Tailing licences	219
Tin	299
Water rights	250
Wolfram	76
Wolfram and Bismuth	57
Wolfram and Molybdenite	39
Wolfram and Tin	43
Mineral Search Licences—	
Radioactive Minerals and Uranium	8,420
Under Mines (Petroleum) Act—	
Petroleum Prospecting Licences and Petroleum Exploration Permits	14,205,440
Total	14,248,003

* Crown land and private land.

† Includes State Coal Mines Area, Wonthaggi 7,575 acres.

‡ Does not include State Electricity Commission Area, 2,800 acres.

It should be noted that certain gold mining leases include the right to mine for other minerals and in some cases mineral leases also provide for gold mining.

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 spent from this source up to 31st December, 1958, amounted to £134,397. Further moneys expended up to the same date under the Commonwealth *Gold Mining Encouragement Act* 1940 amounted to £11,778 and a special advance of £36,984 provided by the Government of Victoria.

VICTORIA—STATE EXPENDITURE AND REVENUE CONNECTED WITH MINING, 1953-54 TO 1957-58.

Item.	Expenditure from Consolidated Revenue.				
	Year Ended 30th June—				
	1954.	1955.	1956.	1957.	1958.
	£	£	£	£	£
EXPENDITURE.					
Mines Department	127,263	148,571	174,491	198,560	210,885
State Coal Mine	822,367	753,246	684,858	729,968	700,988
Boring for gold, coal, oil, &c. ..	16,998	42,822	69,970	99,479	149,544
State Batteries—Expenses of operation and maintenance, &c.	5,351	2,106	3,999	5,345	3,229
Geological and underground surveys of mines	5,159	5,348	6,468	6,500	6,483
Laboratory expenses, &c. ..	1,409	1,633	1,819	1,988	2,816
Miscellaneous	4,626	4,477	4,631	8,166	6,723
Total	983,173	958,203	946,236	1,050,006	1,080,668
REVENUE.					
State Coal Mine	751,191	651,804	680,929	496,208	472,100
All other	31,784	39,734	44,832	69,362	61,390
Total	782,975	691,538	725,761	565,570	533,490

VICTORIA—MINERAL PRODUCTION

Mineral Production. Mineral production as recorded by the Mines Department of Victoria is shown below:—

Metals and Minerals.	During 1958.		Total to 31st December, 1958.	
	Quantity.	Value.	Quantity.	Value.
	fine oz.	£	fine oz.	£
Precious Metals—				
Gold	41,476	648,063	73,614,739	335,615,797
Silver (a)	3,018	1,185	1,716,042	271,304
Minerals, &c.—	tons.	£	tons.	£
Antimony Ore	1½(b)	236	30½	3,935
Bauxite	4,054	15,948	62,609	126,977
Coal, black	107,864	515,640	21,853,622	23,921,224
Coal, brown	11,751,988	6,286,869	174,590,845	47,447,165
Diatomaceous Earth	1,111	6,797	9,308	154,875
Fireclay	28,205	20,761	(c)	..
Fluorspar .. ..	..	..	4,137	17,827
Gypsum	72,010	77,142	937,552	705,364
Kaolin and other white clays	491,793	315,056	(d)	..
Limestone	858,739	567,895	12,619,139	..
Limonite	758	4,890	(e)	(e)
Tin concentrates .. ..	..	..	18,915	1,468,089

Note.—Additional particulars of stone, sand, etc., raised, will be found on page 209.

(a) Silver extracted from Victorian gold lodged at the Royal Mint, Melbourne, amounted to 4,233 fine ounces valued at £1,680.

(b) Antimony content 1 ton.

(c) The statistical classification "Fireclay" was instituted in 1953.

(d) The statistical classification "Kaolin and other white clays" was instituted in 1953.

(e) Not available.

Total production to 31st December, 1958, has also included the following:—

	Quantity.	Value.
	Tons.	£
Antimony Concentrates	106,314	652,428
Barytes	69	270
Copper Ore	18,740	218,620
Iron Ore	5,461	12,552
Manganese Ore	422	2,009
Molybdenite	1,005	63,984
Phosphatic rock.. ..	15,781	16,704

	Quantity.	Value.
	Gallons.	£
Oil, crude	287,873	9,932
	Tons.	
Pigment clays	4,502	5,623
Lead oxide ex Jarosite	109	1,359
Silver lead Ore	804	5,992
Talc	82	410
Wolfram Concentrates	139	22,307

Platinum to the value of £1,671 (311oz.) was produced, while diamonds to the value of £128 and sapphires worth £630 were discovered.

**Gold
Production
in Victoria.**

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

GOLD PRODUCTION IN VICTORIA, 1851 TO 1958.

Period.	Quantity (Gross oz.).	Period.	Quantity (Fine oz.).
1851-60	23,334,263	1926-30	171,927
1861-70	16,276,566	1931-35	307,370
1871-80	10,156,297	1936-40	744,727
1881-90	7,103,438	1941-45	423,653
1891-1900	7,476,038	1946-50	376,534
1901-10*	7,095,061	1951-55	287,457
1911-15	2,161,349	1956	38,846
1916-20	905,561	1957	45,752
1921-25	421,250	1958	41,476

* Gross oz. 1851-1900; fine oz. from 1901 inclusive.

The gold yield which had continued to decline from 1906 reached its lowest in 1930 at 24,119 fine ounces. Since that year the highest yield recorded was in 1946 when 86,993 fine ounces were produced. The gold production in 1954 was the lowest recorded since 1932.

The price of gold in Australia in 1930 was £4 8s. 9d. per fine ounce (export parity calculated from London price). On the 19th September, 1949, consequent on the devaluation of the £ sterling the Australian Mint price which had been £10 15s. 3d. from 1946 inclusive, was increased to £15 9s. 10d. per fine ounce. This rate obtained until 1st May, 1954, when it was raised to £15 12s. 6d. Whereas previously the price was based on the price for which gold could be sold abroad in official markets less costs of movement, the current official rate reflects the "parity" value of Australian currency established by the International Monetary Agreement Act, 1947.

The number of men employed in gold mining in Victoria during each of the last five years is shown below :—

MEN EMPLOYED IN GOLD MINING.

Year.	Alluvial.	Quartz.	Total.
	No.	No.	No.
1954	163	391	554
1955	80	246	326
1956	62	320	382
1957	19	351	370
1958	14	284	298

The two main headings under which financial assistance is rendered to miners and companies are (a) loans to approved mining companies, syndicates or individual miners, and (b) subsidies paid to gold producers by the Commonwealth Government under the *Gold Mining Industry Assistance Act, 1954*. This latter Act, which came into operation on the 24th November, 1954, provides that for the two years ending 30th June, 1955, and 30th June, 1956 (later extended), small producers whose output is not more than 500 fine oz. per year may receive a subsidy of 30s. per fine oz., and larger producers whose production costs exceed £13 10s. Od. per fine oz. may be granted a subsidy equal to three-quarters of production cost per fine oz. less £13 10s. Od. up to a maximum of £2 per fine oz. Premiums received by producers from the sale of gold overseas by the Gold Producers' Association are offset against subsidy payments.

The yields in fine ounces in the other principal gold-producing States in 1957 were 849,751 in Western Australia, 63,363 in Queensland and 31,043 in New South Wales. The Northern Territory produced 73,970 fine ounces.

The total production of the Commonwealth in fine ounces was 1,645,697 in 1939, 869,537 in 1950, 895,551 in 1951, 980,435 in 1952, 1,075,181 in 1953, 1,117,742 in 1954, 1,049,039 in 1955, 1,029,821 in 1956, and 1,083,941 in 1957.

The total production of gold in the world in fine ounces (thousands) as shown in the Review for 1957, published by the Commonwealth Bureau of Mineral Resources, has been estimated as follows :— 1953, 24,200 ; 1954, 25,700 1955, 26,900 ; 1956, 28,000 ; and 1957, 29,300.

The foregoing estimates exclude the U.S.S.R. and satellite countries.

Government Batteries, Cyanidation and Dredging and Sluicing. Particulars of the operations of Government batteries, all cyanide works, and of dredging and sluicing plants for the years 1955 to 1958 are as follows :—

VICTORIA—GOVERNMENT BATTERIES, CYANIDATION, AND DREDGING AND SLUICING, 1955 TO 1958.

Year.	Government Batteries.			Cyanidation.			Dredging and Sluicing.		
	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.
1955 ..	4	143	81	8	13,805	764	10	1,369,235	5,567
1956 ..	5	87	50	6	10,785	476	6	1,258,651	6,433
1957 ..	5	138	103	7	11,861	523	8	401,458	1,652
1958 ..	6	187	216	5	11,150	569	2	7,000	86

Mining District Gold Yields.

The following table shows the yield of alluvial and quartz gold in fine ounces in the various mining districts :—

VICTORIA—DISTRICT YIELDS OF GOLD (ALLUVIAL AND QUARTZ), 1958.

Mining District.	Year 1958.		
	Quartz.	Alluvial.	Total.
	gross oz.	gross oz.	gross oz.
Ararat	6	..	6
Ballarat	2,121	..	2,121
Beechworth (North-east)	20,369	..	20,369
Bendigo	165	..	165
Castlemaine	23,191	86	23,277
Gippsland	783	..	783
Maryborough	1,068	..	1,068
Total	47,703	86	47,789*

* A yield of 41,476 fine ozs.

Coal. Bituminous coal was mined during 1958 at Jumbunna South, Kilcunda, Korumburra, Mirboo North, and Wonthaggi, and brown coal at Bacchus Marsh, Morwell, Thorpdale, Yan Yan Gurt (near Winchelsea), Yallourn and Yallourn North. The coal resources of Victoria have been described in detail in previous issues of the *Year-Book*.

Production of
Black Coal
Brown Coal
and Briquettes.

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

VICTORIA—COAL PRODUCTION AND VALUE.

Period.	Black Coal.		Brown Coal.		Briquettes.
	Annual Production.	Value.	Annual Production.	Value.	Annual Production.
	tons.	£	tons.	£	tons.
1921-25	520,705*	591,703	258,094*	61,558	77,945†
1926-30	668,177*	892,734	1,515,592*	192,612	135,185*
1931-35	472,030*	444,003	2,445,215*	256,261	311,020*
1936	426,725	390,743	3,044,897	323,914	355,088
1937	257,945	254,126	3,393,919	325,950	390,493
1938	307,258	286,679	3,675,450	351,721	414,059
1939	364,895	259,814	3,651,014	385,952	414,598
1940	267,694	230,452	4,278,475	391,549	427,530
1941	326,441	303,761	4,565,638	422,993	419,104
1942	312,854	411,107	4,933,861	469,699	416,928
1943	287,100	429,358	5,091,729	523,666	411,355
1944	257,692	407,793	5,016,437	566,444	428,844
1945	247,297	494,690	5,445,108	641,069	455,076
1946	191,290	397,662	5,707,039	706,504	504,275
1947	173,683	299,784	6,140,140	937,429	513,891
1948	167,540	347,687	6,692,291	1,187,715	542,189
1949	122,507	379,464	7,375,559	1,469,455	576,603
1950	126,431	382,230	7,327,119	1,706,612	526,781
1951	147,743	600,734	7,836,056	2,754,822	562,621
1952	143,820	753,007	8,103,764	3,476,627	554,249
1953	151,907	979,541	8,257,299	3,636,665	559,522
1954	141,318	901,413	9,331,255	3,945,031	614,145
1955	132,888	826,268	10,112,206	4,393,637	635,716
1956	118,827	677,031	10,559,801	4,624,537	619,035
1957	111,569	504,181	10,740,989	5,205,244	619,730
1958	107,864	515,640	11,751,988	6,286,869	646,907

* Average annual production.

† 1,392 tons in 1924, 76,553 tons in 1925.

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

MEN EMPLOYED IN COAL MINING.

Year.	Black Coal.		Brown Coal.	Total.
	No.	No.	No.	No.
1954	824	771	1,595	
1955	736	1,579	2,315	
1956	690	1,565	2,255	
1957	620	1,494	2,114	
1958	573	1,467	2,040	

The quantities of black 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.
1953	.. ..	14,173,831	2,516,812	448,484	886,182	233,629
1954	.. ..	15,083,260	2,760,810	495,106	1,018,343	264,202
1955	.. ..	14,736,397	2,747,165	455,287	903,792	299,221
1956	.. ..	14,810,165	2,734,659	481,463	830,006	298,713
1957	.. ..	15,390,236	2,701,577	608,913	838,661	268,140

Tin Production in Victoria.

With the depletion of the field at Eldorado, near Beechworth, tin mining ceased in 1955.

Mining Accidents.

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

VICTORIA—MINING ACCIDENTS, 1954 TO 1958.

Year.	Gold Mines.		Coal Mines.		Quarries.		
	Fatal Accidents.	Non-Fatal.	Fatal Accidents.	Non-Fatal.	Fatal Accidents.	Non-Fatal.	
	No.	No.	No.	No.	No.	No.	
1954	2	2	2	17	5	6
1955	3	2	11	6	10
1956	4	1	1	7	4	17
1957	6	..	5	9	9
1958	1	..	2	6	10

Quarries, etc. The recorded quantities and values of the principal kinds of stone raised in Victoria during the past four years are set out in the following table. This information is additional to that shown on page 203 under "Mineral Production."

VICTORIA—QUARRYING AND OTHER CONSTRUCTION MATERIALS. *

Year Ended 31st December—	Number of Returns.	Main Kinds of Stone Extracted—			Approximate Recorded Value* of Stone, Sand, etc. Raised.†
		Bluestone.	Sandstone.	Granite.	
		cub. yds.	cub. yds.	tons.	£
1954	137	2,338,758	77,885	205,290	3,299,490
1955	141	2,644,392	117,090	179,964	3,931,657
1956	142	3,240,699	113,250	215,609	4,738,013
1957	133	3,416,132	191,393	204,590	4,952,773

* Prior to 1952-53, total production of Limestone was shown in this table. The significant production of Limestone is now recorded on page 203 under "Mineral Production".

† Wholesale selling value of stone at works, exclusive of delivery charges.

Information in the foregoing table has been obtained from "regular" quarries which are known to have a fixed plant and which are in permanent production. It is realized that there is considerable quarry production unrecorded due mainly to contractors who, requiring material from a source adjacent to the work for which they are suppliers, open up quarries for that purpose or exploit stone outcrops, mine tailings &c. This work is usually only of a temporary nature.

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 SEARCH FOR OIL IN VICTORIA.

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

Oil production in Victoria ceased towards the end of 1951 when operations at Lakes Entrance were suspended. Crude oil yield from tests carried out aggregated 287,873 gallons during a period of approximately ten years. There was a revival of interest in potential oil-bearing areas in Victoria, late in 1953 following the discovery of oil in Western Australia, which resulted in the issue of 22 Petroleum Prospecting Licences during the year 1954. A great deal of preliminary exploration was carried out in Gippsland, and test drilling began in 1955 on two areas covered by these licences.