

PART X.

PRODUCTION.

LAND SETTLEMENT, ETC.

The total area of the State is 56,245,760 acres. On 31st December, 1938, this comprised:—

Total	938, this comprised:—			
Lands in process of alienation 5,277,346 Crown lands 23,565,243 Total 56,245,760 The Crown lands comprise— Permanent forests (under Forests Act) 4,121,582 Timber reserves (under Forests Act) 723,975 State Forests and Timber reserves (under Land Act) 330,027 Water reserves 313,295 Reserves for Agricultural Colleges, &c. 88,649 Reserves in the Mallee 410,000 Other reserves 475,308 Roads 1,794,218 Water frontages, beds of rivers, lakes, &c. unsold land in cities, towns, and boroughs 4,362,028 Land in occupation under— Perpetual leases 81,332 Other leases and licences 28,724 Temporary grazing licences 7,992,248 Unoccupied 2,843,857				Acres.
Crown lands 23,565,243 Total 56,245,760 The Crown lands comprise— Permanent forests (under Forests Act) 4,121,582 Timber reserves (under Forests Act) 723,975 State Forests and Timber reserves (under Land Act) 330,027 Water reserves 313,295 Reserves for Agricultural Colleges, &c. 88,649 Reserves in the Mallee 410,000 Other reserves 475,308 Roads 1,794,218 Water frontages, beds of rivers, lakes, &c. unsold land in cities, towns, and boroughs 4,362,028 Land in occupation under— Perpetual leases 81,332 Other leases and licences 28,724 Temporary grazing licences 7,992,248 Unoccupied 2,843,857	Lands alienated in fee-simple			27,403,171
Total	Lands in process of alienation			5,277,346
Permanent forests (under Forests Act)	Crown lands			23,565,243
Permanent forests (under Forests Act) 4,121,582 Timber reserves (under Forests Act) 723,975 State Forests and Timber reserves (under Land Act) 330,027 Water reserves 313,295 Reserves for Agricultural Colleges, &c. 88,649 Reserves in the Mallee 410,000 Other reserves 475,308 Roads 1,794,218 Water frontages, beds of rivers, lakes, &c. unsold land in cities, towns, and boroughs 4,362,028 Land in occupation under— Perpetual leases 81,332 Other leases and licences 28,724 Temporary grazing licences 7,992,248 Unoccupied 2,843,857	Total	••		56,245,760
Timber reserves (under Forests Act) 723,975 State Forests and Timber reserves (under Land Act) 330,027 Water reserves 313,295 Reserves for Agricultural Colleges, &c. 88,649 Reserves in the Mallee 410,000 Other reserves 475,308 Roads 1,794,218 Water frontages, beds of rivers, lakes, &c. unsold land in cities, towns, and boroughs 4,362,028 Land in occupation under— Perpetual leases 81,332 Other leases and licences 28,724 Temporary grazing licences 7,992,248 Unoccupied 2,843,857	The Crown lands comprise—			
State Forests and Timber reserves (under Land Act) 330,027 Water reserves 313,295 Reserves for Agricultural Colleges, &c. 88,649 Reserves in the Mallee 410,000 Other reserves 475,308 Roads 1,794,218 Water frontages, beds of rivers, lakes, &c. unsold land in cities, towns, and boroughs 4,362,028 Land in occupation under— Perpetual leases 81,332 Other leases and licences 28,724 Temporary grazing licences 7,992,248 Unoccupied 2,843,857	Permanent forests (under Forest	s Act)		4,121,582
Act) 330,027 Water reserves 313,295 Reserves for Agricultural Colleges, &c. 88,649 Reserves in the Mallee 410,000 Other reserves 475,308 Roads 1,794,218 Water frontages, beds of rivers, lakes, &c. unsold land in cities, towns, and boroughs 4,362,028 Land in occupation under— Perpetual leases 81,332 Other leases and licences 28,724 Temporary grazing licences 7,992,248 Unoccupied 2,843,857	Timber reserves (under Forests A	Act)		723,975
Act) 330,027 Water reserves 313,295 Reserves for Agricultural Colleges, &c. 88,649 Reserves in the Mallee 410,000 Other reserves 475,308 Roads 1,794,218 Water frontages, beds of rivers, lakes, &c. 4,362,028 Land in occupation under— Perpetual leases 81,332 Other leases and licences 28,724 Temporary grazing licences 7,992,248 Unoccupied 2,843,857	State Forests and Timber reserve	s (under	Land	
Reserves for Agricultural Colleges, &c. 88,649 Reserves in the Mallee 410,000 Other reserves 475,308 Roads 1,794,218 Water frontages, beds of rivers, lakes, &c. 4,362,028 Land in occupation under— Perpetual leases 81,332 Other leases and licences 28,724 Temporary grazing licences 7,992,248 Unoccupied 2,843,857				330,027
Reserves in the Mallee 410,000 Other reserves 475,308 Roads 1,794,218 Water frontages, beds of rivers, lakes, &c. unsold land in cities, towns, and boroughs 4,362,028 Land in occupation under— Perpetual leases 81,332 Other leases and licences 28,724 Temporary grazing licences 7,992,248 Unoccupied 2,843,857	Water reserves			313,295
Reserves in the Mallee 410,000 Other reserves 475,308 Roads 1,794,218 Water frontages, beds of rivers, lakes, &c. unsold land in cities, towns, and boroughs 4,362,028 Land in occupation under— Perpetual leases 81,332 Other leases and licences 28,724 Temporary grazing licences 7,992,248 Unoccupied 2,843,857	Reserves for Agricultural College	es, &c.		88,649
Roads 1,794,218 Water frontages, beds of rivers, lakes, &c. 4,362,028 Land in occupation under— 4,362,028 Perpetual leases 81,332 Other leases and licences 28,724 Temporary grazing licences 7,992,248 Unoccupied 2,843,857				410,000
Water frontages, beds of rivers, lakes, &c. unsold land in cities, towns, and boroughs 4,362,028 Land in occupation under— Perpetual leases 81,332 Other leases and licences 28,724 Temporary grazing licences 7,992,248 Unoccupied 2,843,857	Other reserves			475,308
unsold land in cities, towns, and boroughs . 4,362,028 Land in occupation under— Perpetual leases	Roads			1,794,218
Perpetual leases 81,332 Other leases and licences 28,724 Temporary grazing licences 7,992,248 Unoccupied 2,843,857				4,362,028
Other leases and licences	Land in occupation under—			
Temporary grazing licences 7,992,248 Unoccupied 2,843,857	Perpetual leases			81,332
Unoccupied 2,843,857	Other leases and licences			28,724
	Temporary grazing licences			7,992,248
Total 23,565,245	Unoccupied		•••	2,843,857
	Total			23,565,243

Allenation of lands sold absolutely and conditionally, and the area of lands alienated in fee-simple during the last six years.

A portion of the area conditionally sold reverts to the Crown each year in consequence of the non-fulfilment of conditions by the selectors. The lands alienated each year include areas selected in previous years.

VICTORIA—ALIENATION OF CROWN LANDS, 1933 TO 1938.

		Area o	f Crown Lands S	Crown Lands al		
Yea	r.	Absolutely, at Auction, &c.	Conditionally to Selectors.	Total.	Area.	Purchase Money.
		Acres.	Acres.	Acres.	Acres.	£
1933		3,907	57,111	61,018	69,357	73,580
1934		4,661	68,726	73,387	143,851	119,219
1935	•••	4,545	44,324	48,869	288,443	199,339
1936		5,290	34,440	39,730	108,011	88,937
1937	•••	5,472	51,636	57,108	115,572	153,350
1938	• •	7,882	64,003	71,885	231,318	214,420

Amount realized by the sale of Crown sale of the amount realized by the sale of Crown lands was £36,528,877. Payment of a considerable portion of this amount extended over a series of years without interest, upon very easy terms.

Lands The next table shows the whole of the unalienated disposal. The Crown remaining for disposal:—

VICTORIA—CROWN LANDS REMAINING FOR DISPOSAL ON 31st DECEMBER, 1938.

		Classification.								
Location.		Agricu	Auri-	Total.						
	First.	Second.	Third.	Fourth.	Pastoral.	ferous.				
County.	Acres.	Acres.	Acres.	Acres.	Acres	Acres.	Acres.			
Anglesey	69	2,550	63,730	1,235		2,000	69,584			
	7,492	40,869	53,626				101,987			
Bogong		9,752	186,347	5,000	170,700	83,747	455,540			
	87		259,030	2,778	243,600	87,890	593,385			
Bourke	12	96	25			!	133			
	76	452	3,076			3,073	6,677			
Borung		342	40,315			2,985	43,642			
	2,125	1,487	542,748	25,900	772,910	13,800	1,358,970			
			96,970		431,160	70,000	598,130			
	165	14,094	80,810	9,989	130,600	60,000	295,658			
Dalhousie	20	499	1,202			443	2,164			
Dundas			62,859	4,700	15,754		83,313			
Evelyn	19	235	10,111			1,521	11,880			
Follett			114,250	2,530	29,136		145,916			
Gladstone	591	1,224	2,171	2,508		8,715	15,209			
	40	276	2,768			6,524	9,608			
	33	1,037	295			5,125	6,490			
		935	120,792				121,727			
	106	181	1,738			2,756	4,781			
Karkarooc		39					39			
		654	130,684	22,475			162,813			
	500		5,089	712		1,200	7,501			
	33	855	11,870				12,758			
Normanby			99,759				99,759			
Polwarth	12,610	14,550	22,626				49,786 $2,220$			
	180	180	1			1,860	25,516			
	20	400	22,746			2,350	573,899			
l'ambo			201,999		371,000	900	530,03			
Fanjil			101,632		361,400	67,000	21.91			
	117	1,112	146			20,541	30			
	235	70					1,28			
Villiers			1,285		846,400	::	994,250			
Wonnangatta			147,850		846,400					
Total	24,530	91,889	2,388,549	77,827	3,381,660	442,430	6,406,886			
Throughout the Sta	ite Swamp	or reclain	ned lands . 7 be sold b lable for se				2,96			
,, ,,	Lands v	vhich may	be sold b	y auction			5,329			
The "north-wester	n Mallee 1	ands avai	lable for se	election .			30,110			
portion of th State	ie } Mallee	lands (su led for se	.ch as are	suitable	to be ev	entually 	4,390,80			
Total and	a remaining	c	sal .				10,836,10			

Temporary occupancy of much of the land included in the above statement has been granted to approved applicants under grazing licences.

Transfer of Land Act.

The "Torrens System", whereby persons acquiring possession of land may receive a clear title, was introduced into Victoria in 1862. The system has been the means of simplifying procedure in connexion with the transfer of land

and thereby reducing the cost of dealing in real estate. It gives a title to the transferee free of any latent defect and the Crown grant issues through the Titles Office. In order to bring under the Transfer of Land Act land that was parted with prior to 1862 (5,142,321 acres), application must be made accompanied by strict proofs of the applicant's

interest in the property.

During 1938 there were submitted 240 such applications in respect of land amounting in area to 11,327 acres, and in value to £345,143; while the land actually brought under the Act as a result of such applications was 9,408 acres valued at £352,403. Up to the end of 1938 there had been brought under the Act 3,270,809 acres valued at £73,040,414. The area of the land still under the Old Law System at the end of 1938 was 1,871,512 acres. A summary of dealings under the Transfer of Land Acts will be found on page 216.

In granting an application to have land brought under the Transfer of Land Act 1928, the Commissioner of Titles Fund. is required to issue a perfect Title save as to any circumstances of which he has had notice. To assure and indemnify the Government in a case where the Supreme Court or some higher Tribunal has decided that some person other than the applicant has an interest in the property, and it has consequently been found necessary to compensate such other person, there has been constituted an Assurance Fund which is built up of contributions of 1d in the £ on the value of the land covered by the application. During 1938-39 receipts of the Fund comprised contributions £2,420, and interest on stock £3,269. No claims were made on the Fund during the year, but the sum of £5,095 was paid out in accordance with section 3 of the Special Funds Act 1920 to provide for the interest on loan moneys expended on University buildings. The balance at the credit of the Assurance Fund on 30th June, 1939, was £115,216. The amount paid up to 30th June, 1939, as compensation and for judgments recovered, including costs, was £10,286.

CLOSER SETTLEMENT AND DISCHARGED SOLDIERS' SETTLEMENT.

The first estate acquired for closer settlement in Victoria was purchased in 1900 under authority of the Land Act 1898 which empowered the Government to purchase by agreement private lands for this purpose. Under this Act five estates totalling 33,660 acres were acquired. In 1904, a Closer Settlement Act was passed and a Board appointed to administer it, with authority to acquire land by agreement, or, where necessary, compulsorily.

In 1906 the State Rivers and Water Supply Commission established under the Water Act 1905, came into operation, and in 1909 closer settlement in irrigation areas commenced. Administration of these areas was placed under the direct control of the Water Supply

Commissioners by the Closer Settlement Act 1912.

Up to 30th June, 1917, the area acquired totalled 571,156 acres and the area settled, 507,500 acres. In that year the first Discharged Soldiers' Settlement Act was passed and thereafter the settlement of discharged soldiers which commenced on 14th August, 1917, was given precedence by the Government. At 30th June, 1932, the net area acquired for soldier settlement was 2,270,333 acres (2,179,091 acres settled), and for civilian settlers 1,094,415 acres (1,058,360 acres settled). Thus, of the land acquired for closer and soldier settlement, 84 per cent. has been settled since 1917.

unstable conditions subsequent to 1917 proved most unfavorable to successful settlement, and the consequent loss to the settlers and to the State has been severe. Measures which were taken to improve conditions of the soldier settlers include the appointment by the Victorian Government of a Royal Commission in 1925, the establishment of inquiry boards in 1926 and 1927, and the appointment by the Commonwealth Government of Mr. Justice Pike in 1927 to inquire into soldier settlement in all the States. Finally, in 1932, an Act of the Victorian Parliament was passed giving effect to recommendations made for the relief of settlers. This amending Act, "The Closer Settlement Act 1932, No. 4091," was assented to on 29th December, Under its provisions a Closer Settlement Commission of five members superseded the Closer Settlement Board, and assumed the powers and obligations of the State Rivers and Water Supply Commissioners in respect of the settlement and occupation of irrigable lands. Provision was made for the consolidation into one debt of the liabilities of each settler at 30th June, 1932. The unpaid balance on account of land improvements and all arrears of interest were thereby brought together into one account. The Commission was further empowered to adjust, during the period of five years commencing on 1st July, 1932, the annual payment due by the settlers on account of the consolidated debt. In making any adjustment the Commission was required to take into consideration (a) ruling prices for farm products, (b) seasonal conditions, (c) requirements for maintenance of the settler and his family, (d) the means and ability of the settler to make any adjusted payment, (e) efforts made by the settler to meet his liability, and (f) any other factors which in the opinion of the Commission were proper to be considered. The reductions made under these provisions amounted to £923,848 or 43.9 per cent. of the total instalments due in 1932-33, £979,047 or 52.5 per cent. in 1933-34, £914,344 or 56.8 per cent. in 1934-35, £748,903 or 47.8 per cent. in 1935-36 and £714,582 or 45.5 per cent, in 1936-37—a total benefit to the settlers over the five-year period of £4,280,724.

At the end of the period of five years aforementioned, provision was made for the assessment by the Commission of the liabilities of settlers on account of land and advances, and for the writing off of the difference between the amount of the revaluation of the land and improvements and the sum of the capital value at which the land was

sold and the amount of unpaid advances for improvements and arrears of interest. Discretionary power to reduce the amount to be written off was given to the Commission if it were satisfied that the value of the land and improvements had been adversely affected by the failure of the settler to work the land or to maintain the improvements in a proper manner. To enable the revaluation of holdings and the readjustment of settlers' liabilities to be completed in accordance with the findings of the Commission, its term of office was extended to 31st August, 1938.

From the inception of Closer Settlement (in 1904) and of Soldier Settlement (in 1917) to 30th June, 1938, the approximate total cost of such settlement was £70,000,000. Concessions given to settlers, bad debts written off, adjustment of settlers' annual payments and revaluations of holdings &c. have resulted in a loss to the State of

£31,408,357, the details of which are given hereunder.

VICTORIA—CLOSER AND SOLDIER SETTLEMENT. FINANCIAL POSITION AFTER ADJUSTMENT OF DEBTS.

	Discharged Soldiers' Settlement.	Closer Settlement.	Total.
	£	£	£
Expenditure by State— Loan proceeds	25,983,086	13,700,396	39,683,482
Interest on loans, &c	17,642,199 2,306,044	8,583,913 1,269,297	$26,226,112 \\ 3,575,341$
Total	45,931,329	23,553,606	69,484,935
Payments by settlers and others Value of remaining assets (after allowing	13,275,840	10,516,737	23,792,577
for sundry creditors) Loss (as per analysis hereunder)	10,944,025 21,711,464	3,339,976 9,696,893	14,284,001 31,408,357
Total	45,931,329	23,553,606	69,484,935
Analysis of Loss. 1. Concessions to Discharged Soldiers 2. Reduction in valuation of land and im-	4,033,889	₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩ ₩	4,033,889
provements (under earlier Acts) 3. Adjustment of annual instalments	247,180	200,532	447,712
(section 31, Act 4091) 4. Adjustment of Debts—Farmers Debts	2,734,752	1,545,820	4,280,572
Adjustment Act and section 32, Act	6,338,999	3,712,619	10,051,618
5. Bad debts, &c	4,077,791	2,878,338	6,956,129
6. Depreciation and miscellaneous losses (including loss on land account)	1,972,809	427,101	2,399,910
7. Costs of administration not charged to settlers	2,306,044	932,483	3,238,527
Total	21,711,464	9,696,893	31,408,357

Dissolution of the Closer Settlement Act 1938 which was passed in December, 1938, provided that the Closer Settlement Commission be dissolved and cease to exist, that the Board of Land and Works be deemed to be the successor in law of the Commission and that the Act be administered in the Department of Crown Lands and Survey.

Statements of the activities of the Commission appear in previous issues of the Year-Book.

WATERWORKS.

All Victorian waterworks are controlled by official bodies, either State or local. The following table shows State expenditure on works under the control of the State Rivers and Water Supply Commission, as well as grants and loans to local bodies. In addition to free grants to local bodies, large sums have been written off their liabilities. The following information has been taken from the Annual Report of the State Rivers and Water Supply Commission.

VICTORIA—STATE EXPENDITURE AND LOAN LIABILITY ON WATERWORKS* TO 30TH JUNE, 1939.

Description of Works.	Capital Expenditure to 30th June, 1939.	Loan Redemption Paid.	Loan Liability at 30th June, 1939.
	£	£	£
Free Headworks	1,226,812	491	1,226,321
Capital Works and Charges not apportionable to Districts	1,625,171	319,953	1,305,218
Headworks Costs apportioned to Districts	10,397,069	63,429	10,333,640
Irrigation and Water Supply Districts (exclusive of Headworks Costs)	5,511,762	78,015	5,433,747
Urban Divisions of Irrigation Districts	63,266	1,240	62,026
Waterworks Districts (exclusive of Headworks Costs)	2,761,132	44,269	2,716,863
Urban Districts of Waterworks Districts (exclusive of Headworks Costs)	2,261,919	24,280	2,237,639
Flood Protection and Drainage Districts	375,905	5,611	370,294
Waterworks Trusts and Local Governing Bodies	3,793,702	627,153	3,166,549
Тотаг	28,016,738	1,164,441	26,852,297†

^{*} Excluding Melbourne and Metropolitan Board of Works, Geelong Waterworks and Sewerage Trust, and the Ballarat Water Commission, particulars of which appear in part 'Local Government' of this issue.

[†] The net loan liability of the State after deducting the amount in the National Debt Sinking Fund (£1,243,147) was £25,609,150.

IRRIGATION AND WATER SUPPLY DEVELOPMENT.

Progress of Irrigation.

Was in the hands of various Irrigation Trusts, which were financed by the State. These Trusts drifted into financial difficulties and the State was compelled to assume control.

In the year mentioned, by the authority of Parliament, the State Rivers and Water Supply Commission was constituted and entrusted with the management of all irrigation works, except those controlled by the First Mildura Trust. This authority is embodied in the Water Act 1928—which consolidates the Water Acts of 1915, 1916, and 1918, and the Ballarat Water Commissioners Act 1921.

The particulars in the following statement, while not covering the whole of the activities of the State Rivers and Water Supply Commission, furnish a general idea of the development of water conservation and distribution, and of drainage and flood protection in districts under its administration:—

VICTORIA—WATER CONSERVATION AND DISTRIBUTION: DRAINAGE AND FLOOD PROTECTION DISTRICTS.

	At 30th June, 1907.	At 30th June, 1939.
Area of State artificially supplied with water (acres) Capacity of reservoirs (acre feet)	10,800,000 474,000	15,083,000 1,950,960
Irrigation Districts— Number of Districts administered Number of Districts having Water Rights Total of such Water Rights (acre feet) Area under Irrigated Culture (acres) Valuation for Rating purposes (£)	16 Nil Nil 108,000 196;000	32 27 457,853 515,357 857,922
Rural Waterworks Districts (Domestic and Stock Supply)— Number of Districts administered Valuation for Rating purposes (£)	3 1 25, 000	27 1,563,574
$\begin{array}{c} \textbf{Urban Districts}\\ \textbf{Number of Districts administered} \dots \\ \textbf{Valuation for Rating purposes} \dots \\ \textbf{(£)} \end{array}$	1 5,600	$88 \\ 647,554$
Coliban System (Urban, Rural, Irrigation and Mining Supplies)— Valuation for Urban Rating purposes (£)	At 30th June, 1910. 317,750	398,923
Flood Protection Districts— Number of Districts administered	••	4
Drainage Districts— Number of Districts administered Valuation for Rating purposes (£)	••	11 361,283

PROGRESS IN IRRIGATION DEVELOPMENT.

The area under irrigated culture for all kinds of crops has increased from 129,771 acres in 1909–10 to 515,357 acres in 1938–39. The latter area exceeds the average for the previous five years by 8,492 acres.

VICTORIA-LANDS UNDER IRRIGATED CULTURE 1938-39.

						Acres.
Katandra						4,891
North Shepparton		••				10,484
Shepparton		• •				14,069
South Shepparton						5,043
Rodney		• •				$63,\!174$
stanhope		• •	• •			12,200
ongala	• •		• •			20,797
Rochester		• •	••			48,265
Echuca North						5,049
Dingee	• •	• •	••	• •		3,964
Jalivil	• •	••	• •	• •	::	10,466
Tragowel Plains	• •	••	• •	• • • •		41,334
Deakin	• •	• •	• •	• •		4,902
Boort	• •	• •	••	• •		15,929
eitchville	• •	••	• •	• •		7,225
Cohuna	••	• •	• •	• •		41,367
Koondrook	• •	• •	• •	• •		25,695
Swan Hill	• •	• •	• •	• •	•••	26,664
Chird Lake	• •	• •	• •	• •	• • •	2,855
Mystic Park	• •	• •	• •	• •	•••	$\frac{2,000}{4,173}$
resco	• •	• •	• •	• •	••	1,139
	• •	• •	• •	• •	• •	2,574
7	•. •	• •	• •	• •	•••	34,545
\	• •	• •.	• •	• •	• •	692
Ory Lake Kerang North-West	Tabaa		• •	• •	• •	3,450
Nyah	Lakes	• •	• •	••	••	2,987
ച്ച വാത	• •	• •	• •	: •		11,382
or i	• •	• •	• •	• •	• •	7,925
	• •	• •	• •	• •	• •	7,925 558
Campaspe Western Wimmera		• •	• •	• •		2,420
	• •	• •	• •	• •	• • •	125
Wimmera United	• •	• •	• •	• •	•••	1,221
Bacchus Marsh	• •	• •	• •	• •	• •	7,221
Werribee	• •	• •	• •	• •	• •	7,207
Maffra-Sale		. : :	• •		• •	24,259
Lands outside cons	tituted D	istricts	• •	• •	• •	46,327
	Total				[515,357

The subjoined table shows the total extent of irrigated land in the State in 1909-10 and in each of the five years, 1934-35 to 1938-39, and the purposes for which the land was utilized.

VICTORIA—IRRIGATED AREAS: HOW UTILIZED.

Crop.		1909-10.	1934-35.	1935-36.	1936 - 37.	1937-38.	1938-39
		acres.	acres.	acres.	acres.	acres.	acres.
Cereals		23,715	63,225	39,835	38,328	65,466	84,379
Lucerne		24,124	95,702	91,267	86,568	87,655	76,148
Sorghum and of annual fodders	her	8,094	25,6 05	20,776	19,753	26,548	26,942
Pastures	٠,٠	50,541	220,483	252,345	292,001	326,518	251,629
Vineyards and orcha	ards	17,524	66,960	67,319	66,526	66,417	65,137
Fallow	• -	4,988	6,732	6,275	8,093	7,342	5,126
Miscellaneous	•	785	15,519	18,018	7,558	10,166	5,996
Total		129,771	494,226	495,835	518,827	590,112	515,357

NOTE.—8,000 acres, details of which are not available, were irrigated by private diversions in 1909-10, making a total area for that year of 137,771 acres.

Of the total area irrigated in 1938-39—515,357 acres—the percentages devoted to different purposes were as follow:—Pastures, 49; lucerne, 15; vineyards, orchards, and gardens, 13; cereals, 16; sorghum and other annual fodder crops, 5; fallows and miscellaneous, 2.

Progress in Irrigation Areas, 1938-39. Dairying is one of the principal industries in irrigation districts. Dairy herds grazed on irrigated pastures obtained prominent positions in the 1937-38 Standard Herd Test conducted by the Department of Agriculture.

The production of dried vine and tree fruits, of citrus, and of fruits for canning are established features in these districts. There has also been considerable expansion in market gardening and a development of the canning industry in relation thereto. The Victorian dried vine-fruit crop amounted to 43,960 tons. The production of citrus fruits in irrigation districts during the 1938–39 season amounted to 781,000 bushels—approximately 90 per cent. of the citrus production of the State.

The Victorian production of canned fruit in the season 1938-39 was approximately 1,919,800 cases, which was 71 per cent. of the Australian output in that season.

Extensive schemes for the supply of water for domestic water for domestic and and stock purposes are under the control of the State stock purposes. Rivers and Water Supply Commission. Altogether, the area so supplied is approximately 23,567 square miles—about 27 per cent. of the total area of the State. The major portion of the area supplied is in the Mallee and Wimmera districts.

The number of country centres supplied with water for domestic use is—119 by the Commission, 113 by Waterworks Trusts, and 16 by Local Government bodies.

The estimated population in country centres supplied with water is 440,000 persons.

STORAGE AND SUPPLY SCHEMES

In 1902 the total capacity of storages in the State was 172,000 acre feet. The present capacity is 1,950,960 acre feet. The Hume Reservoir, designed to contain 2,000,000 acre feet (half of which can, subject to the provisions of the River Murray Agreement, be credited to the State of Victoria) now has a capacity of 1,250,000 acre feet. When the final stage of this work has been constructed (involving a further approval of the interested State Governments), and the Yarrawonga Weir, the Glenmaggie, and other Reservoirs are completed, the combined storage capacity available to users in Victoria will be 2,390,100 acre feet.

EXISTING STORAGES. Goulburn System— Capacities in A	Acre
Feet.	
Goulburn Weir 20,700	
Waranga	
Eildon 306,000	
Murray-Loddon System—	360,100
Hume Reservoir (part of 2,000,000 acre feet—half share) 625,000	
Yarrawonga Weir (half share of 100,000 acre feet) 50,000	
Torrumbarry (half share of 26,000 acre feet) 13.000	
Mildura (half share of 34,000 acre feet)	
Wentworth (half share of 20,000 acre feet) 10,000	
Euston Lock Weir (half share of 24,000 acre feet) 12,000	
Kow Swamp 40,860	
Laanecoorie 6,650	
Kerang North-west Lakes 69,400	
Lake Boga	
21,000	373,560
Wimmera-Mallee System—	<i>f</i> 1
Fyans Lake 17,100	
Lake Lonsdale	
Wartook	
Taylors Lake 30,000	
Pine Lake 52,000	
Green Lake 6,600	
Dock Lake 4,800	
Moora 5,100	
Lower Wimmera Weirs 2,870	
Batyo Catyo (Avon Regulator) 5,000	
Lake Whitton 1,300	
Earthen Storages, Township Reservoirs, and Mallee Tanks 6,320	
	08,190
Maffra-Sale System—	
Glenmaggie Reservoir (part of 150,000 acre feet)]	04,500
Coliban System—	
Upper Coliban	
Malmsbury (enlargement to 14,400 acre feet in progress) 12,300	
Spring Gully	
Subsidiary Passarrains	
	44,600
Werribee System—	,000
Pykes Creek 21,000	
Melton	
· · · · · · · · · · · · · · · · · · ·	40,100

Existing Storages-continued.

						Capacities Feet	
Bellarine Peninsula	System—						
Wurdee Boluc						10,000	
Service Basins						. 760	
SOLVICE DUSING	• •	• •			-		10,760
Mornington Peninsul	a Systen	ı—					
Lysterfield					·	3,400	
Beaconsfield, Fran	kston, a	nd M	[ornington		• •	1,660	
Service Basins			• •	• •		200	5,260
							5,200
Otway System—							1 000
Service Reservoirs							1,080
Miscellaneous-							
Eppalock						1,200	
Wonthaggi						1,550	
Wonthaggi Service	Basins					10	
Newstead						30	
Stratford Service	Basins			• •		20	2.010
							2,810
Tota	Lannesi	T of	existing St	orages			1,950,960
LUta	r capaci	<i>y</i> 01	CAISUING OF	Oragos			-,
Additional	Storage	BEI (ng Provide Construction	ED BY V ON.	Vorks 1	n Course	OF
Coliban System—							
Malmsbury Enlar	gement		• • •			2,100	
Lauriston						16,000	
Mornington Peninsu	.1 04.						
	na sysie	m					
Bittern Reservoir	-	m				480	
Bittern Reservoir Service Basin	-	m	••			480 60	
	-	<i>m</i>	•••	• ••			18,640
Service Basin	 HER STO	 RAGI	 which colon or Exis			60	18,64 0
Service Basin Furt	 HER STO COMI	 RAGI	 which colon of Exis			60	18,640
Service Basin Furt Maffra-Sale System	HER STO	ORAGI	on of Exis	TING W	orks.	DED BY	18,640
Service Basin Furt	HER STO	ORAGI	on of Exis	TING W	orks.	60	18,640
Service Basin FURT Maffra-Sale System Glenmaggie Reser Murray System—	нек Ste Comi — rvoir (ba	oragi PLETI Jance	on of Exis	TING W	orks.	DED BY	18,640
Service Basin FURT Maffra-Sale System Glenmaggie Reser Murray System—	нек Ste Comi — rvoir (ba	oragi PLETI Jance	on of Exis	TING W	orks.	DED BY	18,640
Service Basin Furt Maffra-Sale System Glenmaggie Reser	нек Ste Comi — rvoir (ba	oragi PLETI Jance	on of Exis	TING W	orks.	60 DED BY 45,500	18,640 420,500
Service Basin FURT Maffra-Sale System Glenmaggie Reser Murray System— Hume Reservoir, share of balance	HER STO COME TVOIR (ba at junce of 2,0	etion	on of Exis of 150,000 with Mitts 00 acre feet	acre fo	r (half	60 DED BY 45,500 375,000	420,500
Service Basin FURT Maffra-Sale System Glenmaggie Reser Murray System— Hume Reservoir, share of balance	HER STO COME TVOIR (ba at junce of 2,0	etion	on of Exis	acre fo	r (half	60 DED BY 45,500 375,000	

Detailed descriptions of the various systems which have been instituted for irrigation and for supplying water for domestic and stock purposes appear in the *Year-Book* for 1928–29 (pp. 526 to 534).

METEOROLOGY.

Particulars in regard to climate and weather conditions

Meteorological have been furnished by the Commonwealth Meteorologist, and are given in the following tables. In the first are shown the rainfall for each district and for the whole State for each of the years 1901 to 1939, together with the mean rainfall covering a period of 69 years.

VICTORIA—RAINFALL—YEARLY RECORDS AND AVERAGES.

				Dist	ricts.				Whole
Year.	Mallee.	Wim- mera.	North- ern.	North- Central.	North- Eastern.	Western.	Central.	Gipps- land.	State.
		1				!	1		i
	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches.	Inches
1901	9:39	16.61	13.58	24.78	28.08	27.90	28.98	33.66	22.05
1902	7.64	11.94	11.26	18.41	20:10	23.54	24.88	33.35	18.55
1903	16.34	22.76	$22 \cdot 22$	32.07	33.13	33.43	32.86	33.68	27.44
1904	10.75	17.22	17.32	28.00	33.56	28.54	31.29	30.02	23 49
1905	12.01	18:40	16.39	25.36	31.72	28.79	29.61	37.84	24.53
1906	15.22	23.42	24 16	32.00	42.11	32.53	30 13	34.81	28.49
1907	9 · 25	17.07	14.74	22.42	26.19	26.16	25.36	$27 \cdot 20$	20.49
1908	12.33	17.72	14.38	19.98	26.40	25.81	20.08	24 29	
1909	14.35	22.38	20.04	29.77	35.62	$\frac{23}{31 \cdot 37}$			20.02
1910	15.96	22.36	20.13	29 113			30.57	34.09	26.52
1911	17.84	19.89	19.87	29 13	32.10	32.45	28.28	30.80	25.96
1912	12.50	17.52			33.24	31 13	36.88	39.71	28.08
			18.12	23.00	30.93	25.94	24.92	26.60	21.86
	12.66	16.38	16.76	24.22	29.69	25.85	27.64	34.65	22.96
1914	7:29	9.76	9.73	14.95	19.94	18.56	20.02	23.81	14.66
1915	12.42	18.98	16.75	25 65	34.17	27.44	24 67	27.63	$22 \cdot 35$
1916	17.72	22.54	25.60	34.44	44.01	30.72	38.78	$37 \cdot 78$	30.27
1917	19.55	21.96	$26 \cdot 34$	35.86	56.09	31.70	32.41	34.63	30.77
1918	13 59	16.44	21.96	28:30	36.96	25 · 70	30.11	33 · 39	24 · 70
1919	11.46	13.86	15.06	21.21	27.27	26.47	25 48	37.03	22.77
1920	14.93	16.04	20.15	28:37	34.42	25.99	31.38	33.37	25 · 43
1921	16.29	19.99	23.69	31.75	39.57	27.36	31.13	31.73	25:35
1922	10.44	17.15	$13 \cdot 15$	20.85	26.10	28.09	27.82	32.92	21.35
$1923 \dots$	15.07	20.21	17.60	27:30	34 80	33.51	30.11	33.88	26.12
924	16.08	22.17	$23 \cdot 29$	34.74	40.70	31 · 13	40.30	37.37	28.10
(925	9.87	14.20	14.09	20.28	27.42	22 · 43	23.12	29 · 69	19.74
926	12.64	17:00	16.85	24.25	35.36	26.70	24.20	29 - 72	22.90
1927	7.66	13.93	11.14	18.67	26.15	23.20	22.16	28 43	18.56
928	14.04	19.10	21.27	29.56	37.21	30.46	29.86	33.98	26 14
929	9.10	15.56	13 65	24.20	27.24	29.28	31.13	32.36	22.00
930	15.32	20.94	19.68	30.59	32.49	29 43	30.85	33.66	25 . 76
931	14.86	19.25	$\frac{13}{21} \cdot 77$	31.20	43.18	28.79	32.88	32.65	26.97
932	14.96	18.90	20.60	29.63	34.33	31.85	32.91		26.34
933	14.13	20.96	20.25	31.09	32.09	26.87	27.56	34.19	
934	13.21	16.64	21.01		42.81			30.65	24.47
	10.84	17.71	19:53	28.57 29.14		29 20	35.60	43:39	27:60
					35.86	30.49	34.23	42.53	26.63
	14·39 12·69	19·41 17·19	19:50	28.47	35.52	26.91	30.24	36.38	25.63
	6.30	17.19	13.70	20.08	26 25	26.39	25.20	28 '33	21.02
			8.66	15.62	20.49	22.63	20.47	26:39	16.28
1939	15.32	20.33	27 • 72	37.83	53.05	32.94	38.10	38 • 16	31 · 37
Means				.				ĺ	
for 69							1		
years	13.25	18.47	18.65	27 · 11	33.63	28 • 23	29.81	34.48	24 • 72

The wettest portion of the State is the Cape Otway Forest, which is closely followed by the South Gippsland district and the Latrobe and Thomson Basin. The lowest rainfall occurs in the Mallee district, where the average is 13.25 inches per annum, as compared with 24.72 inches for the whole State.

The averages of the climatic elements for the seasons in Melbourne deduced from all available official records are given below.

AVERAGES OF CLIMATIC ELEMENTS IN MELBOURNE.

Meteorological Elements.	Spring.	Summer.	Autumn.	Winter.
Mean pressure of air in inches	29.973	29.921	30.079	30.079
Monthly range of pressure of air—Inches	.886	763	.813	975
Mean temperature of air in shade—°Fahr.	57.8	66.6	59.4	50 ·0
Mean daily range of temperature of air in shade—°Fahr	18.7	21.0	17.4	14.0
Mean relative humidity. Saturation=100	65	60	69	75.
Mean rainfall in inches	7.20	5.97	6.55	5.83
Mean number of days of rain	38	25	34	43
Mean amount of spontaneous evaporation in inches	10.25	17.18	7.93	3 · 72
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	6.0	5.2	5.9	6.4
Mean number of days of fog	1	1	7	12

In the subjoined statement are shown the yearly averages of the climatic elements in Melbourne for 1938 and for the last 83 years, as well as the extremes between which the yearly average values of such elements have oscillated in the latter period.

YEARLY AVERAGES AND EXTREMES OF CLIMATIC ELEMENTS IN MELBOURNE.

	Ye	early Averag	es and Extre	mes.	
Meteorological Elements	Year 1938.	Average for 83 Years,	Extremes between which the Yearly Average Values have oscillated in 83 years.		
		os rears,	Highest.	Lowest.	
Mean atmospheric pressure (inches)	30.007	30.013	30 · 106	29.945	
Highest ", ", ", ",	30.700	30.607	30.770		
Lowest ", ", ",	29 · 129	29 · 252	29.495	30.488	
Range (inches)"	1.571	1.357	1.719	28.942	
Mean temperature of air in shade	1 911	1 997	1.419	1.074	
(°Fahr.)	59.5	58:5	59 9	== 0	
Mean daily maximum (°Fahr.)	69 4	$67 \cdot 4$	69 4	57.3	
Mean daily minimum	49.6	49.6	51.2	$\begin{array}{c} 65 \cdot 4 \\ 47 \cdot 2 \end{array}$	
Absolute maximum	103.0	104.9	$\frac{31\cdot 2}{111\cdot 2}$		
Absolute minimum	29.5	31.0	34.2	96.6	
Mean daily range	19.7	$\frac{31}{17.8}$	20.4	27.0	
Absolute annual range	73.5	$\frac{17.8}{73.9}$		15.0	
Solar Radiation (mean maxima) ,,	106.9	117.0	82.6	66.0	
Terrestrial Radiation (mean	100 9	117.0	127.6	105.6	
minima) (°Fahr.)	43.9	49.0	40.0	00 -	
Rainfall (in inches)	17·63	43.9	46.8	39.5	
Number of wet days	131	25.55	38.04	15.61	
Year's amount of free evaporation (in	191	140	187	102	
inches)	41.71	00.00			
Percentage of humidity (saturation	41.71	39.08	45.66	31.59	
=100) (saturation	61	0-			
Cloudiness (scale 10 = overcast, 0 =	61	67 .	76	61	
clear)	F.0	- ^			
Number of days of fog	5.8	5.9	$6 \cdot 4$	$4\cdot 8$	
	26	21	50	. 5	

An estimate of the areas of the State, in square miles, subject to different degrees of rainfall is contained in the following statement:—

VICTORIA—DISTRIBUTION OF AVERAGE RAINFALL.

	Rainfall.						
Inches,						Square Miles	
nder 15		• •				18,701	
5 to 20	• •					13,800	
to 25	• •					13,551	
to 30	• •	• •				14,528	
	• •	• •	• •	• •		15,802	
1.4. 00	• •	• •				6,671	
vor 60	• •	• •		·		2,660	
ver 00	• •	• •	• •			2,171	

AGRICULTURAL RESEARCH AND EDUCATION.

Department of Agriculture. This Department is controlled by a Minister of the Agriculture. Crown, under whom there is a large staff of experts with the Director of Agriculture as permanent head. These officers are actively engaged in supervising all matters relating to the primary industries of the State, and in giving advice to those engaged therein. The Department publishes a monthly journal.

Research and experimental work are conducted at the State Research Farm at Werribee, the Mallee Research Station at Walpeup, the Horticultural Research Station at Tatura, the Rutherglen State Farm, the Longerenong Agricultural College, the Dookie Agricultural College, and at the School of Primary Agriculture, Burnley. In addition, there are 130 selected farms throughout the State on which experiments and demonstrations are conducted (including 80 pasture plots conducted in conjunction with the Victorian Pasture Improvement League).

At the State Research Farm, Werribee, experiments are undertaken for the improvement of wheat and other cereals, grasses, clovers, and various economic plants, and investigations made into the methods and problems relating to irrigated agriculture, and the breeding and feeding of dairy cattle, horses, sheep and poultry. A School of Dairy Technology has been established for the higher training of dairy factory operatives and research and investigation into problems arising in the manufacture of dairy produce.

Work at the Rutherglen Farm, which serves as a research station for the North-East, includes various aspects of cereal growing and pasture improvement. It was here that the initial experiments were conducted (1911-1918) which resulted in the widespread adoption of the topdressing of pastures with phosphates. The Mallee Research Station was established in 1932. In addition to cereal and grazing investigations, an important feature of the work at this station is research concerning various grasses with the view to producing a pasture which will thrive under Mallee conditions. Special attention is being paid to the problem of sand drift. At Longerenong and Dookie experiments are conducted on wheat and oat cultivation for Wimmera and north-eastern conditions respectively. At the School of Primary Agriculture, Burnley, in addition to instruction in and study of horticultural problems, research work on the breeding and selection of grasses and clovers is carried on; a Plant Research Laboratory mainly devoted to plant pathological and entomological research has also been established.

The Horticultural Research Station at Tatura was recently established as a research centre for the purpose of improving varieties of fruits. Officers are now engaged in the study of irrigation and soil fertility in the Goulburn Valley in relation to the production of canning fruits.

The Government experimental plots on selected farms embrace investigations into pasture improvement, Igrazing trials, and the cultivation of wheat, oats, barley, potatoes, tobacco, maize, broom millet, and vegetables.

The pasture experiments are largely responsible for recent rapid advances made in pasture improvement throughout Victoria. During the season 1938-39, 3,974,938 acres were topdressed and resulted in an estimated increase in carrying capacity of about 50 per cent. above pastures not similarly treated.

An Act for the establishment of Agricultural Colleges was passed in 1884, and 14,458 acres, comprising 5,955 acres at Dookie, 2,386 acres at Longerenong, 2,500 acres at Gunyah Gunyah, 2,800 acres at Olangolah, and 817 acres at Bullarto, were reserved as sites for colleges and experimental farms. The areas at Dookie and Longerenong are being used for the purpose for which they were reserved, but the other three are devoted to other uses. The fee for students in residence at the agricultural colleges is £50 per annum for maintenance, including stationery and medical and other charges. No charge is made for instruction. Accommodation is provided at Dookie for 100 and at Longerenong for 50 students.

Experimental Farms and Agricultural Colleges. Various particulars relating to the State Experimental Farms and Agricultural Colleges are embodied in the next statement:—

VICTORIA—GOVERNMENT EXPERIMENTAL FARMS AND AGRICULTURAL COLLEGES, 1938-39.

	Burnley School	Central	Ruth	erglen.	Mallee Research	Horti-	Dookie	Longere-	
Particulars.	of Primary Agricul- ture, &c. Research Farm, Werribee.		State Farm.	Viticul- tural Station.	Station, Wal- peup.	Research Station, Tatura.	Agri- cultural College.	Agri- cultural College.	
Area under crop Other arable land Balance of area	acres. 12 15 6	acres. 930 1,181 100	acres, 160 667 293	acres. 104 44 - 50	acres. 448 297 1,183	acres. 45 10 49	acres. 938 1,232 3,756	acres. 1,007 1,045 334	
Total area of farm	33	2,211	1,120	198	1,928	104	5,926	2,386	
Value of produce for year	£ 800	£ 7,444	£ 2,568	£ 419	£ 369	£	£ 9,250	£ 5,250	
Receipts— Government Grant Council of Agri- cultural Education Contribution	3,601	13,293	1,288	2,629	2,013	1,490	10,615	9,552	
Other	1,215	7,454	3,166	737	867		9,745	6,130	
Total receipts	4,816	20,747	4,454	3,366	2,880	1,490	20,360	15,682	
Total expenditure	3,601	13,293	4,446	2,629	2,013	1,490	20,360	15,682	
Number of students	76	14			· · · · ·		80	40	

The orchards, nurseries, and gardens of the State are systematically inspected by officers of the Horticultural Division of the Department of Agriculture. Advice is given on the control of pests and diseases when detected, and action is taken where necessary to enforce its compliance.

All plant material entering Victoria, whether from other Australian States or overseas, is subject to strict inspection and measures are taken when necessary to either free such material of disease or have it destroyed.

Melbourne University has a well-equipped School of Melbourne Agriculture, for the maintenance of which a special grant is University provided by the State. This School affords opportunity School of Agriculture. for the training of students in science as applied to practical agriculture and kindred industries. A large number of graduates of this school is employed, mostly in the Victorian Department of Agriculture, on field advisory work and laboratory investigations. The course occupies four years. The first is devoted to pure science; during the second the students are in residence at the State Research Farm. Werribee, engaged in practical farming with lectures on preparatory subjects, and the remaining two years are devoted to a more specialized study of agriculture and allied subjects on a scientific basis.

One of the principal functions of the Council is to Commonwealth initiate and carry out scientific researches in connexion with primary and secondary industries. The main branches Scientific and of the work of the Council are in relation to plant, soil Research and entomological problems, animal nutrition and diseases, forest products, food preservation and transport, and fisheries. addition, facilities are now being made available to the Council to enable it to extend its activities to the field of the secondary industries. In this work, attention will first be given to the establishment of—(i) an Information Section. (ii) a National Standards Laboratory, (iii) an Aeronautical Laboratory (in which engineering research other than that required by the aeronautical industry could be undertaken), and (iv) the development of laboratories for general secondary industry research.

State Committees have been formed whose main function is to advise the Council as to matters that may affect their respective States.

The headquarters of the Council are located at 314 Albert-street, East Melbourne. Two of the Council's Divisions—the Division of Forest Products and the Division of Animal Health and Nutrition—also have their headquarters in Victoria. Researches into timber seasoning, preservation, identification, mechanics, physics, chemistry, and general utilization are carried out by the former Division. The

Victorian work of the Division of Animal Health and Nutrition is concentrated mainly on problems of cattle diseases, e.g., pleuropneumonia, mastitis, and bovine haematuria.

At Merbein a station has been established for the purpose of conducting research into the problems associated with the dried vine-fruits industry.

AGRICULTURE.

Progress of cultivation. In all divisions of the State there are areas suitable for cultivation. The area cultivated in 1938–39 was 7,562,524 acres, as compared with 7,266,910 acres in the previous season, and an annual average of 7,862,470 acres for the seasons 1931–35, 7,616,031 acres for the seasons 1925–30, 6,446,389 acres for the seasons 1915–25, 5,032,359 acres for the seasons 1905–15, and 3,547,111 acres for the seasons 1895–1905. Notwithstanding the large increase in the area cultivated since 1915, there has been considerable growth in the dairying and pastoral industries.

The following table shows the area under cultivation from period to period during the last 84 years:—

VICTORIA—ACREAGE CULTIVATED ANNUALLY, 1855 TO 1939.

Period	or Year	(ended Ma	reh).	Annual average area in each quinquennium, 1855 to 1925, and actual area each year 1926–1939, under—						
				Crop.	Fallow.	Total Cultivation				
				acres.	acres.	acres.				
1855–65	• •		• • •	325,676	12,146	337,822				
1865-75	• •	. ,		624,377	57,274	681,651				
1875-85	• •,	• •		1,306,920	137,536	1,444,456				
1885-95	• •			2,109 ,3 26	364,282	2,473,608				
1895-190	5			3,022,914	524,197	3,547,111				
1905-15				3,756,211	1,276,148	5,032,359				
1915-25			٠.	4,594,244	1,852,145	6,446,389				
1926				4,433,492	2,457,136	6,890,628				
1927	• •	• •		4,735,173	2,569,021	7,304,194				
19 2 8	• •			4,94 2,2 58	2,692,044	7,634,302				
1929				5,505,651	2,683,462	8,189,113				
1930				5,579,258	2,482,662	8,061,920				
1931				6,715,660	2,590,629	9,306,289				
1932	• •			5,407,109	2,145,819	7,552,928				
1933				5,115,745	2,633,287	7,749,032				
1934				5,266,913	2,543,043	7,809,95 3				
1935		• •		4,677,683	2,216,464	6,894,147				
1936				4,438,761	2,358,777	6,797,538				
1937				4,407,312	2,483,163	6,890,475				
1938				4,662,354	2,604,556	7,266,910				
1939				5,019,299	2,543,225	7,562,524				

The decrease in the area under crop in recent years has been due mainly to the reduced acreage sown to wheat for grain.

Land occupied in different districts. The following tables give information relating to land occupied in each district during the season 1938–39:—

VICTORIA—LAND IN OCCUPATION IN EACH DISTRICT, SEASON 1938-39.

(Areas of 1 acre and upwards.)

				A	eres Occupie	ed.	
Districts.	Total Area	Number	For	For P	asture.		
DINOTO I	of Districts.	Occupiers.	Agricul- tural Purposes.	Sown Grasses, Clover, or Lucerne.	Natural Grasses.	Unpro- ductive.	Total.
Central North-Central Western Winmera Mallee Northern North-Eastern Gippsland Total	Acres. 4,065,280 2,929,920 8,775,040 7,394,560 10,784,000 6,337,280 7,220,480 8,739,200 56,245,769	16,647 5,042 12,241 6,045 6,969 11,320 5,265 8,923 72,452	376,355 135,899 351,188 2,096,466 2,888,443 1,426,687 140,882 146,604 7,562,524	469,005 67,221 1,314,737 178,685 22,177 225,737 130,182 676,134 3,083,878	$\begin{array}{c} 1,674,934\\ 1,900,762\\ 4,799,530\\ 3,650,613\\ 3,713,685\\ 3,768,516\\ 3,880,685\\ 2,302,770\\ \hline 25,691,495\\ \end{array}$	282,168 111,024 482,383 556,021 332,741 88,630 418,051 2,181,794 4,452,812	2,802,462 2,214,906 6,947,838 6,481,785 6,957,046 5,509,570 4,569,800 5,307,302 40.790,709
		PERC	ENTAGE OF	ABOVE TO	AREA OCCU	PIED.	
Central North-Central Western			13·43 6·14 5·06 32·34 41·52 25·89 3·08 2·76	16.74 3.03 18.92 2.76 .32 4.10 2.85 12.74	59.76 85.82 69.08 56.32 53.38 68.40 84.92 43.39	10.07 5.01 6.94 8.58 4.78 1.61 9.15 41.11	100.00 100.00 100.00 100.00 100.00 100.00 100.00 100.00
		PERCENTA	AGE IN EAC	h District	OF TOTAL	IN STATE,	
Central North-Central Western Wimmera Mallee Northern North-Eastern Gippsland	7·23 5·21 15·60 13·14 19·17 11·27 12·84 15·54	22.98 6.96 16.89 8.34 9.62 15.62 7.27 12.32	4.98 1.80 4.64 27.72 38.19 18.87 1.86 1.94	15·21 2·18 42·63 5·79 ·72 7·32 4·22 21·93	6.52 7.40 18.68 14.21 14.45 14.67 15.11 8.96	6·34 2·49 10·83 12·49 7·47 1·99 9·39 49·00	6.87 5.43 17.03 15.89 17.06 13.51 11.20 13.01
Total	100.00	100.00	100.00	100.00	100.00	100.00	100.00

It will be seen from these tables that the proportion of cultivation to land occupied is much larger in the Wimmera, Mallee, and Northern than in other districts. Of the occupied land in each of these districts, 32 per cent. in the Wimmera, 42 per cent. in the Mallee, and 26 per cent. in the Northern districts were used for agriculture in 1938–39.

In that year the area cultivated in these three districts was nearly 85 per cent. of the total cultivation in Victoria. In the North-Central, Western, and North-Eastern districts, the land occupied is largely devoted to grazing. Gippsland, Western, and Central are the chief dairying districts, and contain 80 per cent. of the sown pastures of the State.

To illustrate the uses to which the land was applied in 1925, 1929, 1934, and 1938, various percentages, relating to holdings of different sizes of privately-owned land and Crown land held in conjunction therewith, are given for those years in the succeeding table, which also shows the live stock, reduced to their equivalent in sheep, carried on the holdings:—

VICTORIA—SIZE OF HOLDINGS AND HOW UTILIZED, 1925, 1929, 1934, and 1938.

		Percen	tage in ea	ch Divisio	on to Tota	ıl of—	Live Stock Grazed
Size of Holdings of Privately-owned Land. (In Acres).	I. Year.	Hold- ings.	Area Occu- pied.	Area under Cul- tivation.	Area used for Pasture, &c.	Equiva- lent in Sheep Grazed.	reduced to equiva- lent in Sheep.
		%.	%	%_	%	%	
1 and under 50	$ \left\{ \begin{array}{c} 1925 \\ 1929 \\ 1934 \end{array} \right. $	27.92 26.77 25.99	$1.62 \\ 1.28 \\ 1.41$	1.87 1.55 1.54	$1.56 \\ 1.20 \\ 1.38$	4 05 2 96 3 32	1,303,611 966,721 1,322,414
	1938	25.88 11.64	$\frac{1.20}{2.35}$	1 54 2 33	1.13 2.36	2·87 5·16	1,322,414 1,154,251 1,660,520
50 and under 100	1929 1934	11 34 11 38	$\begin{array}{c} 1.89 \\ 1.94 \end{array}$	2:03 1:98	1.86 1.94	4 50 4 83	1,452,634 1,927,965
100 1 1 500	1938	$\frac{11}{36} \frac{15}{01}$	1 77 22 54	1 71 23 25	1.79 22.37	4.56 31.94	1,832,951 $10,279,013$
100 and under 500	$ \begin{array}{c c} 1929 \\ 1934 \\ 1938 \end{array} $	35 14 35 77 36 23	20.50 19.81 19.74	18.35 18.23 16.86	21.09 20.22 20.39	30 · 20 31 · 33 32 · 09	$\begin{array}{c} 9,860,967 \\ 12,497,181 \\ 12,910,179 \end{array}$
500 and under 1,000	1925 1929	15.84 16.84	27:19 27:21	40.43 41.40	24.03 23.25	20.26 20.50	6,518,684 6,691,162
	1934 1938 1925	16.45 15.27	26.50 24.29 36.10	40.90 34.17	22.75 22.04	20·30 19·88	8,097,164 7,998,647
1,000 and under 5,000 \dots	1925 1929 1934	8 · 12 9 · 37 9 · 88	38.58 39.64	30.57 35.07 35.94	37.41 39.56 40.60	28 30 30 93 30 14	9,108,435 10,096,032 12,025,865
	1938	10.89 34	41.78 5.73	43.76 1.30	41'33 6'79	30·14 5·56	12,123,812 1,789,811
5,000 and under 10,000	$ \begin{array}{c c} 1929 \\ 1934 \\ 1938 \end{array} $.40 .40 .43	6.04 5.99 6.02	1 20 1 10 1 53	7:39 7:26 7:04	6.32 5.67	2,064,255 2,262,059
10,000 and under 20,000	1925 1929	$^{11}_{12}$	3.53 3.45	*24 *35	4.32 4.31	5 *84 3 * 74 3 * 20	2,350,437 1,201,688 1,046,067
	$\begin{cases} 1934 \\ 1938 \end{cases}$	·11 ·12	2.99 3.27	26 37	3.70 3.94	2.85 2.75	1,138,940 1,107,610
20,000 and upwards	$ \begin{cases} 1925 \\ 1929 \\ 1934 \end{cases} $	*02 *02 *02	1.05 1.72	'01 '05 '05	1 16 1 34 2 15	1.44 1.56	317,652 469,930
	1938	*03	1,43	•10	2.34	1.87	622,381 750,543 32,179,414
Total	1929 1934 }	100.00	100.00	100.00	100.00	100.00	32,647,768 39,893,969
· · ·	[1938]			-			40,228,430

In the above table horses and cattle have been reduced to an equivalent in sheep on the assumption that one head of either will

eat as much as ten sheep. The numbers of live stock held in March, 1938, on holdings of various sizes will be found on page 472.

Dairying is carried on principally on small holdings and, in conjunction therewith, pig farming is often practised as a profitable In 1938, 77 per cent. of the dairy cows and 81 per cent. of the pigs were on holdings of less than 500 acres.

Size of holdings, showing areas cultivated and grazed.

Information relating to land occupied and cultivation thereon was collected in March, 1938. The land privately owned was summarized according to different sized holdings and, where Crown lands were held in conjunction therewith, these lands were, regardless of size, scheduled with the holdings to which they were attached. The particulars relating to these holdings are given in the following table:-

VICTORIA-SIZE OF HOLDINGS SHOWING AREAS UNDER CULTIVATION AND PASTURE, MARCH, 1938.

Privately-	owned 1	Land.		nd held tion owned.	·	Area u	ınder—
Size of Holdings. (In Acres.)	Number of Holdings.	Area Occupied.	Average Size of Holding.	Crown Land h in conjunction with that privately own	Total Area Occupied.	Cultiva- tion.	Pasture, &c.
1 and under 50 50 and under 100 100 and under 500 500 and under 1,000 1,000 and under 10,000 5,000 and under 20,000 10,000 and under 20,000 20,000 and upwards .	18,588 8,007 26,023 10,969 7,823 310 85 19		72 245 704 1,708 6,706 13,174	acres. 100,420 106,469 1,250,031 1,653,569 2,753,762 242,252 143,272 178,222	acres. 463,423 683,278 7,616,050 9,373,364 16,119,446 2,321,022 1,263,102 743,361	122,389 1,207,256 2,446,004 3,133,027 109,745	acres. 356,175 560,889 6,408,794 6,927,360 12,986,419 2,211,277 1,236,779 736,522
Total Privately- owned Land Crown Land not held in conjunction with that	71,824	32,155,049	448	6,427,997			
privately owned	968			1,805,096	1,805,096	108,079	1,697,017
Grand Total	72,792	32,155,049		8,233,093	40,388,142	7,266,910	33,121,232

Size of oldings in

Particulars of the size of holdings and cultivation thereon, together with the particulars of the total holdings in which only Crown land was held, are given in the following table:--

VICTORIA—SIZE OF HOLDINGS AND CULTIVATION THEREON, 1925, 1929, 1934, AND 1938.

Privately-c	owned	Land.		Crown Land held		Area u	nder—
Size of Holdings. (In Acres.)	Year.	Number ot Hold- ings.	Area Occupied.	in conjunc- tion with that privately owned.	Total Area Occupied,	Cultiva- tion.	Pasture, &c.
1 and under 50	1925 1929 1934 1938	22,083 19,791 19,348 18,588	acres. 405,655 374,677 374,948 363,003	acres. 178,977 102,430 153,033 100,420	acres. 584,632 477,107 527,981 463,423	acres. 129,732 126,435 119,076 107,248	acres. 454,900 350,672 408,905 356,175
50 and under 100	1925 1929 1934 1938	9,206 8,388 8,475 8,007	658,278 601,533 610,113 576,809	191,047 105,603 118,175 106,469	849,325 707,136 728,288 683,278	161,488 165,172 153,217 122,389	687,837 541,964 575,071 560,889
100 and under 500 {	1925 1929 1934 1938	28,482 25,979 26,635 26,023	6,977,490 6,384,766 6,499,014 6,366,019	1,153,583 1,270,651 922,428 1,250,031	8,131,073 7,655,417 7,421,442 7,616,050	1,613,388 1,497,695 1,408,012 1,207,256	6,157,722 6,013,430
500 and under 1,000 {	1925 1929 1934 1938	$12,534 \\ 12,449 \\ 12,245 \\ 10,969$	8,774,932 8,828,038 8,680,358 7,719,795	1,033,245 1,336,491 1,244,542 1,653,569	9,808,177 $10,164,529$ $9,924,900$ $9,373,364$	2,805,966 $3,377,341$ $3,159,356$ $2,446,004$	6,787,188 6,765,544
1,000 and under $5,000$	1925 1929 1934 1938	6,420 6,929 7,357 7,823	10,933,319 11,858,819 12,524,655 13,365,684	2,086,875 2,550,602 2,323,211 2,753,762	13,020,194 14,409,421 14,847,866 16,119,446	2,860,939 2,775,863	$\begin{array}{c} 10,898,771 \\ 11,548,482 \\ 12,072,003 \\ 12,986,419 \end{array}$
$5,000$ and under $\left\{ \begin{array}{cc} 5,000 & \text{and} & \text{under} \end{array} \right\}$	1925 1929 1934 1938	273 297 298 310	1,868,708 2,047,281 2,013,454 2,078,770	198,969 207,774 230,549 242,252	2,067,677 2,255,055 2,244,003 2,321,022	90,274 97,542 84,681 109,745	2,157,51 3 2,159,322
$10,000 \atop 20,000$ and under $\left\{ \right.$	1925 1929 1934 1938	91 90 81 85	1,240,151 1,196,469 1,105,170 1,119,830	33,452 90,838 16,609 143,272	1,273,603 1,287,307 1,121,779 1,263,102	16,610 28,915 20,390 26,323	1,258,392 1,101,389
20,000 and upwards {	1925 1 9 29 1934 1938	13 15 16 19	336,791 390,876 456,843 565,139	1,417 2,519 187,103 178,222	338,208 393,395 643,946 743,361	1,033 3,788 3,660 6,839	389,607 640,286
Total of privately-	1925 1929 1934 1938	79,102 73,938 74,455 71,824	31,195,324 31,682,459 32,264,555 32,155,049	4,877,565 5,666,908 5,195,650 6,427,997	36,072,889 37,349,367 37,460,205 38,583,046	$\begin{bmatrix} 8,157,827 \\ 7,724,255 \end{bmatrix}$	29,132,975 29,191,540 29,735,950 31,424,215
Crown Land not held in conjunction with that privately-	1925 1929 1934 1938	935 974 931 968		733,355 1,021,435 1,317,813 1,805,096	733,355 1,021,435 1,317,813 1,805,096	36,800 159,575 85,701 108,079	
Grand Total	1925 1929 1934 1938	80,037 74,912 75,386 72,792	31,682,459 32,264,555	5,610,920 6,688,343 6,513,463 8,233,093	38,370,802 38,778,018	8,317,402 7,809,956	29,829,530 30,053,400 30,968,062 33,121,232

The number of holdings of privately-owned land of over 10,000 acres was 104 in 1938, 97 in 1934, 105 in 1929, 104 in 1925, 152 in 1919, 151 in 1913, 175 in 1910, and 195 in 1906, and the aggregate areas comprised therein in the corresponding years were 1,684,969 acres, 1,562,013 acres, 1,587,345 acres, 1,576,942 acres, 2,638,307 acres, 2,652,966 acres, 3,298,227 acres, and 4,134,067 acres. The reduction in the period of thirty-two years between 1906 and 1938 was equivalent to 47 per cent. in the number, and 62 per cent. in the acreage of such estates. Most of this reduction took place between the years 1906 and 1913, and 1919 and 1925, the periods of active Closer Settlement and of Soldier Settlement respectively.

Principal Crops grown in the State are wheat, oats, barley, potatoes, and hay. The following table shows, in respect of these products, the annual average area, production, and yield per acre during each decennium, 1855 to 1925, and the actual area, production and yield per acre for each of the thirteen seasons, 1926–1939.

VICTORIA—ACREAGE, PRODUCTION, AND AVERAGE YIELD OF FIVE PRINCIPAL CROPS, 1855 TO 1939.

Period or Season.		Wheat.*	Oats.*	Barley.*	Potatoes.	Нау.
			An	NUAL AREA.		,
	.	acres.	acres.	acres.	acres.	acres
1855-65	• •	119,001	83,296	4,843	24,123	80,11
1865-75	• •	278,077	129,384	19,262	36,744	117,39:
1875-85	• •	776,031	147,343	41,188	39,089	226,77
1885-95		1,236,501	210,901	64,310	48,009	437,08
1895 - 1905	• •	1,898,280	340,957	52,829	45,243	540,47
1905-15	• •	2,190,336	390,642	60,378	56,272	848,58
1915 - 25		2,633,945	428,372	84,205	61,195	1,122,97
1925-26		2,513,494	437,696	103,395	63,369	1,013,61
1926-27		2,915,315	303,424	88,896	66,185	1,080.99
1927–28		3,064,172	529,392	76,768	77,649	908,80
1928-29		3,718,904	347,021	75,451	68,412	1,005,06
1 92 9-30		3,566,135	630,234	97,678	58,789	865,01
1930-31		4,600,200	371,024	87,518	67,590	1,277,39
931-32		3,565,872	439,626	66,381	69,929	955,839
932-33		3,230,955	368,846	93,555	69,783	1,014,52
933-34		3.052.931	525,976	106,339	60,856	1,196,259
1934-35		2,458,583	506,638	87,599	54,214	1,261,55
935-36		2,323,753	505,623	116,371	44,287	1,140,36
936-37		2,393,827	381,069	100,003	45,627	1,181,61
937 - 38		2,686,057	394,436	139,777	41,105	1,079,039
938-39		2,748,362	657,999	175,891	34,396	1,104,558

^{*} For Grain.

VICTORIA—ACREAGE, PRODUCTION, AND AVERAGE YIELD OF FIVE PRINCIPAL CROPS, 1855 TO 1939—continued.

Period or Sea	son.	Wheat *	Oats.*	Barley.*	Potatoes.	Hay.
	-	1				
			Annu	AL PRODUCT.	ion.	
		bushels.	bashels.	bushels.	tons.	tons.
1 8556 5	••	2,198,874	2,068,648	103,575	62,723	111,80
1865-75	••.	4,385,814	2,636,747	390,337	111,800	153,85
1875–85		8,593,308	3,297,468	799,938	135,614	276,77
1885–95		12,268,905	4,649,393	1,187,007	170,905	547,09
1895–1905		14,032,145	6,649,453	947,580	134,357	672,98
1905–15		22,906,743	7,342,468	1,243,442	158,445	1,084,72
1915-25		39,171,358	7,965,864	1,923,654	169,864	1,511,29
1925-26		29,255,534	4,998,165	1,774,963	160,729	929,06
1926–27		46,886,020	4,884,006	1,920,722	162,909	1,387,97
1927-28		26,160,814	4,682,724	1,552,109	230,348	1,001,25
1928-29		46,818,833	5,602,409	1,556,118	140,158	1,267,43
1929-30		25,412,587	5,058,541	2,183,325	171,747	963,08
19 3 0–31		53,814,369	6,893,827	1,983,130	173,341	1,605,90
1931-32	••	41,955,856	6,450,281	1,256,678	206,489	1,069,27
1932–33	••	47,843,129	6,363,853	1,995,446	182,471	1,386,02
1933–34		42,613,106	6,778,754	1,888,981	142,132	1,353,79
1934–35		25,850,528	5,218,787	1,609,518	109,329	1,461,26
1935-36	••	37,552,062	6,365,056	2,314,427	104,125	1,346,95
1936-37		42,844,816	6,107,885	2,143,109	196,623	1,403,04
1937–38	• •	48,173,191	5,327,199	2,708,519	134,712	1,244,93
1938-39		18,104,369	2,909,260	1,671,809	81,415	892,97

^{*} For Grain.

VICTORIA—ACREAGE, PRODUCTION, AND AVERAGE YIELD OF FIVE PRINCIPAL CROPS, 1855 TO 1939—continued.

Period or Sea	son.	Wheat,*	Oats.*	Barley.*	Potatoes.	Hay,
			Average An	INUAL YIELD	PER ACRE.	
		bushels.	bushels.	bushels.	tons.	tons
1855–65		18•48	24.83	21.39	2.60	1.40
1865–75		15•77	20.38	20•27	3.04	1.31
1875–85	••	11.07	22.38	19.42	3.47	1.22
1885–95		9•92	22.05	18•46	3.56	1.21
1895-1905	••	7.39	19.50	17.94	2.97	1.25
1905–15		10.46	18•79	20.59	2.82	1.28
1915-25		14.87	18.60	22.84	2.78	1:35
1925-26		11.64	11.42	17.17	2.54	0.92
192 6–27		16.08	16.10	21.61	2.46	1.29
1927-28		8 • 54	8•85	20.22	2.97	1.10
1928-29	٠.	12.59	16.14	20.62	2.05	1.26
1929-30		7•13	8.03	22.35	2.92	1.11
19 30 –31		11 .70	18.58	22.66	2:56	1 · 26
1931 –32		11.77	14.67	18.93	2.95	1.12
1932-33	••	14.81	17.25	21.33	2.61	1.33
1933-34		13 96	12.89	17.76	2:34	1.13
1934-35		10.51	10.36	18.37	2.02	1.16
1935-36		16 · 16	12.59	19.89	2.35	1.18
1936–37	٠.,	17.90	16.03	21 · 43	4.31	1.19
1937–38		17.93	13.51	19:38	3 28	1.15
1938-39		6.59	4.42	9.50	$2 \cdot 37$	0.81

^{*} For grain.

Area Cultivated A summary of the area under cultivation in each County 1938-39.

VICTORIA—AREA UNDER CULTIVATION

		Gra	n Crops.				:	ten,
Districts and Counties	Wheat.	Oats.	Barley.	Maize.	Peas.	Potatoes.	Onions.	Hay (Wheaten, Oaten, Lucerne,
	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres
Central District—	*				1	i	i	
Bourke		6,483	5,745	19	282	3,504	578	58,12
Grant		7,244	24,326	329	1,911	6,206	1,070	55,18
Mornington .		179	376	1,521	111	3,885	223	25,09
Evelyn	. 57	50	161		17	1,428		5,29
North Central District—	-							
Anglesey .		58	96	93	63	353		5,45
Dalhousie .	. 829	1,290	176		76	2,514		12,72
Talbot	. 13,276	8,534	1,894		425	5,634		50,27
Western District—				1			1	
Grenville .		6,423	4,110		216	816	987	26,47
Polwarth	. 31	1,641	1,037		201	1,077	825	10,04
Heytesbury .		44	154		27	205	6	12,24
Hampden .		5,587	1,413		5	139	76	20,60
Ripon	. 19,504	18,970	968		16	612		23,28
Villiers		4,019	1,464		158	3,052	923	20,2
Normanby .		2,232	1,343		297	498		22,74
Dundas		7,340	626		96	26	1	23,91
Follett	. 225	672	144		90	70		2,99
Wimmera District				İ				
Lowan	. 201,592	38,178	21,482		85			77,14
Borung		49,595	24,672	13	109	60	1	79,64
Kara Kara .	. 150,944	33,808	2,602		5	11		32,38
Mallee District—				İ		1		
Millewa		16,044	30		2	1		4,33
Weeah		30,861	11,822					40,80
Karkarooc .		164,107	26,617	3		: 8	1	53,20
Tatchera .	. 394,993	98,531	4,457	27		7	1	44,12
Northern District—								
Gunbower .		4,395	6,411			1		27,78
Gladstone		50,323	5,836			2	1	28,75
Bendigo		29,209	3,365		5			43,59
Rodney		18,740	11,600		.:.	4	2	50,58
Moira	196,615	43,464	2,689	5	10	9	• 1	117,77
North Eastern District—		0.001	150	1.105	40			05.40
Delatite		3,001	472	1,197	48	578		25,42
Bogong	0.5	4,775	697	773 290	17	262	1	$37,50 \\ 9,22$
TT7		292	354		18	16	• •	
Wonnangatta Sippsland District—	• • •	20	ļ · ·	83	25	9	• •	17
Character and a con-	_	9.5	50	0.400	189	75		74
Croajingolong		35	101	2,469 2,969	189	64	• • •	$\frac{74}{1.38}$
Y5		13					• • •	
Dargo Tanjil	0.000	288	8 001	$\frac{3,848}{4,619}$	48 95	94	2	1,71
D1., D1	205	1,287 267	6,991		$\frac{95}{324}$	$\frac{196}{2,980}$	199	$17,74 \\ 35,75$
ուսո հատ	295	207	1,293	227	324	4,980	199	55,75
Total for State .	2,748,362	657,999	175,891	18,485	5,029	34,396	4.898	1,104,55

of the State for the season 1938-39 is given in the following table :—

FOR THE SEASON 1938-39.

Green Forage.	Grass and Clover for Seed.	Tobacco.	Vines.	Flax.	Market Gardens.	Orchards,	All Other Crops.	Total Area under Crops.	Land in Fallow.	Total Area under Cultivation.
Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.	Acres.
5,222 4,087 14,450 1,485	 9 166 		14	13 142	7,127 2,372 3,678 1,870	11,197 1,512 13,025 7,686	1,534 345 1,521 453	104,287 116,131 64,587 18,499	26,914 32,101 11,110 2,726	131,201 148,233 75,691 21,223
$\begin{array}{c} 814 \\ 1,072 \\ 1,974 \end{array}$	61 2,162		35 26	58	115 10 21	32 56 3,374	18 48 76	7,586 18,894 87,730	506 1,374 19,809	8,093 20,263 107,533
625 2,182 1,762 564 630 1,767 2,838 1,679 896	198 1,926 41 450 20 610 106 1,274 99		24	15 568 110 8 13 89	54 251 11 49 84 580 29	361 228 99 23 19 15 878 15 63	35 69 41 21 9 342 248 96 18	45,264 20,082 14,635 35,092 64,168 33,769 32,328 36,670 5,268	12,890 1,314 2,669 7,594 24,444 2,857 6,309 5,355 480	58,154 21,304 42,686 88,611 36,626 38,631 42,026 5,748
$\frac{441}{921}$ 194	165	.i2	23 840 49		221 	345 1,882 387	474 331	339,935 641,565 220,386	320,153 511,677 162,750	560,088 1,153,249 383,13
1,350 586 $7,053$			30 28,788 6,718	• • • • • • • • • • • • • • • • • • • •	148 107	32 1,764 1,385	72 622 108 222	122,438 253,968 946,257 557,628	47,050 147,562 505,421 308,119	169,488 401,530 1,451,678 865,747
12,936 903 997 2,837 1,533	 .52 	55 9 66	19 12 98 337 779		269 85 506 384 978	925 316 2,529 10,963 9,443	358 12 35 120	74,431 195,840 173,891 162,331 373,482	20,031 102,993 81,639 41,634 200,415	94,462 298,833 255,530 203,965 573,897
$\begin{array}{c} 1,392 \\ 735 \\ 880 \\ 16 \end{array}$	81	1,014 1,396 	72 4,571 		48 163 2	527 1,120 15 6	389 1,180 119 14	36,713 69,949 11,297 343	5,830 15,856 864 30	42,545 85,805 12,161 378
379 1,155 1,700 9,334 21,407	114			83 259	91 506 648 296 349	15 127 119 225 592	269 190 436 4,739 75	4,320 6,589 9,263 49,551 64,132	213 785 634 3,579 7,538	4,533 7,374 9,897 53,130 71,670
108,796	7,534	2,559	42,436	1,358	21,059	71,300	14,639	5,019,299	2,543,225	7,562,524

Yields of The table which follows shows the yields, in Counties,

VICTORIA—YIELDS OF PRINCIPAL

		G	rain Crops.			
Districts and Counties.				1	1	Potatoes.
	Wheat.	Oats.	Barley.	Maize.	Peas.	
	Bushels.	Bushels.	Bushels.	Bushels.	Bushels.	Tons.
Central District—			-0.051		1 505	0.410
Bourke		130,805	78,054	F . 500	1,785 $12,588$	9,416 14,865
Grant	4.540	137,313	401,408	4,500	1,839	6,668
Mornington .		2,615	6,737	11,693	$\frac{1,639}{277}$	4,192
Evelyn		902	4,226		211	4,102
North Central District-	1.01.1	329	1.115	100	710	901
Anglesey Dalhousie	40.00	22,777	2.078	100	313	6,144
CD 11 /	100 750	113,098	28,508		3,224	14,714
Western District—	. 100,170	119,000	20,000		,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	11,111
Grenville	. 76,832	125,141	57,978		1,595	1,757
Polwarth	0.50	29,691	20,557		2,134	3,356
Heytesbury .		622	3,756		256	458
Hampden		109,266	25,551		45	195
70.0	. 373,788	319,855	12,096		124	1,174
W2 4 7 4	17,703	82,045	42,213		1,899	4,145
Normanby .	. 10,100	53,946	30,873		4,822	1,185
Dundas	. 22,408	110,455	11,976		972	29
	3,919	9,114	3,901		271	119
Wimmera District—	3 KOM (M4				0.44	1
	. 2,507,471	360,070	259,288		241	
	. 5,115,822	150,923	115,905	4	60	94
	. 1,265,036	144,791	14,799		60	19
Mallee District—	0= 000	0.051			361	2
	97,080	6,671 113.344	78,782			4
	1,157,026	111.009	97,866	50		9
03 - 4 - 3 - · ·	. 2,609,725 972,394	26,097	14,237	1,075		16
Northern District—	972,394	20,097	14,201	1,010		10
	41,372	20.962	86,332			2
011 1 1	678,518	126,031	35,679	1 ::		3
F1 11	314,308	52,788	11,947		12	
	242,118	40,915	76,162			7
Moira	. 1.714,029	318,943	23,255	F	319	6
North Eastern District-		,	1			
Delatite	. 56,068	57,082	11,876	9,660	415	1,499
	. 331,771	103,469	13,026	10,002	295	763
	1,527	4,645	6,211	3,323	277	31
		308		251	94	F
Gippsland District—					0 =00	* 10
Croajingolong .	. 47	354	26	80,070	2,706	142
	. 157	154	1,350	113,742	211	117 176
Tr 723	1,061	2,245	5,167	90,043	1 000	430
ThereIn ThereIn	41,316	17,245	72,637	88,592	1,092	8,785
Buln Buln .	2,923	3,240	16,237	3,473	4,121	0,185
Total for State	. 18,104,369	2,909,260	1,671,809	416,578	43,332	81,415

NOTE.—The letter "F" signifies that the crop was a failure.

of the principal crops for the season, 1938-39.

CROPS FOR THE SEASON, 1938-39.

Onions.	Hay (Wheaten,	Grass			Dr	Dried Vine-Fruits.				
Omons.	Oaten, Lucerne, Grass. etc.)	and Clover for Seed.	Tobacco.	Wine Made.	Raisins.	Sultanas.	Currants,			
Tons.	Tons.	Bushels.	ewt.	Gallons.	cwt.	ewt.	ewt.			
2,879	58,100			1	r					
1,206	57,231	F		i						
188	26,018	294		1						
• •	6,381			1						
	5,024									
	11,898 48,272	$\begin{array}{c} 54 \\ 2,929 \end{array}$								
••	20,212	2,920	• •			• • •				
1,432	28,007	335								
1,351	11,052	5,087					::			
9 109	13,743 21,928	22 310								
	26,740	18	• •	e e						
2,732	25,851	4,340								
Ė.	30,404	780			1					
r 	$27,585 \\ 3,442$	$18,905 \\ 531$								
	0,772	ออน		825,056	J	• • •				
	70,003	696		025,050] ::	• • •	98			
2	48,134		31			115	182			
• •	20,408									
	1,072			1		100	. 75			
3	18,565									
4	$16,510 \\ 14,926$	••			91,873	488,099	193,421			
*			٠.		10,143	82,766	12,213			
٠	22,205		370		1					
2	$15,069 \\ 15,560$	89			1					
2	33,553	04	49			14 59	21			
F	66,843		308		::	38	12			
	30,749	F	2,119	1 .						
2	47.599		3,543		1		• •			
	11,639				1 1	:: i				
• • •	186									
	1,304					l				
	1,344	• • •				:.				
1	$^{1,624}_{16,886}$] [•• 1				
482	37,120	827	12			• • •				
10,404				,						
10,404	892,975	35,217	6,432	825,056	102,016	571,156	206,022			
			1			,				

Note.—The letter "F" signifies that the crop was a failure.

Area, Yield The following table shows the area under, the yield and Gross Value of Grops, from, and the gross value of each of the principal crops in Season 1938-39. Victoria for the season 1938-39.

VICTORIA—AREA, YIELD, AND GROSS VALUE OF CROPS, 1938-39.

Crop.	Area.	Gross Value.*						
		acres.				.,		£
Wheat	;	2,748,362	18,104,369	bushels				2,891,2001
Oats		657,999	2,909,260	,,				509,121
Barley, Malting (2 rov	x) .	150,984	1,411,139	,,				235,190
,, Other (6 row)		24,907	260,670	2.1		• •		36,928
Maize		18,485	416,578	,,				107,466
		1,109	4,735	,,				1,184
Hay, Wheaten		258,839	194,759	tons				809,765
		722,528	561,922	,,				2,361,455
		36,838	45,905	,,				228,384
		86,353	90,389	,,				253,245
			21,087					57,759
		7,534	35,217	bushels			• •	$22,451 \\ 3,461$
		1,878	6,020	,,				6,581
		640	3,419	,,				18,958
		5,029	43,332	,,				295,934
		108,796	::			• •		$\frac{295,934}{1.095,032}$
		34,396	81,415	tons				197,676
		4,898	10,404	,,				26,908
Sugar Beet		4,268	13,454	**	of beet value		ctory	20,900
					at £26,908		41	
					(Sugar extra			
					to 1,507			
					13,454 tor	is or beer		8,895
Turnips, Beet, &c., f	or	817	2,093	3.7			• •	0,000
fodder								7,074
		376	3,537	",				59,620
		2,559	6,432		• •	• •		8,316
Hops	٠.,	135	742	,,	01			708
Broom Millet	Į	624	$\int 1,940$,,	Seed			6.145
	ſ	ŀ	3,180		Fibre			8.484
Chicory		314		tons	(dried)	nad at m	ille of	4,750
Flax		1,358	950	,,	of straw valued at mills at £4,750			7,1.00
					Droducte of	tained n	oro	
					Products obtained were 960 cwt, seed		1616	
					1.080 cwt			1
					1,740 cwt			
Onshands Broductive		58.134			1,140 080			1,789,575
Orchards, Productive Unproducti		13,166		• •	• •			,,
Grance Table		1,497		tons	• •	• •		65,429
7771	• •	6,281	5,593		valued at	winer		32,871
,, Wine	٠.	0,201	3,585	,,	£32,871.	Wine		3=,
					amounted			
					gallons	. 65 0.	-0,000	
Drying		31,862	175.706	,,	Producing-			1.790.596
,, Drying	• •	01,002	170,700	,,	28,558 to		anas	
						ns of rais		
		1	1		10.301 to			ì
Vines, Unproductive		2,796	í		10.901 0			
		21,059		• •				1,158,245
Pumpkins			5.199	tons				30,774
Other Crops		3.049	0,120	20				248,661
Outto Oropo	• •	3,340	<u> </u>					·
Total Crops		5,019,299	1					14,378,841

^{*} The gross value is based on the wholesale price realized in the principal markets. The places where primary products are absorbed locally or where they become raw material for a secondary industry are presumed to be the principal markets.

[†] Includes bounties to necessitous farmers £200,000, and amount allocated from Flour Tax £315,002.

Values of five principal crops, based upon prices realized at crops. country railway stations, also the value of each crop per acre for each of the five seasons, 1934–35 to 1938–39.

VICTORIA-VALUES OF FIVE PRINCIPAL CROPS.

Season.		Annual Value of—									
		Wheat.	Oats.	Barley.	Putatoes.	Ray.					
		£	£	£	£	£					
1934-35		4,422,091*	524,879	200,927	711.263	3,145, 2 57					
1935–3 6		6,975,305*	609,985 281,591		616,326	2,963,105					
1936-37		10,573,533	725,311	412,188	533,350	3,712,145					
1937-38		8,381,235	799,080 448,798		667,947	4,979,740					
1938–39	2.		460,633	239,461	865,034	3,352,862					
			Ann tal	Value Per A	cre of—						
		Wheat.	Oats.	Barley.	Potatoes.	Hay.					
•		£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.					
1934-35		1 16 0	1 0 9	2 5 11	13 2 5	2 9 10					
1935-36		3 0 0	1 4 2	2 8 5	13 18 4	2 12 0					
1936-37		4 8 4	1 18 1	4 2 5	11 13 9	3 2 10					
1937–38		3 2 5	2 0 6	3 4 3	16 5 0	4 12 4					
1938-39		0 17 8	0 14 0	1 7 3	25 3 0	3 0 9					

^{*} Includes bounties, &c.

THE GRAIN ELEVATOR SYSTEM FOR THE BULK HANDLING OF WHEAT IN VICTORIA.

The Grain Elevator Act 1934 provided for the handling of grain in bulk, for wheat within defined areas to be delivered to elevators, and for the constitution of the Grain Elevators Board. It also empowered the Board to borrow money to the extent that the money owing at any one time shall not exceed £2,000,000. Amending legislation passed in 1940 increased the borrowing powers to £2,500,000.

The bulk handling scheme will be completed in two sections, is estimated to cost £2,482,387 and provides for the erection, at country railway stations, of 140 elevators with individual capacities of seven sizes ranging from 65,000 to 300,000 bushels, which will serve terminal elevators at Geelong and Williamstown of 2,250,000 bushels and 2,600,000 bushels capacity respectively. (The capacity of the latter terminal was increased from 2,000,000 bushels because of the desirability of having additional storage available in war time.) These terminals are designed to receive wheat from railway trucks at the rate of 20,000 bushels per hour and to load into ships at 64,000 bushels per hour. When the whole system is completed the storage capacity will amount to 23,000,000 bushels.

The first section of the scheme, which embraces the western portion of the State bounded on the east by the Melbourne-Mildura railway line, came into operation at the beginning of the 1939-40 season when 48 country elevators with a storage capacity of 5,385,000 bushels, the Geelong terminal elevator with a capacity of 2,250,000 bushels, and 6 private elevators with a capacity of 980,000 bushels which were leased by the Board at country stations, were opened for the receival of wheat in bulk. The receivals for the season amounted to 10,782,190 bushels.

The terminal at Geelong, although brought into operation before the final stages of construction work were completed, functioned satisfactorily. Shipments of up to 8,314 tons of bulk wheat were loaded in 22 hours. The results of all operations during the season are regarded as satisfactory and the change from bag to bulk handling was effected with very little inconvenience and in most cases at no expense to growers. Although growers were required by the Act to deliver only 75 per cent. of their wheat through the system, in many cases they delivered almost 100 per cent.

Construction of elevators at country stations included in the first section of the scheme is proceeding and it is expected that the whole of this section serving the Geelong terminal will be in operation for the 1940-41 harvest. At the Williamstown terminal the construction of the foundations have been completed and tenders for the construction of the superstructure have been invited. Plans for the construction of elevators at 61 country stations serving this terminal are well advanced and it is expected that tenders for this second portion of the system will be invited in the near future.

The principal wheat growing areas are in the Wimmera, W heat growing in Mallee, and Northern districts. In the season 1938–39 counties. these districts were responsible for 92 per cent. of the total wheat production of the State. Although other districts provide only small proportions of the total area, they are not to be regarded as unsuitable for wheat growing, as their average yield per acre is usually greater than in the areas mentioned. The yield in 1938-39, because of prevailing drought conditions, was only 18,104,369 bushels, or an average yield per acre of 6.59 bushels, in comparison with an average of 15.26 bushels over the five-year period 1933-34 to 1937-38. Other droughts occurred in Victoria during the seasons 1914-15 and 1919-20, when average yields per acre were 1.38 bushels and 7.75 bushels respectively. The area sown and the production of wheat for grain in different counties for each of the three seasons, 1937-39, are shown in the following table:—

VICTORIA—WHEAT AREAS AND YIELDS IN COUNTIES FOR THE THREE SEASONS, 1937–1939.

	Year ended March.										
Districts and Counties.		Area.			Average per Acre.						
	1937.	1938.	1939.	1937.	1938.	1939.	1937.	1938.	1939		
	acres.	acres.	acres.	bushels.	bushels.	bushels.	bush.	bush.	bush		
Central—	F 000	7,083	1.477	111,301	142,009	57,780	19.00	90.05	19.09		
Bourke Grant	5,883 12,701	16,494	$\frac{4,471}{11,496}$	243,416		155,686	19.17	20 05	13.54		
Mornington.	846	1,306	216	17,286			20.43				
Evelyn	58	73	57	1,505			25.95				
Total	19,488	24,956	16,240	373,508	502,002	219,110	19.17	20.12	13.49		
North-Central—	000	75.	400	11.050	15 000	4.01.4	13.40	20.05	10.03		
Anglesey Dalhousie	$\frac{892}{1,408}$	$\frac{774}{1,808}$	490 829	11,950 28,806		10.654					
Talbot	14,913	18,989	13,276	302,288		109,178					
Total	17,213	21,571	14,595	343,044	476,038	124,746	19.93	22.07	8:55		
10001		21,011									
Western-											
Grenville	5,050	6,199	4,945	97,223		76,832					
Polwarth	64	132	31	1,740	2,962	379	27.19	22.44	12.59		
Heytesbury	4,247	6,636	${6.157}$	109,251	167,400	105,615	25:72	25 23	17:15		
Ripon	15,015	22,084	19,504	372,566	645,431	373,788	24.81	29.23	19:16		
Villiers	395	985	1,054	8,145	21,493	17,703	20.62	21.82	16.80		
Normanby	745	832	552	16,034	18,470	10,100	21.52	22.20	18.30		
Dundas	1,502	2,341	1,480	32,782	49,958	22,408	21.83	21.34	15.14		
Follett	204	253	225	3,242	3,749	3,919	15.89	14.82	17.42		
Total	27,222	39,462	33,948	640,983	1,053,375	610,744	23.55	26.69	17.99		
Wimmera— Lowan	188,189	209,577	901 509	4 141 459	5,012,598	2,507,471	22:01	23.92	12.44		
70	447,352	487,656			12,515,822	5,115,822	24 • 41	25.67	10.59		
Kara Kara	120,718	141,964			3,121,252	1,265,036	23.14	21.99	8.38		
Total	756,259	839,197			20,649,672	8,888,329	00.01	04.61	10.60		

VICTORIA—WHEAT AREAS AND YIELDS IN COUNTIES FOR THE THREE SEASONS. 1937–1939—continued.

				· · · · · · · · · · · · · · · · · · ·					
				Year ende	i March.				
Districts and Counties.		Area.			Produce.	-	Avera	ge per	Acre.
	1937.	1938.	1939.	1937.	1938.	1939.	1937.	1938.	1939.
Malla.	acres.	acres.	acres.	bushels.	bushels.	bushels.	bush.	bush.	bush.
Mallee Millewa	108,157	103.065	101.892	778,783	996.211	97.080	7.20	0.67	.95
***	156,334	164,848	168,513	1,731.578	2,101,828	1.157.026			6.87
Weean Karkarooe	547,534	603.073	670,920		8,424,302	2,609,725			3.89
Tatchera	310,487	344,178	394,993	4,794,018	3,894,548	972,394			
rauchera	010,401	544,175	394,999	4,794,010	3,094,540	012,004	10 11	11 32	2 40
Total	1,122,512	1,215,164	1,336,318	14,564,764	15,416,889	4,836,225	12.98	12.69	3.62
Northern-									
Gunbower	16,274	20.118	21.273	266,391	217,030	41.372	16.27	18.79	1.94
Gladstone	83,442	103,527	109,604	1,601,750	2,000,698	678,518			
Bendigo	77,904	94,764	93,515	1.486.805	1,548,645	314,308	19.09	16 . 34	3.36
Rodney	49,942	64,279		1,086,309	1,111,147	242.118			
Moira	198,199	230,278	196,615	4.156,295					
Total	425,761	512,966	487,850	8,597,550	9,281,910	2,990,345	20.19	18.09	6.13
North-Eastern-									
Delatite	2,388	3,157	2.469	46,769	76.552	56 068	19.59	24.25	22.71
Bogong	19,220	25,300.	16,755	360,456					
Benambra	189	255	87		4,881			19.14	
Wonnangatta				0,102					
Total	21,797	28,712	19,311	410.407	715,342	389,366	18.83	24 • 91	20.16
					110,512				
Gippsland—							-		1
Croajingolong		9	5		107			11.89	
Tambo	5	40	17	90				14.68	
Dargo	78	141		747				20.57	
Tanjil	3,129	3,434	3,930	54,096				19.21	
Buln Buln	363	405	295	5,734	8,397	$_{ }$ 2,923	15.80	20.73	9.91
Total	3,575	. 4,029	4,302	60,667	77,963	45,504	16.97	19.35	10.58
Total (State)	2,393,827	2,686,057	2,748,362	42,844,816	48,173,191	18,104,369	17.90	17.93	6.59
~	1					ſ	İ		

The production of wheat in the other Australian States in 1938–39 was as follows:—New South Wales, 59,898,000 bushels; South Australia, 31,674,000 bushels; Western Australia, 36,844,000 bushels; Queensland, 8,584,000 bushels: and Tasmania, 205,000 bushels. The total production for the Commonwealth was 155,369,000 bushels.

Monthly Rainfall and Average Yields each of the main wheat growing counties for the years of Wheat 1928 to 1939 is shown in conjunction with the approximate mean rainfall recorded each month. The rainfall during the growing season is shown separately to indicate its effect on wheat production. While the table is useful as a general reference in respect of the relationship of wheat yields to rainfall, it should be remembered that temperatures, winds, and other factors such as the extent to which fallowing, rotational cropping, and fertilizing are practised have also considerable effect on average yields, as do also the varieties of wheat used.

VICTORIA--RAINFALL AND AVERAGE WHEAT YIELD PER ACRE IN WHEAT-GROWING COUNTIES FOR THE YEARS 1928 TO 1939.

						Apj	proximat	e Mean I	Rainfall e	ach Mon	ith.				<u> </u>		
County	and	Year.	Jan.	Feb.	Mar.	April.	May.	and the same of th	Wh	eat-grow				Dec.	Total for Year.	Total Wheat- growing- Period.	
								June.	July.	Aug.	Sept.	Oct.	Nov.		!	l carou.	por rece.
r			Points.	Points.	Points.	Points.	Points.	Points.	Points.	Points.	Points.	Points.	Points.	Points.	Points,	Points.	Bushels.
Lowan 1928			152	279	89	170	164	199	216	51	228	361	47	16	1,972	1,102	20:40
1929			89	70	89	179	131	271	172	175	140	115	61	262	1,754	934	18.27
1930			1	117	20	139	98	31	303	294	218	253	147	462	2,083	1,246	19.16
$\frac{1931}{1932}$	• •	• • •	44 1	263	94 186	222 248	$\frac{256}{105}$	$\frac{364}{258}$	226 232	$\frac{233}{232}$	167 126	$\frac{25}{146}$	79 58	29	1,743	1,034	16.15
1933	• •		137	203	82	135	367	104	92	194	286	82	337	$\frac{83}{225}$	$\frac{1,938}{2,043}$	1,052 1,095	$\frac{17.59}{17.01}$
1934			36	37	39	203	5	79	149	190	229	362	267	38	1,634	1,276	15.35
1935			64	-10	167	129	158	232	288	237	239	92	97	72	1,785	1,185	20.12
1936			161	11	68	42	157	287	401	260	98	220	34	265	2,004	1,300	22.01
1937 1938	• •	٠.	226	87	114	55	155	93	107	256	205	152	43	247	1,740	856	23.92
$\frac{1938}{1939}$			119 161	$\frac{152}{123}$	$\frac{33}{28}$	$\frac{236}{187}$	27 201	212 194	189 122	88 389	$\frac{78}{126}$	$\frac{27}{115}$	80 253	20 50	1,261	674	$\frac{12.44}{20.05}$
Rorung	• •	• •	101	123	20	101	201	194	122	589	126	115	253	50	1,949	1,199	20.05
Borung— 1928			198	373	245	114	107	202	148	27	183	298	16	17	1,928	874	18.16
1929			59	90	85	164	84	197	96	143	85	112	64	219	1,398	697	7.23
1930			1	106	23	99	150	41	263	290	124	367	147	475	2,086	1,232	13.74
1931	• •		40	5	179	291	249	432	162	155	145	31	196	60	1,945	1,121	16.44
1932 1933	• •		$\begin{array}{c} 1 \\ 178 \end{array}$	245	$\frac{197}{71}$	$\frac{291}{127}$	$\frac{105}{281}$	$\frac{199}{113}$	$\frac{211}{188}$	231 186	$\frac{97}{270}$	144	67	80	1,868	949	21.63
1934	• •		55	95	20	168	281 5	50	$\frac{188}{172}$	171	171	87 360	$\frac{219}{345}$	299 32	$\frac{2,019}{1,644}$	$1,063 \\ 1,269$	20·78 17·60
1935			36	26	118	147	92	144	299	201	281	136	48	71	1,599	1,109	23.29
1936			224	5	45	29	215	190	471	219	55	180	28	268	1,929	1,143	24.41
1937			193	99	87	21	114	128	77	187	145	291	42	278	1,662	870	25.67
1938	• •	• • •	168	89	13	132	38	183	211	62	42	15	59	7	1,019	572	10.29
1939 Kara Kara	٠.	• •	97	208	12	261	267	172	120	308	95	76	273	25	1,914	1,044	.18.01
1928	а		290	375	210	98	109	220	166	35	177	070		10	1 000	00#	17.00
1929			57	139	80	160	73	194	86	156	$\frac{177}{82}$	$\frac{276}{128}$	13 78	19 167	$1,988 \\ 1,400$	887 724	17·32 5·95
1930			i	131	31	79	191	56	250	283	116	372	97	546	2,153	1,174	10.35
1931 1932			$2\overline{3}$	8	218	246	303	461	191	144	160	34	210	35	2,033	1,200	13.45
1932			1	189	256	346	98	242	222	294	94	120	56	89	2,007	1,028	18-17
1933		• •	160		53	132	261	120	277	175	245	104	295	424	2,246	1,216	19.25
$\frac{1934}{1935}$		• •	66	159 .43	20 113	163 212	1	51	206	187	167	395	307	50	1,772	1,313	15.53
1935			76 227	.43	21	46	98 151	142 168	877 500	$\frac{189}{252}$	294 47	$\frac{226}{199}$	37 36	71	1,878	1,265	25.08
1937	• •		222	95	42	19	129	98	76	229	135	332	36 26	269 258	1,919 1,661	1,202 896	23·14 21·99
1938			132	86	13	123	28	225	201	68	37	16	55	4	988	602	8 38
1939			93	293	32	518	279	191	118	323	107	88	280	25	2,347	1,107	22.91

VICTORIA—RAINFALL AND AVERAGE WHEAT YIELD PER ACRE IN WHEAT-GROWING COUNTIES FOR THE YEARS 1928 TO 1939—continued.

		.			Anı	nraximat		Rainfall	each Ma						1	
County and	Year.							neat-grow					i !	Total for Year.	Total Wheat- growing	A verage Wheat Yield
		Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	T car.	Period.	per Acre
Millewa-		Points.	Points.	Points.	Points.	Points.	Points.	Points.	Points.	Points.	Points.	Points.	Points.	Points.	Points.	Bushels.
1928		36	441	106	36	47	170	- 88	13	68	68	3	25	1,101	454	3.43
1929		12	193	33	16	13	36	37	43	61	25	94	288	851	215	.02
1930		15	47	115	39	142	4	129	209	74	259	68 -	208	1,309	817	11.06
$1931 \dots$		25	2	128	202	150	287	. 92	61	154	69	106	30	1,306	813	8.35
1932		17	220	131	110	151	233	98	215	59	45	22	81	1,382	801	12.05
1933		153	1	19	21	114	23	121	144	143	59	213	142	1,153	604	5.76
1934		57	61	56	48		31	71	63	84	289	146	29	935	538	1.23
1935		51	5	74	110	40	62	100	71	121	130	4	-59	827	524	3 23
1936	• •	426	16	43	58	114	64	245	55	19	74	12	162	1,288	571	7.20
1937	• •	196	10	47	30	71	185	68	191	36	163	30	127	1,154	714	9:67
1938		122	37	2	63	34	26	186	45	5	29	10		559	325	95
1939	• •	6	367	37	34	126	118	69	154	67	87	259	1	1,325	621	9 '20
Weeah— 1928		1													220	0.00
4000	• •	110	253	122	117	73	184	99	29	101	204	1	22	1,315	690	8 · 26 2 · 49
1000		24	39	45	49	50	97	46	80	56	. 32	67	191	776	361	10.10
1001	• •	1	39	29	56	158	16	181	181	73	359	76	332	1,501	968	9.84
1000	• • •	28	900	96	151	180	280	90	105	181	39	100	20	1,270	875 788	9.36
	• •	141	292	139 45	143	104	192	148	200	64	80	15 127	88	1,472	712	8.36
1004	• •	69	64	34	48	192	33	122	147	150	68		185	$1,258 \\ 1,163$	678	6.52
4004	• • •	26	2	67	95	72	31	105	105	114	$\frac{323}{183}$	191 31	32	1,163	770	10.03
1935 1936	• •	431	11	50	98 64	101	$\frac{121}{122}$	$\frac{142}{334}$	114 95	$\frac{138}{24}$	160	18	$\begin{array}{c} 52 \\ 207 \end{array}$	1,617	836	11.08
1937	• • •	139	43	101	11	63	135	92	211	63	215	36	196	$\frac{1,017}{1,305}$	779	12.75
1938	• •	123	85	1	158	6	85	189	57	10	7	44	8	$\frac{1,303}{772}$	354	6.87
1939		32	214	6	103	119	131	77	187	36	27	221	5	1,158	577	7.71
Karkarooc-	• •				100	11.0	191	"	101	30	21	221	9	1,100	917	
1928		111	295	152	89	57	156	88	23	108	145	3	15	1,242	577	$7 \cdot 79$
1929		21	69	34	109	30	76	29	81	52	31	79	191	802	299	2.26
1930		5	22	44	31	188	iĭ	142	172	59	317	79	370	1,440	889	8.06
1931		26	2	163	255	230	$3\tilde{2}\tilde{4}$	110	51	152	62	90	4	1,469	929	9.37
1932		5	259	137	157	97	205	125	186	80	64	16	84	1,415	757	10.30
1933		117		27	33	154	40	200	134	148	66	168	252	1,339	742	8.96
1934		41	144	46	100	i	41	111	78	100	305	214	16	1,197	636	5.75
1935		38	9	70	93	46	107	136	74	145	173	18	69	978	681	9.65
1936		315	4	23	54	120	132	329	93	25	128	11	186	1,420	827	13.26
1937		179	36	55	12	83	175	62	179	41	285	26	176	1,309	825	13.97
1938		102	49	4	60	20	78	175	61	6	25	17	1	598	365	3.89
1939		24	375	34	135	169	149	85	173	59 l	45	234	2	1,484	680	12.93

VICTORIA—RAINFALL AND AVERAGE WHEAT YIELD PER ACRE IN WHEAT-GROWING COUNTIES FOR THE YEARS 1928 TO 1939—continued.

					1040	, 10.10		710001000	···						
				Ap	proximat	e Mean	Rainfall	each Mo	nth.						i
County and Year.						Wi	neat-grov	ving Mon	ths.			: :	Total for Year.	Total Wheat- growing Period.	Average Wheat Yield per Acre.
	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.		Torrous	per recie.
	Points.	Points.	Points.	Points.	Points.	Points.	Points.	Points.	Points.	Ponts.	Points.	Points.	Points.	Points.	Bushels.
Tatchera— 1928 1929 1930 1931	. 17 . 1 43	329 111 35 1	172 79 56 176	93 130 27 294	72 33 186 315	170 100 20 3J9	84 28 144 97	30 101 149 37	109 61 76 139	179 71 319 69	9 60 76 86 29	15 180 527 2 89	1,574 971 1,616 1,578	644 394 894 976	8·84 2·30 7·79 10·23
1932	$\begin{array}{c c} . & 121 \\ . & 47 \\ . & 73 \\ . & 210 \end{array}$	250 1 226 59 10	167 37 40 60 6	243 29 135 150 43	97 153 41 138	185 97 43 90 144	160 235 120 194 393	222 138 116 . 66 113	111 181 89 202 25	69 84 323 287 142	119 266 29 8	316 29 41 189	1,623 1,511 1,434 1,292 1,421	844 888 691 880 955	13.02 11.25 6.42 12.39 15.44
1937 1938 1939 Gunbower— 1928	. 100	43 49 394 291	14 1 34 236	11 42 165	82 17 247	128 117 154	46 165 99 88	148 68 178	38 5 87 99	302 15 54 212	11 13 220 8	91 1 4	1,070 593 1,655 1,872	744 387 819	11:32 2:46 17:03 9:84
1929	. 19 . 48 . 1	103 15 1 199	50 94 172 213	187 27 290 254 30	37 211 237 123 157	124 37 297 200 183	21 132 104 195 236	140 160 45 229 199	100 79 108 84 193	124 262 96 94 109	41 64 106 67 186	160 617 97 286	1,106 1,698 1,504 1,756 1,742	546 881 887 925 1,077	7:21 7:74 11:84 14:48 14:82
1933	. 110 . 87 . 168	261 121 24 46	72 51 68 12 5	153 190 83 44	69 121 89	54 109 164 95	149 250 431 44	166 89 162 158	83 240 38 77	314 254 158 215	$261 \\ 30 \\ 16 \\ 11$	51 79 271 79	1,653 1,586 1,648 1,001	766 1,011 1,074 678	8:59 17:45 16:37 10:79
1938 1939 Gladstone—	. 104	66 400 326	$\begin{vmatrix} 1 & 1 \\ 85 & 237 \end{vmatrix}$	39 200 90	$17 \\ 192 \\ 122$	157 176 221	184 105 138	203 32	9 96 146	94 255	27 235 10	1 8 20	671 1,806 1,961	433 866 914	1.94 18.14 15.24
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$. 44 	118 91 5 186	39 100 198 291	126 59 305 364	50 282 367 127	177 46 427 222	42 204 169 222	144 229 108 283 200	72 95 164 109 236	118 338 32 106 105	70 106 237. 60 259	145 622 28 91 419	1,145 2,172 2,077 2,063 2,205	1,194 1,267 1,069	5.60 13.94 9.91 14.99 17.01
1934 1935 1936	. : 196	188 62 5 75	44 22 87 13 27	103 173 185 44 34	92 157 103	145 60 146 143 93	315 223 371 548 57	156 161 191 196	142 275 40 103	105 416 247 194 333	293 22 24 21	53 73 207 193	1,805 1,811 1,762 1,444	1,227 997 1,292 1,273 885	12.06 22.29 19.20 19.33
1000	103	56 350	8 38	91 431	30 293	193 208	$\frac{211}{127}$	72 272	25 97	13 76	39 303	4 15	845 2,282	544 1,073	$\frac{6.19}{20.05}$

VICTORIA—RAINFALL AND AVERAGE WHEAT YIELD PER ACRE IN WHEAT-GROWING COUNTIES FOR THE YEARS 1928 TO 1939—continued.

	1			Ap	proximat	e Mean	Kainfall	each Moi	nth.						
County and Year.			-			Wh	eat-grow	ng Mont	hs.				Total for Year.	Total Wheat- growing	Average Wheat Yield
	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.		Period.	per Acre.
Y. 11	Points.	Points.	Points.	Points.	Points.	Points.	Points.	Points.	Points.	Points.	Points.	Points.	Points.	Points.	Bushels.
Bendigo— 1928	552 33 48 2	283 152 68 4 151	321 17 90 311 306	76 216 42 295 370	141 41 292 325 121	258 148 34 437 222	106 21 173 194 205	32 159 193 99 286	127 60 85 155 104	227 94 321 63 122	28 66 101 187 37	36 129 613 1 100	2,187 $1,136$ $2,012$ $2,119$ $2,026$	891 523 1,098 1,273 1,060	15.66 8.47 15.30 10.89 16.44
1933 1934 1935 1936	173 128 120 127 128 98	184 116 19 93 63	74 28 66 10 8	43 127 237 78 111 54	200 2 63 164 116 30	185 64 114 147 94 208	327 169 335 454 61 188	228 136 119 177 176 49	205 94 259 40 97 10	106 390 308 192 192	249 292 34 29 13	311 66 66 261 99 2	2,101 1,680 1,837 1,698 1,188 750	1,251 855 1,198 1,174 736 492	17:13 10:60 19:84 19:09 16:34 3:36
1939 Rodnev—	55	400	109	412	221	231	104	261	93	106	244	17	2,253	1,016	18.46
1928 1929 1930 1931	384 33 44	471 125 44 6 63	343 47 94 304 298	138 392 41 287 415	178 58 258 291 69	294 131 22 434 277	129 24 170 187 217	37 165 218 111 265	123 91 117 151 160	253 72 323 127 119	9 79 102 170 54	24 183 528 1 66	2,383 1,400 1,917 2,113 2,004	1,014 541 1,108 1,301 1,107	16.66 13.05 15.69 12.33 16.66
1933 1934 1935	1 89 290 107 182	265 173 28	104 58 78 6	13 151 346 176	210 1 63 86	209 65 138 179	303 181 324 451	$170 \\ 186 \\ 142 \\ 225$	226 102 301 67	171 403 270 217	134 332 35 49	228 122 45 281	1,857 $2,156$ $2,022$ $1,947$	1,289 938 1,238 1,225	18·46 12·74 21·37 21·75
1937	164 120 45	73 104 481	19 5 212	51 55 621	159 32 200	131 275 311	78 151 139	163 80 388 46	107 14 132	203 10 153 234	14 30 236 8	94 2 25	1,256 878 2,943 2,098	841 562 1,323	17·29 3·62 17·30
1928	270 30 70 2 93	417 119 26 19 59 2	320 125 65 334 278 70	140 352 65 268 369 37	173 87 224 378 39 194	123 30 487 242 202	39 146 188 236 247	$\begin{array}{c} 159 \\ 242 \\ 128 \\ 280 \\ 163 \end{array}$	136 105 152 192 261	99 335 178 115 149	75 111 189 105 142	162 511 6 90 296	1,506 1,860 2,397 2,007 1,856	643 1,082 1,511 1,104 1,216	16·16 14·28 15·43 18·91 17·83
1934 1935 1936 1937 1938	431 115 165 206 96 22	221 133 36 68 71 548	163 106 23 33 3 297	218 380 228 58 83 676	57 81 145 54 120	77 153 256 148 292 401	207 300 454 91 170 165	234 160 271 204 149 459	118 253 79 121 27 150	436 316 191 278 13 271	391 24 50 43 9 221	140 113 256 102 3 20	2,636 2,110 2,090 1,497 970 3,350	1,072 1,239 1,332 987 705 1,566	14·29 22·67 20·97 19·13 8·72 12·94

WHEAT GROWING IN CONJUNCTION WITH SHEEP-GRAZING AND DAIRYING.

For the season 1935-36, statistics showing the extent to which mixed farming was practised in conjunction with wheat growing were compiled in respect of each State in the Commonwealth. The tabulations were prepared by the Commonwealth Statistician from

data prepared by each State.

An analysis of the tables for the State of Victoria for that season discloses that wheat for grain was grown on 13,780 holdings. The total area of these holdings was 12,482,336 acres, and the area actually sown with wheat for grain 2,323,753 acres. On 9,974 holdings, or 72.4 per cent. of the total growing wheat for grain, there were 4,841,152 sheep, or 27.7 per cent. of the State's total of 17,457,291 sheep at 1st March, 1936.

On 11,787 of the holdings growing wheat for grain, or 85 5 per cent. of the total, there were 109,049 dairy cows at 1st March, 1936. Pigs numbering 41,100 were held on 5,482 holdings which also grew wheat

for grain.

The following table shows the total area of holdings growing wheat for grain with particulars of wheat growing, sheep, dairy cattle, and pigs thereon.

VICTORIA—HOLDINGS GROWING WHEAT FOR GRAIN TOGETHER WITH SHEEP, DAIRY CATTLE, AND PIGS THEREON, SEASON 1935–36.

Area	Hol	dings.	Wheat.	Sh	neep.	Dairy	Cows.	Pi	gs.
under Wheat for Grain.	Growing Wheat Grain.	Total Area.	Total Area.	Hold- ings With,	Total.	Hold- ings With.	Total.	Hold- ings With.	Total.
Acres. 1- 19 20- 49 50- 99 100- 149 150- 199 200- 249 250- 299 300- 349 350- 399 400- 499 700- 799 800- 899 900- 999	No. 1,729 1,472 1,820 1,850 1,542 1,886 989 1,080 399 560 241 125 39 16 14	Acres. 1,011,373 949,722 1,285,193 1,448,355 1,264,846 1,799,769 1,261,622 497,697 865,676 451,036 312,496 106,036 50,307 41,339 73,746	Acres. 15,444 48,690 126,973 218,237 258,255 401,202 261,950 334,376 145,424 238,013 125,985 77,504 27,990 13,020	No. 1,182 1,065 1,317 1,369 1,120 1,311 691 773 299 436 213 116	No. 650,532 562,368 702,466 645,561 458,689 513,366 290,706 327,333 117,130 227,660 111,546 37,469 14,803 28,107	Nc. 1,630 1,264 1,487 1,537 1,275 1,559 847 926 354 490 218 118 37 14 13	No. 28,705 16,964 15,611 12,363 8,301 9,267 4,997 2,061 3,134 1,263 851 279 103 79 146	No. 876 593 658 670 527 176 251 101 59 19 5 7 7	No. 11,918 6,344 4,549 2,371 1,773 2,590 796 1,327 474 284 414 14
1,250-1,499 1,500-1,749	1 1	5,632 5,800	$\begin{array}{c} 17,030 \\ 1,270 \\ 1,600 \end{array}$	1 1	1,532 1,300	1 1	24 34	. i	2
Total	13,780	12,482,336	2,323,753	9,974	4,841,152	11,787	109,049	5,482	41,100

An analysis of the wheat productivity of each State was also made by the Commonwealth Statistician from data prepared by the State Statisticians. In respect of the State of Victoria the analysis shows that, although the average yield per acre for the State was 16·16 bushels, there were 2,607 holdings upon which 566,678 acres were sown with wheat for grain and from which yields of less than nine bushels per acre were obtained.

The following table shows the complete Victorian wheat production in bag series per acre for the season 1935-36:—

VICTORIA—WHEAT PRODUCTION PER ACRE 1935-36.

Proc	luction Serie	s	W	heat (for Grain)	Production in Se	ries.
	hels per Acre		Holdings.	Area Grain.	Production.	Production.
			No.	Acres.	Bushels.	Bags.
Under 3			73 9	184,450	270,891	88,526
3 and un	der 6	• •	797	171,639	753,265	246,165
6 "	9		1,071	210,589	1,549,059	506,228
9 ,,	12		1,253	228,869	2,397,195	783,397
12 ,,	15		1,472	248,603	3,328,454	1,087,730
15 ,,	18		1,856	275,197	4,519,868	1,477,081
18 "	21		1,865	266,811	5,231,646	1,709,688
21 ,,	24		1,550	235,821	5,315,204	1,736,995
24 ,,	27	• •	1,477	228,024	5,827,043	1,904,262
27 ,,	3 0		808	140,029	3,993,835	1,305,175
30 ,,	33		635	100,468	3,147,335	1,028,541
33 ,,	36		128	17,346	604,102	197,419
36 ,,	39		96	12,615	470,266	153,682
39 "	42		19	2,035	83,260	27,209
42 "	45		6	467	20,358	6,653
45 ,,	48		6	385	18,253	5,965
48 and ov	er	••	2	405	22,032	7,200
То	tal		13,780	2,323,753	37,552,066	12.271,916

Particulars of wheat productivity and of mixed farming associated with wheat growing in respect of any county or district in Victoria for the season 1935-36 may be obtained upon application to the Victorian Government Statist.

Varieties of Wheat. The following statement shows the areas under the principal varieties of wheat, including wheat for hay, for the seasons 1936–37 to 1938–39. The varieties are tabulated in order of popularity for the last-mentioned season. The percentages shown indicate the fluctuation which has taken place amongst the popular varieties.

Over 100 varieties of wheat were sown. The number which was tried in the Mallee greatly exceeded that experimented with in any other district. A more extended list showing the area and percentage of each variety, and the ten principal varieties grown in the wheat-growing districts, can be obtained on application to the Government Statist.

VICTORIA—VARIETIES OF WHEAT SOWN IN EACH OF THE SEASONS, 1936-37, 1937-38, AND 1938-39.

		1936-	-37.	1937-	-38.	1938-	39.
Variety (in ord popularity, Ser 1938–39).		Area Sown.	Percent- age of total Area Sown.	Area Sown.	Percent- age of total Area Sown.	Area Sown.	Percent- age of total Are Sown.
		Acres.		Acres.		Acres.	
Ghurka		1.113,780	45.15	1.250,623	45.05	1,436,646	47.78
Ranee (incl. 4H)	• • •	550,301	22 31	573,268	20.65	612,733	20.38
Dundee	• •	69,523	2.82	249,342	8.98	319,291	10.62
Free Gallipoli	• •	363,530	14.74	323,001	11.63	252,758	8.41
	• •	30,439	1.23	63,820	2.30	87,194	2.90
7		79,027	3.20	61,827	2.23	59,425	1.98
n 'i ."	• •	17,998	.73	31,279	1.13	35,305	1.17
D. 1.1		37,331	1.51	36.011	1.30	34,225	1.14
17 . 1	• •	37,380	1.52	25,901	.93	20,355	-68
1 F . T	• •	21,165	.86	23,497	.85	18,247	•61
NT		13,567	-55	13,576	49	14,005	.47
Mac's White	• •	12,203	•49	11,335	•41	13,873	•46
Turvey		12,097	49	13,516	•49	11,258	•37
Baldmin		2,422	.10	5,310	•19	10,322	• 34
Federation	• •	16,888	.68	12,085	•44	10,054	•33
Waratah		12,568	•51	11,140	•40	9,154	•30
Baringa		5,799	•24	10,120	•36	7,695	•26
Warden		8.707	•35	7,005	.25	7.076	.24
Mogul		5,123	•21	6,412	•23	5,616	.19
Ford		2,513	10	2,745	•10	3,151	•10
C.M.G.		1,744	•07	2,502	.09	3,145	•10
Gluvas		4,147	•17	2,840	•10	2,740	•09
Sword		2.914	•12	3,066	·11	2,554	.09
Bena		4.781	•19	3,778	14	2,403	•08
Currawa		7,589		3,727	.13	2,321	.08
Other Varieties	• ::	33,128		28,575	1.02	25,655	-83
Total		2,466,664	100.00	2,776,301	100.00	3,007,201	100.00

The most interesting feature of the above statement is the rise and fall in popularity of certain varieties. For the season 1938–39, increased areas were sown with Ghurka, Dundee, Bencubbin, and Bobin as compared with 1936–37, while decreases took place in respect of Free Gallipoli, Nabawa, and Sepoy.

Many changes have also taken place in the leading varieties of wheat in other Australian wheat-growing States during recent years. In New South Wales, Ford and Nabawa occupied very minor positions on the list in 1929, but have now risen to first and third places respectively. Dundee now occupies second place in that State. On the other hand, Nabawa, which was the leading variety with 47 per cent. of the total area sown in Western Australia in 1929, has declined to seventh place on the list, with only 4.77 per cent. of the area sown in 1938. In South Australia the area sown with the varieties Ranee, Nabawa, and Sword was only 3.72 per cent. of the total area sown in 1929, but the area now sown with these varieties amounts to 41.73 per cent. of the total area sown. Free Gallipoli became the leading variety in Victoria in 1929–30, and continued as such until the season 1934–35, when it was superseded by Ghurka.

PRINCIPAL VARIETIES OF WHEAT SOWN IN AUSTRALIAN STATES, 1938-39.

New South	Wales.	Victoria	•	South Aus	tralia.	Western Au	stralia.
Variety.	Percentage of Total Area.	Variety.	Per- centage of Total Area.	Variety.	Per- centage of Total Area.	Variety.	Percentage of Total Area,
Ford Dundee Nabawa Bencubbin Waratah Baringa Ranee All Other	19·41 15·94 14·60 14·57 5·59 5·21 4·02 20·66	Ghurka Ranee Dundee Free Gallipoli Bencubbin Sepoy Bobin All Other	47.78 20.38 10.62 8.41 2.90 1.98 1.17 6.76	Ranee Nabawa Bencubbin Sword Dundee Waratah Gluyas All Other	23·13 9·87 8·77 8·73 8·27 5·29 5·05 30·89	Bencubbin Gluclub Merredin Gluyas Early Totadgin Noongaar Nabawa All Other	36.69 13.87 8.61 5.76 5.71 5.48 4.77 19.11
Total	100.00		100.00		100.00		100.00

VICTORIA—DISTRICT PERCENTAGE OF TOTAL AREA UNDER WHEAT, AND ESTIMATED QUANTITY OF SEED AND FERTILIZERS USED PER ACRE 1937-38.

				Percentage	Weight p	er acre of-
	District.			(according to acreage) of total area in the State.	Seed Sown.	Fertilizers Used.
					lb.	lb.
Central				1.08	95	103
North-Centra	ul			96	103	109
Western	• •			1.50	89	139
Wimmera	• •			31 12	75	87
Mallee	• •			44.41	58	62
Northern	• •			19 67	71	84
North-Easter	rn	• •		1.10	75	101
Gippsland	• •	• •	••	16	86	105
Т	otal State			100.00	67	77

The rate of sowing for the season 1937–38 in the principal wheat-growing counties, ranged from 44 lb. of seed per acre in the County of Millewa to 88 lb. in Ripon. Manure used varied from 40 lb. per acre in Millewa to 133 lb. in Ripon. On 52,983 acres sown to wheat, of which 41,773 acres were in the Mallee district, no manure at all was used. Superphosphates used on wheat areas in the season 1938–39 amounted to 92,266 tons, the value of which at country railway stations was £373,700.

The large area of land fallowed for the next season's cropping operations is a feature of the three wheat-growing districts. Of the 2,543,225 acres in fallow during the season 1938–39, 1,008,152 were in the Mallee, 894,580 in the Wimmera, and 446,712 in the Northern districts. The total area of fallow in these three districts—2,349,444 acres—represented 92 per cent of the land fallowed in the State.

The following table shows the acreage in fallow in various years, together with the area sown to wheat in each succeeding season:—

VICTORIA-LAND IN FALLOW AND WHEAT SOWN.

	Season.		Land in Fallow.	Se	ason.		Area Sown to Wheat.
			acres.				acres.
1901-02			681,778	1902-03			2,155,928
1911-12			1,469,608	1912-13			2,471,586
1921-22			2,052,964	1922-23		٠	2,857,533
1927-28			2,692,044	1928-29			3,854,622
1928-29			2,683,462	1929-30			3,731,699
929-30			2,482,662	1930-31			4,788,560
930-31			2,590,629	1931-32	• •		3,705,555
931-32			2.145,819	1932-33			3,320,504
932-33			2,633,287	1933-34			3,208,619
933-34			2.543.043	1934-35			2,576,019
934-35			2,216,464	1935-36			2,401,548
935-36			$2,\!358,\!777$	1936-37			2,466,664
936-37			2,483,163	1937-38			2,776,301
937-38			2,604,556	1938-39			3,007,201
938-39	••	• •	2,543,225	1939-40			2,923,027
1939–40			2,377,405				1

Wheat standard. The weight of an imperial bushel of wheat is 60 lb., but the actual weight of a bushel of Victorian wheat of fair average quality standard is determined annually by the Chamber of Commerce.

The following table shows the standard determined in Victoria for each of the ten seasons, 1930-31 to 1939-40:—

. :	Season.	Weight of Bushel of Wheat, f.a.q.		Season.		Weight of Bushel of Wheat, f.a.q.
		lb.		-	-	lb.
1930-31		 581	1935-36			63 l
1931-32	• •	 $62\frac{3}{4}$	1936-37	• • • • • • • • • • • • • • • • • • • •	•••	62°
1932-33		 62*	1937-38	• • •	••	631
1933-34		 60	1938-39		••	$64\frac{1}{3}$
934-35		60	1939-40	• •	::	$63\frac{1}{5}$

Farmers
growing Wheat
engaged in the growing of wheat for grain.

The following statement shows the number of farmers
for Grain.

VICTORIA—NUMBER OF FARMERS WHO PLANTED TWENTY OR MORE ACRES OF WHEAT FOR GRAIN, SEASONS 1933-34 TO 1938-39

1933-34.	1934-35.	1935–36.	1936-37.	1937-38.	1938-39.
14,319	12,582	12,051	12,090	12,936	12,305

It is estimated that about 14,500,000 bushels of wheat wheat and flour in the State at 31st October in each of the five years, 1935-1939, were as follow:—

VICTORIA-STOCKS OF WHEAT AND FLOUR.

*			-	Quantity in Bushels.					
At 31st October —			Wheat,	Flour (equivalent in Wheat).	Total.				
1935				5,840,992	1,253,637	7.094.629			
1936				4,923,693	1,853,528	6,777,221			
1937	• •			6,990,373	1,295,631	8,286,004			
1938				5,809,493	1.131.963	6,941,456			
1939 (e	stimated)			5,290,000	1,313,000	6,603,000			

Oats are grown in Victoria mainly as a hay crop. The area harvested (season 1938–39) for hay was 722,528 acres, and for grain 657,999 acres, which produced 561,922 tons of hay, and 2,909,260 bushels of grain respectively. About 47 per cent. of the area for grain is in the Mallee district, but the area for hay is spread over all districts. More than 60 varieties of oats are generally sown, but Algerian, with nearly 88 per cent. of the area, is predominately the most popular variety.

Hay. Of the total area under hay in 1938–39, as shown in the table on page 439, 722,528 acres under oats produced 561,922 tons, 258,839 acres under wheat produced 194,759 tons, 36,838 acres under lucerne, &c., produced 45,905 tons, and 86,353 acres under grass produced 90,389 tons; the yields per acre of these kinds of hay were .78, .75, 1.25, and 1.05 tons respectively. The quantity of straw recorded for the season 1938–39 was 21,087 tons.

The area under barley for grain in 1938–39 was 175,891 acres, of which 150,984 were under malting (2 row), and 24,907 under feed (6 row) barley. Although barley is grown generally throughout the State, 97,097 acres, or 55 per cent. of the total area for the season 1938–39, were sown in the counties of Grant, Lowan, Borung and Karkarooc. The average yield per acre in Grant was 16.50 bushels. The figures in the subjoined table show the acreage, production, and yield per acre, for each of the five years 1934–35 to 1938–39:—

VICTORIA—BARLEY PRODUCTION, 1934-35 TO 1938-39.

Area under Crop.		Produ	ge.	Average per Acre.				
	ended ch—	Malting (2 row).	Other (6 row).	Malting (2 row).	Other (6 row).	Malting (2 row).	Other (6 row).	Total.
		acres	acres	bushels.	bushels.	bushels.	bushets.	pushel-
1935		70 962	16,637	1,275,037	334,481	$17 \cdot 97$	20 · 11	18.37
1936		98,799	17,572	1.944.237	370,190	19.68	21.07	19.89
1937		83,802	16.201	1,782,931	360.178		$22 \cdot 23$	21 43
1938	• •	113,598	26,179	2.122,035	586,484		22 · 40	19.38
1939	• •	150.984	24,907	1,411,139	260,670		10.47	9.50

Maize for grain is cultivated mainly in Gippsland, but two or three thousand acres are regularly grown in the Mornington and the North-Eastern districts. It is grown in Victoria both for grain and for green fodder. The areas for 1938–39 were 18,485 acres for grain, and 26,114 acres for fodder. The area, production and average yield for each of the five seasons, 1934–35 to 1938–39, are given in the following table:—

VICTORIA-MAIZE PRODUCTION, 1934-35 TO 1938-39.

٠.			For Green	For Grain.				
Season.			Fodder.	Area.	Production.	Yield per acre.		
1934-35			acres. 24 904	acres. 18,727	bushels. 719,360	bushels. 38.41		
1935-36 1936-37	• •		$26971 \\ 26.543$	$20377 \ 20.115$	638,643 794,506	$\frac{31 \cdot 34}{39 \cdot 50}$		
1937–38 1938–39			$25.2 \pm 1 \\ 26,114$	$20,879 \\ 18,485$	783 835 416,578	$37.54 \\ 22.54$		

The annual average yield of the last five seasons was 34.01 bushels per acre, as compared with 45.0 in 1910-15, and 65.4 in 1900-05. The relatively light yield per acre for the latest five-year period was probably due to the cultivation of new areas, which are less fertile than the rich river flats upon which this cereal was grown exclusively in earlier periods.

Potatoes. Victoria is the largest potato-producing State in the Commonwealth. Out of a total area of 114,000 acres planted in 1937-38 to potatoes, 41,100 acres were grown in this State.

The cultivation of the potato crop in Victoria is confined mainly to the central highlands, the South-western district and the Gippsland district. These districts are favoured with good average rainfall, varying from 30 to 50 inches per annum, which is fairly well distributed throughout the year.

The following table shows the area, yield and value of potatoes for each of the five seasons, 1934-35 to 1938-39:-

VICTORIA—POTATO PRODUCTION, 1934-35 TO 1938-39.

Season.		Area.	Production.	Average Yield.	Gross Value.	
1934–35 1935–36 1936–37 1937–38 1938–39		acres. 54,214 44,287 45,627 41,105 34,396	tons. 109.329 104.125 196,623* 134,712* 81,415*	tons. 2·02 2·35 4·31 3·28 2·37	\$956,629 826,492 614,447 801,536 1,095,032	

^{*} Includes amounts held on farms for seed, stock feed, &c., as follow:—46,732 tons in 1936-37; 33,153 tons in 1937-38, and 18,380 tons in 1938-39.

Onions are grown in nearly every county south of the Dividing Range. The returns for last season show that in Grenville the yield was 1,432 tons from 987 acres; in Villiers, 2,732 tons from 923 acres; in Polwarth 1,351 tons from 825 acres; in Grant 1,206 tons from 1,070 acres; in Bourke 2,879 tons from 578 acres; in Buln Buln 482 tons from 199 acres; and in Mornington 188 tons from 223 acres. The following statement shows the area, yield and value for each of the last five years:—

VICTORIA—ONION PRODUCTION, 1934-35 TO 1938-39.

<u> </u>	Sea	son—		Area.	Production.	Average Yield.	Gross Value.
1934-35				acres. 5,928	tons. 36,187	tons. 6:10	£ 260,094
1935-36		•	::	5,441	26,143	4.80	235,287
1936–37	٠.٠	• • •		5,969	46,130	$7 \cdot 73$	184,099
1937-38	• •		••	6,036	45,583	7.55	188,620
1938–39	• •			4,898	10,404	$2 \cdot 12$	197,676

Wholesale prices of agricultural and pastoral products.

The prices which appear below are the average prices realized for the marketed produce of the seasons enumerated. Average prices, representing the mean of prices ruling each month and not taking into account the quantities sold during each month, are shown on pages 489 and 490.

VICTORIA—AVERAGE WHOLESALE PRICES REALIZED FOR AGRICULTURAL AND PASTORAL PRODUCE. TO 1938-39.

Average F Realized Produce Season	for of	Wheat.	Oats.	Barley (Malting).	Maize.	Potatoes.	Onions.	Wool, (Clipped, and on Skins.)
1929-30 1930-31 1931-32 1932-33 1933-34 1934-35 1935-36 1936-37		per bushel. s. d. 4 4 4 2 6 3 2½ 2 10¾ 2 11½ 3 3¼ 4 1 5 5⅓	$\begin{array}{c} \text{per} \\ \text{bushel.} \\ s. \ d. \\ \textbf{3} \ \textbf{4} \\ \textbf{1} \ 9\frac{1}{2} \\ \textbf{2} \ \textbf{0} \\ \textbf{1} \ \textbf{11} \\ \textbf{2} \ 2\frac{1}{2} \\ \textbf{2} \ 2\frac{1}{2} \\ \textbf{2} \ \textbf{2} \\ \textbf{2} \\ \textbf{2} \ \textbf{8} \end{array}$	$\begin{array}{c} \text{per} \\ \text{bushel.} \\ s. \ d. \\ 3 \ 9 \\ 2 \ 6 \\ 3 \ 0\frac{1}{2} \\ 2 \ 6 \\ 2 \ 7 \\ 2 \ 10\frac{1}{2} \\ 2 \ 9\frac{1}{2} \\ 4 \ 3\frac{1}{2} \\ \end{array}$	per bushel. s. d. 5 5 3 9 4 3 4 7½ 3 6 4 4 4 5 1 5 6	per ton. s. d. 115 0 72 0 92 0 85 0 106 0 175 0 158 9 72 6	per ton. s. d. 62 0 53 0 237 0 65 0 85 0 143 9 180 0 146 0	per lb. s. d. 0 10:30 0 8:65 0 8:76 0 8:18 1 2:71 0 9:52 1 1:96 1 4:39
19 37–3 8 19 38–3 9		$\begin{bmatrix} 4 & 1 \\ 2 & 7\frac{1}{2} \end{bmatrix}$	$\begin{array}{ccc} 3 & 3\frac{1}{2} \\ 3 & 6 \end{array}$	$\begin{bmatrix} 3 & 10 \\ 3 & 4 \end{bmatrix}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{bmatrix} 145 & 0 \\ 289 & 0 \end{bmatrix}$	$ \begin{array}{ccc} 109 & 6 \\ 380 & 0 \end{array} $	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

The production of dried vine-fruits for the season Vine Production. 1938-39 amounted to 43,960, as compared with a record production of 57,452 tons for the previous season. This far exceeds the requirements for home consumption. Exports of Victorian produce to the United Kingdom, Canada, New Zealand, and other countries for the season 1938-39 amounted to 33,402 tons.

Australian production of dried vine-fruits for the season 1938-39 amounted to approximately 72,000 tons, of which the Victorian portion represented over 61 per cent.

Particulars of vine production for the five seasons 1934–35 to 1938–39 are given in the following table:—

VICTORIA—VINE PRODUCTION, 1934–35 TO 1938–39.

		Area.		Produce.						
Season.	Number			-		1	Oried Fruit	s.		
Scason.	Growers.	Bearing.	Not Bearing.	Grapes gathered.	Wine made.	Rais	ins.	Currants.		
						Lexias.	Sultanas.	00114248		
1934-35 . 1935-36 . 1936-37 . 1937-38 . 1938-39	2.509 2,512 2,458 2,438 2,424	acres. 37.592 37,851 38,329 38 645 39,640	acres. 3,588 3,230 3,566 3,238 2,796	cwt. 3,239,660 3,463,202 3,903,430 4,897,257 3,707,783	gallons. 1,276,176 1,683,049 1,818,917 1,433 637 825,056	ewt. 78,532 92,481 90,243 106,501 102,016	cwt. 514,209 617,237 655,090 863,579 571,156	cwt. 176,023 88,414 152,202 178,960 206,022		

Of the total quantity of grapes gathered in 1938-39, it is estimated that 111,869 cwt. were used for making wine and spirits, 3,514,128 cwt. for raisins and currants, and 81,786 cwt. for table consumption.

Of the dried fruit, 91,873 cwt. of lexias, 488,199 cwt. of sultanas, and 193,496 cwt. of currants were produced in the Mildura shire, and 9,664 cwt. of lexias, 82,586 cwt. of sultanas, and 11,974 cwt. of currants in the Swan Hill Shire.

The imposition of emergency tariff rates about 1931 greatly stimulated the growing of tobacco in Victoria and, as a result, the area planted increased in the 1932-33 season to 13,418 acres. Due, however, to economic circumstances and to disease in the crops, the acreage subsequently declined. The 1938-39 crop amounted to 6,432 cwt., which was obtained from 2,559 acres.

The following table furnishes details of the area, production, and average yield in each of the five seasons, 1934-35 to 1938-39:—

VICTORIA—TOBACCO PRODUCTION, 1934-35 TO 1938-39.

Season—		Area.	Production.	Produce per Acre.	Gross Value.
1934–35		acres. 4,765	ewt. (dry). 13,405	ewt. (dry).	135,433
1934–35 1935–36	• •	 5,840	25,706	4.40	231,114
1936–37		 $5,492 \\ 4,736$	$15,658 \\ 20,860$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	138,965 $185,808$
1937–38 1938–39		$\frac{4,750}{2,559}$	6,432	2 51	59,620

The production of flax is confined mainly to the Central, Western and Gippsland Districts. Although the acreage sown is steadily increasing, production is insufficient to supply local requirements.

The following table shows the area under flax, the quantity of straw delivered at flax mills, and the produce obtained therefrom for each of the last five seasons, and also the Australian imports of certain flax products for each of the years ended 30th June, 1935, to 1939:—

VICTORIAN FLAX PRODUCTION AND AUSTRALIAN IMPORTS OF FLAX PRODUCTS, 1934–35 TO 1938–39.

Season. Area.*		Straw	Produce	Obtained.	Australian Imports (year ended 30th June).		
	Area.*	delivered at Mills.	Fibre.	Linseed.	Fibre.	Linseed.	Linseed Oil.
1934-35 1935-36 1936-37 1937-38 1938-39	acres. 769 1,068 912 1,086 1,260	tons. 995 1,468 952 1,705 950	cwt. 680 1,049 848 2,401 1,080	cwt. 2,660 3,811 2,130 2,981 960	cwt. 103 2,980 9,913 3,958 3,286	ewt. 752,501 711,010 680,054 577,447 635,196	gallons. 252,730 298,035 223,570 150,828 188,629

^{*} Excludes area under New Zealand Flax, the acreage of which was 81 in 1937-38 and 98 in 1938-39.

Orchards. The extent of cultivation of each important class of fruit on holdings of one acre and upwards during the seasons 1934-35 and 1937-38 is shown in the following table:—

VICTORIA—FRUIT TREES, PLANTS, ETC., IN ORCHARDS AND GARDENS, 1934–35 AND 1937–38.

		Number of Trees, Plants, &c.								
Fruit.		1934-	-35.		1937–38.					
	Bear	ing. No		al. Bearin	g. Not Bearing.	Total.				
Apples Pears Quinces Plums Prunes Cherries Peaches Apricots Nectarines Oranges Lemons Loquats Figs Persinmons	57 277 62 73 842 329 13 435 123 3	,066 238 ,659 13 ,492 70 ,621 1, ,383 64 ,985 314 ,415 51, ,787 4 ,739 64 ,405 37,	$ \begin{array}{c cccc} .747 & 1,086 \\ 951 & 71 \\ 477 & 347 \\ 873 & 64 \\ 217 & 1,157 \\ 337 & 380 \\ 454 & 18 \\ 477 & 500 \\ 658 & 161 \\ 744 & 3 \end{array} $	813 908,5° 52,3° 969 248,5° 494 47,0° 600 76,2° 4451 921,6° 752 317,6° 1241 14,2° 216 365,9° 063 107,3° 845 1,9° 357 25,1°	93 289,965 13,280 36 65,816 37 3,396 38 54,274 427,769 95,463 38 6,993 46,202 46,202 48 52,424	1,198,558 65,586 314,882 50,483 130,662 1,349,399 413,119 21,381 416,372 153,571 2,445 33,662				
Total Large Fra	its 5,479	1,382,	550 6,861,	745 5,382,5	37 1,463,466	6,846,003				
Raspberries Loganberries Strawberries Gooseberries Mulberries Currants (Red. Wh	337, 146, 4,565, 169,	260 409 848 23,	337, 146, 4,565, 193,	$ \begin{array}{c cccc} 260 & 108,84 \\ 409 & 4,777,00 \end{array} $	15 03 33 7,685	322,572 103,845 4,777,003 145,318 721				
and Black) Olives Passion-fruit	30,	866		967 18,01 908 2,49 939 100,58	8 234	20,787 2,732 145,230				
Almonds Walnuts Filberts Chestnuts	7,	766 3, 943	$\begin{bmatrix} 039 & 10, \\ 164 & 2, \end{bmatrix}$	938 30,19 805 7,96 107 1,92 867 56	$\begin{bmatrix} 55 & 2,067 \\ 4 & 78 \end{bmatrix}$	40,865 10,032 2,002 826				
Total Nuts	38,	594 12,	123 50,	717 40,65	3 13,072	53,725				

The principal fruits grown in the State are apples, pears, pears, 1933-34 to peaches, and citrus. The excess of production over consumption was exported both overseas and interstate. The apple and pear crops for the season 1938–39 amounted to 1,574,916 and 1,204,340 bushels respectively, and from this production there were exported to the United Kingdom and Continental ports 254,000

cases of apples and 312,000 cases of pears. A considerable quantity of apricots, peaches, and pears is grown, mostly in irrigated areas, for canning purposes. The total output of canned apricots, peaches and pears for the 1939 season was 1,919,793 cases. This output represented about 71 per cent. of the total Australian pack. In addition to the fruits shown in the subjoined table, large quantities of melons, rhubarb, and tomatoes were produced in orchards, the following being the quantities recorded for 1938–39:—Melons, 12,657 cwt.; rhubarb, 31,404 dozen bundles; tomatoes, 363,258 bushels. The gross value of all fruit grown in the season 1938–39 was £1,789,575 as compared with £1,938,367 in 1937–38.

VICTORIA—FRUIT GROWING, 1933-34 TO 1938-39.

-	1933-34.	1934–35.	1935-36.	1936-37.	1937–38.	1938-39.
Number of Growers	6,930	6,685	6,712	6,621	6,514	6,476
	acres.	acres.	acres.	acres.	acres.	acres.
Area	75,134	74,763	74,006	75,169	75,067	71,300
	bushels.	bushels.	bushels.	bushels.	bushels.	bushels.
Kind of Fruit— Apples Pears Quinces Apricots Cherries Nectarines Peaches Plums Prunes Lemons Oranges Figs Passion Fruit Other Large Fruits	2,418,430 1,005,775 54,836 368,673 42,347 14,490 970,541 197,017 70,019 208,546 658,461 19,184 29,514 4,264	2,085,081 1,021,780 42,452 260,161 30,712 13,610 1,173,031 194,843 70,968 220,737 639,325 16,228 22,326 4,460	2,417,425 1,492,062 1,492,062 350,798 41,509 9,013 915,811 149,791 68,626 205,089 618,290 16,755 21,410 4,831	2,878,327 1,657,763 45,116 179,824 39,509 12,681 1,269,716 215,424 70,024 181,920 580,526 20,260 26,635 4,82	2,454,471 1,527,032 52,733 409,417 41,987 17,134 1,695,094 190,320 58,967 187,828 691,563 19,528 33,290 3,455	1,574,916 1,204,340 45,415 251,028 40,888 18,371 1,653,792 106,650 39,597 162,428 700,990 15,019 21,094 2,737
	cwt.	cwt.	cwt.	cwt.	cwt.	ewt.
Blackberries Cape Gooseberries Currants Gooseberries Loganberries Mulberries Raspberries Strawberries	1,322 179 328 5,597 4,164 37 3,608 8,488	968 74 350 4,620 3,064 39 2,521 7,700	993 135 314 3,130 2,510 22 2,380 5,183	924 150 283 4,131 2,961 24 2,816 6,488	1,019 112 233 3,786 2,825 37 3,166 6,711	315 167 171 2,762 1,290 17,520 2,772
	lb.	lb.	lb.	lb.	lb.	lb.
Almonds Chestnuts Filberts Walnuts	102,250 34,143 868 56,919	94,808 24,507 1,178 37,928	89.568 39,843 1,296 56,859	129,551 17,355 793 42,481	171,617 19,562 1,203 71,346	98,498 21,954 518 74,807

The production of the various kinds of dried tree-fruits for each of the last five seasons is shown in the following statement. Particulars in respect of dried vine-fruits appear on page 463.

VICTORIA—DRIED TREE-FRUITS, 1934-35 TO 1938-39.

Year ended June—		Apples.	Apples.	Apricots.	Figs.	Nectarines.	Peaches.	Pears.	Prunes.	Total.
		lb.	lb.	lb.	lb.	lb.	lb.	lb.	1b.	
1935		3,301	116,007	6,239	379	165,363	22,773	571,71 5	885,77	
1936	• •	5,219	113,600	7,281	384	73,780	51,652	851,192	1,103,10	
1937		1,529	32,495	5,287	1,232	96,862	58,564	1,023,484	1,219,45	
1938		4,012	81,474	10,822	1,392	197,667	60,269	817,320	1,172,95	
1939		1,283	54,995	2,436	690	158,505	39,499	603,650	861,05	

Market gardens.

The area under market gardens in the season 1938-39 was 21,059 acres. As agricultural statistics are collected only in respect of areas of one acre and over, they do not provide a complete census of vegetable growing. In respect of operations conducted on a commercial basis, however, they give reliable information. These gardens are generally situated near large centres of population, and the producers are able to dispose of the bulk of their goods with a minimum loss from waste, &c. The total value of production of market gardens, on the basis of £50 per acre, which is regarded as a fair average return, would be approximately £1,053,000. This does not include crops of one acre and over of potatoes or onions, such crops being tabulated under their respective heads in the returns relating to agriculture.

Minor Grops.

The following is a return of the minor crops of the State for the last two seasons. Details respecting each of these crops may be viewed at the office of the Government Statist.

VICTORIA-MINOR CROPS, 1937-38 AND 1938-39.

			1937-38.		1938-39.
Crop.		Area.	Produce.	Area.	Produce.
		Acres.		Acres.	
Rye for grain		1.051	10,291 bushels	1,109	4,735 bushels
Peas for grain	• •	6,465	126,228 bushels	5,029	43,332 bushels
Beans for grain	• •	1,829	12,309 bushels	640	3,419 bushels
Grass and clover see	1	9,358	72.397 bushels	7.534	35,217 bushels
	40	,	3,614 cwt, fibre	· ·	3,176 cwt. fibr
Millet—Broom		768	3,409 cwt. seed	624	1,934 cwt. see
		-	(48,594 tons beet		(13,454 tons bee
		ì			producing
Sugar Beet		4,046	$\begin{array}{c c} & \text{producing} \\ \hline 5,625 \text{ tons of} \end{array}$	4,268	1,507 tons 6
					1 1 '
Hops		142	sugar	135	sugar 742 cwt.
Chicory		294	1,405 cwt. 352 tons	$\begin{array}{c} 133 \\ 314 \end{array}$	202 tons
Carlia		50		51	44 tons
Sunflowers		265	77 tons	$\frac{51}{229}$	1,841 cwt.
TM	• •		2,643 cwt.		1,041 CW t.
***	• •	1,234		1,224	• • •
	•••	951	T 077 1	1,229	2 527 tons
Mangel-wurzels	• •	532	7,277 tons	376	3,537 tons
Beet, Carrots, &c.	• •	454	3,148 tons	817	2,093 tons
Green Forage		121,839	0.000	108,796	~ 100 tom=
Pumpkins	• •	1,431	6,038 tons	1,429	5,129 tons
Canary Seed	• •	1,329	4,543 cwt.	1,878	3,010 cwt.

The fertilizer mainly used on wheat areas is "Superphosphate 22 per cent". It is also used on 90 per cent of the oat areas fertilized. The following table shows the number of holdings upon which fertilizers were applied and the quantities used in the various seasons.

VICTORIA—ARTIFICIAL FERTILIZERS USED.

Season.	Season. Number of Holdings.		Quantity Used	
		Acres.	Tons.	
1901–02	11,439	556,777	23,535 •	
1911-12 Crops	26,159	2,676,408	82,581	
1921-22 } and	37,835	3,848,184	150,012	
1931-32 Pastures	38,844	3,927,208	163,234	
1934-35	43,482	4,939,170	211,657	
Crops	35,224	3,596,925	146,740	
1935-36 Crops Pastures	21,30 0	2,048,389	105,157	
Crops	36,238	3,709,563	157,865	
$1936-37 \begin{cases} \text{Crops} & \dots \\ \text{Pastures} & \dots \end{cases}$	25,817	2,911,181	148,981	
7	36.784	4,061,488	174,485	
$937-38$ $\begin{cases} \text{Crops} \\ \text{Pastures} \end{cases}$	28,890	3,700,131	189,796	
Crons	36,174	4,427,573	184,866	
Pastures	29,290	3,974,938	210,297	

Machinery used on Holdings.

A comparison of the numbers of farming implements in use on rural holdings in Victoria in recent years is shown in the following table. Increases in the numbers of engines, milking plants, shearing plants and tractors are particularly noticeable. No compilation of machinery was made for the year 1938, except in respect of tractors which numbered 7,593.

VICTORIA—MACHINERY IN USE ON RURAL HOLDINGS.

Yea	ır.	Chaff- cutters.	Cream Separa- tors.	Cultiva- tors,	Engines.	Graders.	Grain Drills.	Harrows.	Harves- ters.
1934 1936 1937 1938 1939		No. 26,244 26,325 26,185 25,710	No. 47,681 47,672 47,719 46,380	No. 39,001 37,971 37,979 	No. 25,645 27,436 28,693 31,182	No. 5,728 5,610 5,519 5,362	No. 27,674 27,206 27,216 26,958	No. 55,798 55,770 55,612 54,610	No. 11,047 10,521 10,522 10,013
		l i			Regners				

Yea	ır.	Headers.	Milking Plants.	Ploughs.	Reapers and Binders.	Shearing Plants.	Strippers.	Threshing Machines.	Tractors.
1934 1936 1937 1938		No. 6,959 6,725 6,888	No. 4,353 4,994 5,702	No. 79,583 78,353 77,961	No. 23,211 22,787 22,517	No. 4,057 4,386 4,430	No. 1,926 1,823 1,671	No. 511 538 498	No. 5,373 5,727 6,270 7,593
1938		7,010	7,419	76,079	22,005	4,954	1,568	467	8,802

Information is collected annually as to the number of persons ordinarily engaged in farm work on rural holdings of one acre or more. Persons absent from their farms for the greater portion of the year following other occupations, as well as temporary hands engaged in harvesting, &c., are excluded from the tabulation. In respect of female employees, it is evident that numbers of occupiers misinterpret the questions and wrongly include those who, though they may give some assistance out-doors, are primarily engaged in domestic duties. Particulars for the years, 1934-35 to 1938-39 are as follow:—

VICTORIA—PERSONS ENGAGED ON RURAL HOLDINGS, INCLUDING WORKING PROPRIETORS, ETC., BUT EXCLUDING CASUAL AND SEASONAL WORKERS, 1934–35 TO 1938–39.

Year	ending Mar	ch.	Males.	Females.	Total.	
			No.	No.	No.	
1935			102,100	10.048	112,148	
1936			101,016	8,842	109,858	
1937			100,381	8,672	109,053	
1928	••		100,338	8,296	108,634	
1939			100,155	8,026	108,181	

Rates of Wages— Rural Holdings. In the next return will be found particulars of the rates of wages paid (with rations) upon rural holdings during 1938-39. The information has been furnished by the occupiers of holdings.

VICTORIA—RATES OF WAGES ON RURAL HOLDINGS, 1938–39.

Occupations.	Prevailing Rate.	Range.
Ploughmen	40s. per week	20s. to 67s. per week
Farm labourers	38s. per week	20s. to 67s. per week
Threshing machine hands	Is. 1d. per hour	9d. to 1s. 6d. per hour
Harvest hands	10s. per day	7s. to 15s. per day
Milkers	29s. per week	15s. to 50s. per week
Maize pickers (without rations)	9d. per bag of cobs	6d. to 1s. 3d. per bag of cobs
Married couples	56s. 6d. per week	40s. to 80s. per week
Female servants	22s. per week	15s. to 45s. per week
Shearers, hand (without rations)	36s. per 100 sheep	30s. to 50s. per 100 sheep
,, machine (without rations)	37s. per 100 sheep	30s. to 50s. per 100 sheep
Gardeners, market	48s. per week	30s. to 60s. per week
" orchard	54s. per week	35s. to 75s. per week
Vineyard hands	60s. per week	40s. to 75s. per week

Financial Assistance to Primary Froducers.

In recent years legislative provision has been made by both the Commonwealth and State Parliaments for granting financial relief to primary producers. These provisions have been described in previous issues of the Year-Book. The Commonwealth Parliament has provided further financial assistance of the following nature:—

(a) The payment to each primary producer, on furnishing satisfactory evidence in support of his claim, of a subsidy of 10s. for each ton (up to ten tons) of artificial manure used by him during the year ending 30th June, 1939, in the production of primary produce other than wheat.

(b) The payment of the following bounties to growers of citrus fruits in respect of such fruits exported from the Commonwealth in accordance with the prescribed conditions.

Two shillings for each large export case of oranges, grape fruit and lemons, and 1s. 4d. for each bushel case (Australian and Standard) of oranges, lemons, grape fruit and mandarins exported to destinations other than New Zealand during each of the years 1938, 1939, and 1940. Provided that the bounty shall not be payable in respect of navel oranges exported to the United Kingdom and the Continent of Europe after 31st July, and to all other destinations after 31st August of each year.

PASTORAL AND DAIRYING INDUSTRIES.

The pastoral and dairying industries have always been important sources of wealth to the State, and their increasing values in recent years indicate that both pastures and stock are, on the whole, steadily improving. The next table, which shows the numbers of horses, dairy cows, other cattle, sheep and pigs, illustrates the progress of stock breeding in Victoria.

LIVE STOCK IN VICTORIA, 1861 TO 1939.

At 1st March -		Horses (including	Catt	Sheep.	Pigs.				
					Foals).	Dairy Cows.	Other.		
			number.	number.	number.	number.	number.		
1861			76,536	197,332	525,000	5,780,896	61,259		
1871			209,025	212,193	564,534	10,477,976	180,10		
1881			275,516	329,198	957,069	10.360,285	241,93		
1891			436,469	395,192	1,387,689	12,692,843	282,45		
1901			392,237	521,612	1,080,772	10.841.790	350,37		
1911			472,080	668,777	878,792	12,882,665	333,28		
1921			487,503	620.005	955,154	12,171,084	175,27		
1931			379,872	669.132	760,788	16,477,995	281,24		
1935			357,877	951,849	1,133,231	16,783,631	265,00		
1936			356,106	987,676	1,103,570	17,457,291	314,30		
1937			357,158	968,555	1,037,204	17,663,103	318,67		
1938			359,106	952,906	927,523	18,863,467	285,25		
1939			343,828	889,259	808,036	17,007,352	252,46		

For the purpose of showing the varying extent of pastoral pursuits in Victoria, as indicated by the number of live stock grazed, it is necessary to express the various kinds of live stock in common terms.

An arbitrary equivalent of ten sheep to each head of the larger kinds of live stock has, therefore, been taken and the total live stock grazed expressed as sheep:—

VICTORIA—LIVE STOCK GRAZED, 1861-1939.

	Year.	Equivalent in Sheep of Live Stock Grazed.	Year.		Equivalent in Sheep of Live Stock Grazed.
		No.			No.
1861	• .	 13,769,576	1931	.,	34,575,915
1871		 20,335,496	1935		41,213,201
1881		 25,978,115	1936		41,930,811
1891		 34,886,343	1937		41,292,273
1901		 30,788,000	1938		41,258,817
1911		 33,079,155	$1939 \dots$		37,418,582
1921		 32,797,704			

When making comparisons of the figures in the foregoing table, consideration should be given to the varying acreage under cultivation as shown on page 434.

The next table shows the numbers of horses, cattle, sheep, and pigs on holdings of various sizes, and the total numbers on Crown lands that are not held conjointly with privately-owned land, at March, 1938.

VICTORIA—SIZE OF HOLDINGS AND NUMBERS OF LIVE STOCK THEREON, MARCH, 1938.

	Ŋ	umbers of L	ive Stock on	Land Occupied.	
Size of Holdings. (In Acres.)		Ca	ttle.		
(CE account)	Horses.	Dairy Cows.	Other Cattle,	Sheep.	Pigs.
1 and under 50	20,345	61,436	28,521	51,231	20,228
50 and under 100	17,921	105,247	46,699	134,281	34,200
100 and under 500	107,309	545,649	335,494	3,025,659	171,694
500 and under 1,000	84.857	128,593	165,617	4,207,977	33,077
1,000 and under 5,000	86,908	79,953	231,381	8,141,3 2	18,415
5,000 and under 10,000	5,720	5,933	50,999	1,723,917	769
10,000 and under 20,000	2,026	1,189	21,611	859,350	268
20,000 and upwards	3,090	185	21,920	498,593	1
Total on Privately- owned Land On Crown Land not held in	328,176	928,185	902,242	18,642,400	278,652
conjunction with pri-	9 101	E 040	8,598	148,194	1,758
vately-owned Land In towns and travelling	3,181 27,749	5,242 19,479	16,683	72,873	4,849
Grand Total	359,106	952,906	927,523	18,863,467	285,259

The classification of holdings shown on pages 437 and 438 discloses that 63,587 persons holding up to 1,000 acres each of private land occupied in the aggregate 15,025,626 acres of such land, or 47 per cent. of the total area in occupation, as well as 3,110,489 acres of Crown land—a total of 18,136,115 acres. Of the privately-owned land and Crown land held in conjunction therewith, these occupiers controlled 54 per cent. of the total cultivation and 45 per cent. of the total pasture, and possessed 70 per cent. of the horses, 91 per cent. of the dairy cows, 64 per cent. of the other cattle, 93 per cent. of the pigs, and 40 per cent. of the sheep.

Live stock in Australia. In the following statement are given the numbers of horses, cattle, sheep and pigs in the various Australian States at March, 1939.

LIVE STOCK IN THE COMMONWEALTH, 1939.

State.	Horses.	Cattle.	Sheep.	Pigs.
	No.	No.	No.	No.
Victoria	343,828	1,697,295	17,007,352	252.462
New South Wales	548,355	2,811,884	48,876,663	377,344
Queensland	445,296	6,097,089	23,158,569	325,326
South Australia	195,834	318,897	9,936,586	71,292
Western Australia	143,664	767,676	9,177,531	81,383
Tasmania	31,600	254,000	2,500,000	43,500
Northern Territory	31,700	892,000	25,000	400
Australian Capital Territory	1,195	7,057	245,540	573
Total	1,741,472	12,845,898	110,927,241	1,152,280

Agriculture in Victoria and Great Britain (England, Wales, and Scotland) in 1938 are, for comparative purposes, given in the table which follows:—

AGRICULTURE AND LIVE STOCK IN VICTORIA AND GREAT BRITAIN.

				Victoria. (1938-39.)	Great Britain. (1937–38.)
Total area		 	acres	56,245,760	56,208,959
Wheat		 	bushels	18,104,369	73,136,000
Oats		 	,,	2,909,260	95,312,000
Barley		 	,,	1,671,809	40,365,000
Peas		 	,,	43,332	1,126,000
Potatoes		 	tons	81,415	4,464,000
Turnips and	Swedes	 	,,	2,093*	10,605,000
Mangolds		 	••	3,537	3,689,000
Hay		 	,,	892,975	5,302,000
Horses		 	No.	343,828	1,001,500
Cattle		 	,,	1,697,295	8,030,000
Sheep		 	,,	17,007,352	25,882,000
Pigs		 	,,	252,462	3,821,650

^{*} Includes beet, carrots, and parsnips.

The next table contains particulars of the distribution of Live Stock. of horses, cattle, sheep, and pigs on holdings in March, 1939.

VICTORIA—DISTRIBUTION OF LIVE STOCK, 1939.

Districts.			Number of		· 	
	Horses.	Dairy Cattle.	Other Cattle.	Sheep.	Pigs.	
Central	. 67,275	177,398	121,742	1,474,964	42,477	
North-Central .	. 16,801	31,852	36,536	1,328,427	7,954	
Western .	46,453	245,102	203,260	5,915,487	49,256	
Wimmera .	. 44,353	22,126	15,385	2,451,232	5,238	
Mallee	44,911	20,582	12,460	976,797	5,853	
Northern .	. 66,688	98,482	71,174	2,241,034	39,305	
North-Eastern .	. 25,399	86,932	148,466	1,438,862	24,974	
Gippsland .	. 31,948	206,785	199,013	1,180,549	77,405	
Total .	. 343,828	889,259	808,036	17,007,352	252,469	

The dairying industry is one of the principal sources of the wealth of the community. The gross value of dairy produce in the season 1938–39 was £12,682,076 as compared with £12,989,517 in 1937–38, £13,018,154 in 1936–37, £11,376,604 in 1935–36, and £9,368,531 in 1934–35. The following table shows the numbers of cowkeepers and cows and the total production of butter and cheese for each of the last five years.

VICTORIA—DAIRYING, 1934-35 TO 1938-39.

As	As at 1st March—		Number of Cow- keepers.	Number of Dairy Cows.	Butter made.*	Cheese made.•
		·			lb.	lb.
1935			58,639	951,849	147,651,179	10,095,139
1936			58,259	987,676	148,132,507	10,973,804
1937			57,723	968,555	154,194,197	13,350,124
.1938			57,129	952,906	141,321,445	16,466,038
1939		••	55,812	889,259	130,573,918	19,554,061

^{*} Year ended 30th June.

Numbers and Sizes of Dairy Herds. The following table shows the number of dairy herds in Victoria, grouped, according to size, during each of the five years, 1935-39.

VICTORIA—DAIRY HERDS, CONTAINING FIVE COWS OR MORE, GROUPED ACCORDING TO SIZE.

					Number	of Herds.			
As 1st Ma		5 to 9 cows.	10 to 14 cows.	15 to 19 cows.	20 to 29 cows.	30 to 49 cows.	50 to 99 cows.	100 and over	Total.
193 5		11,694	6,438	4,030	6,143	6,134	3,136	553	38,128
1936	••	11,403	6,274	4,002	5,984	6,473	3,480	614	38,230
1937		11,245	6,053	3,773	5,580	6,315	3,516	641	37,123
1938		10,553	5,655	3,453	5,153	6,253	3,637	669	35,373
1939		10,048	4,965	3,048	4,647	5,750	3,465	599	32,522

The number of farmers with less than five cows was:—20,511 in 1935, 20,029 in 1936, 20,600 in 1937, 21,756 in 1938, and 23,290 in 1939. These were excluded from the foregoing table as they were considered too small to be classed as dairy herds.

The Milk Board by The Milk Board by Providing that the Board shall, in addition to determinin the minimum prices to be paid to owners of dairy farms for milk for sale or distribution in the metropolis, also have power to determine the minimum prices to be paid for such milk to owners of milk depots and—in the case of sales other than sales by retail—to dairymen. A summary of the principal legislative provisions of this Act appears on pages 429 and 430 of the Victorian Year-Book for 1935-36.

The following statement shows the quantities of butter and cheese made in factories and on farms in each of the last five years.

VICTORIA—BUTTER AND CHEESE MADE, 1935-1939.

Year En	ding		Butter.		A.	Cheese.				
	0th June— Fac		On Farms.	Total.	In Factories.	On Farms.	Total.			
		1b.	lb.	lb.	Ib.	lb.	lb.			
1935	••	142,999,641	4,651,538	147,651,179	9,954,668	140,471	10,095,139			
1936	••	143,161,374	4,971,133	148,132,507	10,798,199	175,605	10,973,804			
1937		149,322,752	4,871,445	154,194,197	13,040,709	309,415	13,350,124			
1938		137,016,414	4,305,031	141,321,445	16,032,366	433,672	16,466,038			
1939		126,808,268	3,765,650	130,573,918	19,348,519	205,542	19,554,061			

Exports of Butter and Cheese.

In 1938–39 oversea exports of butter from Victorian ports amounted to 65,462,195 lb., valued at £3,245,806. The quantity shipped to the United Kingdom was 60,060,900 lb., valued at £2,909,980. The quantity of cheese exported oversea amounted to 13,328,117 lb., valued at £450,012.

Cream, Condensed Milk and Casein The quantities of concentrated, condensed, powdered milk and casein made, together with quantities of cream sold, during the last five years, were as follows:—

VICTORIA—MILK (CONCENTRATED, CONDENSED, AND POWDERED) AND CASEIN MADE AND CREAM SOLD, 1935–1939.

	r Ended h June—			Concentrated, Condensed, and Powdered Milk Made.	Casein Made.	Total Quantity of Milk Used for All Purposes.
			1,000 lb.	1,000 lb.	1,000 lb.	1,000 Gallons.
1935			7,023	51,391	2,424	403,039
1936			10,214	34,385	3,731	399,742
1937			13,755	46,007	4,334	432,330
1938			17,097	52,065	5,095	408,271
1939			13,574	46,668	4,463	377.882

The numbers of sheep in Victoria in various years since 1861 are shown in the table on page 471. Sheep are depastured in practically all districts of the State, but are relatively more numerous in the Wimmera, Western and Northern districts. The distribution of all live stock is shown in table on page 474.

Factors such as seasonal conditions, prices of wool, mutton and lamb and, to a lesser degree, wheat, affect the number of sheep in the State in any given year. In an adverse season flocks may be reduced by mortality due to lack of fodder or water, by the increase in the slaughtering of fat stock or by the decrease in lambing. Decreased imports from other States is another factor. In addition to the seasonal movements of sheep from New South Wales for agistment, there is a regular importation of sheep from that State, and to a lesser degree from South Australia, for slaughtering purposes.

The following table contains a classification of the flocks of sheep in each district of Victoria as at March, 1939.

Sheep travelling on roads or located in cities or towns are excluded. The classification discloses that, although the four groups with sheep under 500 comprise 72·15 per cent. of the owners, the number of sheep in those groups was only 23·62 per cent. of the total sheep in the State.

FLOCKS OF SHEEP IN

				Total in	Victoria.			Distr	ricts.	
Si	ze of Floc	k.	Flocks.		Sheep		Се	ntral.	North-Central	
		No.	Percentage to Total.	No.	Percentage to Total.	Flocks.	Sheep.	Flocks.	Sheep.	
						·	No.	No.	No.	No.
Under 5	0		5,295	16:43	112,737	. 67	625	13,634	332	7,725
50 a	nd under	100	3,376	10.47	240,384	1.42	149	32,333	274	19,507
100	**	250	8,002	24 · 83	1,321,381	7.81	936	153,779	680	110,921
250	,,	500	6,581	20.42	2,320,931	13.72	692	246,059	578	201,488
500	,,	1,000	5,017	15.57	3,479,198	20:57	446	309,794	433	303,025
1,000	,,	2,000	2,588	8.03	3,504,747	20.72	187	251,571	228	307,345
2,000	,,	3,500	843	2.62	2,158,984	12.76	55	142,513	73	185,677
3,500	,,	5,000	206	· 64	849,267	5.02	15	62,723	17	71,175
5,000	.,	7,500	166	- 51	1,005,690	5 · 94	6	35,661	12	71,82
7,500	,,	10,000	72	· 22	609,536	3 · 60	8	69,671	4	32,74
10,000	,,	15,000	58	·18	673,455	3.98	3	35,839		
15,000	,,	20,000	11	. 03	184,309	1.09	1	15,463	1	15,53
20,000 :	and over		17	. 05	455,963	2.70	. 1	62,421	<u> </u>	
7	otals		32,232	100.00	16,916,582	100.00	3,424	1,431,461	2,632	1,326,956

Seasonal conditions also play a large part in determining the proportion of lambs dropped to ewes mated, and thus a wide variation from the average natural increase may be experienced in any particular season. The following table shows the percentage of lambs marked in each of the five years, 1934 to 1938.

VICTORIA-LAMBING PERCENTAGE, 1934 TO 1938.

	Year.		Proportion of Lambs Marked to Ewes Mated.
	 		%
1934	 	 	82.3
935	 • • •	 	$83 \cdot 4$
936	 	 	76.5
937	 	 	$83 \cdot 5$
1938]	$68 \cdot 1$

VICTORIA AS AT MARCH, 1939.

					Districts-	-contin	wed.				
W	estern.	Wir	nmera.	М	Mallee.		rthern.	Norti	n-Eastern.	Gippsland.	
Flocks.	Sheep.	Flocks.	Sheep.	Flocks	Sheep.	Flocks.	Sheep.	Flocks.	Sheep.	Flocks.	Sheep
No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.	No.
1,433	25,276	545	13,591	319	7,958	759	18,400	449	9,800	833	16,353
536	37,185	446	32,087	387	28,137	734	52,699	256	18,017	294	20,419
988	163,198	1,115	185,129	1,269	212,484	1,870	307,318	605	99,586	539	88,966
923	333,712	1,017	357,461	915	313,222	1,393	486,207	633	229,711	430	153,071
1,137	807,212	778	536,418	330	216,844	943	643,029	584	406,872	366	256,004
851	1,176,037	434	588,725	96	123,664	301	401,016	283	375,245	208	281,147
340	876,926	157	397,842	13	31,674	56	144,569	69	177,262	80	202,521
100	408,238	27	111,746	2	8,295	13	53,759	13	52,250	19	81,081
110	674,491	16	96,726			7	41,233	6	33,659	9	52,098
43	366,110	. 9	76,180	1	8,026	3	23,375	3	24 ,620	1	8,812
48	562,445	2	20,270			4	44,417	1	10,484		
6	99,068	2	34,519			1	19,727				
14	349,465			1	24,077					1	20,000
6,529	5,879,363	4,548	2,450,694	3,333	974,381	6,084	2,235,749	2,902	1,437,506	2,780	1,180,472

Although the principal breed of sheep in the State is the "Merino," the percentage of pure Merino sheep is only 39 as compared with 85 in New South Wales. Merino Comebacks, the progeny of Crossbred ewes mated to Merino rams, number 34 per cent., other crossbreeds 24 per cent. and other British and Australasian breeds 3 per cent. of the sheep of Victoria.

Australasian breeds are the Polwarth and the Corriedale. The Polwarth is a Merino-Lincoln cross (approximately three-quarters Merino and one-quarter Lincoln). It was evolved to meet the conditions of light wool growing localities found to be too wet and cold for the pure merino. The Corriedale was evolved by heavily culling the progeny of Lincoln rams and Merino ewes and by judicious mating over several years. The Corriedale is a dual purpose sheep, being favoured by many breeders both for lamb raising and for wool production.

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The actual numbers of each breed of sheep are set out in the following table:—

BREEDS OF SHEEP IN VICTORIA.

Breed of Sheep.		Year	(as at 1st Ma	rch).	
	1932.	1933.	1934.	1935.	1936.
Merino	6,044,998	6,500,372	6,625,544	6,551,084	6, 808,05 4
Polwarth	171,508	181,486	199,155	235,509	244,733
Corriedale	64,830	115,323	124,850	145,948	153,698
Border Leicester	101,067	96,978	97,554	79,954	60,298
Lincoln	21,090	20,880	20,111	17,447	9,993
Leicester (England)	19,330	19,763	16,361	13,621	8,787
Dorset Horn	11,593	15,846	14,770	15,873	17,437
Southdown	11,249	12,189	12,861	15,941	19,699
Romney Marsh	11,921	14,018	10,704	10,677	8,166
Shropshire	7,834	7,207	9,415	6,411	6,038
Other Pure Breeds	4,375	5,384	4,490	5,663	5,116
Merino Comebacks	5,980,989	6,343,174	6,027,398	5,612,233	5,863,083
Other Crossbreeds	3,896,731	4,150,351	3,978,303	4,020,233	4,193,963
Total Sheep (exclusive of those travelling and in cities)	16,347,515	17,482,971	17,141,516	16,730,594	17,399,065

Rams, Ewes, &c., in Counties at March, 1939. The following table sets out the numbers of rams, ewes, wethers and lambs depastured in each county of the State as at March, 1939.

RAMS, EWES, ETC., IN EACH COUNTY OF VICTORIA AS AT MARCH, 1939.

County.	One Ye	ar Old and U	pwards.	Under One Year.	Total Sheer
county,	Rams.	Ewes.	Wethers.	Lambs.	and Lambs.
	Number.	Number.	Number.	Number.	Number.
	, rumber.	11amber.	11dilloc1.		
Bourke	. 5,212	215,683	99,316	62,785	382,996
$\operatorname{Grant} \dots .$. 7,981	386,128	190,713	131,831	716,653
Mornington .	. 3,659	159,425	34,384	60,305	257,773
\mathbf{Evelyn}	. 1,417	42,011	14,878	15,733	74,039
Anglesey	. 4,321	203,371	195,487	64,816	467,995
Dalhousie .	. 6,226	248,123	101,969	58,332	414,650
Talbot	. 6,906	282,505	73,574	81,326	444,311
${ m Grenville} \dots .$. 7,364	312,075	192,059	116,926	628,424
Polwarth	2,304	92,020	38,820	36,705	169,849
Heytesbury .	. 979	41,992	7,792	15,611	66,374
Hampden .	. 12,496	498,547	225,041	216,093	952,177
Rigon	. 10,674	433,992	253,909	173,788	872,363
Villiers	. 10,526	483,939	329,686	250,054	1,074,205
	5,939	335,573	306,388	146,460	794,360
Dundas	. 7,001	402,861	424,713	164,438	999,013
${ m Follett} \dots .$	1,743	89,076	197,229	34,550	322,598
Lowan	. 10,152	469,660	432,296	214,677	1,126,785
Borung	. 9,490	424,022	226,612	144,500	804,624
Kara Kara .	. 7,487	276,636	138,006	97,156	519,285
Millewa	. 1,458	74,890	11,577	18,802	106,727
Weeah \dots .	. 1,869	98,746	15,897	25,643	142,155
Karkarooc .	5,552	286,330	26,547	65,094	383,523
Tatchera	. 5,625	259,272	19,927	57,152	341,976
Gunbower .	. 5,368	232,553	32,269	72,735	342,925
${ m Gladstone}$.	. 5,415	237,395	78,455	69,688	390,953
${f B}{f e}{f n}{f d}{f i}{f g}{f o}$	6,525	271,658	51,221	59,984	389,388
$\operatorname{Rodney} \ldots$.	7,441	285,588	48,672	71,077	412,778
Moira	. 13,922	534,906	71,589	79,288	699,705
Delatite	. 8,648	424,987	129,047	102,861	665,543
${f B}$ ogong	5,429	260,024	63,361	66,119	394,933
Benambra .	2,942	163,973	96,993	65,352	329,260
Wonnangatta .	. 358	20,339	17,130	9,943	47,770
Creajingolong .	273	24,687	16,747	12,443	54,150
$\Gamma m{ambo}$. 1,155	60,374	26,752	27,017	115,298
Dargo	. 807	48,039	26,600	25,339	100,785
Γ anjil	. 3,474	186,498	105,861	90,406	386,239
Buln Buln .	4,640	231,675	197,015	90,670	524,000
Total .	. 202,778	9,099,573	4,518,532	3,095,699	16,916,582
In Towns an	d				
Travelling .		74,394	• • •	16,376	90,770
Grand Total .	. 202,778	9,173,967	4,518,532	3,112,075	17,007,352

Production of Wool.

Statistics of wool production are obtained direct from the growers, from fellmongeries and, in respect of wool exported on skins, from the Customs Department.

The output of wool is stated in the grease as, except in the case of fellmongered wool, scoured weights are not available.

VICTORIA—SHEEP AND LAMBS SHORN (IN DISTRICTS) SEASON 1938-39.

	-	Sho	rn,	Wool Cl (including Cr		Average.	
District.		Sheep.	Lambs.	Sheep's.	Lambs'.	Per Sheep,	Per Lamb
		No.	No.	lb.	lb.	lb.	15.
Central		1,301,712	244,230	9,723,455	491,268	7 · 47	2.01
North-Central		1,365,736	221,230	9,873,779	413,619	7 · 23	1.87
Western		5,490,666	1,228,696	44,474,667	2,505,547	8.10	2.04
Wimmera		2,365,787	494,125	19,851,056	1,131,569	8.39	2 · 29
Mallee		1,039,608	192,710	7,929,433	398,061	7:63	2.07
Northern		2,390,592	441,964	16,156,382	914,264	6 · 76	2.07
North-Eastern		1,388,616	295,729	9,597,781	530,274	6.91	1.79
Gippsland		976,467	249,919	7,059,858	414,891	7 23	1.66
State Totals		16,319,184	3,368,603	124,666,402	6,799,493	7:64	2.02

VICTORIA—SHEEP SHORN AND WOOL CLIPPED.

0		Sho	rn.	Wool Cl (including C		Average.	
s	eason.	 Sheep.	Lambs.	Sheep's.	Lambs'.	Per Sheep,	Per Lamb.
		No.	No.	lb.	lb.	lb.	Ib.
1934 –35		 13,854,421	3,560,123	108,668,252	7,653,639	7.84	2.15
1935-36		 14,962,109	3,427,684	117,845,531	7,627,166	7.88	2.23
1936-87		 15,654,911	3,361,578	118,994,899	7,346,487	7.60	2 19
1037-39		 16,402,071	4,308,272	133,228,048	9,176,862	8.12	2.13
1938-39		16,319,184	3,368,603	124,666,40 2	6,799,493	7:64	2:02

VICTORIA—WOOL	PRODUCTION	AND	VALUE

	Season.		Clip.	Stripped from and Exported on Skins, &c.	Total Quantity.	Gross Value.	Average Price per lb.
			Ib.	lb.	16.	£	d.
193435	••	••	116,321,891	34,623,993	150,945,884	5,987,948	9.52
1935-36		••	125,472,697	37,925,199	163,397,896	9,506,557	13.96
1936-37	••		126,341,386	36,707,124	163,048,510	11,133,757	16:39
1937-38	••		142,404,910	36,485,221	178,890,131	9,517,061	12.77
1938-39		••	131,465,895	34,363,287	165,829,182	7,315,016	10.59

The annual collection of statistics is carefully and efficiently carried out by the police. It is expected, however, that the wool clip as recorded is not likely to cover the whole clip, which was shorn some months prior to the collection. After investigation, and examination of the results of investigations elsewhere, it is considered that the quantity not recorded does not exceed 5 per cent. of the Victorian clip.

There is some uncertainty also associated with skin wool. Allowance is made for skins from other States which are exported from Victoria, so that they are not included in Victorian production. The Victorian figures do, however, include skin wool from all sheep and lambs slaughtered in Victoria, even though some of such sheep were brought over from other States for slaughter.

The following information as to the average prices of wool per lb. which have prevailed during the last three seasons has been obtained from Victorian wool brokers. These prices are not for Victorian wool only, but for wool sold in Victoria. Wool from the Riverina and the south-east of South Australia is included in Victorian sales.

PRICES OF WOOL SOLD IN VICTORIA, 1936-37 TO 1938-39.

Class of Wool.	A	Average Price per lb. in-			
Cates of Wood.	1936-37.	1937–38.	1938–39.		
GREASY MERINO.	Pence.	Pence.	Pence.		
Extra Super (Western District) .	. 30 to 33	20 to 23	18 to 21		
Super	. 26 to 29	18 to 20	16 to 18		
Good			14 to 16		
Average	. 18 to 20	14 to 16	12 to 14		
Wasty and Inferior	. 12 to 15	10 to 13	8 to 11		
Extra Super Lambs	. 30 to 36	19 to 21	17 to 19		
Super Lambs	. 22 to 26	16 to 18	14 to 16		
Good Lambs	1 10 4- 00	12 to 14	10 to 12		
Average Lambs	. 13 to 15	10 to 12	8 to 10		
Inferior Lambs	9 to 11	7 to 9	5 to 7		
Greasy Crossbred.					
Extra Super Comebacks	. 30 to 32		18 to 20		
Super Comebacks	. 26 to 28		16 to 17		
Fine Crossbred	. 21 to 23		14 to 15		
Medium Crossbred	. 17 to 19	14 to 15	13 to 14		
Coarse Crossbred and Lincoln .	. 15 to 18		12 to 13		
Super Fine Crossbred Lambs .	. 18 to 20	13 to 14	11 to 12		
Good Crossbred Lambs	. 16 to 18		'9 to 11		
Coarse and Lincoln Lambs	. 12 to 14	9 to 10	7 to 8		
SCOURED.					
Extra Super Fleece	. 42 to 44	26 to 30	22 to 26		
Super Fleece	. 39 to 41		21 to 25		
Good Fleece	. 34 to 36		18 to 20		
Average Fleece	. 30 to 32	2 18 to 20	16 to 18		
RECORD PRICES FOR THE SEASON.					
Greasy Merino Fleece	. 361	$33\frac{1}{2}$	$26\frac{1}{4}$		
" Comeback Fleece	$31\frac{1}{2}$	$26\frac{3}{4}$	$20\frac{1}{2}$		
" Merino Lambs	. 43	$32\frac{1}{2}$	$26\frac{1}{2}$		
" Comeback Lambs	. $32\frac{1}{4}$	24	21		
Scoured Fleece	961	27	241		

Prices of Live Stock.

In the subjoined table will be found a statement of the average and of the range of prices of live stock ruling in metropolitan saleyards at Newmarket during the years 1937–38 and 1938–39. The averages stated are the mean of the

monthly prices realized. Prices of live stock vary each year under the influence of seasonal conditions, prices of wool, &c. During periods of dry weather, stock are hastened to market and consequently prices decline but, with the advent of relief rains, stock are withheld from market for fattening, breeding, &c., and prices rise.

VICTORIA—PRICES OF LIVE STOCK, 1937-38 AND 1938-39.

		1937-38.	1938–39.
Stock.	Average,	Range.	Average, Range,
Fat Cattle.	£ s. d.	£ s. d. £ s. d.	\pounds s. d. \pounds s. d. \pounds s.
Bullocks— Extra prime Prime Good Good light and	16 19 7 14 16 9 11 14 5	15 8 1 to 19 8 1 12 18 5 to 16 12 4 9 18 9 to 13 8 9	18 9 2 15 13 1 to 23 2 15 13 3 13 7 9 to 19 11 12 16 1 9 17 6 to 15 17
handy weights Second	9 14 6 7 15 5	8 3 9 to 11 17 6 6 6 3 to 9 15 0	10 4 9 7 15 0 to 12 17 8 4 11 6 5 7 to 9 16
Best Others	$\begin{bmatrix} 10 & 4 & 3 \\ 6 & 0 & 1 \end{bmatrix}$	8 12 2 to 12 3 1 4 12 6 to 7 5 0	11 6 3 9 6 10 to 14 2 5 1 8 3 15 0 to 6 8
Dairy Cattle.			
Milkers (best) Springers (best)	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	9 7 6 to 13 10 4 7 0 7 to 10 3 1	12 18 8 10 16 10 to 14 18 10 1 7 8 0 7 to 12 5
Fat Sheep.			
Extra prime	1 11 3 1 7 2 1 3 10	1 4 3 to 2 3 0 1 2 5 to 1 19 4 0 18 6 to 1 15 1	1 5 3 0 18 7 to 1 15 1 2 9 0 16 8 to 1 11 0 19 8 0 14 0 to 1 7 1
Extra prime Prime Good	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	0 15 5 to 1 14 11 0 13 3 to 1 11 1 0 11 4 to 1 5 7	0 19 3 0 10 8 to 1 8 0 16 6 0 9 2 to 1 5 0 14 5 0 8 7 to 1 0
Merino Wethers— Extra prime Prime Good	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 2 8 to 1 18 7 0 17 10 to 1 17 4 0 14 11 to 1 12 10	1 2 9 0 11 4 to 1 13 1 0 0 17 1 0 9 0 to 1 6
Fat Lambs.			
Extra prime Prime Good	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	1 4 4 to 1 16 7 1 1 4 to 1 11 1 0 18 4 to 1 7 2	1 4 2 1 1 5 to 1 8 1 1 8 0 18 7 to 1 5 0 18 11 0 15 10 to 1 2
Pigs.			
Back Fatters— Extra heavy prime Prime medium	} Not	Available.	Not Available. 6 8 8 5 3 9 to 8 0 1
and weighty Baconers— Medium and heavy Light Porkers	3 19 5 3 3 7 2 4 4	3 15 1 to 4 7 4 2 19 9 to 3 8 1 2 0 6 to 2 9 0	4 0 6 3 11 9 to 4 11 1 3 5 11 3 0 4 to 3 11 1 2 8 8 2 0 8 to 2 14

Staughtered. The following table shows the numbers of slaughtering establishments and the stock slaughtered in the State during each of the five years, 1935–39.

VICTORIA—STOCK SLAUGHTERED, 1935 TO 1939.

		Stock Slaughtered in Establishments and on Farms and Stations.								
Kind of Stock		Year ended June—								
		1935.	1936.	1937.	1938.	1939,				
		No.	No.	No.	No.	No.				
Sheep		3,377,398	3,106,757	3,087,809	3,474,819	3,699,566				
Lambs		4,268,672	4,584,731	4,826,624	4,653,725	4,028,208				
Bullocks		181,087	183,140	208,569	199,032	167,826				
Cows		150,868	200,779	216,073	216,495	195,426				
Young Cattle		59,294	80,272	86,950	89,860	81,157				
Calves		201,999	310,204	393,297	465,951	367,294				
Pigs		414,739	495,499	568,477	509,041	434,368				
Number of Slaugl	iter-									
houses		774	779	769	755	721				

The importance of the mutton and lamb export trade to sheep owners is indicated by the export figures for the years 1935 to 1939 as shown in the statement hereunder.

Seasonal influences are principally responsible for fluctuations in the various years.

FROZEN MUTTON AND LAMB EXPORTED FROM VICTORIAN PORTS.

				Carcasses	Exported.				
Year en 30th Jui			Mutton.		Lamb.				
		Number.	Average Weight.	Value.	Number.	Average Weight.	Value		
			1b.	£		lb.	£		
1935		439,179	44	297,002	2,714,441	30	2,134,761		
1936		312,808	43	224,243	2,921,902	33	2,489,952		
1937		367,622	44	283,521	3,159,806	32	2,803,421		
1938		331,674	41	214,047	3,207,620	30	2,904,460		
1939		367,835	40	201,586	2,853,876	30	2,356,159		

Cattle. The cattle industry of Victoria has always been one of the more important primary industries in this State, despite the gradual increase in the areas that have been given up to dairy

farming, sheep-raising, and cultivation. This has been due mainly to the considerable improvement in methods of pasture management, including the adoption of top-dressing. The vigilant inspection of stock and the rigid quarantine of stock imported from oversea have kept herds in Victoria free from many forms of contagious diseases and animal pests with which stock in other countries are afflicted.

Ensilage is an economical and safe method of conserving fodder, moreover it is presented in a succulent form which is relished by stock during dry periods. Expensive precautions against damage by fire, rodents and stock, required for other fodders, are not necessary in the case of silage.

The following table gives particulars of the silage made in Victoria

during the seasons 1934-35 to 1938-39:-

SILAGE IN VICTORIA, 1934-35 TO 1938-39.

•	.*	Districts in which made.								
Season.	Farms on which Silage made.	Silage made.	Central.	North Central.	Westeru.	Winmera.	Mallee.	Northern,	North Eastern.	Gippeland.
	No.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.	Tons.
1934-35	369	22,145	6,932	258	1,818	50	212	1,172	5,422	6,281
1935-36	326	22,346	7,115	262	788	233	55	878	5,519	7,496
1936-37	549	32,902	11,635	886	2,085	281	150	1,022	4,617	12,226
1937-38	841	46,860	14,094	533	4,043	332	488	1,801	9,351	16,218
1938-39	549	28,716	6,675	389	3,696	438	152	952	7,847	8,567

Prior to the season 1936; the statistics of honey and beeswax were based on returns received from apiarists who were permanent occupiers of holdings of one acre and upwards. As a consequence, production was understated because of the exclusion of (a) hives on areas of less than one acre, and (b) travelling beekeepers who were not occupiers of rural holdings.

Since the season 1935-36, returns from all beckeepers have been collected, the particulars of which are given in the following table:—

VICTORIA—BEE-HIVES, HONEY AND BEESWAX, 1935-36 TO 1938-39.

			Bee-	:	Produc	tion.	Gross	Value.
Seaso	n ended M	lay—	keepers.	Hives.	Нопеу	Beeswax.	Honey.	Beeswax.
			No.	No.	lb.	lb.	£	£
1936			3,330	99,650	5,901,463	61,849	92,210	4,123
1937			3,422	99,618	3,439,262	40,612	53,738	2,707
1938			3,119	92,226	4,541,516	54,184	70,961	3,612
1939			2,445	63,986	1,340,046	22,285	27,918	1,300

State expenditure Active operations for the destruction of vermin and on destruction noxious weeds on Crown lands were first undertaken by of vermin and noxious weeds, the Government in 1880. Subsidies to Shire Councils for the destruction of wild animals are made from revenue, and advances to municipalities and farmers for the purchase of wire netting from Loan Funds. The following are the amounts spent during the last five years:—

VICTORIA—EXPENDITURE ON DESTRUCTION OF VERMIN AND NOXIOUS WEEDS, 1934–35 TO 1938–39.

	Year.		From Revenue.		Wire Netting Advances from Loan Funds.
1934-35		••		£ 86,359	£ 18,384
1935-36	• •			98,135	19,444
1936-37				95,957	19,585
1937-38		••		92,935	14,235
1938-39				83,248	15,235

Poultry Census. The following table shows the number of poultry owners and of poultry in Victoria, as at the date of the Census in each of the years 1881, 1891, 1901, 1911, and 1933.

VICTORIA—POULTRY OWNERS AND POULTRY.

	Census.		nsus. Pountry owners.		Ducks.	Geese.	Turkeys.	
1881		• •	No. 97,152	No. 2,332,529	No. 181,698	No. 92,654	No. 153,078	
1891			142,797	3,487,989	303,520	89,145	216,440	
1901	<i>:</i> .		132,419	3,619,938	257,204	76,853	209,823	
911		. •	144,162	3,855,538	288,413	59,851	190,077	
933		٠.	155,672	5,496,969	292,882	39,283	113,966	

NOTE.—Details of the classification of poultry for each statistical district of the State are obtainable from the Government Statist.

The Census of 1933 disclosed that there had been an increase in the number of poultry owners since 1911, that there were considerably more fowls than at that year, that ducks had slightly increased, and that both geese and turkeys had decreased in numbers.

Of the number of fowls in the State, 43 per cent. were in the Central district, which consists of the counties of Bourke, Grant, Mornington, and Evelyn, and, of the turkeys, 33 per cent. were in the Northern district.

In addition to the poultry enumerated in the table, there were, at the date of the 1933 census, 1,267 guinea fowls, 322 pea fowls, and 411 pheasants.

Wholesale and Retail Prices of principal products.

The following table gives the yearly average (mean of monthly averages) of the Melbourne wholesale prices of the principal agricultural, dairying, and pastoral food products for the years 1934-35, 1935-36, 1936-37, 1937-38, and 1938-39.

MELBOURNE-WHOLESALE PRICES-YEAR ENDING JUNE.

		1934–35.	1935-36.	1936-37.	1937–38.	1938–39.
Agricultural— Wheat Barley— English Cape . Oats Milling Maize . Peas . Bran Pollard . Flour (first quality Oatmeal (bulk) . Potatoes	per ton	£ s. d. 0 2 11 0 2 11 0 2 5 0 2 3 3 0 4 2 3 4 14 0 8 8 3 5* 19 10 6 8 5 6	£ s. d. 0 3 53 0 2 103 0 2 48 0 2 28 0 4 103 5 9 0 5 16 7 9 3 5* 18 15 1 8 8 0	£ s. d. 0 4 111 0 4 03 0 3 7 0 2 74 0 5 63 0 0 5 23 6 0 11 12 9 6 18 13 10 6 15 2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	£ s. d. 0 2 9 0 3 6 0 2 11½5 0 3 58 0 5 2¼ 0 8 1¾ 5 18 4 5 18 1 10 17 6† 23 4 2 13 4 2 16 15 9
Onions Butchers' Meat—Beef, prime	per 100 lb.	7 3 0 1 5 11 0 0 3 1 0 0 6 1 0 0 2 1 0 0 5 1	0 0 61	0 0 63	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	1 19 8 0 0 3½ 0 0 8¼ 0 0 4k 0 0 6¾
Cheese (matured) Honey	Produce— . per lb " . " . " . " . per doz.	0 1 3 0 0 113 0 1 3 0 0 113 0 0 4 0 1 0	0 1 2 4 0 1 1 1 6 0 0 3 18	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

Price quoted excludes tax of £2 12s. 6d. payable from 7th January, 1935, to 25th February, 1936
 Price quoted includes tax as from 5th December, 1938.

The average Melbourne retail prices of the various agricultural, dairying and pastoral products shown in the following table are based on the prices quoted by retail shops in the metropolis in returns furnished to the Commonwealth Statistician.

The annual averages represent the mean of the monthly prices during each year.

MELBOURNE—RETAIL PRICES—YEAR ENDING JUNE.

	- →,	193	435.	193	5-36,	1936	-37.	1937-	38.	1938	⊢39 .
Agricultural— Flour Bread Oatmeal Potatoes Onions	per 25 lb. per 4-lb. loaf per lb. per 14 lb per lb.	8. 3 0 0 1	d. 2 81 2 2 43 11	8. 3 0 0 1	$\frac{91}{24}$	(21b.) ((7 lb.) ((2 lb.) 0 0 0 (7 lb.) 0 0	101 31	(2 lb.)	$egin{array}{cccccccccccccccccccccccccccccccccccc$
Butchers' Meat— Beef Steak, rump Mutton Mutton chops Pork	per lb.	0 1 0 0 0	61 03 51 63 93	$\begin{array}{c} 0 \\ 1 \\ 0 \\ 0 \\ 0 \end{array}$	63 01 51 71 93	() () ()	1 1 6	0 1 0 0 0	8' 2½ 6½ 8½ 11¼	(0 9 1 34 0 64 0 83
Dairy and Farmya Butter Cheese (mild) Milk Bacon (rashers) Ham (uncooked) Eggs	per lb. per quart per lb.	1 0 0 1 1 1	51 11 6 34 42 31	1 1 0 1 1	51 0 61 31 41 31	1 1 · 6 1	0	1 1 0 1	61 01 61 71 7	1 1 0 1	l 71 L 14) 7 L 71

Establishment of Marketing Boards.

A summary of the principal legislative provisions of the Marketing of Primary Products Act 1935 appears on pages 446 to 448 of the Victorian Year-Book for 1934-35.

Pursuant to such Act, Marketing Boards have been constituted for onions, chicory, maize, and eggs and egg pulp.

FORESTRY.

Administration. The State forests comprise both reserved and protected forests and are controlled by a Commission of three which was first appointed in 1919. Pursuant to the *Public Service (Transfer of Officers) Act* 1937 the staff of the Commission was transferred to the State Public Service.

For the purposes of administration, the State forests are divided into five inspectorates and 52 forest districts.

Area of Permanently Reserved Forest.

At the 31st December, 1938, the forest area of the State was 4,845,557 acres, of which 4,121,582 acres were classified as permanent forests, and 723,975 acres as timber reserves. Of this area, 2,024,131 acres have been assessed by survey, of which 1,267,366 acres have been brought under working plans for more intense management. The area of indigenous forest improved or regenerated was 980,788 acres.

Protected forests. In addition to the 4,845,557 acres aforementioned, there were 330,027 acres reserved as State Forests and Timber Reserves under the Land Acts. Including these reserves, but excluding areas reserved as sites for Gardens, Parks and Recreation Purposes, all remaining Crown lands have been proclaimed "Protected Forests." It should not be assumed, however, that all of these lands are "forests" as the term is generally understood, as over 6,000,000 acres comprise roads, water frontages, beds of rivers and lakes, and unsold land in cities, towns and boroughs. In addition, on the area of more than 8,000,000 acres in occupation under grazing and other leases, much of the timber is of little or no commercial value because of remoteness, inaccessibility, and other causes.

Statements in respect of the disposition of Crown lands will be found on pages 415 and 417 ante.

Nurseries. To encourage the growth of softwoods or conifers in both State and private plantations, three large nurseries have been established at Creswick, Macedon, and Broadford. In addition to providing trees for the plantations, the nurseries supply considerable numbers of plants at low rates to State schools, public bodies, and private applicants. This has proved of great benefit to the community by fostering an interest in tree planting generally, and especially by encouraging farmers to plant in order to afford protection to their homesteads and to provide shade and shelter for their flocks and herds.

Forestry Fund was established in 1918 by Act No. 2976, and made applicable only to expenditure on the improvements and reafforestation of State Forests and the development of forestry. In each year the Treasurer makes a grant to the Fund of £40,000 (reduced to £32,000 under the provisions of the Financial Emergency Act 1931) out of the Consolidated Revenue, and also transfers half of the amount in excess of £80,000 received from royalties, leases, licences, and permits.

The revenue derived from forest sources during the financial year 1938–39 was £198,157, and the expenditure £406,176—£167,611 of which was paid out of the Unemployment Relief Fund, £111,700 out of the Consolidated Revenue, £45,842 out of loan funds, and the balance—£81,023—from the Forestry Fund.

Forests The output from State Forests in 1938–39 was 8,108,000 cubic feet of sawn timber. In addition, 11,350,000 cubic feet of fuel timber and 787,000 cubic feet of miscellaneous timber were produced.

Particulars of sawn timber and firewood, from all sources, will be found on pages 519 and 520 of this volume.

Silviculture of Indigenous Forests. The various types of silvicultural operations in the indigenous forests over the period 1935-36 to 1938-39 are indicated in the following table:—

VICTORIA—SILVICULTURAL OPERATIONS IN STATE FORESTS, 1935–36 TO 1938–39.

Nature of Work.		1935-36.	1936-37.	1937-38.	1938-39.
Second or subsequent thinning Regeneration or liberation treatment to ring-barking Artificial regeneration by sowing	 oy 	Acres. 59,598 17,325 39,186 352	Acres. 63,828 16,073 28,551 20	Acres. 41,823 10,413 16,392	Acres. 16,788 10,027 4,478
Salvage felling		$ \begin{array}{r} 82,848 \\ 318 \\ \hline 199,627 \end{array} $	101,844 64 210,380	85,859	42,368 ·· 73,661

Plantations of Exotic Timbers.

The total area planted during the 1938 planting season was 2,131 acres, comprising extensions to existing plantations, 1,311 acres; restocking cut-over areas, 118 acres; conversion, 108 acres; and renewals, 594 acres. The area planted according to species during the 1938 season and the total area of coniferous plantations at the end of that season are shown in the following table:—

VICTORIA—CONIFEROUS PLANTATIONS, 1938.

	-		Area Planted 1938 Season.	Total Area of Coniferous Plantations.
Monterey Pine (Pinus Radiata) Western Yellow Pine (Pinus ponderosa) Douglas Fir (Pseudotsuga taxifolia) Corsican Pine (Pinus laricio) Maritime Pine (Pinus Pinaster) Prickle Pine (Pinus Muricata) Sitka Spruce (Picea sitchensis) Other Species		::	Acres. 1,457 152 86 190 34	Acres. 31,132 6,501 4,052 4,831 2,981
			2,131	51,263

The plantation output of felled softwood timber in 1938–39 amounted to 4,274,744 superficial feet, which realized £10,824. The corresponding figures for 1937–38 were 5,500,000 superficial feet and £13,520. Approximately 60 per cent. of the 1938–39 output consisted of thinnings and the balance of clear fellings.

Other Commercial Soft a cod Plantations.

There are not many private commercial plantations of softwoods in Victoria. The largest is at Dartmoor, near the South Australian border, where a company holds 11,361 acres (approximately 9,000 acres in Victoria) of which 7,000 acres have been planted. The same company holds 1,225 acres at

Rosebud (403 acres planted).

The Ballarat Water Commission has an area of approximately 3,500 acres available for afforestation, of which 1,000 acres are planted with conifers. Its present planting programme provides for 250,000 trees (50 acres) per annum.

Trees and forest thinnings, down to a diameter of about 5 inches, are utilized in the Commission's case-making plant, the output of Smaller diameter which amounts approximately to £10,000 per annum.

thinnings are disposed of for paper pulping purposes.

Severe damage to the plantations was caused by the bush fires of 1939, about 240,000 trees being destroyed. The loss, after making allowance for the timber salvaged, has been estimated at £10,000.

The Wood Pulp Agreement Act 1936 (No. 4451) passed on 27th December, 1936, is "an Act to ratify validate The Wood-Pulp approve and otherwise give effect to an agreement between Agreement Act. the Minister of Forests, the Forests Commission, and Australian Paper Manufacturers Limited with respect to the establishment of the wood-pulp industry." The agreement which is for fifty years provides inter alia that the Company (Australian Paper Manufacturers Limited) on its part shall, within three years of date of agreement, expend £300,000 in establishing the wood-pulp manufacturing industry and, on the part of the Forests Commission, the terms and conditions on which the Commission will provide the minimum annual supply to the Company of the variety of pulp-wood timber prescribed in the agreement. The Commission is required to provide and the Company to take, on an ascending yearly scale, such supply of pulp-wood as will produce, in the first year of commercial production, 10,000 tons of wood-pulp, increasing to 25,000 tons in the fifth year and thereafter.

The first manufacturing unit—the Pilot Mill-erected Preduction of in accordance with the above-mentioned agreement came into production in January, 1938, with a capacity production of 3,000 tons of air-dried pulp per annum. The main mill, which commenced production in October, 1939, has a capacity output of approximately 30,000 tons of kraft pulp per annum.

Supply of Pulp- ood from State Forests.

Consignment of pulp-wood from the State forests to the mill at Maryvale commenced in October, 1937. During the year 1938-39, deliveries to the mill, from State forests only, totalled 63,758 cubic feet.

THE GREAT BUSH FIRES OF 1939.

In January of 1939, as the culmination of a long period of drought, bush fires of an intensity and destructiveness unequalled in the history of the State swept the forest areas of Victoria. The climax occurred on the 13th January, a day of intense heat and northerly winds, when the many fires, which in the previous month had burned separately, appeared to join forces in a stupendous effort of annihilation.

Action to determine the causes of such State-wide fires was taken immediately by the State Government in appointing a Royal Commission on 27th January. The Commission was required to inquire into and report upon the causes of and measures taken to prevent the outbreaks and spread of such fires; the measures taken to protect life and property; and the measures which are desirable to be taken to prevent future bush fires and to protect life and property should further outbreaks occur.

The Commission heard evidence in country centres and in Melbourne, its sittings extending from 31st January to 17th April, 1939, and also inspected fire-ravaged areas in the main fire zones. The Commission's report and recommendations were submitted to His Excellency the Lieutenant-Governor of Victoria on 16th May, 1939, and subsequently presented to Parliament.

In addition to performing adequately its main purpose, the introduction to the report of the Royal Commission provides an awe-inspiring background against which vivid details of the holocaust are presented. "The speed of the fires was appalling. They leaped from mountain peak to mountain peak, or far out into the lower country, lighting the forests 6 or 7 miles in advance of the main fires. Blown by a wind of great force, they roared as they travelled. Balls of crackling fire sped at a great pace in advance of the fires, consuming with a roaring, explosive noise, all that they touched. Houses of brick were seen and heard to leap into a roar of flame before the fires had reached them. Great pieces of burning bark were carried by the wind to set in raging flame regions not yet reached by the fires. Such was the force of the wind that, in many places, hundreds of trees of great size were blown clear of the earth, with tons of soil and embedded masses of rock still adhering to the roots."

It is estimated that the fire losses extended over more than 5,000,000 acres, including 2,000,000 acres of protected forests and 1,500,000 acres of reserved forest. The full extent of the State's losses cannot be measured in terms of money. Seventy-one lives were lost amongst the forest workers and many others suffered hardships and privations (see references on pages 5 and 286 of this Year-Book.)

Many of the sylvan beauty spots of the State were destroyed and water supply and soil conservation endangered. The material losses included about 700 dwellings, 10 guest-houses and hotels, 1 hospital, and 69 sawmills with plant, &c. Over 4,000,000 acres of forest, pastoral, and agricultural land were laid waste or badly damaged. In the central highlands alone, the fires killed over 2,000,000,000 superficial feet of commercial timber, the exploitation of which in normal circumstances would have occupied 20 years of regulated cutting. The fires swept over approximately 10,000 acres of pine plantations, the bulk of which, consisting of young trees, was completely destroyed.

Faced with the urgent need of attempting to salvage some of the fire-destroyed timber, to replace the mills and thus to find employment for those forest workers whom the fires had robbed of their livelihood, the Minister of Forests convened a meeting of representatives of the timber industry. Arising from that meeting an expert committee was formed, consisting of representatives of the Hardwood Millers' Association, the Timber Merchants, the Timber Workers' Union, the Council for Scientific and Industrial Research, and the Forests Commission.

The Committee found that, provided the fire-killed trees were felled within two years and that adequate steps were subsequently taken for their preservation, it should be possible to salvage approximately 916,000,000 superficial feet of timber which could be marketed within a period of six years. To give effect to the recommendations of the Committee, Parliament passed the State Forests (Timber Salvage) Loan and Application Act 1939, wherein authority, was given for the expenditure of an amount not exceeding £475,000 for—

- (a) The carrying out by the Forests Commission of timber salvage operations in State forests.
- (b) The making of advances to sawmillers for or in connexion with the carrying out of timber salvage operations on their allotted milling areas in State forests; or
- (c) Otherwise for or in connexion with timber salvage operations in State forests.

As a work preliminary to the rehabilitation of the sawmilling industry and the salvage of the fire-damaged timber, the Government, on the recommendation of the Employment Council, made available a sum of £46,000 for the construction of roads and tramways in the burnt-out forest areas.

Further action taken by the State Government as a direct result of the fires was the convening of a conference of forest authorities of the Commonwealth and of the States. The recommendations of that conference are embodied in the amending *Forests Act* 1939 (No. 4703), and the *Bush Fire Brigades Act* 1939 (No. 4708).

FISHERIES.

Numbers of men and boats engaged in fishing. The numbers of men and boats engaged in the fishing industry at the different fishing stations throughout the State are given in the following table for the year 1938-39:—

VICTORIAN FISHERIES—MEN AND BOATS EMPLOYED, 1938–39.

771 11 01	Number	Воа	its.	Value of Nets and
Fishing Stations.	of Men.	Number.	Value.	other Plant.
			£	£
Anderson's Inlet (Inverloch)	12	9	310	199
Apollo Bay	31	14	1,096	443
Barwon Heads and Ocean Grove .	11	6	1,101	75
Brighton	17	4	158	29
Corner Inlet, Welshpool, Toora, and	l			1
Port Franklin	60	41	5,222	2,447
Dromana and Rosebud	20	19	1,770	165
Frankston		13	1,190	254
Geelong	109	44	3,680	1,056
Gippsland Lakes	132	123	7,957	3,377
Kerang	. 17	- 11	106	93
Lake Boga	. 2	2	8	16
Lorne	34	13	1,740	267
Mentone	. 8	3	183	90
Mordialloc, Chelsea, and Carrum .	0.0	36	2,823	1,186
36	9.4	28	1,641	484
Portarlington and St. Leonards	077	40	3,832	1,086
Portland	95	24	4,877	440
Port Albert	0.0	46	4,738	854
D : 0 1 11	2	ľ	120	10
Dt. De laure	55	35	11,360	963
35 . 35 H	79	68	1,686	347
2.00	0.9	58	9,767	1,124
a i i i i Di i Di	00	19	809	283
0 1 D 1 1 D	917	28	2,411	392
	50	16	854	470
St. Kilda	15	7	214	104
Torquay	20	5	1.115	110
Warrnambool	20	9	436	108
Werribee		9 2	17	108
Waranga Basin			1/	10
Western Port (Cowes, Hastings, Gran	100	104	13,148	1,976
ville, Flinders, San Remo, and Tooradi	1 30-			929
Williamstown and Altona		58	2,873	
Wonthaggi	. 13	7	833	167
Total	. 1,572	893	88,075	19,554

The quantities and values of fish sold in the Melbourne Fish Market during each of the years 1937–38 and 1938–39 were as shown in the next table:—

FISH SOLD IN THE MELBOURNE FISH MARKET, 1937–38 AND 1938–39.

		1937-	38.	1938-39.			
		Quantity.	Value.	Quantity.	Value.		
			£		£		
Fresh Fish (Victorian)	lb. 1	2,608,100	204,125	12,508,391	217,750		
Crayfish d	oz.	38,712	29,034	42,307	42,307		
Imported Fish (fresh or frozen)	lb.	3,222,116	120,027	2,989,476	110,358		
Oysters ba	ags	13,283	32,766	14,281	34,622		
Total		••	385,952	• •	405,037		

In addition to the above, 1,232 lb. of smoked fish and 44,850 lb. of prawns were sold in this market in 1938–39.

The quantity and value of fish caught in Victorian waters and sold in the Melbourne and Ballarat markets and in other towns in Victoria in 1938–39 were as follows:—

VICTORIAN FISH SOLD IN 1938-39.

	rkets.		Quanti	ity.	Value.		
Ma	rkets.		Fish.	Crayfish.	Fish.	Crayfish.	
			Ib.	doz.	£	£	
Melbourne			12,508,391	6,027	217,750	6,901	
Ballarat	••		322,711	271	4,746	171	
Other towns in	victoria	••	8,681	138	125	138	
Total	al	- A	12,839,783	6,436	222,621	7,210	

In connexion with this subject, the quantities and values of the different classes of fish imported are of interest. Particulars of imports from oversea countries in each of the past two years are given in the following statement:—

VICTORIA—FISH IMPORTED FROM OVERSEA, 1937–38 AND 1938–39.

<u></u>	1937	'–38.	19 38- 3 9.		
	Quantity.	Value.	Quantity.	Value.	
Fish—	lb.	£	lb.	£	
Fresh or Preserved by Cold Process	2,737,684	74.269	2,592,069	63,002	
Smoked or Dried (not Salted)	37,161	1,045	112,805	2,574	
Potted or Concentrated, &c	198,336	14,660	152,969	13,580	
Preserved in tins, &c	6,633,732	204,796	8,205,720	251,284	
N.E.I	213,808	2.714	128,688	1,931	
Oysters in the Shell	89,040	389	70,112	495	
Total	9,909,761	297,873	11,262,363	332,866	

Of the 1938-39 oversea imports of fish preserved in tins, 5,424,700 lb. came from Canada, 834,845 lb. from the United Kingdom, and 508,937 lb. from Norway. New Zealand supplied approximately 55 per cent. of fresh fish and fish preserved by cold process and 87 per cent. of the oysters imported into Victoria.

RABBITS, ETC.

Large quantities of frozen rabbits and hares and of rabbits, &c., exported.

Large quantities of frozen rabbits and hares and of rabbit and hare skins are exported annually to oversea countries, as shown hereunder, for each of the past five years:—

VICTORIA—RABBITS AND HARES AND RABBIT AND HARE SKINS EXPORTED OVERSEA.

Year en	Year ended 30th June—		Frozen Rabbi	ts and Hares.	Rabbit and Ha	re Skins.	
			Quantity.	Value.	Quantity.	Value.	
		A 437	pairs.	£	lb.	£	
1935			4,297,934	192,104	3,157,799	236,199	
1936			2,180,524	99,495	3,856,069	556,942	
1937			1,340,572	58,331	2,972,466	573.354	
1938 -			1,976,473	118,295	2,137,549	382,412	
1939			2,062,183	127,591	2,608,931	221,538	

Rabbits, &c., sold at Melbourne Fish Market.

The quantities of rabbits and hares and wild-fowl sold at the Melbourne Fish Market in each of the past five years were as shown in the following statement:—

RABBITS AND HARES, AND WILD-FOWL SOLD AT THE MELBOURNE FISH MARKET.

				<u>′</u>		
	Year e	ended 30th	June-		Rabbits and Hares.	Wild-fowl.
1935					pairs. 1,007,952	brace. 1,776
1936	• •				744,584	
1937	••	٠٠.	••		498,888	2,316
1938					536,256	3,000
1939				••	502,560	1,020

MINING.

The supervision of mining and the inspection of mines are regulated by Act of Parliament. Authority for all mining operations, whether on Crown or private lands, must first be obtained in the prescribed manner.

Miners' Rights. The taking out of a "Miner's Right" entitles the holder to prospect for gold on Crown lands. The "Right" may be had for any number of years not exceeding fifteen on payment of a fee at the rate of 2s. 6d. per annum. The holder is entitled to take possession for mining purposes of a defined parcel of Crown lands which is called a "claim." "Claims" may also be taken up under certain conditions on private land. The revenue in 1938–39 from "Miners' Rights" was £613.

Mining Leases. Leases of Crown land and of private land for the purpose of mining for gold are granted for a term not exceeding fifteen years at a yearly rental of 2s. 6d. per acre, except for land that was alienated before 29th December, 1884, where the rental is 6d. per acre. For mining leases of land to be worked by means of dredging or hydraulic sluicing, the yearly rental is 5s. per acre. Other mineral and coal-mining leases are also issued at varying rates. The revenue from these sources in 1938–39 was £11,264.

Under the Mines (Petroleum) Acts petroleum mineral leases and leases of not more than 100 square miles and petroleum prospecting licences covering a maximum area of 200 square miles are granted, over Crown lands and land alienated since 1st March, 1892, at yearly rentals of 6d. and 1d. per acre, respectively. The revenue from these two sources in 1938-39 was £906.

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

The area of Crown and private lands occupied under the Mines Acts on 31st December, 1938, was 275,909 acres. The subjoined table shows the area being worked for different minerals:—

VICTORIA—AREA OCCUPIED UNDER THE MINES ACTS, 31st DECEMBER, 1938.

(Crown Land and Private Land.)

Nature of Lease or Licen	ice.	Area.	Nature of Lease or Licence	е.	Area.
		Acres.		*	Acres.
Gold		101,643	Kaolin and Gold		6
Coal (black)*		9.579	Kaolin and Quartz Grit		10
Coal (brown)†		3,288	Limestone		80
Coal (black and brown)		100	Magnesite		58
Antimony		214	Marble	• •	6
Aluminous Ore (inclu	$\operatorname{idin}_{\mathcal{Q}}$		Mineral Water and Gas		i
Bauxite)		44	Molybdenite		30
Antimony and Gold		28	Oil§		156,955
Bluestone	• •	16	Pigment		12
Calcite		5	Sand		37
Cement Gravel		6	Silver and Gold		137
Clay		56	Tin		163
Clay and Schist	• •	4	TD: 1 0 11	• •	74
Copper	• •	80	Tin and Gold Tailings Licences	• •	1,804
Copper and platinum	• •	115		• •	
α	• •		Water Right Licences	• •	593
	• •	21	Wolfram	• •	70
Gypsum	• •	251			ļ
Iron	• •	380			
Kaolin		43	Total		1275,90

^{*} Includes State Coal Mine Area, 7,575 acres.

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

Certain mineral leases include the right to mine for gold.

[†] Includes State Electrici y Commission Area, 2,800 acres.

[§] Includes Petroleum Prospecting Licences, 153,698 acres.

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

Advances to mining companies have since been made under the joint Commonwealth-State scheme for the development of metalliferous mining, the amount so expended between 1st July, 1935, and 30th June, 1939, being £73,891.

VICTORIA—STATE EXPENDITURE AND REVENUE CONNECTED WITH MINING, 1934-35 TO 1938-39.

Item.	Item.				Expenditure from Consolidated Revenue						
			1934-35.	1985 - 36	1936-37.	1937-38.	1938-39.				
Expenditu	RE.		£	£	£	£	£				
Mines Department	••		22,546	23,420	25,047	28,341	30,413				
State Coal Mine			324,840	321,818	295,940	338,451	318,949				
Boring for Gold, Coal,	Oil, &	c	453	1,083	3,033	3,750	2,100				
Testing plants	••		10,088	10,986	10,922	10,856	9,773				
Geological and was surveys of mines	indergro	ound	1,431	1,392	1,446	1,271	1,372				
Laboratory Expenses,	, &c.		547	617	615	869	596				
Miscellaneous	••		1,183	1,184	2,073	1,271	296				
Total			361,088	360,500	339,076	384,809	363,499				
REVENUE	ı.										
State Coal Mine			242,514	229,428	159,945	188,732	189,583				
All other	• •		26,961	34,698	28,321	26,644	23,562				
Total		٠.,	269,475	264,126	188,266	215,376	213,145				

Total mineral production. The mineral production of the State (excluding stone raised in quarries and salt) for the year 1938 is summarized in the subjoined statement:—

VICTORIA-MINERAL PRODUCTION, 1938.

	Metals ar	nd Mineral	s.		Recorded d	uring 1938.
	~				Quantity.	Value.
				ř	Fine Oz.	£
Gold	• •	• •		••	144,243	1,273,351
Silver		• •			16,098	1,732
					Tons (2,240 lb.)	
Coal, black	• •	• •	•••		307,258	286,679
,, brown			• •		3,675,450	351,721
Fin*					169	28,650
Antimony*	• •		• •		398	10,619
Wolfram*					• •	• • •
$y_{ m sum}$					13,381	14,826
Magnesite		• •			120	458
C aolin		: •			5,656	5,020
Diatomaceou	s earth	• •			190	786
Molybdenite	ķ				35	7,30€
Fluorspar	••	• •	• •		791	1,616
Bauxite	• •	• • •			1,320	760
					Gallons	
Oil (crude)	••	• •	• •		6,173	154
		Total				1,983,678

^{*} Concentrates.

Note,—The value of gold as shown above is based on the average value of Victorian \gcd at the Melbourne Mint.

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 1938.

Period.		Quantity • (Gross ozs.).	P	Period.				
1851-60		23,334,263	1928			33,917		
1861-70		16,276,566	1929			26,275		
1871-80		10,156,297	1930			24,119		
1881-90		7,103,448	1931			43,637		
1891-1900		7,476,038	1932			47,745		
1901-10		7,095,061	1933			58,183		
1911-15		2,161,349	1934			70,196		
1916-20		905,561	1935			87,609		
1921-25		421,250	1936			117,596		
1926		49.078	1937	-1 •		145,799		
1927		38,538	1938			144,243		

[•] Gross ozs. 1851-1900, fine ozs, from 1901 inclusive.

From 1906 until 1930 the yield of gold continued to decrease, that for 1930 being the lowest since 1851. Since 1930, when both the State and Commonwealth Governments undertook a campaign to encourage prospecting and mining, particularly amongst the unemployed, there has been a gradual increase in the production of gold throughout the State. A steady increase in the world price of gold and the depreciation of the Australian currency in terms of gold have further stimulated the mining industry, the production for the past three years in particular having substantially increased. The average Australian mint price of gold for the year 1938 was £8 13s. 10d. per fine oz.

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

The yields in fine ounces in the other principal gold-producing States in 1938 were 1,167,791 ounces in Western Australia, 151,432 ounces in Queensland, and 88,698 ounces in New South Wales.

The total production of the Commonwealth in fine ounces was 595,213 in 1931, 713,882 in 1932, 830,332 in 1933, 887,490 in 1934, 914,736 in 1935, 1,178,581 in 1936, 1,381,135 in 1937, and 1,592,034 in 1938.

The total production of gold in the world in fine ounces, as shown in the United States Mint Report, was 22,284,290 in 1931, 24,098,676 in 1932, 25,400,295 in 1933, 27,372,374 in 1934, 29,999,245 in 1935, 32,930,555 in 1936, 34,740,055 in 1937, and 37,603,213 in 1938.

Mining district gold yields. The yield of gold (given in gross ounces) for 1937 and 1938 in each mining district of the State, as estimated by the mining registrars, is shown in the following table:—

VICTORIA—DISTRICT YIELDS OF GOLD (ALLUVIAL AND QUARTZ) 1937 AND 1938.

Minima District			1937.	,	1938.			
Mining District.		Alluvial.	Quartz.	Total	Alluvial.	Quartz.	Total.	
		oz.	oz.	oz. (gross)	oz.	oz.	oz.	
Ararat and Stawell	۱	623	1,491	2,114	534	1,531	2,065	
Ballarat .		3,075	13,962	17,037	3,987	10,248	14,235	
${f Beechworth}$		18,872	14,367	33,149	16,054	19,051	35,105	
Bendigo		2,151	38,545	40,696	2,346	36,552	38,898	
Castlemaine		8,095	32,805	40,900	7.011	33,525	40,536	
Gippsland		492	8,588	9,080	359	8.403	8,762	
Maryborough	••	3,028	14.567	17,595	5,882	15,631	21,513	
Total		36,246	124,325	160,571	36,173	124,941	161,114	

Government batteries, cyanidation, and dredging and sluicing. Particulars relating to the operations of Government batteries, all cyanide works, and of dredging and sluicing plants for the six years 1933 to 1938 are as follows:—

VICTORIA—GOVERNMENT BATTERIES, CYANIDATION, AND DREDGING AND SLUICING, 1933 TO 1938.

Government Batteries.			C	yanidation.		Dredging and Sluicing.				
Ye	ar.	Number of Bat- teries.	Quantity of Ore Treated.	Yield of Gold.	Number of Plants,	Quantity of Tailings Treated.	Yield of Gold.	Number of Plants.	Quantity of Material Treated.	Yield of Gold.
			tons.	oz.		tons.	oz.		cub. yds.	oz.
1933		34	17,394	6.397	32	63,535	3,550	8	720,441	1.937
1934		34	17.721	10,088		421,104	14.842		1,509,756	4,462
1935		34	18,070	10,298		630,318	22,460		2,328,859	9.343
1936		32	16,659	8,547	141	794,640	28,565		3,198,883	12,544
1937		32	16,495	7,785		1,233,914	41,923		4,353,976	19.032
1938		32	15,497	5,580		1,202,623			4.871,563	22,013

The first Government battery was erected in 1897. Since that date Government batteries have crushed 209,691 tons of ore for 116,456 ounces of gold.

Up to the end of 1938, 20,426,549 tons of tailings had been treated by the cyanide and other processes, and 1,441,286 ounces of gold had been won therefrom.

Since the inception of dredge and sluice mining 1,975,598 ounces of gold have been won by these systems.

Goal.

Bituminous coal was mined during 1938 at Wonthaggi,
Jumbunna, Korumburra and Kilcunda, and brown coal
at Morwell and Gelliondale. The coal resources of Victoria have
been described in detail in previous issues of the Year Book.

Production of The average annual production and value per ton of black coal, black and brown coal, and the production of briquettes up and briquettes to the end of 1938 are given in the following table:—

VICTORIA—COAL PRODUCTION AND VALUE PER TON.

		Black	Coal.	1	Brown Coal.	
Period.		Annual Ton at Pit's Mouth.		Annual Production.	Cost of Production per Ton at Mine.	Briquettes— Annual Production.
		tons.	s. d.	tons.	s. d.	tons.
Prior to 18 1892–1900 1901–10 1911–15	•••	77,914 184,517* 168,548* 608,512*	18 8 9 11 11 8 9 2	81,748†	6 10	• •
1916-20 1921-25	• • • • • • • • • • • • • • • • • • • •	437,833* 520,705*	$\begin{array}{ccc} & 2 & 2 \\ 15 & 11 & \\ 22 & 8 & \\ \end{array}$	76,514* 258,094*	6 9 4 9	77.945 t
1926	• •	591,001	$\frac{22}{22}$ $\frac{3}{3}$	957,935	3 11	95,477
1927		684,245	22 - 4	1,455,482	3 0	121,644
1928	٠.	658,323	22 2	1,591,858	2 6	131,349
1929	• •	703,828	23 1	1,741,176	2 1	146,548
1930	• •	703,487	23 0	1,831,507	1 11	180,905
1931	• •	571,342	12 8	2,194,452	2 3	290,558
1932	• •	432,353	12 9	2,612,512	2 1 2 5 2 0 2 3	319,979
1933	• •	523,000	12 7	2,580,060	2 5	310,767
1934	• •	356,958	12 1	2,617,534	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	316,594
1935	• •	476,495	11 10	2,221,515	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	317,200
1936	• •	426,725	11 11	3,044,897		355,088
1937	• •	257,945	12 0	3,393,919	1 11	390,493
1938	• •	307,258	12 3	3,675,450	1 11	414,059

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

The quantities of coal which were produced in the other States in 1938 were as follows:—New South Wales, 9,570,930 tons; Queensland, 1,113,426 tons; Western Australia, 604,792 tons; and Tasmania, 83,753 tons.

According to records supplied to the Mines Department by the various Mining Companies, the amount of tin concentrates obtained in Victoria up to 31st December, 1938, was 17,704 tons, valued at £1,085,796. A large proportion of this yield was obtained as an incidental return from gold-mining operations.

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

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

VICTORIA-MINING ACCIDENTS, 1935 TO 1939.

		(Gold Mines		Coal Mines.			
•	Year		Miners Employed.	Persons Killed.	Persons Injured.	Miners Employed.	Persons Killed.	Persons Injured.
1935	• •		6,960	5	4	2,012		5
1936			6,959	5	21	1,786	1	8
1937			6,180	8	19	1,749	14	7
1938	••		6,315	7	11 •	1,766	2	5
1939			6,169*	10	5	1,825	•	2

^{*} Estimated in 1939-alluvial, 2,820; quartz, 3,349.

Quarries.

The recorded quantities and values of the principal kinds of stone which were raised from Victorian quarries during the past five years are as set forth in the following table:—

VICTORIA—QUARRIES, 1934-35 TO 1938-39.

17			M:	ain kinds of s	Approximate			
	Year ended 30th June— Number of Quarries.		Bluestone.	Sand- stone.	Granite.	Limestone.	Value of Stone Raised.	
			c. yds.	c. yds.	tons.	tons.	£	
1935	.:	77	1,026,859	6,667	5,917	273,951	374,454	
1936		76	1,206,255	4,180	7,389	307,058	387,554	
1937	••	76	1,306,078	6,272	8,329	274,795	462,359	
1938	••	72	1,154,852	30,200	6,824	296,735	403,838	
1939		81	1,150,303	31,477	7,383	305,904	414,311	

^{*} Wholesale selling value of stone at the quarry, exclusive of delivery charges therefrom.

THE SEARCH FOR OIL IN VICTORIA.

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

The search was continued in 1939. The deep-drilling plant completed two bores at Lake Wellington and Sperm Whale Head, attaining depths of 3,560 and 3,111 feet respectively; two smaller plants also operated at various locations in the chosen area in Gippsland. None of these operations produced any positive result.

At the end of 1939, the total number of bores drilled under the Commonwealth-State scheme was 35 for a total footage exceeding 45,000 feet and a cost of £23,000.

The total quantity of oil produced to 31st December, 1939, from oil wells drilled in the Lakes Entrance and Metung areas was 111,283 gallons.

MANUFACTURING IN VICTORIA.

Statistical records of factories date from 1850, when the number of factories in Victoria was 68. In 1900 the total had reached 3,097, employing 64,207 persons, and fairly regular expansion has since taken place, concurrent with the increase in the population and consequent extension of the protected home market. A temporary check in this expansion occurred at the onset of the world depression. The factory statistics from 1927–28 until 1931–32 show clear evidence of the effect of gradually declining prices and restricted activity.

Steady recovery has since been maintained although the statistics for 1938–39 show evidence of a general decline in prices, which is reflected in the cost of materials used and the value of articles produced. Certain industries, particularly those supplying agricultural needs, also suffered from a decreased demand owing to the severe drought which affected the whole of the State.

Since 1930-31 the number of factories has increased by 1,051 (12.8 per cent.), the persons employed therein by 75,815 (60.2 per cent.), the total salaries and wages paid by £15,026,196 (64.5 per cent.), the value of materials by £30,341,570 (60.2 per cent.), and the value of output by £59,541,816 (63.7 per cent.).

It will therefore be seen that, not only have Victorian manufacturing industries fully recovered from the depression of 1930 and following years, but that they have since made further progress.

When consideration is given to the many advantages possessed by this State as a manufacturing field, it is not an unreasonable anticipation that, with efficient organization both of production and of the markets therefor, this progress should continue. Victoria possesses the advantages of a comparatively compact territory producing a variety of raw materials, a temperate climate, an intelligent labour supply, large power resources, a growing home market, an extensive network of State-owned railways served by constantly improving feeder roads, and a good system of highways and main roads. No doubt this combination of advantages has been partly responsible for the attraction of capital to and the consequent development of the manufacturing industries in this State.

The appended table summarizes particulars which indicate the growth of manufacturing since 1919-20. The figures for the past twelve years have been increased by the inclusion of statistics relating to the bakery industry, allowance for which should be made when comparing the figures for that period with those of previous years.

VICTORIA—GROWTH IN THE MANUFACTURING INDUSTRIES.

Year.	Number of Factories	Number of Persons employed,	Value of Plant. Machinery, Land, and Buildings.	Amount of Salaries and Wages paid.	Value of Materials used (including containers).	Value of Output.
1	2	3	4	5	6	7
			£	£	£	£
1919-20	6,038	136,522	30,804,520	17,702,173	65,563,104	101,475,36
1920-21	6,532	140,743	35,392,735	21,377,216	65,401,425	106,008,294
1921-22	6,753	144,876	40,992,280	23,846,495	60,352,561	106,243,183
1922-23	7,096	152,625	46,423,240	25,457,192	62,568,163	111,286,343
1923-24	7,289	156,162	53,196,475	27,472,084	62,217,874	113,921,92
1924–25	7,425	154,158	61,031,975	29,057,052	65,205,233	118,177,398
1925-26	7,461	152,959	60,396,500	29,329,400	67,164,445	119,986,439
1926-27		161,639	63,850,005	31,822,589	69,816,935	127,397,95
1927–28	8,245	160,357	67,507,020	32,087,851	69,637,778	128,465,31
1928-29	8,197	156,568	69,909,37 0	31,533,586	70,100,456	127,897,463
1929-30	8,195	151,009	72,011,020	30,517,535	66,770,302	122,811,099
1930-31	8,199	126,016	70,990,071	23,279,689	50,380,110	93,425,798
1931–32	8,204	128,265	68,350,575	21,258,599	51,727,685	93,388,61
1932–33	8,612	144,428	67,827,428	23,096,512	56,757,681	102,085,429
1 93 3–34	8,896	156,334	68,834,279	24,819,143	59,776,270	108,496,310
1934-35	9,100	169,691	70,591,677	27,318,815	63,387,061	117,182,857
1935-36	9,160	183,390	71,872,906	30,593,707	74,568,265	134,043,170
1936–37	9,165	191,383	75,161,894	33,192,904	78,233,032	142,692,192
1937-38	9,241	201,789	77,207,830	37,228,543	85,926,478	157,050,725
1938-39	9,250	201,831	80,652,988	38,305,885	80,721,680	152,967,61

Prior to 1924-25 the amounts taken by working proprietors as drawings were not included in the figures in column 5 (Salaries and Wages paid).

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

Statistics Act 1928.

Statistics relating to the manufacturing industries of Victoria are collected by the Government Statist in accordance with the provisions of the Statistics Act 1928. In the year 1902, Australian statisticians adopted a uniform classification of industries for statistical purposes in all States. A factory was then defined as "any establishment employing on the average four persons or more, or any establishment employing less than four persons where machinery is worked by other than manual power, whether the business carried on is that of making or repairing for the trade (wholesale or retail) or for export". In 1930, a new classification, based upon that used in Great Britain for census purposes, was adopted. The definition of a factory was unchanged.

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, termed "added value." This is arrived at in the following way:—From the value of output of each industry are deducted the most important items of manufacturing expense such as costs of raw materials, containers, fuel and light, repairs to plant and machinery, replacement of tools, and any other important cost of manufacture, the difference being the value added to raw materials in the process of manufacture, and representing the fund available for the payment of wages, rent, interest, minor expenses, and profit.

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

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

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 subjoined table shows the value added per person employed in each class of manufacturing industry for the year ended 30th June, 1939.

As the extent of the mechanization of particular industries affects the value added by manufacturing, comparisons between the different classes of industry would have to take into account interest on the capital employed and depreciation of plant and machinery.

VICTORIA—VALUE ADDED BY PROCESS OF MANUFACTURE 1938-39.

Class of Industry.	Average Number of Persons Employed.	Value Added.	Value Added per l'erson Employed.		
		£	£ s.	d.	
1. Treatment of non-metalliferous					
mine and quarry products	3,221	1,576,318	489 7	9	
2. Bricks, pottery, glass, &c	4,552	1,530,308	$336 \ 3$	8	
3. Chemicals, dyes, explosives, paint,]			
oils, and grease	8,554	4,462,225	$521 \ 13$	1	
4. Industrial metals, machines,					
implements and conveyances	51,872	16,459,333	317 - 6	2	
5. Precious metals, jewellery, and					
plate	2,315	546,751	236 - 3	6	
6. Textiles and textile goods (not	<i>'</i>				
dress)	26,780	6,324,102	236 - 3	0	
7. Skins and leather (not clothing or					
footwear)	4,599	1,372,448	298 8	6	
8. Clothing	38,973	7,864,569	201 15	10	
9. Food, drink, and tobacco	26,949	12,610,059	467 18	5	
10. Woodworking and basketware	7,386	2,391,293	323 15	3	
11. Furniture, bedding, &c	4,871	1,281,297		11	
12. Paper, stationery, printing, book-	4,071	1,201,201			
binding fro	13,819	4,929,959	356 15	0	
19 Duhhan	2,948	1,572,901	533 11	ő	
14 Marsical instances	. 89	24,292	272 18	10	
15 Missellaneous maduets	2,699	722,264	267 12	1 .	
10 II	2,204	2,327,950	1,056 4	9	
16. Heat, light, and power	2,204	2,021,000			
Total	201,831	65,996,069	326 19	9	

Omitting the "heat, light and power," industry, the 1936-37 statistics of which were subjected to some refinement, the total value added per person employed in the process of manufacture in the remaining industries averaged £318 18s. 8d. in 1938-39, compared with £312 7s. for the previous year.

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

VICTORIA—VALUE ADDED BY PROCESS OF MANUFACTURE.

Year.	Value of Output.	Expenses of Manufac- turing.*	Value Added	Average Number of Persons Employed,	Value Added per Person Employed.
1,	2.	3.	4.	5.	6.
	£	£	£		£ s. d.
1929-30	122,811,099	71,551,731	51,259,368	151,009	339 8 11
1930-31	93,425,795	54,011,827	39,413,968	126,016	312 15 5
1931-32	93,388,617	55,568,989	37,819,628	128,265	294 17 1
1932-33	102,085,429	61,004,327	41,081,102	144,428	284 8 10
1933-34	108,496,310	64,294,665	44,201,645	156,334	282 14 9
1934-35	117,182,857	68,420,266	48,762,591	169,691	287 7 3
1935-36	134,043,170	79,999,480	54,043,690	183,390	294 13 10
1936-37	142,692,192	83,979,911	58,712,281	191,383	306 15 7
1937-38	157,050,725	92,161,335	64,889,390	201,789	321 11 5
1938–39	152,967,611	86,971,542	65,996,069	201,831	326 19 9

^{* &}quot;Expenses of manufacturing" includes the following costs only:—Raw materials, containers, fuel and light, tools replaced, repairs to plant and machinery, lubricating oil, and water.

Production of different industries, is set out in the next table. The data shown was compiled from returns rendered compulsorily by all factory proprietors in Victoria.

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

VICTORIAN FACTORIES-POWER, WORKERS, MANUFAC

Class 1.—Non-metalliferous Mine and Quarry Products 178 32,732 3,127 94 714,68 1,168 1	Nature of Industry.	Factories.	Rated Horse- power	Average Empl		Salaries and Wages
Class 1.—Non-metaliferous Mine and Quarry Products Sime, plaster, and asphalt 83 3,529 1,046 35 222,0 Marble, slate, &c. 41 1,680 403 10 101,3 1			of	Males.	Females.	Paid.
Class 1.—Mon-metalliferous 178 32,732 3,127 94 714,68 Marble, slate, &c.	•	No.	H.P.	No.	No.	£
Marhie, slate, &c. 41 1,680 403 10 101,3 101,3	Class 1.—Non-metalliferous Mine and Quarry Products	1	32,732	3,127	94	714,649
Marble, slate, &c. 41 1,880 403 10 101,330 303,20 10 101,335 10 303,20 10 101,335 10 303,20 10 101,335 10 303,20 10 101,335 10 303,20 10 101,335 10 303,20 10 101,335 10 303,20 10 101,335 10 303,20 10 101,335 10 303,20 10 101,335 101,335 101	Lime, plaster, and asphalt	83	3,529.			222,023
Other 12 18,434 330 33 88,0 Class 2.—Bricks, Pottery, Glass, &c. 113 18,950 4,199 353 941,8 Bricks, tiles, and firebricks 60 12,563 2,040 79 446,3 Barthenware, china, and porcelain Glass, including bottles 27 4,823 1,138 136 285,6 Modelling, &c. 3 4 23 1,138 136 285,6 Class 3.—Chemicals, Dyes, Explosives 66 3,045 915 903 364,4 Explosives, Paint, Oils and Grease 234 25,341 6,114 2,440 1,772,5 Chemicals, drugs, and medicines 66 3,045 915 903 364,4 Explosives 8 6,159 2,071 649 577,6 White lead, paints, and varnish 40 1,164 310 44 79,9 Olls, wegetable (including oilcake) 18 380 104 40,7 79,9 Olls, wegetable (including oilcake) 18 1,839 </td <td>Marble, slate, &c</td> <td></td> <td></td> <td></td> <td></td> <td>101,332</td>	Marble, slate, &c					101,332
Class 2.—Bricks, Pottery, Glass, R.C. 113 18,950 4,199 353 941,8						88,003
## Rec. 113 18,950 4,199 353 941,8 Bricks, tiles, and firebricks 23 1,560 998 138 206,6 Earthenware, china, and porcelain 23 1,560 998 138 206,6 Glass, including bottles 27 4,823 1,138 136 285,6 Modelling, &c. 3 4 23 4 23 4 4,1 Class 3.—Chemicals, Dyes, Explosives, Paint, Oils and Grease 234 25,341 6,114 2,440 1,772,5 Chemicals, drugs, and medicines 66 3,045 915 908 368,5 Explosives 8 6,159 2,071 649 577,6 White lead, paints, and varnish 40 1,164 310 44 79,	Clase 9 Reicks Pottery Glass					
Earthenware, china, and porcelain 23		113	18,950	4,199	353	941,826
Class Including bottles 27 4,823 1,138 136 285,68						445,340
Modelling, &c 3			1,560			206,634 285,695
Chemicals, drugs, and medicines						4,157
Chemicals, drugs, and medicines		234	25.341	6,114	2,440	1,772,513
Explosives		1		-	-	364,442
White lead, paints, and varnish	Explosives		6,159		649	577,686
13 817 162 2 40,7	White lead, paints, and varnish					79,740
Boiling-down, tallow refining, and bone milling works 18	Oils, vegetable (including oilcake)					22,322 $40,727$
Soap and candles	Boiling-down, tallow refining, and	. 15	GT1			
Chemical fertilizers	bone milling works					84,824
Inks, polishes, &c. 30	Soap and candles					137,232
Matches Other 3 1,074 241 465 111,2 Other 3 528 127 23 31,4 Class 4.—Industrial Metals, Machines, Implements, and Conveyances 2,528 80,890 48,971 2,901 11,335,1 Smelting, refining, &c. of iron and steel 161 10,857 4,127 239 931,3 Engineering (not marine or electrical) 385 20,065 9,343 304 2,271,6 Extracting and refining of other metals and alloys 7 111 61 1 17,7 Flectrical apparatus 132 3,409 2,753 513 661,1 17,7 Flectrical apparatus 132 3,409 2,753 513 661,1 17,7 Flectrical apparatus 132 3,409 2,753 513 661,4 1,41,4 Motor and assembly (i) Repairs 990 4,448 3,210 60 757,4 4,413 1,129,1 Horse-drawn vehicles 95 4,448 3,210 60						85,212
Class 4.	Matches	3	1,074			111,266 31,491
Machines, Implements, and Gonveyances				1		32,102
Test	Machines, Implements, and	2,528	80,890	48,971	2,901	11,335,688
Engineering (not marine or electrical) 385 20,065 9,343 304 2,271,6		181	10.957	4.197	930	931,557
Extracting and refining of other metals and alloys	Engineering (not marine or	İ				
metals and alloys	Extracting and refining of other	385	20,065	9,545	904	
Tram and railway workshops 25 5,634 5,806 5 1,441,8 Motor vehicles and cycles—(i) Construction and assembly (ii) Repairs 28 1,834 1,730 131 451,9 (ii) Repairs 990 4,454 3,210 60 757,7 Motor-bodies 106 478 370 16 60,757,7 Horse-drawn vehicles 37 2,275 1,171 103 255,7 Aeroplanes 6 1,737 959 25 229,7 Ship and boat building and repairing, marine engineering 13 2,909 443 1 103,255,4 Cutlery and small tools (not machine tools) 39 1,297 600 33 113,4 Agricultural implements 79 9,421 3,835 164 900,4 Brass and copper 102 2,333 1,857 134 405,4 Wireworking (including nails) 38 1,986 1,049 65 211,4 Art metal works 18 399 306 9 <td>metals and alloys</td> <td></td> <td></td> <td></td> <td></td> <td>17,431</td>	metals and alloys					17,431
Motor vehicles and cycles—			5,634			1,441,800
(ii) Repairs 990 4,454 5,118 218 1,129,130 Motor-bodies 95 4,448 3,210 60 757,20 Horse-drawn vehicles 106 478 370 16 60,757,20 Cycle and motor accessories 37 2,275 1,171 103 255,29 Aeroplanes 6 1,737 959 25 229,29 Ship and boat building and repairing, marine engineering 13 2,909 443 1 103,20 Cuttery and small tools (not machine tools) 39 1,297 600 33 113,40 Agricultural implements 79 9,421 3,835 164 900,40 Galvanized-iron working and tinsmithing 117 2,976 2,580 459 564,40 Wireworking (including nails) 38 1,986 1,049 65 211,41 Art metal works 18 399 306 9 68,21 Stoves and ovens 24 1,724 1,073 79 238,2	Motor vehicles and cycles—		1		191	
Horse-drawn vehicles				5.118		1.129.835
Horse-drawn vehicles	Motor-bodies	95	4,448	3,210	60	757,389
Aeroplanes						69,262
répairing, marine engineering . 13 2,909 443 1 103, Cutiery and small tools (not machine tools)						229,720
machine tools) 39 1,297 600 33 113, Agricultural implements 79 9,421 3,835 164 900, Brass and copper 102 2,333 1,857 134 405, Galvanized-iron working and tinsmithing 117 2,976 2,580 459 564, Wireworking (including nails) 38 1,986 1,049 65 211, Art metal works 18 399 306 9 68, Stoves and ovens 24 1,724 1,073 79 238, Gas fittings and meters 3 24 212 1 56, Lead mills 4 466 65 2 11, Wireless apparatus 20 582 900 173 157,	repairing, marine engineering	13	2,909	443	1	103,189
Agricultural implements 79 9,421 3,835 164 900. Brass and copper 102 2,333 1,857 134 405. Galvanized-iron working and tinsing 117 2,976 2,580 459 564. Wireworking (including nails) 38 1,986 1,049 65 211. Art metal works 18 399 306 9 68. Stoves and ovens 24 1,724 1,073 79 238. Gas fittings and meters 3 24 212 1 56. Lead mills 4 466 65 2 11. Wireless apparatus 20 582 900 173 157.		39	1.297	600	33	113,017
Galvanized-iron working and tinsulting 117 2,976 2,580 459 564, 564 Wireworking (including nails) 38 1,986 1,049 65 211, 41 Art metal works 18 399 306 9 68, 52 68, 52 11, 724 1,073 79 238, 63 68, 65 1,049 65 211, 724 1,073 79 238, 62 1,049 65 21, 24 1,049 65 21, 24 212 1 56, 1,049 65 21, 24 212 1 56, 1,049 65 22, 24 212 1 56, 2,049 238, 24 212 1 56, 2,049 24 212 1 56, 2,049 24 212 1 56, 2,049 24 212 2 1 56, 2,049 24 212 2 1 56, 2,049 2 2 2 2 2 2 3 24 2 2 2 3 24 2 2 3 2 2	Agricultural implements	79	9,421	3,835		900,844 405,069
Wireworking (including nails) 38 1,986 1,049 65 211, Art metal works 18 399 306 9 68, Stoves and ovens 24 1,724 1,073 79 238, Gas fittings and meters 3 24 212 1 56, Lead mills 4 466 65 2 11, Wireless apparatus 20 582 900 173 157,	Galvanized-iron working and tin-				1	1
Art metal works 18 399 306 9 68, Stoves and ovens 24 1,724 1,073 79 238, Gas fittings and meters 3 24 212 1 56, Lead mills 4 466 65 2 11, Wireless apparatus 20 582 900 173 157,	Wireworking (including poils)		2,976			564,684 211,650
Gas fittings and meters 3 24 212 1 56, Lead mills 4 466 65 2 11, Wireless apparatus 20 582 900 173 157,	Art metal works		399		9	68,168
Lead mills 4 466 65 2 11, Wireless apparatus 20 532 900 173 157,	Stoves and ovens	24	1,724	1,073		238,647
Wireless apparatus						56,038 11,894
Die sinking and engraving 20 145 170 19 35	Wireless apparatus				173	157,700
	Die sinking and engraving	20	145	170	12	35,629

TURING COSTS AND VALUE OF PRODUCTION, 1938-39.

Fuel and Light Used.	Lubricat- ing Oil and Water.	Repairs to Plant, &c.	Materials Used, Including Containers.	Articles Produced or Work Done.	Value Added.	Land and Buildings.	Plant and Machinery.
£	£	£	£	£	£	£	£
219,756	13,803	100,268	1,083,467	2,993,612	1,576,318	813,982	1,632,442
33,400	2,565	18,209	479,540	1,060,326	526,612	193,617	202,720
4,291 $127,761$	692 3,979	3,478 66,307	53,416 414,910	213,499	151,622 693,690	49,439 321,388	39,105 681,320
54,304	6,567	12,274	135,601	1,306,647 413,140	204,394	249,538	709,297
295,210	14,842	86,331	368,024	2,294,715	1,530,308	736,454	941,024
175,518	9,527	44,588	91,562	1,002,160	680,965	352,752	458,708
$54,157 \\ 65,438$	1,565 3,705	20,298 21,445	$57,911 \\ 217,537$	$446,043 \\ 839,217$	$312,112 \\ 531,092$	173,052 204,408	147,681 333,894
97	45		1,014	7,295	6,139	6,242	741
210,959	33,855	191,839	5,217,105	10,115,983	4,462,225	3,103,873	2,994,053
28,124 $41,197$	4,048 8,001	16,061 55,847	997,867 $704,132$	2,180,185	1,134,085	572,560 1,052,718 132,573	386,703
5,673	668	4,712	280,441	1,610,456 $502,335$	801,279 210,841	132,573	832,770 48,822
$2,990 \\ 14,521$	390 3,028	1,845 3,782	108,835 667,718	154,898 $981,782$	40,838 292,733	37,609 94,493	20,069 $167,117$
20,670	2,621	10,204	232,220	378,018	112,303	143,499	85,766
$33,182 \\ 42,566$	4,252 5,623	36,180 52,360	497,178 $1,100,127$	1,237,505 $1,842,955$	666,713 642,279	213,789	260,361 880,174
$\frac{4,194}{4,783}$	712 616	2,408 4,582	350,212 203,788	$\begin{array}{c} 626,078 \\ 453,594 \end{array}$	$\begin{array}{c} 268,552 \\ 239,825 \end{array}$	127,039 118,028	45,705 183,726
13,059	3,896	3,858	74,587	148,177	52,777	73,572	82,840
			,			<u> </u>	
551,565	60,575	483,945	13,163,480	30,718,898	16,459,333	9,683,860	6,527,516
127,310	7,637	54,531	1,050,739	2,682,921	1,442,704	622,355	555,971
88,921	13,861	89,260	2,913,249	6,633,378	3,528,087	1,518,233	1,475,567
3,057	120	1,796	160,609	194,697	29,115	22,646	5,863
$23,952 \\ 51,149$	$6,489 \\ 1,202$	$25,969 \\ 34,782$	844,498 1,094,800	2,005,566 $2,886,456$	1,104,658 $1,704,523$	490,182 1,496,306	$\substack{275,390\\1,127,383}$
13,414	1,577	21,735	212,434	821,955	572,795	489,491	104,732
$41,536 \\ 14,793$	$9,496 \\ 2,425$	32,809 41,770	837,413 1,341,190	2,415,049 $2,563,900$	1,493,795 1,163,722	1,464,268 604,557	378,484 288,985 .
3,492 $12,908$	572 1,980	1,308	44 700	137,291	87,219	98,991.	21,603
6,053	1,153	16,395 5,208	202,705 127,380	$\begin{array}{c} 652,753 \\ 401,068 \end{array}$	418,765 261,274	212,043 231,114	179,713 326,316
4,718	265	5,863	49,978	187,377	126,553	116,852	75,416
$6,088 \\ 51,165$	514 4,162	4,888 49,641	119,025	284,980	154,465	110,417	85,418 562,705
22,590	1,520	17,672	914,487 378,687	2,180,881 990,868	1,161,426 570,399	600,327 319,285	177,666
$19,863 \\ 9,933$	2,282 1,735	30,986 11,603	1,274,351 610,983	2,285,211 $996,246$	957,729 361,992	450,500 238,305	378,136 150,914
1,986	200	970	65,468	171,903	103,279	50,335	26,786
$26,459 \\ 2,066$	1,404 80	$13,744 \\ 1,257$	$255,826 \\ 36,512$	704,611 $117,366$	407,178 77,451	$\begin{array}{c} 123,869 \\ 21,136 \end{array}$	137,022 4,220
2,812 4,383	135 680	1,648	95,906	143,729	43,228	19,175	12,290
1,189	139	11,537 $1,118$	292,435 16,260	554,846 $71,251$	$\begin{array}{c} 245,811 \\ 52,545 \end{array}$	153,814 33,053	$40,572 \\ 21,036$
11,728	947	7,455	223,845	634,595	390,620	196,606	115,328

VICTORIAN FACTORIES-POWER, WORKERS, MANUFACTURING

Nature of Industry.	Factories.	Rated Horse- power	Average Emplo		Salaries and Wages
		of Engines.	Males.	Females.	Paid.
	No.	н.Р.	No.	No.	£
Class 5.—Precious Metals, Jewellery, and I late	137	2,503	1,956	359	422,178
Jewellery	65	424	447	155	$108,175 \\ 87,359$
Jewellery Watches and clocks	16 51	184 1,787	$\frac{368}{1,071}$	118 83	210,158
Gold, silver, and electroplate	5	108	70	3	16,486
Class 6.— Textiles and Textile	ļ				
Goods (not dress)	371 20	45,190	11,052 667	15,728 1,206	3,856,105 283,805
Wool, worsted and shoddy (in-	20	4,738	. 001	1,200	200,000
cluding wool scouring)	53	27,797	4,916	4,980	1,506,078
Hosiery and other knitted goods	221	5,990	4,048	8,451 384	1,681,591
Silk, natural and artificial	6 6	1,022 4,600	$\frac{140}{721}$	379	68,208 164,348
Rope and cordage Canvas goods, tents, &c	22	4,600	113	115	42,229
Bags and sacks	22	199	151	103	41,619 68,227
Bags and sacks	21	783	296	110	68,227
Class 7.—Skins and Leather (not				4 005	
Clothing or Footwear)	207	10,581 357	3,564 439	1,035 410	893,873 140,566
Furriers and fur dressing	76 20	2,021	363		89,575
Tonning and leather dressing	41	7,903	2,194	27	489,647
Saddlery, harness, and whips Machine belting	10	45	69	7	13,786
Machine belting	6	95	66 412	2 536	15,997 134,040
Bags and trunks Other leather goods	51	153 7	21	53	10,262
	1,813	11,758	10,704	28,269	5,503,404
Tailoring and slop clothing	375	952	1,953	6,287	1,161,536
Waterproof and oilskin clothing	8	145	83	272	52,602
Dressmaking	472	1,009 143	639	7,729 1,169	1,020,587
Millinery Shirts, collars, and underclothing	59 99	925	420	4,135	150,394 548,208
Stavs and corsets	11	329	109	1,000	153,651
Handkerchiefs, ties, and scarves	18	58	42	443	55,842
Hats and caps	35	1,221	687	831	238,184 6,463
Gloves	5 158	36 3,710	15 4,615	4,994	1,589,323
Boots and shoes	478	625	683	14	111,650
	30	1,055	527	251	145,427
Umbrellas and walking sticks	3	7	16	31	7,787
Dyeworks and cleaning	46 16		655 81	620 396	203,241 58,509
Class 9.—Fcod, Drink, and Tobacco Grain milling Cereal foods and starch Cattle and poultry foods	1,458	87,105	19,298		5,674,767
Grain milling	38	8,174	1,063	36	288,537
Cereal foods and starch	23	$\substack{6,246 \\ 224}$	607	312	185,481 7,824
Cattle and poultry foods Chaff-cutting and corn crushing	101		378	12	77,489
Bakeries	576	2,679	2,785	496	675,377
Biscuits	10	1,627	556		147,237
Bakeries Biscuits Confectionery Jam, fruit, and vegetable canning	57	6,668	1,163	1,673	448,896
Jam, fruit, and vegetable canning		3,113 905	1,343 200	1,276 130	485,708 60,050
Pickles, sauces, and vinegar Bacon curing	18			27	129,111
Butter and cheese factories, &c.	174	13,958	2,503	423	129,111 707,527 24,615
Margarine and butterine	7	361	98	4	24,615
Meat and fish preserving, meat		100	151	122	46,971
extracts Condiments, coffee, spices, &c	10 72		541		183,325
Ice and refrigerating	88		2,130	121	491,828
Salt refining		487	130	5	
Aerated waters, cordials, &c	86	958	592		135,983
Breweries	9	6,611	1,493) 23	517,505

Production

Costs and Value of Production, 1938-39-continued.

Fuel and Light Used.	Lubricat- ing Oil and Water.	Repairs to Plant, &c.	Materials Used, Including Containers.	Articles Produced or Work Done,	Value Added.	Land and Buildings.	Plant and Machinery.
£	£	£	£	£	£	£	£
16,123 2,414 1,762 10,398 1,549	1,781 174 149 1,297 161	10,204 1,769 1,052 6,539 814	435,908 141,175 81,099 144,720 68,914	1,010,767 297,113 188,699 431,725 93,230	546,751 151,581 104,637 268,771 21,762	343,889 116,756 46,861 175,679 4,598	127,226 26,207 14,915 78,583 7,521
311,896 25,534	53,414 2,355	275,033 18,780	7,559,039 719,569	14,523,484 1,339,098	6,324,102 572,860	3,380,469 413,193	3,901,301 477,073
173,703 79,810 5,478 17,034 902 935 8,500	31,607 14,890 500 1,714 254 222 1,872	121,328 101,412 4,504 17,569 580 3,072 7,788	3,248,754 2,618,243 94,209 369,372 124,486 177,781 206,625	5,956,106 $5,464,417$ $224,215$ $756,966$ $200,646$ $246,443$ $335,593$	2,380,714 2,650,062 119,524 351,277 74,424 64,433 110,808	1,298,132 1,221,375 86,530 169,338 60,799 38,074 93,028	1,773,475 1,271,787 54,549 218,766 5,396 8,920 91,335
53,365 2,580 11,545 36,680 151 524 1,730 155	15,806 609 4,061 10,690 86 33 268 59	35,920 1,754 4,947 27,060 83 273 1,645 158	2,244,166 324,496 340,057 1,268,331 15,282 50,692 230,603 14,705	3,721,705 520,988 477,378 2,113,299 35,542 84,939 461,199 28,360	1,372,448 191,549 116,768 770,538 19,940 33,417 226,953 13,283	956,936 196,244 174,034 422,437 14,000 27,120 116,291 6,810	363,019 19,944 75,128 243,067 1,776 9,363 12,929 812
134,525 27,476 1,484 16,473 2,955 10,965 3,115 3,115 2,606 122 27,442 3,025 4,173 117 22,078	13,094 1,426 159 710 194 1,249 370 67 1,619 3 2,797 238 506 3 3,515 238	121,822 13,363 656 8,429 1,868 10,325 3,331 10,057 71 54,520 607 8,212 83 8,278 1,253	9,040,617 2,096,043 83,057 1,603,633 193,431 1,278,314 344,750 141,436 303,120 7,855 2,409,106 80,949 314,709 13,652 79,013 91,549	17,174,627 3,700,708 172,294 2,994,581 432,628 674,978 250,991 712,993 16,400 4,600,365 241,268 582,999 31,856 426,470 179,972	7,864,569 1,562,400 86,938 1,365,336 234,180 855,271 323,412 107,785 385,591 8,349 2,106,500 156,449 255,399 18,001 313,586 85,372	4,502,971 877,038 55,940 1,179,055 127,708 448,682 130,117 74,051 193,759 11,805 618,245 423,230 94,904 13,305 181,122 74,010	1,269,017 128,639 14,751 103,551 11,681 46,282 95,836 4,135 469,268 31,848 67,796 343 153,816 11,836
752,091 57,944 42,168 705 7,715 83,768 20,313 37,303 32,394 6,277 16,412 164,642 1,615	107,586 5,866 6,397 49 1,146 6,015 1,404 4,035 7,063 1,767 2,186 15,306 852	475,876 27,173 37,549 348 3,762 29,668 5,576 11,562 26,735 3,891 5,568 71,278 1,655	30,163,844 3,378,044 840,717 41,960 559,394 2,032,906 384,343 1,179,219 2,001,634 209,649 823,987 9,464,548 185,418	44,109,455 3,972,336 1,392,733 59,550 681,020 3,479,340 677,528 2,057,846 3,039,481 350,940 1,039,391 11,453,619 276,184	12,610,059 503,309 465,902 16,488 109,003 1,326,983 265,982 825,727 971,655 129,356 191,288 1,737,845 86,644	9,774,451 595,565 461,988 20,410 94,960 1,231,844 204,028 468,734 548,729 126,633 1,192,828 15,629	7,179,642 492,065 405,370 5,212 51,850 415,927 176,902 473,226 265,182 77,567 121,273 1,244,262 10,072
8,773 13,882 95,562 3,914 6,452 63,203	900 2,676 13,495 257 2,955 19,883	3,730 8,812 43,796 7,105 9,441 127,774	270,490 851,297 68,439 32,481 258,624 1,269,269	$\begin{array}{c} 364,776 \\ 1,270,235 \\ 1,015,936 \\ 120,148 \\ 617,813 \\ 2,966,119 \end{array}$	85,883 393,568 794,644 76,391 340,341 1,485,990	77,038 370,044 1,133,387 215,002 224,080 789,404	28,821 163,126 693,370 49,082 84,748 932,992

VICTORIAN FACTORIES—POWER, WORKERS, MANUFACTURING

Nature of Industry.	Factories.	Rated Horse- power	Average Empl	Number oyed.	Salaries and
		of Engines.	Males.	Females.	Wages Paid.
	No.	н.Р.	No.	No.	£
Class 9.—continued.		978	0.5		95.510
Distilleries Malting	8 20	1,232	$\begin{array}{c} 85 \\ 344 \end{array}$	5 7	25,549 114,926
Bottling	12	280	160	. 35	44,199
Tobacco, cigars, cigarettes	14	1,972	874	1,355	445,411
Dried fruits	25	1,271	586	197	148,154
ice Cream	25	1,726	148	103	50,664
Sausage skins	10	128	306	. 4	72,214
Other	17	4,811	526	40	130,416
Class 10. Woodworking and	A-				
	720	29,575	7,178	208	1,634,188
Sawmills (forest)	205	7,430	1,788	. 9	375,504
Sawmills (town)	122	11,507	1,862	34	442,217
Joinery	200	30 3,830	$\substack{6\\1,628}$	1	1,051
Joinery	12	3,830 541	$\frac{1,628}{257}$	$\frac{58}{1}$	380,815 83,517
Basketware Sawmills (forest) Sawmills (town) Bark mills Joinery Cooperage Boxes and cases	61	4,238	759	19	170.053
Woodturning, woodcarving, &c	77	1,524	482	25	103,771
Basket, wicker, bamboo, &c	18	162	160	3	29,394
Perambulators	12	85	127	17	24,810
Other	10	228	109	41	23,096
Class 11.—Furniture, Bedding, &c.	412	8,027	3,932	939	867,569
Cabinet and furniture making	312	5,972	3,274	203	660,488
bedding and mattresses	40	1,896	454	283	119,203
Furnishing, drapery	- 38	117	108	404	65,095
Picture frames	7	$\frac{10}{32}$	32	$\frac{14}{35}$	7,231
Blinds, window, verandah, &c	. 10	34	. 64	59	15,552
Class 12.—Faper, Stationery, Printing, Bookbinding, &c. Newspapers, &c.	675	40,645	9,750	4,069	2,984,831
Newspapers, &c	116	4,803	2,435	113	733,244
	3	912	634	278	204,098
General printing, &c. Stationery and paper products	423	6,123	4,146	1,647	1,197,168 168,775
Stationery and paper products	31	1,218	421	585	168,775
becreetyping and electrotyping	9	171 153	93 374	$\frac{14}{24}$	23,952
Cardboard boxes, cartons, &c	35	1,947	587	942	111,312 235,487
Paper bags	11	152	87	168	32,593
Other paper and printing	31	25,166	973	298	278,202
Class 13.—Rubber Goods	105	19,215	2,212	708	628,177
Class 14.—Musical Instruments	13	65	88	1	19,415
Class 15.—Miscellaneous Products	168	3,376	1,847	852	443,100
Celluloid and similar compositions	12	388	283	32	50,925
Buttons	11/	84	96	41	15,897
Brooms and brushes Surgical, and other scientific	16	360	278	155	68,177
Surgical, and other scientific instruments	51	159	287	26	68,668
Toys, games, and sports requisites	. 49	879	533	254	125,923
Artificial flowers	. 7	11	67	201	26,637
Other	22	1,495	303	143	86,873
Class 16.—Heat, Light, and Power	118	446,268	2,198	6	613,602
Electric light and power— (a) Government	8	393,559	1,028	2	294,760
(b) Local authority	39	42,658	257		73,387
(c) Companies	32	4,653	89		21,943
Gas works		·		1-	
(a) Local authority	10	5 227	75	$\frac{2}{2}$	18,056
(b) Companies	29	5,327	749		205,456
Total all Classes	9,250	862,221	136,218	65,613	38,305,885

Costs and Value of Production, 1938-39—continued.

			1	1 '	!	1	i
	Lubricat-		Materials	Antiolog			
Fuel and	ing Oil	Repairs		Articles	37 3	Land	Plant
Light		to Plant,	Used,	Produced	Value	and	and
Used.	and	&c.	Including	or Work	Added.	Buildings.	Machinery.
	Water.		Containers.	Done.		Dundings.	newchillery.
			ļ	ļ			
£	£	£	£	£	£	£	£
9,551	1,738	3,227	72 001	222,077	199 660	990 570	160 410
21,645	3,870	6,327	73,901	222,077	133,660	220,579	160,418
	409		454,221	737,848	251,785	322,944	69,157
2,023		1,010	90,628	177,926	83,856	137,180	16,779
8,115	1,822	12,287	2,190,934	3,644,549	1,431,391	352,702	295,576
6,524	719	9,200	117,176	314,341	180,722	136,680	135,873
9,076	1,050	4,176	152,586	344,306	177,418	175,645	119,116
1,633	1,272	1,472	196,684	309,483	108,422	41,844	9,887
35,482	4,454	12,753	3,035,295	3,523,930	435,946	389,641	621,789
72,805	14,756	65,914	2,775,347	5,320,115	2,391,293	1,039,245	878,796
19,949	7,489	29,394	364,703	916,232	494,697	61,439	383,608
22,054	3,175	14,354	1,161,807	1,867,440	666,050	353,241	222,482
64	7	13	10,304	15,321	4,933	2,793	476
10,316 2,581	1,407	$7,675 \\ 2,221$	529,900	1,125,500	576,202	303,788	87,278
2,581	765	2,221	57,988	185,029	121,474	25,999	31,341
9,597	1,030	6,921	380,486	630,735	232,701	113,288	73,745
4,157	656	3,599	139,429	306,679	158,838	112,377	64,635
625	- 89	647	139,429 42,293	92,948	49,294	20,202	2,556
431	24	294	44,919	90,442	44,774	18,605	2,630
3,031	114	796	43,518	89,789	42,330	27,513	10,045
24,874	2,752	15,882	1,600,087	2,924,892	1,281,297	913,903	209,423
16,679	1,916	9,742	942,880	1,885,209	913,992	653,350	145,608
7,026	662	5,058	406,557	644,462	225,159	152,893	52,674
786	111	593	194,072	304,309	108,747	78,603	7,275
73	21	20	7,171	17,404	10,119	15,330	911
310	42	469	49,407	73,508	23,280	13,727	2,955
					,		,
186,922	24,100	120,960	3,808,688	9,070,629	4,923,959	3,446,880	2,798,094
26,719	5,198	16,862	931,350	2.083.268	1,103,139	792,094	690,589
6,096	734	3,101	151,107	395,222	234,184	204,400	70,874
28,462	5,038	28,546	1,227,909	3,134,918	1,844,963	1,415,105	1,086,864
6,369	594	7,239	372,108	874,712	488,402	185,856	178,847
1,472	. 22	559	10,467	52.304	39,784	31,665	21,554
2,285	248	2,217	27,372	193,202	161,080	84,150	45,523
8,427	1,645	6,974	409,792	878,445	451.607	309,493	282,172
788	241	904	107,519	155,840	46,388	57,812	46,348
106,304	10,380	54,558	571,064	1,302,718	560,412	366,305	373,323
121,699	14,869	86,833	1,881,535	3,677,837	1,572,901	621,191	740,698
211	28	98	5,653	30,282	24,292	25,096	2,751
06 000	0.274	10 200		·			-
26,802 4,551	2,374	16,388	728,189	1,496,017	722,264	452,638	278,347
	537	4,701	55,748	137,484	71,947	32,679	47,238
824	44	267	14,721	42,199	26,343	23,595	7,060
1,885	336	2,354	160,690	266,790	101,525	52,217	29,279
1,816	201	1,425	73,178	173,782	97,162	97,197	26,254
4,761	537	3,079	160,921	393,042	223,744	87,706	46,093
500	13	203	33,431	71,764	37,617	22,248	3,837
12,465	706	4,359	229,500	410,956	163,926	136,996	118,586
616,325	31,171	162,616	646,531	3,784,593	2,327,950	2,230,407	8,785,394
533,724	2,911	64,342	3,546	2,085,578	1,481,055	1,565,450	5,846,551
61,749	6,265	13,297	951	271,542	189,280	241,107	657,610
17,241	3,641	3,617	29	78,484	53,956	22,003	113,369
1,175	640	2,726	31,789	67,166	30,836	27,754	110,118
2,436	17,714	78,634	610,216	1,281,823	572,823	374,093	2,057,746

INDIVIDUAL INDUSTRIES.

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

Tanning was one of the earliest industries established in Victoria; in the year 1850 there were thirteen tanneries in the State. Particulars relating to the industry for the year 1929-30 and the past four years are given in the following table:—

VICTORIA—TANNERIES.

Item.	1929–30.	1935-36.	1936-37.	1937–38.	1938-39.
Number of establishments	44	43	41	40	41
Number of persons engaged	1.838	2,415	2.460	2,316	2,221
Horsepower of engines used	3,840	4,612	7,460	8,057	7,903
Value of plant and machinery £	336,835	250,430	241,453	241,226	243,067
Value of land and buildings £	454,580	408,178	418,191	420,363	422,437
Salaries and wages paid £	449,027	475,765	506,810	514,937	489,647
Fuel, light, and power £	33,288	35,251	36,166	40,056	36,680
Value of materials used £	1,417,919	1,492,039	1,610,687	1,622,917	1,268,331
Value of output £	2,197,709	2,346,531	2,517,926	2,436,346	2,113,299
Value added to materials £	720,999	776,861	823,082	730,246	770,538
Materials treated—			,		
Cow and ox hides No.	638,915	837,375	921,075	895,171	793,069
Calf hides ,,	429,373	621,562	334,578	430,347	377,126
Other skins and pelts ,,	1,048,002	1,505,445	1,115,689	1,035,055	996,618
Bark used tons	11,709	11,424	10,559	10,209	10,600
Sole leather produced b.	12,624,029	13,425,826	12,808,892	13,030,832	11,342,423

The value of leather imported into Victoria from oversea countries during the year ended 30th June, 1939, was £43,256; the value of leather exported in the same period was £274,714.

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

VICTORIA—SOAP FACTORIES.

Item	1929-30.	1935-36.	1936-37.	1937–38.	1938-39.
Number of establishments	17	20	19	18	18
Number of persons engaged	653	680	700	723	711
Horsepower of engines used	828	769	1.327	1.356	1.839
Value of plant and machinery£	246,020	197.518	206,879	255,201	260.361
Value of land and buildings £	204.895	195,054	203,741	206,326	213.789
Salaries and wages paid £	138,450	123.355	128,422	143,482	137,232
Fuel, light and power £		24.634		33,443	33.182
	31,282		27,793		
Value of materials used £	636,295	556,797	586,545	576,483	497,178
Value of output €	1,138,963	1,613,180	1,243,208	1,323,103	1,237,505
Value added to materials £	455,107	399,345	595,056	673,282	666,713
Materials treated—					
Tallow cwt.	197,953	198,924	217,831	206,349	190,245
Alkali ,,	78,020	119,721	100,649	101.216	109,048
Copra oil,	26,112	41,877	47,393	49.382	52,726
Output—	,	,		,	,
Soap, household cwt.	285,324	205.550	199,166	185,886	192,283
" Sand "	28,346	38,186	34,121	35,342	37,875
,, Toilet ,,	14,464	16,903	19,192	20,705	17,863
Soda crystals,	31,148	36,253	30,629	36,829	28,401

Other items of manufacture include soft soap, wool scouring soap, soap extract, candles, glycerine, &c.

The imports from oversea countries in 1938-39 included 173,716 lb. of soap and 340,428 lb. of soap substitutes, valued at £7,878, and £11,343 respectively, and 33,468 lb. of candles, &c., valued at £2,027.

Bricks, pottery, pipes and tiles.

These industries are grouped because some establishments which produce bricks also manufacture tiles, and others which produce tiles, also manufacture pipes and pottery.

Factories manufacturing cement pipes and tiles are not included herein, but are grouped with those making cement and cement products.

VICTORIA—BRICKS, POTTERY, PIPES AND TILES.

Item.	1929-30.	1935-3ა.	1936-37.	1937-38.	1938-39.
					Contract of
Number of establishments	77	79	79	81	83
Number of persons engaged	2,165	2,868	2,969	3,166	3,255
Horse-power of engines used	8.838	11,311	12,922	13,780	14,123
Value of plant and machinery £	499,205	490,969	524,667	566,624	606,389
Value of land and buildings £	581,765	563,500	547.025	564,158	525,804
Salaries and wages paid £	483,873	509,958	563.858	607,613	651,974
Fuel, light, and power £	214,917	178,439	190,029	217,217	229,675
Value of materials used £	125,978	146.084	140,341	153,200	149,473
Value of output £	1,084,452	1,188,968	1,259,323	1,381,198	1,448,203
Value added to materials £	703,619	794,906	859,506	934,428	993,077
Production—			′ '	· / ·	
Bricks, common (1,000)	162,676	195,680	183,727	190,666	197,245
Firebricks (1,000)	3,595	6.351	5,187	4,631	4,551
Roofing tiles (1,000)	8,940	10,663	10,232	12,069	13,737
Pipes . £	145,430	131,984	151,681	196,357	199,008
Pottery £	126,708	181,876	242,987	297,211	306,704

Forest Sawmills. Detailed information in regard to the forest sawmills of the State for the six years 1933-34 to 1938-39 is given in the table which follows:—

VICTORIA—FOREST SAWMILLS.

		Number Machiner		Persons	Salaries and	Victorian Timber Sawn.	
Year.		of Mills.	and Plant in Use.	Employed.	Wages Paid.	Quantity.	Value.
			£		£	super ft	£
1933-34		182	372,978	1,894	336,556	81,078,557	511,858
1934-35		202.	392,217	2,368	422,798	97,110,074	642,058
1935-36		193	380,800	2,486	462,042	105,934,903	719,714
1936 - 37		192	395,419	1,951	371,772	122,907,580	865,789
1937-38		203	434,935	1,935	387,940	121,782,570	893,991
1938-39		205	383,608	1,797	375,504	111,383,079	862,828

The reduction in the number of persons employed and in the amount paid in salaries and wages since the year 1935-36, is due to the rigid exclusion from these statistics of all persons engaged in felling and hauling timber from forest to mills. The number of persons employed now quoted is comprised of those working in the sawmills only.

In addition to the forest sawmills there were 515 other factories in the wood working group. Particulars relating to these for the year 1938-39 are given on page 516.

The quantity of timber sawn for firewood consumption in the year 1938–39 was 236,770 tons, valued at the saw-mills at £167,241. There is also a large amount of firewood taken from the forests which does not pass through these sawmills and its value cannot be reliably estimated. Statistics collected from factories, mines and quarries show that during 1938–39, 465,265 tons of firewood, which cost £210,735, were consumed. The increased use of brown coal briquettes and the extension of the use of gas and electricity for cooking and heating have caused a reduction in the demand for firewood in recent years.

Agricultural and Dairying Machnery Works.

The Agricultural Implement Industry, in 1938–39, was affected by the decreased production, due to a very dry season, as well as a substantial fall in prices of primary products.

VICTORIA—AGRICULTURAL AND DAIRYING MACHINERY WORKS.

Item.	1929-30.	1935–36.	1936-37.	1937–38.	1938–39.
Number of establishments Number of persons employed Horse-power of engines used Value of land and buildings £ Value of plant and machinery £ Salaries and wages paid £ Value of materials used £ Fuel, light, and power used £ Value of output £	72	70	74	80	79
	2,639	2,828	3,486	4,539	3,999
	2,656	3,590	7,939	8,721	9,421
	324,305	290,084	342,503	405,089	600,327
	319,705	290,819	360,033	401,625	562,705
	603,817	568,695	757,743	1,045,214	900,844
	537,545	610,477	855,674	1,135,453	914,487
	41,540	41,132	49,118	64,475	51,165
	1,378,287	1,445,497	1,903,662	2,691,479	2,180,881

In the following table particulars of bacon and ham Bacon curing establishments are given for the year 1929 30 and the past four years.

VICTORIA—BACON FACTORIES.

Item.	1929-30.	1935–36.	1936-37.	1937–38.	1938-39.
Number of establishments Number of persons employed Horse-power of engines used Value of land, buildings, plant,	19 544 1,798	21 546 3,105	20 554 3,954	19 545 3,783	18 532 3,804
&c. Salaries and wages paid £ Value of materials used £ Value of fuel and light £ Value of output £ Pigs slaughtered for curing No. Bacon and ham cured—	$\begin{array}{c} 348,270 \\ 144,120 \\ 1,043,360 \\ 23,075 \\ 1,367,179 \\ 218,799 \end{array}$	353,720 122,679 733,807 17,742 953,305 198,148	360,320 120,440 789,851 17,606 985,645 193,048	361,933 124,020 800,605 16,510 1,040,253 172,535	348,206 129,111 823,987 16,412 1,039,391 170,189
In factories lb. On farms lb.	18,222,220 666,317	17,099,550 1,065,618	16,652,906 918,886	16,006,409 689,995	16,024,626 485,511

The number of butter, cheese, and kindred factories in Butter and 1938-39 was 174. Of these 140 were making butter, cheese factories. 33 cheese, 3 concentrated milk, 3 condensed milk, 11 powdered milk, 10 casein, and 1 milk sugar. There were also 15 creameries attached to the factories. The following table gives some indication of the value of this industry to the State:—

VICTORIA—BUTTER AND CHEESE FACTORIES.

Year.	Number of Factories.	Value of Machinery, Plant, Land, and Buildings.	Persons Employed	Salaries and Wages Paid.	Value of Output.
		£		£	£
1929-30	163	2,040,058	2,387	586,395	8,753,102
1930-31	165	2,025,267	2.235	542,374	8,077.608
1931–32 .	. 169	2,005,965	2,346	516,619	8,353.481
1932–33	. 174	2,061,690	2,455	514,584	7,998.432
1933-34 .	. 175	2,088,195	2,509	506,109	6,745,845
1934-35	. 179	2,116,447	2,711	543.372	8,213,097
1935-36	. 176	2,163,363	2,680	560,621	10,251,289
1936–37	. 175	2,315,765	2,859	629,230	10,825,003
1937–38	172	2,340,384	3,017	694,356	12,407,723
1938–39	174	2,437,090	2,926	707,527	11,453,619

Further particulars relating to butter and cheese factories will be found under the heading of Dairying on pages 476 and 477.

BAKERIES (INCLUDING BREAD, PASTRY, CAKES, ETC.).

The statistical definition of a factory (see page 509) excludes from enumeration many small bakeries. Of the 1,738 bakehouses registered at the Factories Department during the year 1938, only 576 come within the definition and are embraced by the

table hereunder. It must be explained that the value quoted is the wholesale selling value of the goods at the factory exclusive of all selling and delivery costs.

VICTORIA—BAKERIES.

				İ	
Item.	1929–30.	1935–36.	1936-37.	1937-38.	1938-39.
Number of factories	464	537	556	549	576
Number of persons employed	2,951	3,131	3,374	3,213	3,281
Horse-power of engines used	1,944	2,138	2,289	2,502	2,679
Value of land and buildings £	1,019,260	1,132,603	1,158,299	1,184,892	1,231,844
Value of plant and machinery £	366,290	365,988	377,886	376,595	415,927
Salaries and wages paid £	719,055	597,453	651,183	657,061	675,3 7 7
Value of materials used £	1,987,669	1,755,585	1,867,858	1,920,579	2,032,906
Fuel, light, and power used £	82,347	77,614	79,869	81,127	83,768
Repairs, oil and water used £	18,529	30,975	35,736	33,056	35,683
Total output £	3,313,820	2,842,227	3,114,907	3,235,506	3,479,340
Value added £	1,225,275	978,053	1,131,444	1,200,744	1,326,983
Value added per worker £	415	312	335	374	404
Flour used—tons (2,000 lb.)	104,069	94,115	94,742	92,191	92,770
Bread made—4-lb. loaves	53,852,013	56,318,333	56,683,427	55,485,924	55,386,952
Cakes, pastry, pies £	•	*	1,635,766	1,522,674	1,581,795

^{*} Not available.

Meat freezing and preserving meat for the past five years are shown in the following table:—

VICTORIA-MEAT FREEZING AND PRESERVING WORKS.

Item.		1934–35.	1935 –36.	1936–37. †	1937–38. †	1938–3 9 .
Frozen meat—						
Cattle and calves	qrs.	60,292	107,496	438,926	955,502	1,037,204
Sheep and Lambs	No.	3,253,640	3,784,083	4,049,966	5,077,313	4,609,034
Rabbits and hares	,,	8,595,868	4,475,210	3,913,437	5,791,622	4,647,300
Poultry	,,	46,420	323,451	257,741	261,392	249,701
Pigs	,,	13,599	37,863	86,504	126,412	78,324
Preserved meat	cwt.	*6,746	45,722	49,448	52,740	66,256

Incomplete.

[†] Includes chilled.

Imports and exports of meats, Victoria. The following statement shows the imports from and exports to oversea countries of frozen, chilled, and preserved meats during the year ended 30th June, 1939.

VICTORIA—MEAT IMPORTED AND EXPORTED OVERSEA, 1938-39.

	Imports		Exports.		
Meats.	Quantity.	Value.	Quantity.	Value.	
Preserved by cold process— Beef	lb. 491 ,, 6,197 ,, 3 28 ,, 402 ,, 22,610 ,, 29,729 cwt. 4,051 ,, 3	$\begin{array}{c} {\mathfrak L} \\ 11 \\ 431 \\ \dots \\ 1 \\ 38 \\ 5,873 \\ 1,632 \\ 59,908 \\ 25 \end{array}$	lb. 9,158,102 " 78,045 " 86,736,377 " 14,690,484 " 9,530,942 pr. 2,489 " 2,062,183 lb. 2,849,964 " 2,784,373 " 55,913 " 2,691,242 cwt. 14,228	£ 156,125 1,102 2,356,159 201,586 283,685 1,575 127,591 49,142 72,510 3,647 1,296 96,774 297,311	
Total value		67,919		3,648,54	

· Not available.

Victorian flour mills produce ample flour, &c., to supply all local requirements and a considerable surplus for export. During the year 1938-39, 256,231 tons of flour, valued at £1,607,110, were exported from Victoria to countries beyond Australia. The following table gives particulars of the industry for the year 1929-30 and for the past four years:—

VICTORIA-FLOUR MILLS.

ltem.	1929-30.	1935–36•	1936-37	1937–38.	1938–39.
Number of establishments	38 898 5,591 580,835 431,710 247,692 52,163 4,355,538 5,106,194 677,443 17,227,886 364,682	38 1,113 6,151 543,396 553,578 259,587 57,916 3,729,365 4,411,691 591,263 20,668,321 435,340	38 1,112 6,911 508,072 546,587 255,387 256,037 4,975,111 5,574,290 511,878 20,007,887 420,364	38 1,101 7,115 493,838 543,861 274,725 55,543 4,814,257 5,409,048 510,315 20,175,007 424,177	38 1,099 8,174 492,065 595,565 288,537 57,944 3,378,044 3,972,336 21,026,412 436,828
Bran produced ,, Pollard produced ,, Wheatmeal produced cwt.	72,381 76,670 57,276	96,005 96,288 90,246	89,832 91,978 122,100	86,275 91,910 139,200	90,180 152,804

Particulars relating to jam, pickle, sauce, fruit and vegetable canning factories are given in the table here-under, which shows the main items of output, etc., for the year 1929-30 and for the past four years.

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

Item.	1929–30.	1935–36.	1936–37.	1937–38.	1938-39.
Number of establishments Number of persons engaged Horse-power of engines used Value of plant and machinery £ Value of land and buildings £ Salaries and wages paid £ Fuel, light, and power used £ Value of output £ Fresh Fruit used cwt. Sugar used Output of— Jams and jellies Cwt. Fruit preserved in liquid Fruit pulp Sauce plints Pickles "	39 2,261 2,085 286,240 460,635 418,024 35,496 1,607,306 2,592,061 1,052,534 308,012 335,530 510,288 150,647 1,451,693	43 2,755 2,397 310,891 570,205 456,723 33,419 1,838,565 2,918,703 874,452 285,065 317,346 631,296 71,544 8,886,488 1,704,039	2,868 3,153 326,249 635,774 487,947 34,641 1,907,845 3,023,101 913,275 315,240 324,452 677,085 82,442 8,410,984 2,189,510	3,225 3,797 354,841 682,800 580,312 37,055 2,297,776 3,533,091 1,089,549 326,180 275,086 913,796 88,591 1,2949,428	43 2,949 4,018 342,749 675,362 545,758 38,671 2,211,283 3,390,421 900,833 290,100 257,193 814,706 64,332 9,299,365 †2,537,772

[†] Includes Chutney.

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

The following table contains particulars relating to the production, &c., of sugar for the past ten years. A severe drought affected the production of beet in the 1938–39 season.

Prices paid to growers for beet vary annually in accordance with the sugar content and the Australian price of sugar. The prices per ton for the past five years were as follows:—1934-35, 37s. 6d.; 1935-36, 41s.; 1936-37, 42s.; 1937-38, 40s.; 1938-39, 40s.

VICTORIA—BEET SUGAR PRODUCTION.

Year,	Area Harvested.	Beet Purchased.	Sugar Content,	Sugar Produced
1000.00	acres.	tons	%	tons.
1929–30	2,500	26,525	$17 \cdot 0$	3.472
1930–31	3,045	38,291	16 48	5,095
1931–32	$3,\!173$	43,209	15.91	5,428
1932–33	3,155	36,741	19.25	5,701
933-34	3,234	50,625	13 91	5,303
934–35	3,097	40,788	15 06	4,998
935-36	3,165	37,634	$17 \cdot 12$	5.115
936-37	3,475	31.079	17.58	4,180
937-38	4,046	48.594	15.46	
1938-39	4,268	13,454	14 83	$5{,}625$ $1{,}507$

Particulars regarding breweries and distilleries for the year 1929–30 and the past four years are set forth in the succeeding tables.

VICTORIA—BREWERIES.

ltem.	1929–30.	1935-36.	1936-37.	1937–38.	1938-39.
Number of breweries Number of persons engaged	9 1,153 4,186 1,007,420 714,795 409,815 65,502 1,019,847 2,334,283 1,231,372 103,328 754,288 619,218 21,952,775	9 1,258 4,160 855,072 731,229 423,986 51,054 940,621 2,417,226 1,322,947 101,150 836,103 728,876 25,974,483	9 1,325 6,815 842,958 766,377 456,312 54,566 987,897 1,345,467 106,042 863,330 746,794 27,246,234	9 1,420 6,860 840,581 769,562 495,493 60,587 1,243,561 2,891,604 1,467,503 121,427 992,860 854,087 30,570,063	9 1,516 6,611 932,992 789,404 517,505 63,203 1,269,269 2,966,119 1,485,990 124,918 1,014,010 846,801 31,541,886

VICTORIA—DISTILLERIES.

Item.	1929-30.	1935-36.	1936-37.	1937–38.	1938-39.
ar	8	. 7	7	7	8
Number of distilleries	124	134	81	74	.90
Number of persons engaged	752	630	405	403	978
Horse-power of engines	214,335	146,755	112,381	106,043	160,418
Value of plant and machinery £	188,485	203,664	188,848	186.494	220,579
		32,062	18,755	18,667	25,549
Salaries and wages paid £	33,896	7,838	7,300	7,242	9,551
Fuel, light and power £	13,350	101,399	69.926	69,913	73,901
Value of output	178,058		170,121	192,227	222,077
value of output	343,819	223,209	170,121	100,000	222,011
Materials used—	* *** 0.10	7 105 044	2,147,674	1.181,601	789.135
Wine gals.	1,556,249	1,135,844		57,008	72,704
Malt bush.	300,267	58,571	34,160		84,728
Other grain bush.	93,781	78,829	58,091	97,325	
Molasses lb.	1,284,528	1,466,304	1,723,120	1,447,040	1,217,552
Spirits distilled in distilleries proof gals.	1,142,762	606,996	594,134	745,063	583,837
Spirits distilled by vinegrowers proof gals.	18,299	20,353	36,798	38,882	22,883

The number of tobacco, cigar, and cigarette factories licensed in 1938–39 was twenty-six, of which twelve were too small to be classified statistically as factories and were consequently not included in the statistical tabulation on page 516. In the year mentioned the remaining fourteen gave employment to 2,229 persons, who were paid £445,411 in wages and who used machinery, plant, land, and buildings valued at £648,278. The subjoined table

shows the quantity of tobacco leaf used by and the output of the full number of licensed establishments for the past ten years:—

VICTORIA—TOBACCO FACTORIES.

			ctured Leaf ted on.		factured.	
Yea	r.		· · · · · · · · · · · · · · · · · · ·			
		Australian.	Imported.	Tobacco.	Cigars.	Cigarettes.
		lb.	lb.	15.	number.	number.
1929-30	٠	491,936	4,319,954	5,450,116	23,739,045	91,309,252
1930 31		1,818,722	3,551,324	5,575,051	20,592,865	278,304,141
1931-32		1,441,938	3,991,97 9	5,548,931	15,020,743	375,371,651
1932 -33		1,574,135	4,184,640	5,829,704	18,503,055	412,015,592
1933–34	• •	1,589,744	3,737,635	5,034,477	18,932,673	473,677,018
1934–35	•••	1,494,725	3,784.672	4,815,978	19,479,242	550,359,781
1935-36		1,543,839	4,132,698	5,121,360	22,226,147	615,493,655
1936– 37		1,509,120	4,150,460	4,906,102	22,744,652	670,676,576
1937–3 8		1,565,159	4,727,731	5,229,385	23,076,385	837,549,346
193 8–39		1,592,449	5,093,062	5,296,000	22,797,977	1,032,768,141

Victorian manufacturers supply nearly half of the

Moollen Mustralian requirements in woollen piece goods. They have also developed an oversea export trade in wool tops and noils, the value of which for the year 1938-39 was £49.222.

VICTORIA—WOOLLEN MILLS.

Item.	1929-30.	1935–36	1936-37.	1937–38.	1938–39,
Number of establishments	31	50	52	52	53
Number of persons employed	6,663	10.085	10.036	9,813	9,896
Horse-power of engines	14,627	18,927	23.874	26,767	27,797
Value of plant and machinery £	1,835,875	1,711,725	1.776,088	1,777,059	1,773,475
Value of land and buildings £	1,135,975	1.312.840	1,252,528	1,284,491	1,298,132
Salaries and wages paid £	1,036,745	1,383,210	1,320,125	1,437,060	1,506,078
Fuel, light and power £	150,620	163,138	159,801	168,709	173,703
Value of materials used £	1,978,388	3,425,557	3,689,537	3,879,806	3,248,754
Value of output £	3,903,164	5,936,927	6.156.701	6,325,824	5,956,106
Added value £	1,702,822	2.189.130	2.161.754	2,130,844	2,380,714
Scoured wool used lb.	11,708,536	19,125,620	16,250,885	17.894.590	19,257,012
Cotton used	547,307	1,114,003	839,356	848,040	866,270
Tweed and cloth made sq. yds.	6,077,129	14,571,066	12,757,001	12,973,069	
Flannel made	3,546,961	3,531,909	3,217,803	1,791,011	13,133,128
Blankets pairs	190,869	275,579			1,852,585
Dom and change No.	123,861		317,348	289,848	297,378
rugs and shawis . No.	120,001	132,906	129,340	92,588	77,513

Early records show that, in the year 1886-87, there were three hosiery factories in Victoria, employing 56 hands.

The capital value of land, buildings and machinery was £2,080. The following table shows the main details relating to this industry for the past five years:—

VICTORIA—HOSIERY AND KNITTING.

Item.	1934-35.	1935-36.	1936-37.	1937–38.	1938–39.
Number of establishments Number of persons employed—	219	225	208	216	221
Male Female	2,910 7,001	3,296 7,354	3,632 7,964	3,959 8,432	4,048 8,451
Salaries and wages paid £ Value of land and buildings £ Value of plant and machinery £	1,114,396 1,067,836 1,115,739	1,272,176 1,138,108 1,143,572	1,427,980 1,181,990 1,273,751	1,643,609 1,157,824 1,265,179	1,681,591 1,221,375 1,271,787
Value of materials used £ Fuel, light, and power £ Value of output £	2,137,824 66,690 4,290,652	2,369,985 66,413 4,969,671	2,564,249 64,993 5,213,388	2,790,791 74,879 5,655,022	2,618,243 79,810 5,464,417
Added value £ Yarn used—	2,000,930 4,015,316	2,437,339 4,140,712	2,460,934	2,674,686	2,650,062
Cotton ,, Silk ,,	2,071,621 585,221	2,515,851 683,866	3,674,751 2,406,832 767,090	3,858,639 2,649,711 1,154,939	3,802,763 2,979,849 919,595
Artificial silk Stockings made Socks made """ """ """ """	2,061,551 1,082,106 875,676	2,541,557 1,194,036 954,655	2,803,599 *1,359,548 †1,006,454	2,993,386 *1,550,154 †1,094,752	2,766,684 *1,615,701 †1,158,222
Garments made Number	15,682,529	16,966,933	16,406,904	17,915,280	16,553,520

^{*} Women's socks and stockings only, i Includes men's socks and stockings, 1936-37, 775,443 doz. pair; 1937-88, 836,222 doz. pair; 1938-39, 892,631 doz. pair; children's socks and stockings, 1936-37, 231,011 doz. pair; 1937-38, 258,530 doz. pair; 1938-39, 265,591 doz. pair.

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

VICTORIA—BOQTS AND SHOES.

Item.	1929-30.	1935-36.	1936-37.	1937–38.	1938–39.
Number of establishments	175	164	165	162	158
Number of persons employed	10,321	9,347	9.362	9,497	9,609
Horse-power of engines used	3,077	3.103	3,219	3,440	3,710
Value of plant, machinery,		, , , , , , , , , , , , , , , , , , , ,		-,	-,
land, and buildings £	1,369,000	988,385	1.045,991	1,057,287	1.087,513
Salaries and wages paid £	1,834,816	1,301,816	1,354,623	1,515,390	1,589,323
Fuel, light, and power £	34,284	27,655	27,948	27,406	27,442
Value of materials used £	2,726,740	2,249,581	2,395,438	2,477,930	2,409,106
Value of output . £	5,375,438	4.186,799	4.288,431	4,603,609	4,600,365
Boots and shoes made pairs	7.891,133	7,900,791	8,253,084	7,877,630	7,463,770
Slippers made . pairs	*2,567,407	*4,259,884	4,173,599	4,378,935	4,218,245

^{*} Includes canvas shoes.

The value of the output of establishments connected with the manufacture of dress, i.e., clothing, tailoring, dressmaking, millinery, underclothing, hats and caps, &c., but exclusive of boots and shoes, was £17,703,544 in 1938-39, as compared with £15,783,906 in 1929-30. During the period 1929-30 to 1938-39 the persons employed increased by 23 per cent., the salaries and wages paid by 19 per cent., the value of materials used by 7 per cent., and the value of the output by 12 per cent. Particulars of the industry for each of the past ten years are as follows:—

VICTORIA—DRESS (EXCLUSIVE OF BOOT) FACTORIES.

Year. of		Nu	mber of Per Employed.		Salaries and Wages Paid.	Value of Materials	Value of Output.
	Factories.	Males.	Females.	Total.		Used.	Output.
	-				£	£	£
1929-30	1,474	5.915	27,631	33,546	4,594,570	8,602,639	15,783,906
1930-31	1,405	5,361	22,162	27,523	3,492,542	6,333,943	11,698,487
1931-32	1,371	5,924	24,255	30,179	3,496,808	7,105,835	12,856,708
1932-33	1,445	6,760	27,432	34,192	3,791,163	7,744,205	13,920,069
1933-34	1,493	7,168	28,529	35,697	3,936,233	8,149,015	14,820,538
1934-35	1,540	7,694	30,246	37,940	4,236,961	8,228,047	15,082,449
1935-36	1,515	8,277	31,235	39,512	4,581,706	8,884,171	16,571,248
1936-37	1,417	9,828	30,981	40,809	4,770,768	8,831,838	16,655,158
1937-38	1,479	9,231	32,225	41,456	5,352,401	9,700,508	18,027,490
1938-39	1,441	9,350	31,840	41,190	5,471,374	9,164,940	17,703,544

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

VICTORIA-ELECTRIC LIGHT AND POWER WORKS.

Year.	Year. Number of Stations.		of Machinery Em-		Wages Paid.	Electricity Generated.	Value of Output.	
			£		£	Kilowatt Hours.	£	
1929-30		91	6,559,245	1,230	354,823	724,525,000	1,873,361	
1930-31		91	6,411,935	1,162	306,785	681,230,000	1,605,138	
1931-32		84	6,152,620	1,168	266,657	704,639,000	1,375,886	
1932–33		87	6,262,802	1,244	276,499	778,650,000	1,422,938	
1933-34		93	6,494,657	1,281	284,811	830,910,000	1,506,903	
1934–35		94	6,373,593	1,364	292,529	900,247,000	1,604,679	
1935-36		93	6,336,498	1,414	314,961	981,189,000	1,677,499	
1936-37		91	6,934,522	1,346	320,098	1,049,768,000	2,635,151	
1937-38		81	6,327,762	1,306	345,576	1,071,596,000	2,524,528	
1938-39		79	6,617,530	1,376	390,090	1,136,301,000	2,435,604	

The reduction shown in the number of persons employed since 1935-36 is probably due to a more rigid exclusion of employees engaged in the transmission and distribution of electricity: the increase in the value of output to an alteration in the method of computing value at the generating station. In addition to the power stations shown above for the year 1938-39, there were 31 factories which generated electricity mostly for their own use, the total thus generated for the year mentioned amounted to 86,203,000 kwh. Prior to 1937-38 the power generated in such factories was included in the production of electricity shown on the previous page.

STATE ELECTRICITY COMMISSION.

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

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

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

A comprehensive transmission system has been established, based upon the brown coal deposits at Yallourn, where there is a generating capacity of 195,000 kw. (including briquette factory) in six turboalternators of 12,500 kw., four of 25,000 kw. and two of 10,000

kw. (briquette factory). Two 132,000-volt lines transmit electricity to receiving stations at Richmond and Yarraville. A third station (Thomastown) receives the electricity from the Sugarloaf-Rubicon group of hydro stations (26,415 kw.) in the north-eastern district. There are two peak load stations in the metropolitan area, viz., Newport "B" (60,000 kw.) and Richmond (15,000 kw.). At Geelong and Ballarat, the power stations have a capacity of 10,500 kw. and 4,500 kw. respectively.

A hydro-electric scheme on the Kiewa River, to provide 104,000 kw. in economic instalments between 1942 and 1952 is under construction, while the peak load capacity at Newport is to be increased by 90,000 kw. in three equal instalments.

The total kva. of the six main receiving stations is 351,900, in addition to which there are 23 main metropolitan sub-stations, aggregating 249,500 kva.; 13 distribution sub-stations at line voltage, aggregating 27,530 kva.; and 2,478 metropolitan and rural substations, aggregating 259,560 kva.; grand total, 888,490 kva. High and low tension lines aggregate 3,821 and 3,464 route miles respectively, excluding 719 cable miles of underground cables. The Commission supplies practically the whole of the electricity requirements of the metropolitan area of Melbourne, excluding the railways. It retails direct in twenty of the metropolitan municipalities, in addition to outer metropolitan centres.

The rural centres supplied by the Commission number 423, of which 346 had no supply previously. These figures exclude the provincial cities of Ballarat, Bendigo, and Geelong, where the Commission also operates tramways.

The Commission also operates a briquette factory at Yallourn. This includes eight steam presses and twelve electric presses, the total capacity of which is 1,200 tons of brown coal briquettes a day. The bulk of the output is used for industrial purposes. By-product electricity to the amount of about 8,000 kw. is supplied from the briquette factory to the transmission system at Yallourn power station.

Gasworks

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

VICTORIA—GASWORKS.

Year.	Number of Works.	Persons Employed.	Wages Paid.	Coal U sed.	Gas Made.	Coke Produced.	Value of Output.
1934-35 1935-36 1936-37 1937-38 1938-39	38 39 39 39 39	714 785 724 747 828	£ 163,265 184,739 186,489 199,289 223,512	tons 325,602 352,324 368,963 379,960 391,092	cubic feet. 5,922,690,000 6,196.556.000 6,564,355,000 6,701,804,000 7,129,698,000	tons 199,745 224,444 199,652 212,542 217,850	£ 1,315,751 1,496,610 1,367,838 1,395,166 1,348,989

Some inconsistency is shown in the movement of the statistics since 1935-36. This can be ascribed to an alteration in the form used for the collection of this data. More detailed statistics relating to the costs of transmission and distribution were thereby obtained, thus enabling a more accurate estimate to be made of the value of output at the gasworks.

Oil was used as well as coal in the manufacture of gas, the number of gallons consumed each year being 1,210,733 in 1934–35, 1,128,140 in 1935–36, 1,292,206 in 1936–37, 1,203,294 in 1937–38, and 1,785,500

in 1938–39.

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.	1934-35.	1935-36.	1936-37.	1937-38.	1938–39.
	£	£	£	£	£
1. Treatment of non-metalli-					
ferous mine and quarry				0.000.000	0.000.010
products	1,846,480	2,308,109	2,445,353	2,808,306	2,993,612
2. Bricks, pottery, glass, &c.	1,566,137	1,878,773	2,018,926	2,241,357	2,294,715
3. Chemicals, dyes, explo-					
sives, paint, oils, and				0.070.000	10 117 000
grease	7,085,892	7,850,284	9,073,976	9,970,909	10,115,983
4. Industrial metals, ma-					
chines, implements,			~~ ~ ~ ~ ~ ~	61 140 010	00 *** 0 000
and conveyances	18,745,029	22,565,640	26,849,850	31,140,916	30,718,898
Precious metals, jewellery,			01-0-4	1 000 471	1 010 707
and plate	726,806	904,487	917,674	1,022,471	1,010,767
6. Textiles and textile goods			*** 000 040	#F 200 FF0	14 500 404
(not dress)	10,587,501	13,087,825	14,262,943	15,298,559	14,523,484
7. Skins and leather (not		4.050.014	4 5 4 5 0 4 5	4 997 950	0.701.705
clothing or footwear)	4,142,328	4,257,914	4,547,047	4,237,259	3,721,705
8. Clothing	15,091,802	16,123,208	16,021,980	17,281,253	17,174,627
9. Food, drink, and tobacco	36,589,677	42,817,086	41,770,149	45,912,799	44,109,455
0. Woodworking and basket	0.004.000	4 200 000	F 000 000	F F07 F05	E 200 115
ware	3,805,889	4,290,263	5,066,362	5,527,505	5,320,113
1. Furniture, bedding, &c.	1,928,725	2,448,374	2,573,992	2,825,221	2,924,892
2. Paper, stationery, print-	= 000 00 i	or old	0.100.000	0.141.044	0.070.696
ing, bookbinding, &c.	7,362,094	7,725,011	8,182,693	9,141,044 4,094,017	9,070,629
3. Rubber	3,399,448	3,047,269	3,455,116	38.052	3,677,837 30,282
4 Musical instruments	29,499	33,078	30,888		1,496,017
5. Miscenaneous products	1,343,750	1,522,377	1,472,254	1,591,388	
6. Heat, light, and power	2,931,800	3,183,472	4,002,989	3,919.669	3,784,598
Total	117,182,857	134,043,170	142,692,192	157,050,725	152,967,611

Employment in The average number of persons employed in each class factories. of industry is shown hereunder. The method of arriving at this average was altered in the year 1928-29, and it is now taken as the average number employed over the whole year, and not, as formerly in the case of a seasonal factory working only for a portion of the year, the average for the period of operation.

The table of monthly employment in factories (see page 555) is designed to show seasonal employment.

VICTORIA—AVERAGE NUMBER OF PERSONS EMPLOYED IN FACTORIES.

	Class of Industry.	1930-31.	1935-36	1936-37.	1937-38.	1938-39.
		****		1	!	
Ž,	And the second s				i i i i	
ı.	Treatment of non-metalli-					:
	ferous mine and quarry	* .		l i	100	
	products	1,505	2,217	2,630	3,050	3,221
2.	Bricks, pottery, glass, &c	1,831	4,008	4,244	4,482	4,552
3.	Chemicals, dyes, explosives,	* .				
	paint, oils, and grease	4,723	6,870	7,342	7,856	8,554
4.	Industrial metals, machines,			Į	. da	
	implements, and convey-			i .		
	ances	26,193	43,573	48,194	52,570	51,872
5.	Precious metals, jewellery,		ì			!
	and plate	941	1,994	2,102	2,273	2,315
6.	Textiles and textile goods				1	
	(not dress)	14,719	24,158	25,467	26,487	26,780
7.	Skins and leather (not cloth-	2 -00		1.00=		
_	ing or footwear)	2,738	4,689	4,925	4,608	4,599
	Clothing	30,157	38,897	37,953	39,204	38,973
	Food, drink, and tobacco	20,024	24,426	25,902	27,009	26,949
10.	Woodworking and basket-	4.400	H 010	= 200		= 000
٠.	ware	4,483	7,313	7,289	7,720	7,386
	Furniture, bedding, &c	2,674	4,330	4,565	4,853	4,871
ız.	Paper, stationery, printing,	10,641	10.070	10.050	10.015	10.010
10	bookbinding, &c		12,979	13,350	13,817	13,819
	Rubber Musical instruments	$\frac{2,051}{298}$	$\frac{3,327}{97}$	2,759 96	3,042 100	2,948 89
	3.61 13 1 4	1,052	2,307	2,495	2,693	2.699
		1,986	2,307	2,495	2,025	2,099
10.	Heat, light, and power	1,900	2,200	2,070	2,025	2,204
	Total	126,016	183,390	191,383	201,789	201,831

The above table shows that there has been a substantial recovery in factory employment since the year 1930-31, when severely depressed conditions prevailed. Since then the number of persons employed in factories has increased by 60·1 per cent.

An interesting feature of the next table is the steady increase shown in factories of over 50 hands and of the persons employed therein. In 1934–35 the total number employed in factories of this size group was 100,218, representing 58·2 per cent., whilst in 1938–39 this total had increased to 127,125, or 62·6 per cent. of the total number employed in factories.

VICTORIA—FACTORIES ACCORDING TO NUMBER OF HANDS EMPLOYED.

		SI	nowing	Annual	Percen	tage Inc	rease o	r Decre	ase.	
 -	1934-35.	Increase.	1935-36.	Increase.	1936-37.	Increase.	1937-38.	Increase.	1938-39.	Increase.
		%		%		%		%		%
Under 4 hands—										
Number of Factories	3,405	- 1.9	3,312	- 2.7	3,263	- 1.5	3,229	- 1.0	3,208	- 0.7
,, Employees	6,352	3.5	6,248	- 1.6	6,153	- 1.5	6,156	0.0	6,140	- 0.3
4 hands—				. '						
Number of Factories	830	11.3	826	- 0.5	777	- 5.9	742	4.5	784	5.7
,, Employees	3,320	11.3	3,304	- 0.5	3,108	- 5.9	2,968	- 4.5	3,136	5.7
5 to 10 hands—										
Number of Factories	2,170	- 0.8	2,194	1.1	2.189	~ 0.2	2,220	1.4	2.178	- 1.9
,, Employees			15,314		· .	- 0.2	, ·		15,213	
11 to 20 hands—	,									
Number of Factories	1,062	3.1	1,136	7.0	1,209	6-1	1,267	4.8	1,278	0.9
Ti1			16,820	7.1			18,706		19,013	1.6
	15,704	~ 0	10,020	' 1	11,150	5.0	10,700		10,015	10
21 to 50 hands-						0.4				
Number of Factories	1,006			1			1,008		'	1.3
" Employees	31,547	13.3	31,673	0.4	31,755	0.3	32,288	1.7	32,838	1.7
51 to 100 hands										
Number of Factories	332	5.7	369	11 1	384	4.1	405	5.5	415	$2 \cdot 5$
,, Employees	23,033	6.0	25,297	9.8	26,499	4.8	28,125	6.1	28,813	$2 \cdot 4$
Over 100 hands—										
Number of Factories	295	9.3	326	10.2	345	5.8	. 370	7.2	366	- 1.1
" Employees	77,185	10.5	86,410	12:0	92,127	6.6	99,329	7.8	98,312	- 1.0

VICTORIA—PROPORTION OF FACTORIES OF DIFFERENT SIZES.

				Pe	rcentag	e to To	tal.			
	193	4–35.	193	5-36.	193	6-37.	193	7–38.	193	8–39,
Size of Factory.	Factories.	Employees.	Factories.	Employees.	Factories.	Employees.	Factories.	Employees.	Factories.	Employees.
Under 4 hands 4 5 to 10	37·4 9·1 23·8 11·7 11·1 3·6 3·3	3·7 1·9 8·8 9·1 18·3 13·4 44·8	36 2 9 0 23 9 12 4 10 9 4 0 3 6	3 · 4 1 · 8 8 · 3 9 · 1 17 · 1 13 · 6 46 · 7	35.6 8.5 23.9 13.1 10.9 4.2 3.8	3·2 1·6 7·9 9·2 16·5 13·8 47·8	35.0 8.0 24.0 13.7 10.9 4.4 4.0	3.0 1.5 7.6 9.2 15.9 13.9 48.9	34·7 8·5 23·5 13·8 11·0 4·5 4·0	3 · (1 · 3 7 · 3 9 · 3 16 · 3 14 · 9 48 · 4

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.	1934-35.	1935-36.	1936-37.	1937-38.	1938-39
Working proprietors No Managers, overseers ,	5 669	8,040 6,025	8,032 6,402	7,919 6,749	7,760 6,867
Accountants, clerks , Engine-drivers, firemen	7,861	8,483 1,808	9,588 1,877	10,382	11,008 1,814
Workers in factory or works ,, Outworkers , ,	144,186	156,494 142	163,099 176	172,695 148	172,083 120
Carters, messengers ,, Others ,,	700	1,444 954	2,209	2,073	2,179
Total	169,691	183,390	191,383	201,789	201,831

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

The average numbers of males and females employed in factories and their proportions to the male and female tion in populations, for the years 1929-30 to 1938-39, were as

follows :---

VICTORIA—EMPLOYMENT MALES AND FEMALES OF FACTORIES.

M		ales. Females.			Total.			
Year.		Number.	Average per 10,000 of Male Population.	Number.	Average per 10,000 of Female Population.	Number.	Average per 10,000 of Total Population.	
1929-30		100,135	1,136	50,874	568	151,009	850	
19 3 0- 3 1	٠	82,949	936	43,067	476	126,016	. 704	
1931-32		81,618	917	46,647	512	128,265	712	
1932-33		91,899	1,020	52,529	575	144,428	796	
1933-34		100,959	1,115	55,375	602	156,334	857	
1934-35	•••	110,910	1,219	58,781	634	169.691	924	
1935-36		121,734	1,335	61,656	662	183,390	995	
1936–37		128,457	1,403	62,926	672	191,383	1,033	
1937–38		136,160	1,481	65,629	697	201,789	1,084	
1938-39		136,218	1,470	65,613	692	201,831	1,076	

Of the total persons employed, males formed 66.3 per cent. in 1929-30 and 67 5 per cent. in 1938-39. During the period 1929-30 to 1938-39 the number of males employed increased by 36,083, or 36.0 per cent., and the number of females employed, by 14,739 or 29.0 per cent.

Of the total number of females in factories, 67·1 per cent. are engaged in the textile and clothing industries and 11·7 per cent. in the preparation of food and drink. The extent table:—

VICTORIA—FEMALE EMPLOYMENT IN FACTORIES, 1938-39.

	Number l	Employed.	Females per
${\rm Industry.}$	Males.	Females.	100 Males.
Chemicals, drugs, &c	915	903	98
Explosives	2,071	649	1 31
Matches	241	465	193
Cotton	667	1,206	180
Woollen mills	4.916	4,980	101
Hosiery and knitting	4,048	8,451	209
Silk, natural and artificial	140	384	$\tilde{274}$
Rope, cordage	721	379	52
Furriers and fur dressing	439	410	93
Bags, trunks, &c	412	536	130
Tailoring and slop clothing	1,953	6,287	322
Clothing, waterproof	83	272	328
Dressmaking	639	7,729	1,209
Millinery	99	1,169	1,181
Shirts, underclothing, corsets	609	5,191	852
Handkerchiefs, ties, &c	42	443	1,054
Hats and caps	687	831	121
Boots and shoes	4,615	4.994	108
Dyeworks and cleaning	655	620	94
Biscuits	556	575	103
Confectionery	1,163	1.673	144
Jams, pickles, &c	1.543	1,406	91
Condiments, Grocers' sundries	541	610	113
Tobacco, cigarettes, &c	874	1,355	155
Furnishing, drapery	108	404	374
General printing and bookbinding	4,146	1,647	40
Envelopes, stationery, &c	421	585	139
Cardboard boxes, cartons	587	942	160
Rubber goods	2,212	708	32
All other factories	100,115	9,809	10
Total	136,218	65,613	48

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

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

VICTORIA—FACTORY EMPLOYMENT—AGE GROUPS.

		Ma	iles.	\$ a		Fem	nales.		
Year.	Under 16 Years.	16 and Under 21 Years.	21 Years and Over.	Total Males.*	Under 16 Years.	16 and Under 21 Years.	21 Years and Over.	Total Females.*	
1929-30 1930-31 1931-32 1932-33 1933-34 1934-35 1935-36 June 15th, 1937 June 15th, 1938 June 15th, 1938	3,748 2,543 2,615 3,441 4,247 5,194 6,118 6,213 6,017 6,167	16,593 14,482 14,835 16,847 17,889 20,865 22,567 24,851 26,444 26,303	79,794 65,924 64,168 71,611 78,823 84,851 93,049 99,501 104,327 103,115	100,135 82,949 81,618 91,899 100,959 110,910 121,734 130,565 136,788 135,585	4,019 3,361 4,089 4,643 5,635 6,015 6,002 5,279 5,005	16,808 14,484 16,238 18,234 19,579 20,187 21,135 21,296 22,429 21,999	30,047 25,222 26,320 29,652 30,161 32,579 34,519 35,404 37,208 37,566	50,874 43,067 46,647 52,529 55,375 58,781 61,656 61,998 64,916 64,570	
June 15th, 1555	0,107	20,000		entage	1 3,003	. 21,000	01,000	. 01,010	
	To Total	Males E			To Total	l Females .	Employed		
1929–30 1930–31 1931–32 1932–33 1933–34 1934–35 1935–36 June 15th, 1937 June 15th, 1938	3·74 3·07 3·20 3·74 4·20 4·68 5·03 4·76 4·40	16 57 17 46 18 18 18 34 17 72 18 81 18 54 19 03 19 33	79 69 79 47 78 62 77 92 78 08 76 51 76 43 76 21 76 27	100 00 100 00 100 00 100 00 100 00 100 00 100 00 100 00	7:90 7:80 8:77 8:84 10:18 10:23 9:73 8:54 8:13	33 04 33 63 34 81 34 71 35 35 34 34 34 28 34 35 34 56	59.06 58.57 56.42 56.45 54.47 55.43 55.99 57.11 57.31	100 00 100 00 100 00 100 00 100 00 100 00 100 00	

^{*} Includes working proprietors—average number over whole year.

Prior to the year 1936-37, the proportions were based on the average numbers employed over the whole year. In 1936-37 the annual questionnaire was altered to ask for the number of employees in each age group on 15th June. The effect is simplified compilation and possibly more precise statistics.

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 the ten years, 1929–30 to 1938–39. The value recorded is the depreciated value or book value less any existing depreciation reserve.

VICTORIA-MACHINERY IN FACTORIES.

Year.	Number of Factories equipped with Machinery	Value of Machinery and Plant.	Average Horse-power used.		
		£			
1929–30	7,419	35,022,535	359,952		
1930-31	7,519	34,771,687	333,066		
1931–32	7,617	33,481,615	340,653		
1932–33	8.023	33.022,441	364,121		
1933-34	8,238	33,270,400	389,186		
1934-35	8.445	33,947,056	404,702		
1935-36	8,480	34,194,608	441,445		
1936–37	8,538	36,213,626	*789,524		
1937–38	8,655	36,868,289	*858.216		
1938-39	8,761	38,626,743	*862,221		

^{* &}quot;Rated" Horse-power. See following table relating to Horse-power.

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

VICTORIA—POWER USED IN FACTORIES.

		Number of Factories using—									
Year.		Steam.	Gas.	Electricity.	Oil.	Water.	Manual Labour.				
1928-29		579	278	5,941	493	14	892				
1929-30		539	223	6,142	490	25	776				
1930-31		502	228	6,279	499	11	680				
1931-32		479	213	6,426	493	6	587				
1932-33		485	197	6.840	493	8	589				
1933-34		491	174	7,074	492	7	658				
1934-35		477	180	7,279	499	10	655				
1935-36		458	160	7.341	512	9	680				
1936-37		402	171	7,465	489	11	627				
1937-38		385	146	7.661	455	8	586				
1938-39		424	129	7.780	424	4	489				

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

From the table hereunder, it can be calculated that the total rated horse-power used in Victorian factories other than Electric Generating stations, during 1938-39, excluding, to avoid duplication, the horse-power driven by electricity generated in their own works, was 384,973.

VICTORIA—HORSE-POWER OF ENGINES IN FACTORIES, 1938–39.

Class of Engine.		Electric Generating Stacions. (Maximum Load).	Other Factories. Rated Horse-power	Total.
Steam—				
Reciprocating		1,235	38,468	39,703
Turbine		378,069	30,698	408,767
Internal Combustion—		1	1	•
Gas		1,432	5.704	7,136
Petrol or other light oils		45	3,700	3,745
Heavy oils	• •	8,474	11,200	19,674
Water		32,590	1,025	33,615
Total	•••	421,845	90,795	512,640
Electric motors driven by—				
(a) Electricity generated in own works		19,025	36,378	55,403
(b) Purchased electricity		.,	294,178	294,178

Reserve or idle horse-power capacity amounted to 93,217, exclusive of that in heat, light, and power generating stations.

Wages in Facturies.

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.	Working	ings by Proprietors g Profits).	Salaries Managers a	Paid to and Clerks.	Wages Factory		Total Salaries and Wages Paid.		
	Males.	Females.	Males.	Females.	Males.	Females.	1 a.u.		
				4		-			
	£ 2,032,445	£ 97,250	£	Amounts.	£	£	£		
1929-30			3.395,311	554,149	19,293,295	5,145,085	30,517,535		
1930-31	1,819,904	100,294	2,955.747	485,137	14,042,377	3,876,230	23,279,689		
1931-32	1,705,796	98,758	2,679,923	455,454	12,425,431	3,893,237	21,258,599		
1932-33	1,774,820	103,421	2,775,190	480,551	13,821,827	4,140,703	23,096,5 12		
1933-34	1,858,005	109,489	2,932,119	506,467	15,077,479	4,335,584	24,819,143		
1934-35	1,918,021	125,780	3,111,666	542,939	16,924,648	4,695,761	27,318,815		
1935-36	2,008,313	129,366	3,345,721	588,515	19,409,390	5,112,402	30,593,707		
1936-37	2,070,557	155,452	3,755,443 691,602		21,208,444	5,331,406	33,192,904		
1937-38	2,126,948	140,684	4,075,295 757,828 24,165,763		24,165,763	5,962,025	37,228,543		
1938-39	2,139,882	139,461	4,322,645 802,841		24,683,101	6,217,955	38,305,885		
			Average	Amounts.					
1929-30	£ s. d 321 1	£ 8. d. 153 12 8	£ s. d. 386 10 8	£ s. d. 157 14 10					
1930-31	290 6	163 12 3	364 9 2	145 13 9	204 15 9	99 1 6	179 5 10*		
1931-32	275 7 1	165 8 6	345 7 11	136 11 4	183 12 7	91 2 11	160 3 0*		
1932-33	275 5	159 7 1	334 9 7	131 6 0	179 2 11	85 17 5	154 10 1*		
1933-34	269 12	7 159 2 10	334 10 6	131 10 4	176 15 1	85 5 9	153 12 5*		
1934-35	264 3	168 3 1	335 13 5	127 13 3	179 6 7	87 6 4	156 6 6*		
1935-36	275 1	175 1 1	335 14 11	129 10 10	185 15 10	90 13 9	162 5 8*		
1936-37	286 5	1 169 10 7	343 7 5	136 17 5	192 6 1	93 8 8	169 0 1*		
1937-38	297 18	8 180 7 3	349 13 10	138 7 4	205 18 0	100 8 4	180 12 10*		
1938-39	305 12	183 19 8	355 14 3	140 5 8	210 17 0	105 3 1	185 12 9*		

^{*} This figure is based on the number of employees and the wages, &c., paid to them, working proprietors being excluded.

The average annual earnings of all employees (excluding working proprietors) increased by £4 19s. 11d. in 1938-39.

The cost of production and the value of the output in cost and value of production and the value of the output in each class of manufacturing industry during the year 1938-39 are given in the subjoined statement:—

VICTORIA-FACTORY COSTS AND OUTPUT, 1938-39.

		Cost	of		
Class of Industry.	Raw Materials Used (including Containers).	Fuel, Light, and Power Used.	Salaries and Wages Paid.	Tools replaced, Repairs to Plant, Oil and Water Used.	Value of Output.
	1.	2.	3.	4.	5.
1. Treatment of non-metalli-	£	£	£	£	£
ferous mine and quarry products	1,083,467	219,756	714,649	114,071	2,993,612
2. Bricks, pottery, glass, &c.	368,024	295,210	941,826	101,173	2,294,715
3. Chemicals, dyes, explosives, paint, oils, and grease	5,217,105	210,959	1,772,513	225,694	10,115,983
4. Industrial metals, machines, implements, and conveyances	13,163,480	551,565	11,335,688	544,520	30,718,898
5. Precious metals, jewellery, and plate	435,908	16,123	422,178	11,985	1,010,767
6. Textiles and textile goods (not dress)	7,559,039	311,896	3,856,105	328,447	14,523,484
7. Skins and leather (not clothing or footwear)	2,244,166	53,365	893,873	51,726	3,721,705
8. Clothing	9,040,617	134,525	5,503,404	134,916	17,174,627
9. Food, drink, and tobacco	30,163,844	752,091	5,674,767	583,461	44,109,455
10. Woodworking and basketware	2,775,347	72,805	1,634,188	80,670	5,320,115
11. Furniture, bedding, &c.	1,600,087	24,874	867,569	18,634	2,924,892
12. Paper, stationery, printing, bookbinding, &c	3,808,688	186,922	2,984,831	145,060	9,070,629
13. Rubber	1,881,535	121,699	628,177	101,702	3,677,837
14. Musical instruments	5,653	211	19,415	126	30,282
15. Miscellaneous products	728,189	26,802	443,100	18,762	1,496,017
16. Heat, light, and power	646,531	616,325	613,602	193,787	3,784,593
Total	80,721,680	3,595,128	38,305,885	2,654,734	152,967,611

The difference between the sum of the first four columns and the last column in the preceding table represents the amount available for miscellaneous expenses, interest, and profit. The proportions which this margin and the chief items of the cost of production bear to the total value of production in each class of industry are shown in the following table:—

VICTORIA—PROPORTIONATE VALUE OF COSTS, ETC., TO PRODUCTION IN FACTORIES, 1938-39.

		Percent	age of Costs,	&c., to To	tal Value of	Ontput.
	Class of Industry.	Materials Used, including Containers.	Fuel, Light, &c.	Wages.	Tools Replaced, Repairs to Plant, Oil and Water Used.	All other Expendi- ture, Interest and Profit
1.	Treatment of non-metalli-	%	%	%	%	%
	ferous mine and quarry products	36.2	7:3	23.9	3.8	28.8
2.	Bricks, pottery, glass, &c.	16.0	12.9	41.1	4 · 4	25 6
3.	Chemicals, dyes, explosives, paint, oils, and grease	51.6	$2 \cdot 1$	17.5	2 · 2	26 6
4.	Industrial metals, machines, implements, and conveyances	42.8	1.8	36 9	1.8	16.7
5.	Precious metals, jewellery, and plate	43.2	1.6	41.7	1.2	12.3
5.	Textiles and textile goods (not dress)	52.0	2·1	26 6	2 3	17.0
7.	Skins and leather (not clothing or footwear)	60.3	1 4	24 0	1.4	12.9
8.	Clothing	52.7	0.8	32.0	0.8	13.7
9.	Food, drink, and tobacco	68 · 4	1.7	12 9	1.3	15.7
0.	Woodworking and basket- ware	52.2	1.4	30.7	1.5	14.2
1.	Furniture, bedding, &c	54 7	0.9	29 7	0.6	14 1
2.	Paper, stationery, printing, bookbinding, &c	42.0	2.1	32 · 9	1.6	21 4
3.	Rubber	51 1	3.3	17.1	2.8	25 7
1.	Musical instruments	18.7	0.7	64 · 1	0.4	16:1
5.	Miscellaneous products	48.7	1.8	29.6	1.2	18 7
6.	Heat, light, and power	17.1	16.3	16.2	5.1	45.3
	Total	52.8	2 · 4	25:0	1.7	18:1

There are considerable variations in the proportions which the cost of materials and the expenditure on wages bear to the value of the output in the different classes of industries. These are, of course, due to the difference in the treatment required to convert the raw material to its manufactured form. Thus, in class two, the sum paid in wages represents 41·1 per cent. and the cost of raw materials 16·0 per cent. of the value of the finished article, whilst, in class nine, the expenditure on wages amounts to 12·9 per cent. and that on raw materials to 68·4 per cent. of the value of the output.

In the next table the cost of production, the value of the output of factories, and the balance available for profit and miscellaneous expenses are compared for the years 1929-30 to 1938-39.

VICTORIA—COST OF PRODUCTION AND VALUE OF OUTPUT OF FACTORIES.

**		Co	st of Producti	lon.		
Year.	Materials. (including containers).	Fuel, Light, and Power.	Salaries and Wages.	Tools Replaced, Repairs to Plant, Oil and Water Used.	All other Expenditure, Interest, and Profit.	Total value of Output.
1929-30	£ 66,770,302	£ 3,435,727	£ 30,517,535	£ 1,345,702	£ 20,741,833	£ 122,811,099
1930-31	50,380,110	2,589,475	23,279,689	1,042,242	16,134,279	93,425,795
1931-32	51,727,685	2,443,539	21,258,599	1,397,765	16,561,029	93,388,617
1932-33	56,757,681	2,633,659	23,096,512	1,612,987	17,984,590	102,085,429
1933-34	59,776,270	2,765,971	24,819,143	1,752,424	19,382,502	108,496,310
1934-35	63,387,061	3,011,127	27,318,815	2,022,078	21,443,776	117,182,857
1935-36	74,568,265	3,145,097	30,593,707	2,286,118	23,449,983	134,043,170
1936-37	78,233,032	3,302,178	33,192,904	2,444,701	25,519,377	142,692,192
1937-38	85,926,478	3,627,106	37,228,543	2,607,751	27,660,847	157,050,725
1938-39	80,721,680	3,595,128	38,305,885	2,654,734	27,6! 0,184	152,967,611

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

VICTORIA—PROPORTION OF OUTLAY TO OUTPUT OF FACTORIES

		Proportion of Outlay to Output.							
Year.		Materials.	Fuel, Light, and Power.	Salaries and Wages.	Tools Replaced, Repairs to Plant, Oil and Water Used.	Other Expenditure Interest. and Profit.	Total.		
		%	%	%	%	%	%		
1929-30		54.4	2.8	24.8	$i \cdot 1$	16.9	100.0		
1930-31		53.9	$2 \cdot 8$	24 · 9	1.1	17.3	100.0		
931-32		55.4	$2 \cdot 6$	22.8	1.5	17.7	100.0		
932–33		55.7	$2 \cdot 6$	22.5	1.6	17.6	100.0		
933-34		55.1	$2\cdot 5$	22.9	1.6	$17 \cdot 9$	100.0		
934-35		54.1	$2\cdot 6$	23.3	$1 \cdot 7$	18.3	100 0		
935–36		55.6	$2\cdot 4$	22.8	$1\cdot 7$	17.5	100.0		
936-37		54.8	$2 \cdot 3$	23 · 3	$1 \cdot 7$	17.9	100.0		
937-38		54.5	$2 \cdot 3$	23.6	$1 \cdot 7$	17.9	100.0		
93839		52.8	2.3	25.1	1.7	18.1	100.0		

The ratio of cost of materials to the value of the output of factories was 54·4 per cent. on the average of the last five years, as against 54·9 per cent. in the period 1929–30 to 1933–34. The ratio of salaries and wages to output averaged 23·6 per cent. over both periods. The proportionate outlay on fuel, light, and power was 2·7 per cent. in the earlier and 2·4 per cent. in the later period. After allocating the proportion for repairs to plant and buildings, replacement of tools, and costs of lubricating oil and water, the balance available for miscellaneous expenses, rent, interest, and manufacturers' profit was £17 18s. 10d. in every £100 of the total output value in the period 1934–35 to 1938-39, as compared with £17 9s. 7d. in the preceding five-year period.

In 1938-39, wages and salaries (including working proprietors' drawings) took 58.0 per cent. of the value added in manufacturing (see page 510), leaving 42.0 per cent. for the payment of miscellaneous expenses, rent, interest, and profits.

Capital invested in manufacturing plant and premises.

In the following statement the amount of capital invested in machinery, plant, land and buildings used in connexion with the various classes of manufacturing industries is shown for the year 1938-39.

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VICTORIA—MACHINERY AND PLANT, LAND AND BUILDINGS USED IN MANUFACTURING INDUSTRIES, 1938-39.

Class of Industry	Value of Machinery and Plant.	Value of Land and Buildings.
1. Treatment of non-metalliferous mine and	£	£
quarry products	1,632,442	813,982
2. Bricks, pottery, glass, &c.	941,024	736,454
3. Chemicals, dyes, explosives, paint, oils, and	,	
	2,994,053	3,103,873
grease	_,,	, .
4. Industrial metals, machines, implements, and	6,527,516	9,683,860
conveyances	127,226	343,889
5. Precious metals, jewellery, and plate	3,901,301	3,380,469
6. Textiles and textile goods (not dress)	363,019	956,936
7. Skins and leather (not clothing or footwear)	1,269,017	4,502,971
8. Clothing · · · · · · · · · · · · · · · · · · ·	7,179.642	9,774,451
9. Food, drink, and tobacco		1,039,245
10. Woodworking and basketware	878,796	913,903
11 Furniture, bedding, &c	209,423	
12. Paper, stationery, printing, bookbinding, &c.	2,796,094	3,446,880
13. Rubber	740,698	621,191
14. Musical instruments	2,751	25,096
15. Miscellaneous products	278,347	452,638
16. Heat, light, and power	8,785,394	2,230,407
10. Heat, light, and power		
Total	38,626,743	42,026,245

The capital invested in plant, buildings, &c., used in connexion with three classes of industry—food and drink, industrial metals, &c., and heat, light, and power—amounted, in the year under review, to £44,181,270, or more than one-half of the total for all manufacturing industries.

The values of machinery and plant and of land and buildings used in connexion with manufacturing industries are shown in the next table for the years 1929–30 to 1938–39. The value recorded is the depreciated value or the book value less any existing depreciation reserve.

VICTORIA—MACHINERY AND PLANT, LAND AND BUILDINGS USED IN MANUFACTURING INDUSTRIES.

10 11							
		Yea	r.			Value of Machinery and Plant.	Value of Land and Buildings.
						£	£
1000 00						35,022,535	36,988,485
1929-30	• •	• •	• •	• •		34,771,687	36,218,384
1930–31			• •	• •	• •	33,481,615	34,868,960
1931-32				• •	• •		34.804.987
1932-33						33,022,441	
1933-34						33,270,400	35,563,879
						33,947,056	36,644,621
1934-35	• •	• •	• •			34,194,608	37,678,298
1935–36		• •	• •	• •		36,213,626	38,948,268
1936-37					• •		40.339,541
1937-38						36,868,289	
1938-39						38,626,743	42,026,245

It will be seen from these figures that the values of machinery, plant, land and buildings increased by 12.0 per cent. between 1929-30 and 1938-39.

Accidents in factories is given for the past ten years. The particulars in the table relate to establishments which came within the scope of the Factories Acts in force in the years specified, and not to those classified for statistical purposes in the preceding tables.

VICTORIA—ACCIDENTS IN FACTORIES.

	Year.		Number of Employees.	Number of Accidents.	Percentage of Accidents to Number of Employees.
1929			136,025	1,129	.829
1930			104,926	890	- 848
1 931	• •	• •	110,692	677	.611
1932			125,670	809	.644
1933	• •		134,842	956	.709
1934			148,155	1,162	• 784
1935			159,912	1,290	807
1936	• •		170,084	1,513	.889
1937			179,650	2,432	1.354
1938	• •		184,509	2,374	1.287

The foregoing tables do not include particulars relating to work of various kinds done at the Pentridge Penal Department Establishment and the Royal Victorian Institute for the and Blind Institute. At the former establishment the manufacture of Blind. wire netting, clothing, brushware, boots, mats, blankets, flannel, underclothing, and printing are carried on. The estimated value of the output for 1938-39 was £52,779, and, of the materials used, The articles produced are used principally by Government Departments. The work carried on by the latter establishment is the manufacture of brushware, brooms, mats and matting, baskets, and millet brooms, and gives employment to 154 persons (136 males and 18 females). The value of the work turned out for the period under review was £48,659.

Factory Although approximately 70 per cent. of the factories statistics by in Victoria are located within the Metropolitan area, some of the municipalities outside Greater Melbourne also have important manufacturing industries.

The following table gives factory statistics for the metropolitan and the more important extra-metropolitan municipalities for the year 1938-39.

		!	Number of	PERSONS E	MPLOYED.	Salaries and	Value of Land and	Value of	Value of Materials Used	Value of Articles
Municipa	lity.		Factories.	Males.	Females.	Wages Paid.	Land and Buildings.	Plant and Machinery.	(including containers).	Produced or Work Done
						£	£	£	£	£
Melbourne			2,333	29,590	22,661	9,838,461	11,431,758	6,688,604	18,572,668	36,557,010
Brunswick			342	6,165	5,153	1,823,708	1,418,763	$1,\!139,\!182$	2,705,757	5,751,269
Essendon			124.	666	296	172,716	202,286	103,004	351,109	634,003
Coburg			90	1,715	1,473	482,827	337,624	312,668	844,848	1,762,106
Preston			85	1,814	330	459,887	552,327	242,311	787,792	1,472,641
Northcote			121	1,224	. 398	308,683	293,912	190,212	497,126	1,016,952
Fitzrov			334	5,380	3,861	1,613,274	1,404,966	874,309	2,900,248	5,460,926
Collingwood			395	9,709	7,699	2,938,125	2,535,099	2,146,391	5,304,270	10,037,439
Kew			44	122	61	33,906	67,658	24,476	51,228	102,126
Camberwell			108	477	345	135,101	159,452	70,124	202,697	429,607
Hawthorn			166	1,025	74 0	292,450	396,667	188,043	402,643	895,094
Richmond			340	9,571	5,062	2,670,889	2,605,330	2,025,833	4,836,825	9,798,686
Prahran			322	3.013	2,491	944,921	969,765	$398,\!139$	2,406,473	4,365,983
Malvern			145	596	216	149,322	198,136	59,341	214,211	410,457
Caulfield			148	638	210	148,983	183,554	57,070	213,522	433,777
Oakleigh			29	471	6	99,915	111,680	139,555	180,516	392,909
Sandringham			41	229	274	76,456	90,617	22,252	113,345	238,106
Brighton			87	606	403	167,884	190,355	253,073	240,704	543,728
St. Kilda			134	965	439	270,903	237,461	95,348	372,714	805,484
South Melbourne			461	12,562	3,430	3,355,356	2,991,666	2,082,367	6,181,403	12,616,371
Port Melbourne			92	3,160	557	784,819	905,467	891,609	1,663,003	3,398,901
Footscrav			229	9,431	1,862	2,320,892	2,573,265	3,296,092	7,805,427	12,660,433
Williamstown			74	5,834	274	1,424,603	1,852,142	2,339,701	1,890,797	4,308,447
Braybrook			57	4,985	795	1,260,492	1,382,315	1,222,183	2,117,972	4,315,309
Heidelberg			56	705	194	198,441	292,677	377,136	592,735	1,146,905
Box Hill			44	362	54	86,274	92,146	114,051	138,585	273,025
Moorabbin			35	280	180	66,820	82,044	77,516	116,846	237,472
Mordialloc			19	73	18	16,096	22,987	30,420	28,770	56,036
Chelsoa		• • •	12	77	5	13,039	17,404	5,633	21,030	41,282
Total Metr	opolitai	n	6,467	111,445	59,487	32,155,243	33,599,523	25,466,643	61,755,264	120,162,484

VICTORIA—FACTORY STATISTICS BY MUNICIPALITIES, 1938-39-continued.

				Persons 1	EMPLOYED.					
Municipa	ality.		Number of Factories.	Males.	Females.	Salaries and Wages Paid.		Value of Plant and Machinery.	Value of Materials Used (includ- ing containers	Value of Articles Produced or Work Done
XXX 11.				_		£	£	£	£	£
Werribee Blackburn and M			22	155	12	41,593	123,034	149,564	613,820	915,514
		• • •	30	515	79	109,902	86,758	93,292	53,354	274,431
Dandenong	• •	• • •	32	727	57	168,090	134,812	154,862	453,061	740,486
*Geelong		٠٠ إ	247	5,320	1,957	1,426,929	2,232,364	2,640,838	2,766,254	6,070,319
Korum burra	• •		24	120	- 12	28,590	42,541	33,987	488,376	543,984
Castlemaine	• •		24	643	143	163,585	65,546	164,154	195,968	432,534
Maryborough			30	282	303	93,802	40,339	68,582	209,066	341,436
†Ballarat (includin	g Sebasi	topol)	214	2,304	1,199	629,872	664,825	633,083	1,099,976	2,154,504
Colac	• •	• •	61	400	42	95,442	123,162	96,888	607,221	767.391
Hampden	• •	• • • [34	322	. 27	84,179	91.087	93,175	592,486	776,563
†Warrnambool	• •	• •	59	878	317	230,743	452,122	489,975	1,084,759	1,531,552
Hamilton			42	227	27	51,158	49,162	57,326	202,255	307,658
Horsham			41	214	18	49,679	97,926	74,918	154,192	235,333
†Stawell			40	295	123	65,668	45,873	74,196	149,861	266,775
Dim boola			31	98	4.	20,480	25,609	43,733	52,007	
†Mildura			95	916	213	219,280	231,746	247,275	222,848	87,535
Swan Hill			5 0	261	25	53,443	70,635	81,460	112,685	578,282
Bendigo (includin	g Eagleh	iawk)	156	908	504	243,119	228,990	192,230	618,954	208,584
Echuca			34	176	10	38,707	43,829	29,006		1,02,,662
Rodney			36	288	180	91,010	145,619	117,442	169,715	234,589
†Shepparton			50	425	137	$129,\!272$	213,837	112,018	562,597	718,288
Benalla			28	146	10	32,356	F 31,879	25,138	655,937	945,102
†Wangaratta			43	240	126	65,223	76,159	$\frac{25,138}{75,639}$	118,213	167,535
Bairnsdale			36	185	17	41,013	40.054		261,805	383,074
Morwell			23	1,005	îi l	268,654	1,012,940	31,813	129,165	192,309
Other Municipalit	ies		1,301	7,723	573	1,708,853		4,450,594	209,434	2,205,464
* .		- !-				*,100,000	2,055,874	2,928,912	$7,\!182,\!407$	10,698,223
Total Count	ry		2,783	24,773	6,126	6,150,642	8,426,722	13,160,100	18,966,416	32,805,127
Total State			9,250	136,218	65,613	38,305,885	42,026,245	38,626,743	80,721,680	152,967,611

^{*} Includes Corio, Geelong West, and Newtown and Chilwell.

[†] Includes Shire of same name.

VALUE OF VICTORIAN PRODUCTION.

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

agriculturists with holdings of less than 1 acre.

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

VICTORIA—GROSS VALUE OF PRODUCTION.

Division of Indus	try.	1934-35.	1935-36.	1936-37.	1937-38.	1938-39.
Agriculture Pastoral Dairying Poultry and Bees Trapping Forestry Fisheries Mining Manufacturing*		£ 15,793,092 14,969,013 9,368,531 3,613,119 581,647 901,099 169,182 1,580,867 48,762,591	£ 19,079,008 19,484,164 11,376,604 3,697,004 890,078 908,579 197,009 2,106,334 54,043,690	\$ 24,038,124 21,948,704 13,018,154 4,128,136 953,046 1,121,312 214,212 2,448,262 58,712,281	£ 24,106,207 21,147,151 12,989,517 4,866,129 922,930 1,231,322 220,682 2,558,880 64,889,390	£ 14,378,841 17,936,267 12,682,076 4,854,076 615,217 1,241,143 229,906 2,624,276 65,996,069
Total		95,739,141	111,782,470	126,582,231	132,932,208	120,557,871

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

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

(a) Workers in all grades of the industry.

(b) Proprietors (including landlords) of any of the instruments of production concerned.

(c) Providers of capital, including debenture holders and mortgagees.

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

VICTORIA-VALUE AT THE PLACE OF PRODUCTION.

	-				Value in—		
Industry and	Produ	ice.		1	value in—		
			1934-35.	1935–36.	1936-37.	1937-38.	1938-39.
Agricul	iural.						
Barley			£	£	£	£	£
Maize	• •	• •	184,545 131,945	259,568 137,684	393,249	421,823	224,145
Oats			468,622	544,655	189,679 672,456	165,572 743,829	91,506 432,100
Wheat			4,119,773*	6,560,446*	10,161,533	7,859,971	2,241,991*
Onions Potatoes	• •	• •	191,540	167,063	223,446	118,524	174,269
Hay and Straw	• •	• • •	670,872 3,180,923	578,870	489,632	638,268	846,649
Fruit—	• •	••	0,100,020	3,007,610	3,749,928	5,043,540	3,405,579
Orchards			1,007,729	1,188,958	1,285,249	1,387,257	1,360,070
Vineyards Other Crops	• •	• •	1,196,262	1,464,927	1,670,006	1,916,952	1,474,893
Other Crops	• • .	• •	1,869,541	1,953,306	1,985,626	1,981,038	1,774,865
Total			13,021,752	15,863,087	20,820,804	20,276,774	12,026,067
Pastor	al.						
Wool			5 510 400	9 001 002	10.610.05	0.000.500	0.055.50
Sheep Slaughtered		• • •	5,519,469 4,700,644	8,991,206 4,613,721	10,618,871 5,451,803	8,922,596 $5,442,794$	6,677,765
Cattle Slaughtered		::	3,402,232	4,392,228	4,235,861	5,169,535	5,172,214 $4,442,251$
Horses	• •	• •	66,764	47,180		8,708	44,596
Total	• -		13,689,109	18,044,335	20,306,535	19,543,633	16,336,826
Dairyi	ıg.						
Cream for Butter			5,317,537	6.192.160	£ 000 750	7 240 949	0 991 970
Milk for Cheese	• • •	• • •	201,991	$6,433,169 \\ 253,857$	6,882,750 319,157	7,340,263 $461,248$	$6,831,850 \\ 549,147$
Milk for Conde	nsing,	Con-	201,001	200,001	010,107	101,210	0 ±0,1±1
centrating, &c.		• •	387,682	471,853	682,889	941,233	823,611
Whole Milk consu Pigs	med	• •	1,860,126	1,975,344	2,130,446	2,205,338	2,662,557
-	••	••	1,154,966	1,781,393	2,399,681	1,487,321	$\frac{1,329,009}{-}$
Total	••	• •	8,922,302	10,915,616	12,414,923	12,435,403	12,196,174
Poultry and	Bees.					,	
Eggs			2,626,542	2,612,853	3,037,782	3,654,860	3,631,000
Poultry			668,857	717,767	728,532	714,303	831,999
Honey and Beeswa	ЯХ	• •	39,540	77,505	45,360	59,930	23,448
Total			3,334,939	3,408,125	3,811,674	4,429,093	4,486,447
Trapping,	etc.	ĺ					
Rabbits and Hares			990 909	10100=	140 5-10	914.004	0.55
Rabbit and Hare	Skins.	&c.	230,202 250,621	1 6 4,397 643,538	$140,710 \\ 741,751$	$214,094 \pm 635,321$	227,999 $315,683$
Total	,	İ					
		••	480,823	807,935	882,461	849,415	543,682
Forestr	у.					i	
Forest Sawmills	••		99,190	101,707	343,625	426,881	414,978
Firewood Bark for tanning	• •	• •	486,980	529,043	489,996	533,282	583,584
•	••	• •	78,630	61,459	69,486	69,011	69,170
Total	⊕ -3	• • •	664,800	692,209	903,107	1,029,174	1,067,732
Fisheria	es.						
Fish			131,103	136,464	153,349	159,251	170,746
Crayfish	• •	••	9,446	10,468	8,647	8,834	6,114
Oysters	• •	••	••	14	3	10	59
Total			140,549	146,946	161,999	168,095	176,919
		1			!		

^{*} Inclusive of wheat bounties.

VALUE AT THE PLACE OF PRODUCTION—continued.

	Value in—								
Produce.	1934-35.	1935–36.	1936–37.	1937-38.	1938-39.				
Mining.	£	£	£	£	£				
Gold Coal— Black Brown Other Metals and Minerals Quarrying	 594,115 215,413 264,192 11,421 374,454 1,459,595	764,751 282,255 249,476 89,204 407,965 1,793,649	1,013,770 253,835 323,914 93,410 462,359 2,147,288	1,260,432 171,369 325,950 153,517 403,838 2,315,106	1,267,341 188,101 351,721 156,982 414,311 2,378,456				
Total Primary Manufacturing Grand Total	 41,713,869 48,762,591 90,476,460	51,671,902 54,043,690 105,715,592	61,502,791 58,712,281 120,215,072	61 046,693 64,889,390 125,936,083	49,212,303 65,996,069 115,208,372				

The values of production of the various classes of industry, as they appear in the previous table for the year 1938-39, are shown hereunder, together with the costs of production where available. The difference between the two figures represents the net value of production or the net return available to the producers for wages, rent, interest and profits. As previously explained, the deductions are incomplete, and depreciation (see below) has been here disregarded, but the margin of error is considered to be small in view of the comparative unimportance of the industries concerned from the point of view of production costs.

VICTORIA—COSTS OF PRODUCTION, 1938-39.

Industry.		Value at Place of Production.	Cost of Production.†	Net Value.	Net Value per Head of Population.		
Agriculture Pastoral Dairying Poultry and Bees Miscellaneous Mining Manufacturing		£ 12,026,067 16,336,826 12,196,174 4,486,447 1,788,333 2,378,456 65,996,069	£ 6,408,406 1,180,550 2,237,700 1,350,390 * 92,450 635,841	£ 5,617,661 15,156,276 9,958,474 3,136,057 1,695,883 1,742,615 65,996,069	£ s. d. 2 19 11 8 1 8 5 6 3 1 13 6 0 18 1 0 18 7 35 3 11		
Total		115,208,372	11,905,337	103,303,035	55 1 11		

^{*} Incomplete.

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

Depreciation. While depreciation of assets used must be considered as a legitimate charge against the value of production, the problem of exact measurement presents much difficulty. Depreciation may generally be considered as proportionate to the life of the asset, but this cannot always be accurately measured, particularly with machinery where obsolescence might be suddenly accentuated by new invention. Care and expertness in handling and proper repairing must influence the effective life of machinery, while managerial policy and methods of determining depreciation affect annual amounts actually written off.

In these circumstances there is no certainty that depreciation will vary in direct proportion to annual production as in the case of other production costs, but it is considered that some attempt at measurement of the annual amount chargeable against production should be made.

The table hereunder shows details of the fixed capital invested in certain of Victorian industries and the estimated depreciation thereon for the year 1938-39:—

VICTORIA—DEPRECIATION, 1938-39.

Industry	Capital Value.	Depreciation.	Per Cent.	
	£	£	%	
Agriculture—Machinery and implements	8,750,000	875,000	10	
Pastoral machinery and implements	860,000	43,000	5	
Dairying machinery		24.000	5	
Agriculture, dairying and pastoral—building	3	, ,		
and fences	41,000,000	1,640,000	4	
Manufacturing—Land, buildings, plant and		, ,,,,,,,		
machinery	78.136,960	3,040,155	3 · 9	

The estimated percentages of depreciation on agricultural, pastoral, and dairying machinery and on the value of buildings and fences in those industries have been arbitrarily fixed by Australian Statisticians in the interests of uniformity. The amount of depreciation on factory buildings, &c., is the total written off as shown by the returns rendered by manufacturers.

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

Supplementary to this annual collection, 105 large factories send to the Government Statist monthly returns which are used for the purpose of estimating the current movement in the employment index until the annual returns covering the whole field come to hand. Although the sample is small it has proved to fluctuate closely with the total annual figures.

The following table shows the monthly index calculated from the figures above-mentioned; the index from July, 1939, is obtained from the sample of 105 factories and is shown on the graph on page 553 by double lines.

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

Month.	1933-34.	1934-35.	1935-36.	1936-37.	1937-38.	1938-39.	1939-40
July	1,000	1,115	1,202	1,272	1,352	1,393	1,366
August	1,018	1,132	1,220	1,289	1,367	1,396	1,372
September	1,050	1,150	1,254	1,312	1,387	1,409	1,380
October	1,075	1,192	1,282	1,342	1,414	1,430	1,432
November	1,104	1,205	1,303	1,350	1,426	1,437	1.458
December	1,102	1,193	1,295	1,337	1,425	1,425	1.447
January	1,055	1,150	1,261	1,291	1,378	1,372	1,470
February	1,108	1,196	1,313	1,371	1,447	1,428	1,504
March	1,144	1,217	1,343	1,383	1,472	1,446	1,513
April	1,124	1,209	1,311	1,393	1,458	1.433	,
May	1,128	1,202	1,310	1,368	1,436	1,428	
June	1,118	1,191	1.286	1,349	1,416	1.406	

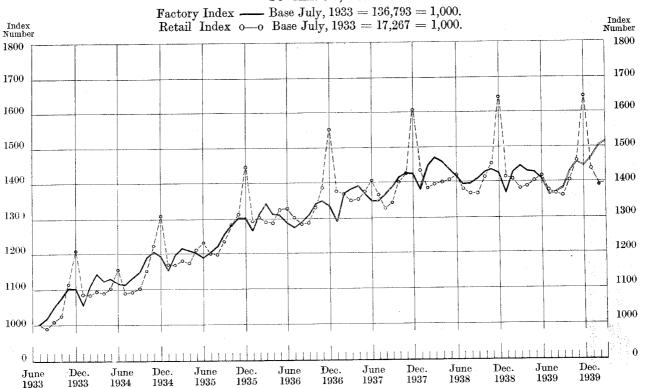
The volume of employment in retail trade is a valuable indicator of economic conditions. Since July, 1933, monthly returns showing the numbers of employees on the payrolls of 102 large retail stores in Victoria have been collected by the Government Statist, but have not previously been published. It would appear, however, that despite the limitation of the size of the sample the statistics reflect the trend of retail employment. The fluctuations over the period 1933 to 1940 have regular periodic movements and the general trend closely approximates to that shown by factory employment.

The following table shows the monthly index calculated from the figures above-mentioned which are plotted on the graph which follows:—

INDEX OF RETAIL EMPLOYMENT. (Base—July, 1933, 17,267 = 1,000.)

Month.	1933-34.	. 1934-35.	1935-36,	1936-37.	1937–38.	1938–39.	1939-40
July	1,000	1,089	1,202	1,301	1,366	1,381	1,378
August	990	1,092	1,197	1,282	1,327	1,367	1,367
September	1,010	1,102	1,231	1,286	1,344	1,368	1,362
October	1,024	1,153	1,281	1,332	1,400	1,415	1,404
November	1,113	1,221	1,309	1,384	1,428	1,456	1,461
December	1,208	1,308	1,445	1,548	1,606	1,643	1,646
January	1,085	1.167	1.287	1,377	1,436	1,414	1,439
February	1.082	1.167	1.302	1,368	1,386	1,410	1,393
March	1.092	1,180	1,290	1,350	1,395	1,382	1,397
April	1,088	1,173	1.286	1.355	1,399	1,390	
May	1,101	1,207	1,322	1.373	1,406	1,401	
$\widetilde{\mathrm{June}}$	1,155	1,227	1,327	1,404	1,420	1,418	

MONTHLY INDEX OF FACTORY AND RETAIL EMPLOYMENT IN VICTORIA: JULY, 1933, TO MARCH, 1939.



Production.

553

Monthly employment in factories.

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

VICTORIA—MONTHLY EMPLOYMENT

Tn.dut			-	Avera	age Numbe
Industry.		July.	August.	Septem- ber.	October.
Aerated waters		464	486	512	593
Agricultural implements		4,429	4,445	4,566	4,386
Art metal		294	288	301	300
Artificial flowers		260	258	254	247
Bacon curing		522	528	525	521
Bags and sacks		240	234	231	232
Bags, trunks, &c.		869	870	887	890
Bakeries		2.710	2,745	2,730	2,719
Basketware		159	161	155	151
Bedding and mattress		702	679	676	667
Biscuits		1,097	1.143	1,113	
Boiling down, tallow, &c	• •	324	326	326	1,054
Boot accessories	• •	757	781	798	376
Root manairing	• •	250	250		794
Roots and shoos	• •	9.627		250	248
Royag and appea	• •		9,869	10,054	10,106
Th	• •	709	721	724	730
D	• •	1,837	1,844	1,845	1,859
Rejola tilos fuebnish	• •	1,432	1,438	1,448	1,508
D	• •	2,028	2,055	2,058	2,059
Brooms and brushware	• •	416	418	418	411
Butter and cheese	• •	2,613	2,690	3,079	3,295
Buttons	• •	120	118	121	123
Cabinet, furniture	• •	3,101	3,119	3,147	3,160
Celluloid and similar compositions	٠.	356	341	343	333
Cement and cement goods		1,275	1,243	1,283	1,317
Cereal foods	[889	889	906	888
Chaffcutting		385	334	338	328
Chemical fertilizers		1,015	1,025	1,033	986
Chemicals, drugs		1,777	1,817	1,821	1.840
Condiments, coffee		1,165	1,113	1.158	1.138
Confectionery		3,033	3.043	2,985	2,808
Cooperage		251	253	256	254
Corséts, stays		1,193	1.203	1,201	1,214
Cotton		1.865	1,870	1,839	1,850
Cutlery and small tools		696	689	655	632
Lycle and motor accessories		1.259	1.229	1.195	1.158
Die sinking and engraving		149	150	148	154
Distilleries		113	114	88	91
Dressmaking		7,438	7,787	8,077	8,209
Oried fruit		608	559	472	475
Oyeworks and cleaning		1,078	1,083	1,121	1,203
Carthenware, china, &c.		1,127	1,122	1,121	1,203
Electric light—Government		961	990	983	
" Local authority	1	263	261	260	1,014
· · · · ·	•••				266
"" Companies " Electrical apparatus	•••	2 200	80	80	80
	••	3,268	3,196	3,182	3,158
Mectrotyping and stereotyping	•• ;	93	96	97	98

messengers and all others engaged in work connected with manufacturing.

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

IN FACTORIES, 1938-39.

of	Employees	in
----	-----------	----

832 4,032 299 249 522 222 929 2,715 150 685 1,127 404 795 249 9,931 732 1,858 1,531 2,037 414 3,371 117 3,208 291	730 3,691	January.	February.	March.	April.	May.	June
4,032 299 249 522 222 929 2,715 150 685 1,127 404 795 249 9,931 732 1,858 1,531 2,037 414 3,371 117 3,208 291	3,691	742			- 1		• unc
4,032 299 249 522 222 929 2,715 150 685 1,127 404 795 249 9,931 732 1,858 1,531 2,037 414 3,371 117 3,208 291	3,691	120	747	642	566	511	470
299 249 522 222 929 2,715 150 685 1,127 404 795 249 9,931 732 1,858 1,531 2,037 414 3,371 117 3,208 291		3,667	3,646	3,663	3,555	3,538	3,485
249 522 222 229 2,715 150 685 1,127 404 795 249 9,931 732 1,858 1,531 2,037 414 3,371 117 3,208 291	302	302	305	306	305	313	312
522 222 929 2,715 150 685 1,127 404 795 249 9,931 732 1,858 1,531 2,037 414 3,371 117 3,208 291	265	179	290	285	208	312	310
222 929 2,715 150 685 1,127 404 795 249 9,931 732 1,858 1,531 2,037 414 3,371 117 3,208 291	533	523	518	503	508	512	507
929 2,715 150 685 1,127 404 795 249 9,931 732 1,858 1,531 2,037 414 3,371 117 3,208 291	217	216	248	236	235	249	246
2,715 150 685 1,127 404 795 249 9,931 732 1,858 1,531 2,037 414 3,371 117 3,208 291	923	860	904	892	876	886	900
150 685 1,127 404 795 249 9,931 732 1,858 1,531 2,037 414 3,371 117 3,208 291	2,746	2,726	2,734	2,758	2,772	2,755	2,773
685 1,127 404 795 249 9,931 732 1,858 1,531 2,037 414 3,371 117 3,208 291	155	150	148	146	110	132	138
1,127 404 795 249 9,931 732 1,858 1,531 2,037 414 3,371 117 3,208 291	707	694	728	742	741	732	713
404 795 249 9,931 732 1,858 1,531 2,037 414 3,371 117 3,208 291	1,203	1.034	1,142	1,122	1,084	1,172	1,096
795 249 9,931 732 1,858 1,531 2,037 414 3,371 117 3,208 291	390	392	369	330	329	319	313
249 9,931 732 1,858 1,531 2,037 414 3,371 117 3,208 291	722	681	749	755	747	758	760
9,931 732 1,858 1,531 2,037 414 3,371 117 3,208 291	248	249	251	252.	250	249	250
732 1,858 1,531 2,037 414 3,371 117 3,208 291	8,760	7.898	9.125	9,599	9,407	9,621	9,524
1,858 1,531 2,037 414 3,371 117 3,208 291	749	728	724	733	711	710	666
1,531 2,037 414 3,371 117 3,208 291	1.892	1,881	1,886	1,912	1,907	1,938	1,905
2,037 414 3,371 117 3,208 291	1.541	1,533	1,550	1,540	1.553	1,550	1,547
3,371 117 3,208 291	2,069	2,061	2,088	2,082	2,154	2,168	2,147
3,371 117 $3,208$ 291	416	420	426	428	437	440	436
3,208 291	3.254	3.025	2,765	2,641	2,616	2,615	2,680
$\frac{3,208}{291}$	119	129	135	137	134	131	122
291	$3,\!255$	3.037	3,115	3,123	3,100	3,105	3,053
	304	306	294	291	283	297	296
	1,432	1.414	1,428	1,342	1,190	1,325	1,352
$\frac{1,449}{892}$	918	902	903	898	963	1,001	960
334	351	397	397	367	333	330	306
983	946	965	1.032	1,470	1,351	1,114	993
1.861	1.847	1,744	1,753	1,743	1,738	1,748	1,733
1,157	1,164	1,037	1,079	1,046	1,104	1,158	1,134
2,719	2,603	2,414	2,492	2.574	2.757	3,008	2.93
255	2,003	237	249	255	254	258	260
1,227	1,225	1,228	1,255	1,267	1,285	1,290	1,27
1,806	1,835	1,821	1,843	1,873	1,868	1.893	1,90
631	628	626	540	539	506	519	519
1,182	1.254	1,280	1,342	1,294	1,282	1,268	1,220
1,102	154	149	158	158	156	172	186
81	80	79	72	79	89	105	80
8.175	8,010	7.134	8,077	8.325	8.051	7,865	7,440
482	462	490	568	1,056	1,576	1,413	1,15
	1,235	1,263	1,285	1,278	1,283	1,264	1,21
1,242	1,230 $1,152$	1,108	1,106	1,096	1,068	1,078	1.08
1,145	981	1,055	1,109	1,081	1,074	1,070	1,07
977	258	253	252	256	260	259	260
257	298 81	81	82	82	81	81	8
2 122	3,131	3,104	3,135	3,147	3,142	3.167	3.15
$\frac{3,123}{95}$	96	95	96	94	94	95	9,10

VICTORIA—MONTHLY EMPLOYMENT IN

Industry.				Avera	ge Number
		July.	August.	Septem- ber.	October.
Engineering (not marine or electrical) .		9,416	9,307	9,395	9,461
Explosives		2,165	2,198	2,202	2,174
Extracting and refining—other metals .		52	53	54	55
Fellmongery		272	247	243	492
Furnishing, drapery		501	498	513	523
Furriers		695	731	711	735
Galvanized iron working		2,791	2,856	2,917	3,014
Gas fittings and meters	.	212	212	210	211
Gasworks—Local authorities		$\overline{76}$	75	74	$\frac{211}{74}$
,, Companies		723	730	723	726
Glass (including bottles)	.	1.271	1,294	1,248	
Gold silver and electropleting		1,122	1,105	1,090	1,266
Grain milling	1	1,095	1,103		1,096
Handkerchiefs, ties, &c.	i	485	495	1,096	1,055
Hats and caps	!	1.468	1,529	500	509
Horse-drawn vehicles	•	258	$\frac{1,329}{257}$	1,494	1,477
Hosiery and knitting		12,169		259	264
Ice, refrigerating		1,370	12,176	12,255	12,391
Ice cream	1	114	1,480	1,535	3,001
Inks, polishes &c	- 1	360	134	210	279
lams and fruit preserving		1.628	365	370	370
lewellery			1,639	1,717	2,021
Toinory	- 1	553	562	562	555
time plaster and ambalt		1,469	1,508	1,549	1,534
Machine helting	- 1	1,005	1,023	1,015	1,026
Walting	i	65	65	65	64
Margarine		371	372	374	369
Marble slate &c		95	97	101	98
Viatches		359	365	376	372
Meat and fish processing	l l	762	752	735	725
Millinery		222	231	221	225
Modelling	- 1	1,280	1,340	1,332	1,335
Motor body building		23	22	22	22
Motor construction and assembly	•	3,131	2,986	2,933	2,911
Motor repairs	•	1,783	1,745	1,793	1,804
Incical inatoron and	•	4,510	4,501	4,484	4,516
7	٠	79	78	79	79
Nila Indiana I	.	2,483	2,443	2,489	2,497
):10 4- 1-1.	•	161	159	158	158
Paper, paper bags, and boxes	•	118	106	103	92
Perambulators		2,700	2,705	2,536	2,571
11	.	126	129	135	137
M.I.I	.	362	362	366	369
Pioturo fromos	. [315	295	337	303
		41	45	45	42
Printing and bookbinding Rope and cordage		6,194	6,230	6,280	6.311
		1,104	1,091	1,077	1,060
Rubber tires, &c.		2,320	2,288	2,288	2,252
Rubber goods (other)		513	530	535	539
addlery, harness		65	62	63	61
alt refining	ŀ	113	111	116	116
ausage Skins		255	253	244	366
awmills—forest	İ	1,687	1,753	1,774	1,779

Factories, 1938-39—continued.

of Employees in-

Tovember.	December.	January.	February.	March.	April.	May.	June.
		0.070	9,219	9,215	9,107	9,144	9,179
9,366	9,314	9,278	2,854	3,145	3,361	3,704	3,766
2,263	2,336	2,440	55	60	57	59	59
58	57	$\begin{array}{c} 56 \\ 386 \end{array}$	310	280	249	270	256
581	578	476	479	481	473	465	485
511	498	723	783	804	808	809	748
746	744		2,971	2,972	2,853	2,836	2,766
3,039	3,114	$\begin{array}{c} 3,024 \\ 212 \end{array}$	212	212	213	216	216
210	210	76	77	76	76	76	76
74	77	772	762	770	776	780	773
737	762	1,143	1,120	1,248	1,303	1,310	1,28
1,257	1,270	1,143	1,065	1,096	1,102	1,173	1,139
1,094	1,097	1,000	1,153	1,128	1,103	1,075	1,00
935	1,014	386	454	460	452	457	450
. 490	456	1,405	1,468	1,536	1,521	1,498	1,479
1,488	1,458	275	272	267	262	260	26
265	270	12,141	12,340	12,266	12,137	12,153	12,139
12,494	12,424	2,960	2,427	1.840	1,707	1,541	1,58
3,775	3,481	363	348	224	173	121	11
323	340	368	381	389	389	388	37
372	380	2,088	4,600	5.358	4,461	1,981	1,72
1,939	2,065	502	545	548	534	507	50
565	563	1,490	1,538	1,548	1,517	1,580	1,57
1,559	1,545	1,003	997	1,014	1,099	1,067	1,05
1,026	1,015	62	62	62	62	63	6
63	64	312	305	$27\overline{2}$	299	376	36
383	372	105	106	108	97	99	9
107	103	362	366	369	370	356	33
375	376	705	663	661	661	685	68
718	676	303	299	273	282	286	28
248	296	1,100	1,269	1,287	1,248	1,097	1,04
1,286	1,132	20	20	19	17	17	1
21	21	3,240	3,171	3,317	3,398	3,576	3,40
2,852		1	1,920	1,978	2,098	1,977	1,81
1,750		4,584	4,596	4,581	4,563	4,558	4,56
4,499		1 '	76	81	79	80	8
78			2,446	2,418	2,413	2,423	2,40
2,446		1 1-110	159	159	159	154	15
165			77	97	107	137	13
80			2,536	2,561	2,654	2,608	2,65
2,568	7 4 4 7	' -/	1 1	128	128	127	12
139			379	378	374	376	37
367	T.1.			365	349	301	29
286			1	39	37	39	:
41				6,197	6,202	6,220	6,2
6,361				1,114	1,111	1,142	1,10
1,050	' - '- ··-			2,302	2,351	2,344	2,3
2,267	1	1 1		629	612	627	5
578				62	75	74	i .'
60	1			135	119	116	1
131				266	269	269	24
$\frac{41}{1,845}$	'		7 000	1,403	1,363	1,531	1,5

VICTORIA-MONTHLY EMPLOYMENT IN

Industry.					Average Number		
musuy.			July,	August.	Septem- ber.	October	
Sawmills—town			1,770	1,802	1,802	1,83	
Ship and boat building			529	452	477	530	
Shirts, collars, &c			4,601	4,606	4,662	4,690	
Silk, natural and artificial			499	468	483	505	
Smelting iron rolling			4.437	4.374	4,283	4,266	
Soap and candle			734	718	718	713	
Stationery			974	980	999	989	
Stoves and ovens			1,099	1,093	1,099	1,101	
Surgical instruments			270	271	268	261	
Lailoring			7,736	7,842	7,985	7,974	
Tanning and leather dressing			2,189	2,197	2,183		
Tents and sailmaking			196	197	210	$^{2,163}_{210}$	
Tobacco and cigarettes			2,184	$2,\!206$	2,262	2,292	
Toys, games, &c			764	771	819		
fram and railway workshops	,		6,016	5,995	5,934	811	
∍mbrellas			52	50	46	5,887	
Watches and clocks			513	538	551	43	
Vaterproof clothing			320	311	334	554	
Vhite lead, paint, &c.			334	$\frac{311}{325}$	322	337	
Vindow blinds, &c			84	86	88	330	
Vireless apparatus		• • • • • • • • • • • • • • • • • • • •	1,185	911	1.013	90	
Vireworking			1,067	1.079		919	
Vood turning		• • • • • • • • • • • • • • • • • • • •	442	426	1,067 419	1,067	
Voollen mills			9.568	9.526		435	
ther factories		• • •	5,210	5,171	9,541 5,331	$9,602 \\ 5,457$	
All Industries		Total	190,577	191,032	192,769	195,605	

BUILDING STATISTICS, 1938-39.

In view of the great importance of statistics of building and construction, their collection was undertaken in Victoria in 1929.

The particulars given below for the year 1938-39 were obtained from returns furnished by 953 builders.

The absence of any system of registration of builders makes it difficult to ensure that a return is obtained from every builder in the State. It is suspected that a number of builders do not render returns. The statistics presented hereunder cannot, therefore, be considered as an absolute measure of the value of the work done but merely as an indication of the trend of building operations. The figures, however, do provide valuable information relating to the division of the expenditure amongst the various trades engaged in and those dependent upon the industry, and also supply important data not otherwise available relating to the contribution of the building trade to the national income.

The value of building work done in each of the past five years, according to the returns received, was as follows:—

FACTORIES, 1938-39—continued.

of Employees in-

November.	December	January.	February.	March.	April.	May.	June.
1,848	1,830	1,731	1,787	1,803	1,763	1,789	1,805
460	408	359	338	376	432	440	376
4,677	4,547	3,631	4,441	4,453	4.373	4,424	4,431
. 529	529	519	517	540	541	569	565
4,256	4,244	4,182	4,197	4,116	3,966	4,040	4,035
718	708	647	691	684	684	707	703
997	1,009	979	987	992	960	945	944
1,112	1,114	1,104	1,127	1,158	1,167	1,198	1,182
266	270	263	263	272	271	276	274
7,981	7,974	7,496	7,821	7,916	7,851	7,825	7,701
2,183	2,071	2,042	2,210	2,223	2,218	2,214	2,237
220	220	211	210	205	204	207	208
$2,\!305$	2,302	2,154	.2,205	2,203	2,183	2,179	2,148
833	791	718	699	686	686	696	696
5,884	5,907	5,565	5,708	5,795	5,586	5,755	5.691
44	46	44	48	48	51	53	48
529	500	453	432	384	398	406	402
349	359	351	354	364	367	387	380
331	330	338	339	337	333	331	335
91	90	87	87	86	85	85	84
993	1,082	1,065	1 116	1,053	1,054	1,195	1,111
1,068	1,100	1,066	1,068	1,080	1,102	1,109	1,102
424	437	421	439	434	413	423	458
9,787	9,812	9,932	9,992	10,053	10,121	10,153	10,029
5,583	5,647	5,561	5,832	5,966	5,922	6,280	6,137
196,616	194,933	187,684	195,413	197,863	196,054	195,308	192,395

VICTORIA—VALUE OF BUILDING WORK.

-	1934-35.	1935-36.	1936-37.	1937-38.	1938-39.
Number of returns	877	965	982	962	953
New buildings Repairs and additions Other construction	£ 3,714,072 1,105,798 170,514	£ 4,759,178 1,369,274 138,679	£ 5,378,287 1,417,867 226,111	£ 5,951,979 1,651,290 211,511	£ 6,480,488 1,426,982 315,723
Total	4,990,384	6,267,131	7,022,265	7,814,780	8,223,193

The number of persons employed and the total salaries and wages paid are shown hereunder for the year 1938-39.

† Person	ns Emp	loyed.	Number.	Salaries and Wages Paid.	Average Salary or Wage.		
				£	£ s. d.		
Working propri	etors		 1,053	288,126	273 12 6		
Managers	• •	• • •	 142	53,876	379 8 2		
Clerks—							
Male			 96	19,285	200 17 8		
\mathbf{Female}			 69	6.329	91 14 6		
Others	• •		 6,041	1,409,939	233 7 11		

[†] Excluding Sub-contractors and their Employees.

VICTORIA—PAYMENTS TO SUB-CONTRACTORS, 1938-39.

		ę				£
Plasterers, including	fibrous	383,525	Bricklayers			191,720
Plumbers		379,777	Tilers			105,306
Painters		181,034	Others	• •	• •	508,820
Electricians		164,821			_	2 7 40 9 40
Carpenters and Join	ers	225,345	Total	••,	• •	2,140,348
			1			

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

Materials The following statistics should be read in conjunction with the preceding table. The values of the various materials set out hereunder are exclusive of those supplied by subcontractors for labor and material.

	Value.									
Materials.	 1934-35.	1935-36.	1936-37.	1937–38.	1938–39.					
Timber Bricks Iron and Steel Tiles Cement and lime Other materials	 £ 771,914 359,921 * 82,975 209,812 1.042,863	\pounds 948,150 463,113 301,538 104,725 257,597 943,201	\pounds 1,225,656† 472,547 384,747 106,675 324,496‡ 913,332	\pounds 1,315,540 \dagger 500,426 537,007 117,874 391,501 \ddagger 829,282	£ 1,323,486† 491,988 602,307 100,632 381,992‡ 912,065					
Total	 2,467,485	3,018,324	3,427,453	3,691,630	3,812,470					

^{*} Included in "Other materials." † Includes joinery. ‡ Includes sand.

In addition to payments for wages, materials, and sub-contracts, there are numerous other expenses incidental to building, such as fuel, insurance, building fees of various kinds, &c. These have been included under the heading of "Other expenses," and totalled £46,586 in 1934–35, £59,496 in 1935–36, £73,629 in 1936–37, £78,921 in 1937–38, and £118,607 in 1938–39.

Capital invested in plant and machinery amounted to £92,890 in 1934–35, £83,695 in 1935–36, £103,390 in 1936–37, £114,759 in 1937–38, and to £147,623 in 1938–39; capital invested in land and buildings used as workshops amounted to £83,397 in 1934–35, £68,514 in 1935–36, £78,349 in 1936–37, £74,418 in 1937–38, and to £96,905 in 1938–39.

The following table is an analysis of the buildings completed during the years 1935–36 to 1938–39. As some of these buildings were doubtless commenced in the previous year, the total value is not a measure of the value of building construction for each respective year. The table published at the beginning of this review shows the total value of construction and repair work done for those years.

VICTORIA—BUILDINGS COMPLETED, 1935-36 TO 1938-39.

		1935-36.		1936-37.		1937-38.		19 3 8-39.	
		Number.	Value.	Number.	Value.	Number.	Value.	Number.	Value.
Business premises Other buildings Dwellings—		421	£ 1,445,080 896,384	484	£ 1,514,018 1,141,676	513	£ 1,790,363 1,218,497	405	£ 1,866,262 1,298,362
Brick Wood	•••	1,433 1,049	1,580,634 604,405	1,388 1,316	1,729,927 818,424	1,376 1,577	1,756,265 992,120		1,824,240 992,070
Total Value	••		4,526,503	••	5,204,045		5,757,245		5,980,934

Information collected with regard to dwellings was confined to those constructed of brick and of wood as representative of the most common types of houses built in Victoria.

The table hereunder summarizes the result.

VICTORIA—DWELLINGS CONSTRUCTED, 1938-39.

		rick Dwelling	8.	Wooden Dwellings.			
Number of Rooms	Number.	Value.	Average Value per Dwelling.	Number.	Value.	Average Value per Dwelling.	
		£	£		£	£	
Three rooms .	. 15	8,462	564	68	18,542	273	
Four rooms .	. 107	75,151	702	326	156,962	481	
Five rooms .	. 712	667,336	938	913	613,716	672	
Six rooms .	. 313	372,341	1,189	195	151,323	776	
Seven rooms .		140,038	1,573	27	29,721	1.101	
Eight rooms .		143,685	1,842	6	6,233	1,039	
Nine rooms .		63,434	2,537	3	2,947	982	
Ten rooms .		139,024	1,986	4	9,326	2,331	
Over ten rooms.	. 52	214,769	4,130	2	3,300	1,650	
Total .	1,461	1,824,240	1,249	1,544	992,070	6,425	