

Production.

PRODUCTION.

LAND SETTLEMENT, ETC.

					Acres.
Lands ali	enated in f	ee simple			26,316,492
Lands in	process of a	alienation	••	••	7,280,000
Crown las	nds	••	••	••	22,649,268
	Total	د .	••		56,245,760
o Crown b	ands compr		enter de la composition de la	i Ny	
			A - 13		0.040.140
		inder Forest		••	3,942,163
		der Forests .		. ·;	735,889
	sts and Tir	mber reserve	es (under	Land	
Act)	•••	nber reserve	s (under	Land	329,585
Act) Water res	erves	••	••	Land	313,532
Act) Water res Reserves	erves for Agricul	 tural College	••	Land	313,532 87,003
Act) Water res Reserves Reserves	erves for Agricul in the Mall	 tural College	••	Land 	313,532 87,003 410,000
Act) Water res Reserves Reserves Other res	erves for Agricul in the Mall	 tural College	••	Land 	313,532 87,003 410,000 365,944
Act) Water res Reserves Reserves Other res Roads	erves for Agricul in the Mall erves	tural College ee	es, &c.	•• •• ••	313,532 87,003 410,000 365,944
Act) Water res Reserves Other res Roads Water fro	erves for Agricul in the Mall erves ntages, be	tural College ee ds of rivers,	es, &c.	· · · · · · · · · · · · · · · · · · ·	313,532 87,003 410,000 365,944 1,794,218
Act) Water res Reserves Other res Roads Water fro unsold	for Agricul for Agricul in the Mall erves ntages, be land in citic	tural Colleg ee ds of rivers, es, towns, an	es, &c.	· · · · · · · · · · · · · · · · · · ·	313,532 87,003 410,000 365,944 1,794,218
Act) Water res Reserves Other res Roads Water fro unsold Land in o	for Agricul in the Mall erves ntages, be land in citic eccupation	tural Colleg ee ds of rivers, es, towns, an under—	es, &c.	 ghs }	313,532 87,003 410,000 365,944 1,794,218 3,308,649
Act) Water res Reserves Other res Roads Water fro unsold Land in o Perp	for Agricul in the Mall erves ntages, be land in citic eccupation to etual leases	tural Colleg ee ds of rivers, es, towns, an under—	es, &c.	· · · · · · · · · · · · · · · · · · ·	313,532 87,003 410,000 365,944 1,794,218 3,308,649 89,309
Act) Water res Reserves Other res Roads Water fro unsold Land in o Perp Othe	for Agricul in the Mall erves ntages, be land in citic ecupation to etual leases r leases and	tural Colleg ee ds of rivers, es, towns, an under— 1 licences	es, &c.	 ghs }	313,532 87,003 410,000 365,944 1,794,218 3,308,649 89,309 49,629
Act) Water res Reserves Other res Roads Water fro unsold I Land in o Perp Othe Temp	for Agricul in the Mall erves ntages, be land in citic ecupation to etual leases r leases and porary graz	tural Colleg ee ds of rivers, es, towns, an under—	es, &c.	 ghs }	313,532 87,003 410,000 365,944 1,794,218 3,308,649 89,309 49,629 6,480,169
Act) Water res Reserves Other res Roads Water fro unsold Land in o Perp Othe	for Agricul in the Mall erves ntages, be land in citic ecupation to etual leases r leases and porary graz	tural Colleg ee ds of rivers, es, towns, an under— 1 licences	es, &c.	 ghs }	329,585 313,532 87,003 410,000 365,944 1,794,218 3,308,649 89,309 49,629 6,480,169 4,743,178

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Alienation of land.

In the following table are shown the area of Crown lands sold absolutely and conditionally, and the area of lands alienated in fee simple during the last five 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.

•	Area o	of Crown Land	s Sold.	Crown Lands alienated in Fe Simple.		
Year.	Absolutely, at Auction.	Conditionally	to Selectors.	Area.	Purchase Money.	
	åc.	Mallee.	Other.			
an a	Acres.	Acres.	Acres.	Acres.	£	
1926	2,832	388,559	93,469	125,765	87,740	
1927	3,824	214,609	85,409	214,173	203,414	
	5,807	344,571	68,686	213,519	188,339	
	4,825	310,174	65,294	187,752	114,965	
1930	5,344	137,242	40,691	111,564	89,703	

ALIENATION OF CROWN LANDS, 1926 to 1930.

Amount realized by sale of Grown lands. From the period of the first settlement of the State to the end of 1930 the amount realized by the sale of Crown lands was £35,319,883, which represents an average of £1 1s. 0d. per acre for all lands alienated or in process of

alienation. Payment of a considerable portion of this amount extended over a series of years without interest, upon very easy terms.

Lands remaining for disposal. Index of the Crown remaining for disposal :---

			Classifi	cation.			
Location.		Agric					
		L.	1	1 5.	1	Auri-	Total.
	First,	Second.	Third.	Fourth.	Un- classed.	ferous.	
(Journalise			• • • • •	1 anos			
County. Buln Buln	Acres. 7,728	Acres. 43,806	Acres, 98,496	Acres. 160	Acres.	Acres.	Acres. 150,19
Croajingolong	2,510	1,756	545,880		841,576	13,850	1,405,57
Dargo	••		96,013		431,100	71,000	598,11
Cambo	••	1'	199,077	- · · ·	363,050	900	563,02
Fanjil			104,317	••	360,650	67,000	531,96
Wonnangatta		39	146,065	1,269	941,563	01510	1,087,66
Bogong	714	11,409	192,603	1,209	158,724	84,518	449,23
Delotite	100	403	268,435 179,882	11,800	137,384 295,750	87,810 60,416	495,99 560,35
	546	149	3,479	1,029	290,100	00,410	5,20
Anglesev	010	2,364	58,592	1,040		2,540	63,49
Bourke		162	00,004			2,010	16
Dalhousie	20	450	754			455	1.67
Evelyn	19	11,845					11,86
fornington		1,469	11,093				12,565
Bendigo	79	537	3,545	••	•••	4,027	8,188
Rodney	••	88		••	••	••	88
Borung		502	57,068	1 105	••	3,913	61,48
Hadstone	475	1,435	2,956	2,495		10,735	18,09
lowan Kara Kara	86	654 166	155,586	36,662	9,614	0,000	202,51
R-1h at	219	1,267	2,344 182	••	2,040 4,524	3,530 22,083	8,160 28,27
Detahona	219	70	102		4,044	22,000	20,21
Teytesbury	40	685	126,196				126,881
olwarth	16,244	16,136	29.657	142			62,17
Frant	10,211	175	26,105			8,239	34,51
renville		221		· ••		6,615	6,830
Ripon		380	23,486	•• •	•••	3,781	27,641
Vormanby	••	· ••	123,406	••			123,400
Dundas	••	•• .	70,000	4,799	15,754		90,555
7illiers	••		2,058	••	00.100	7,550	9,608
follett	••		140,292		29,136		169,428
Karkarooc		39	••	••	•••		31
Totał	28,760	108,612	2,667,567	60,316	3,590,865	458,962	6,915,082
and the strengt	ia - 1				·		
Fhroughout the State	Swamp	or reclaim	ed lands .	• •	• ••	••	1,045
,, ,,	Lands w	hich may	be sold by	auction .	• ••	· · · ·	6,64
The north-western por-		lands ava	ilable for se	lection .	·	alamida	40,264
tion of the State	{ "		h as are suit r selection)		eventually	classified	4,260,309
Total area re							11,223,347

CROWN LANDS REMAINING FOR DISPOSAL ON 31st DECEMBER, 1930.

Much of the land included in the above statement is temporarily licensed under grazing licences.

The Lands Inquiry Branch gives information as to persons eligible to select under the Land Acts, area and conditions of selection, and concessions to land seekers.

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 transferring of land.

It gives a title to the transferee free of any latent defect and reduces the cost of dealing in real estate by reason of the simplicity of the procedure. All land parted with by the Crown since 1862 is under the operation of the Transfer of Land Act, and the Crown grant issues through the Titles Office; but, to bring under the Act land that was parted with prior to that year (5,142,321 acres), application must be made accompanied by strict proofs of the applicant's interest in the property. During 1930 there were submitted 250 applications to have brought under the Act land amounting to 8,922 acres in extent, and to £676,154 in value; while the land actually brought under the Act during the year by application was 18.034 acres valued at £1.115.145. Up to the end of 1930 there had been brought under the Act 3,199,168 acres valued at £70,025,765. The area of the land still under the Old Law System at the end of 1930 was 1,943,153 acres.

Assurance Fund

When application is made to have land brought under the Transfer of Land Act, a contribution to the assurance

fund of {d. in the £1 on the value of the land is levied on the applicant to assure and indemnify the Government in granting a clear title against all the world, as some other person may have a latent interest in the property, and it may be necessary for the Government to recompense such person out of the fund for the loss of his interest. Receipts during 1930-31 comprised contributions £3,486, interest on stock £4,992, and interest on £75,073-advanced under The Protection of Public Buildings Act 1885-£3,003. During the year £261 was paid out of the fund in settlement of claims, and £5,095 as interest on securities under the Special Funds Act 1920, No. 3067. The balance at the credit of the Assurance Fund on 30th June, 1931, was The amount paid up to 30th June, 1931, as compensation £160.323. and for judgments recovered, including costs, was £8,999.

CLOSER SETTLEMENT AND DISCHARGED SOLDIERS' SETTLEMENT.

Details relating to the operations of the Closer Settlement Board and to the conditions under which settlers may acquire blocks and advances will be found on pages 507 to 510 of the 1928-29 issue of this work.

Estates purchased. A complete statement of all estates acquired by the Closer Settlement Board including those purchased by the State Rivers and Water Supply Commission (*i.e.*, estates in irrigable areas), will be found in the report of the Closer Settlement Board for the year ended 30th June, 1930. No properties were purchased during the year ended 30th June, 1931.

A summary of the lands acquired is given in the following statement :---

LANDS ACQUIRED FOR CLOSER SETTLEMENT AND DISCHARGED SOLDIERS' SETTLEMENT TO 30TH JUNE, 1931.

ante de la composition de la compositio Composition de la composition de la comp	Closer Se	ttlement.	Discharged Soldiers' Settlement.		
	Area.	Cost.	Area.	Cost.	
Lands purchased Crown Lands taken over	acres. 1,054,308 112,703	£ 8,528,912 55,225	acres. 1,841,141 660,394	£ 14,158,877 539,599	
Total area and cost of purchase Expenses prior to disposal Public Works effected Interest capitalized	1,167,011 	$\begin{array}{r} 8,584,137\\ 90,375\\ 454,755\\ 58,164\end{array}$	2,501,535	14,698,476 114,889 963,388 137,297	
Total cost to 30th June, 1931	••	9,187,431	••	15,914,050	
Less land transferred to— Discharged Soldiers' Settle. ment	77,927	797,875	234,983	2,459,299	
Total net area and cost	1,089,084	8,389,556	2,266,552	13,454,751	

Financial Summary of Closer Settlement and Discharged Soldiers' Settlement at 30th June, 1931, are shown hereunder :--

FINANCIAL SUMMARY OF CLOSER SETTLEMENT AND DIS-CHARGED SOLDIERS' SETTLEMENT AT 30TH JUNE, 1931.

				Closer Settlement.	Discharged Soldiers' Settlement.	Total.
Number of set	lorg					•
	ceiving assistar	, do		8.116	5,910	14,026
Repaid in fu		100		4,050	541	4,591
Cancelled. tr	ansferred and s	arrendered		4,087	4,945	9,032
	ers who have rec			16,253	11,396	27,649
Loan liability-		01100 45515	Name	£	£	£
Loans raised				11.040.482	12,598,074	23,638,556
	Commonweal	th		857,201	11,968,176	12,825,377
	Total			11.897.683	24,566,250	36,463,933
Redemption		••		1,355,582	174,101	1,529,683
Outstanding				10,542,101	24,392,149(a)	34,934,250
~	v	· · · · · · · · · · · · · · · · · · ·		10,012,101	24,000,140(0)	01,001,000
interest or	principal used d working expe	ior payme	ant or	1,088,077	4,259,069	5,347,146
	tate Loans Rep		ind.	382,123	372,775	754,898
	f interest payal			£4 133. 2d. %	£5 4s. 3d. %	
Principal outs	tanding on land ed debts					
Selling value				9,189,436	13,301,146	22,490,582
Advances to				4,974,979	7,653,304	12,628,283
	l Debt Accounts	з		4,319	4,155,228	4,159,547
Less arrears o	f interest inclu	ded in Co	maali	14,168,734	25,109,678	39,278,412
	Debt Accounts			852	441,910	442,762
uabou	Dent Accounts	• •	••	14,167,882	24,667,768	38.835.650
Less Principal	l renaid			4,157,224(c)	5,435,399(b)	9,592,623
	ling Capital Lia	·· hilitur of ec	ttlarg	10.010.658	19,232,369	29,243,027
		omby of se	5001013	10,010,000	10,404,000	20,210,021
Principal	ts by settlers—			3,651,393	4,550,665	8,202,058
Interest	•• ••	••	••	3,684,120	3,328,682	7.012.802
Interest	m-+-1	••		7,335,513	7.879.347	15,214,860
		••	••	7,555,515	1,019,041	15,414,800
Arrears of sett Principal				1.189.141	1,298,669	2.487.810
Interest	•• ••	••	••	1,206,793	2,021,135	3,227,928
Interest	·· ··	••	••		3,319,804	5,715,738
	Total	••	••	2,395,934	3,319,804	9,119,138
	en off settlers'		-		1 000 070	1,330,676
Excess cost	dverse circumst	ances	••	••	1,330,676 39,448	1,550,676
Beduction in	valuation of la	nd and im	TOVA-		00,110	00,110
ments	•••••••••••••••••••••••••••••••••••••••	in and im		191.876	233,032	424,908
Bad debts	•••			162,833	1,356,286	1,519,119
				354,709	2,959,442	3,314,151
For financial w	ear 1930-1931-					
Interest paid				546,775	1,204,631	1,751,406
	ion expenses	••		86,280	96,090	182,370
	by settlers and	others		500,313	980,531	1,480,844
Interest paid	d by settlers and	d others		268,722	533,609	802,331
	() Includes £2,1 Interest is	60,960 to l not being	be writ charge	ten off liability to d on this amount.	Commonwealth	Government.
10	/ monutos				1	

(b) Includes— (i) Payment by Closer Settlement for land taken over		£ 884,734
(ii) Payment by settlers	••	4,550,665 5,435,399
 (c) Includes— (i) Payment by soldier settlement for land taken over ii) Payment by settlers (c) Payment by settlers 		505,83 1 3,651,393
		£4,157,224

Extent of Closer Settlement. The extent of the settlement effected by the Board up to 30th June, 1931, is given in the next statement :---

SUMMARY OF CLOSER SETTLEMENT TO 30TH JUNE, 1931.

Classification of Holdings.	Number.	Average Capital Value.	Average Area.	Total Area.
Dry Areas.	No.	£	Acres.	Acres.
Areas settled—	140.	, L	Acres.	Acres.
Farms	3,525	1,612	240	865,35
Agricultural Labourers' Allotments	154	131	16	2,59
Workmen's Homes .	1.080	89	1	79
Allotments disposed of under Discharged	-,		•	
Soldiers Settlement Acts	182	1,859	252	45,86
Public Competition, Auction, &c.		-,		47,78
,				
Fotal area of land settled Area of land available for—	••	••1	••	962,395
Farm Lands and Agricultural Labourers' Workmen's Homes	Allotmen	ts	••	27,96
Public Competition, Auction, &c.	••	••	••	71
Area of land acquired but not yet available	••	•••		11.
Loss of area on subdivision (roads, channels			••	1,59
Total dry areas acquired	••	•••	••	992,67
				a distri
		14	5	
Irrigation Areas.	No.	£	Acres.	Acres.
Areas settled—				
Farms	2,196	882	58	129,84
Agricultural Labourers' Allotments	152	116	6	· 916
Allotments disposed of under Discharged				
Soldiers Settlement Acts	501	917	64	32,06
Public Competition, Auction, &c	••		••	5,738
			1	
			1.1.1	
Fotal area of land settled	đ		••	168,56
Area of land available for—				
Farm Lands and Agricultural Labourers'	Allotmen	ts		1,139
Public Competition, Auction, &c.	••	÷ •	•••	478
Area of land acquired but not yet available	• • • •	••	• • • •	1,920
Loss of area on subdivision (roads, channels	s, reserves	, &c.)	••	2,234
Total irrigation areas acquired	ı.	••	••	174,335
				·
TOTAL AREAS acquired to 30th June	1001			1,167,01

Extent of The extent of settlement at 30th June, 1931, is given. Soutier in the table which follows :---

SUMMARY OF DISCHARGED SOLDIERS' SETTLEMENT TO 30th JUNE, 1931.

		Dry Areas.	Irrigation Areas.
		acres.	acres.
Area of land settled—Soldiers	•••	2,102,369	72,093
Area of land settled—Civilians (Closer Se Acts)	ttlement	214,218	20,765
Area of land available		1,280	1,049
Area of land acquired but not yet available	•		19,483
Sales by Auction, &c	•••	64,717	5,561
Total land acquired to 30th June, 19	931	2,382,584	118,951
Farms, Number of	••	7,666	1,999
Average area-acres	••	302	46
Average capital value	••	£1,707	£809

Inquiry into Soldier Land Settlement. The condition of Soldier Land Settlement in Victoria was the subject of an inquiry by a Royal Commission appointed in 1925, and was followed by an investigation into the position in all the States by His Honour Mr. Justice Pike, who was appointed by the Commonwealth Government in 1927.

Particulars of the findings of the various Boards, and their recommendations, will be found in the Annual Reports of the Closer Settlement Board.

WATERWORKS.

All Victorian waterworks are controlled by official bodies, state Expenditure of Waterworks. Waterworks. Waterworks. Waterworks. All Victorian waterworks are controlled by official bodies, either State or local. In the following table is given a statement of 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 their receiving free grants, large sums have been written off the liabilities of local bodies. The information appearing below has been largely taken from the Annual Report of the State Rivers and Water Supply Commission.

STATE EXPENDITURE ON WATERWORKS TO 30TH JUNE, 1931.

<u>yan di kana kana di kana da kana kana kana kana kana kana k</u>			<u> </u>		
	Total Advances, including Cost of Loan Flotation.	Redemp- tion Paid.	Capital Written Off.	Free Head- works.	Amount standing at Debit, 30th June, 1931.
State Rivers and Water Supply Com-					
mission— Completed Works—	£	£	£	£	£
Waterworks Districts Irrigation and Water Supply	4,934,645	49,775	175,055		4,739,815
Districts	4,442,869	31,730	575,152	••	3,83 5,9 87
Headworks excluded) Pyke's Creek, Melton and Dis-	1,410,949	106	••		1,410,843
tributary Works	235,016			••	235,016
Mornington Peninsula	836,569	1 A	••	••	836,569
Koo-wee-rup, Cardinia, and other Flood Protection Schemes	396,087		••		396,087
Eildon Reservoir and Waranga Reservoir Enlargement	2,475,835	1,000	••		2,474,835
Maffra–Sale Irrigation and Water Supply Districts	1,218,914		••	••	1,218,914
Millewa Waterworks Districts Red Cliffs Irrigation and Water	510,356	••••	•	••	510,356
Supply District Bellarine Peninsula	779,368 312,959	••			779,368 312,959
Campaspe and Loddon River Storages (proposed)	88,054		••		88,054
Free Headworks	1,257,136	420	••	1,256,716	
River Murray Agreement Works Surveys, &c	2,209,422 296,524		••		2,209,422 296,524
Total State Rivers and Water Supply					
Commission	21,434,703	83,031	750,207	1,256,716	19,344,749
First Mildura Irrigation Trust and Mildura Urban Trust	119,782	31,125			88,657
			316,537		
D. D. and Weter Conservation of the same	2,014,770	296,674			1,401,559
	396,990	92,777	2,111		302,102
Other Local Bodies (Municipalities) Abolished Irrigation and Waterworks	446,771	89,583	163,760		193,428
Trusts	32,754	30	32,724	115010	
Free Grants to Local Authorities Melbourne and Metropolitan Board of	147,046		••	147,046	• ••
Works		3,189,934*		••	
Trust	459,797	300,235			159,562
Total	28,242,547	4,083,389	1,265,339	1,403,762	21,490,057

* Of this amount £800,000 was provided out of Consolidated Revenue, the balance being payments by the Melbourne and Metropolitan Board of Works.

In addition to the capital written off, as shown above, an amount of $\pounds 579,786$ representing arrears of interest was written off by Act No. 1625 of 1899, making the total actually written off the liabilities of the Trusts (Irrigation and Waterworks) and Municipal Corporations, $\pounds 1,845,125$.

The State expenditure on waterworks, as shown in the above table, does not include large sums which have been spent by other controlling bodies out of their own funds. Up to 30th June, 1931, the additional capital expenditure of the bodies mentioned was as follows :—Melbourne and Metropolitan Board of Works, £7,702,410; Geelong Waterworks and Sewerage Trust, £448,612; and the Ballarat Water Commissioners, £254,691. Smaller amounts have been expended by other municipalities, details of which are not readily available.

IRRIGATION.

Progress of Irrigation.

Prior to 1905 the management of irrigation in Victoria 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, the Ballarat Water Commissioners Act 1921, and Section 5 (2) of the Closer Settlement Act 1922.

The particulars in the following statement, while not covering the whole of the activities of the State Rivers and Water Supply Commission, will furnish a general idea of the development of water conservation and distribution in Victoria under its administration :---

en de la composition d e la c omposition de la composition de la composition de la composition de la composition Composition de la composition de la comp		At 30th June, 1907.	At 30th June, 1931.
Irrigation Districts—			
Irrigation Districts-			and the second second
Number of Districts administered .		10 Nil	33
Number of Districts having Water F	lights	Nil	25 412.000 ac. ft.
Total of such Water Rights Area under Irrigated Culture	••	108.000 acres	412,000 ac. n. 463.000 acres
Valuation for Rating purposes	•••	£196,000	£787,000
Rural Waterworks Districts-			
Number of Districts administered (excluding		
Coliban)	••	3	32
Valuation for Rating purposes	••	£125,000	£1,722,000
Urban Districts—	·		
Number of Districts administered	.\$	1	75
Valuation for Rating purposes	••	£5,600	£576,000
and a faile of the second states of the second stat			

An illustration of the influence of closer settlement and the allotment of water rights in extending irrigation is contained in the following table, which shows, for the districts having water rights, most of which are directly affected by the Commission's Closer Settlement policy, the areas irrigated in 1909-10—the year in which these two factors were first put into operation—and the average areas for the last five years :—

PROGRESS OF IRRIGATION IN CLOSER SETTLEMENT AREAS.

	Area Irrigated.			
District (having allotted Water Rights).	1909–10.	Average for last Five Years.		
	acres.	acres.		
Supplied from the Goulburn—				
Shepparton		15,068		
South Shepparton		4,322		
Rodney	32,356	64,472		
Stanhope	2,000	12,870		
Tongala	3,000	20,530		
Rochester	500	46,101		
Echuca North	•••	4,953		
Dingee		4,248		
Tragowel Plains	20,000	51,033		
Supplied from the Werribee-				
Bacchus Marsh	31	2,639		
Werribee		7,541		
Supplied from the Macallister—				
Maffra (three years)		7.375		
Sale (three years)		4,011		
Supplied from the Murray-		and the second		
Leitchville	1	3,778		
Cohuna	12,000	20,237		
Gannawarra	7,825	19,986		
Koondrook	5,029	19,981		
Swan Hill	5,410	18,849		
Nyah	569	2,742		
Red Cliffs (three years)		10,466		
Merbein	202	7,458		
Third Lake		3,274		
Mystic Park		2,948		
Tresco		1,326		
Fish Point (four years)	•	1,948		
Total	88,922	358,156		
and the second second second second second				

The area under irrigated culture for all kinds of crops in 1930-31 was 463,098 acres, being 103,479 acres less than the area irrigated in the previous year, and 9,900 acres above the average of the previous five years.

Total area irrigated. The subjoined table shows the total extent of irrigated land in the State in 1909-10 and each of the last five years, and the purposes for which the land was utilized :---

Crop.	1909-10.	1926-27.	1927-28.	1928-29.	1929-30.	1930-31,
Cereals	acres. 23,715	acres. 40.655	acres. 91 538	acres.	acres.	acres.
Turner	23,713 24,124	40,655	121.540	60,880	93,803	69,694
Sorghum and other	24,124	119,721	121,040	122,441	135,111	136,502
annual fodders	8,094	29,476	60,104	41,130	59,401	29,787
Pastures	50,541	131,725	118.153	154,459	186,249	144,903
Vineyards and orchards	17,524	69,042	71.043	70,681	70,265	68,426
Fallow	4,988	9,992	6,727	11,120	12,596	6,447
Miscellaneous	785	5,921	8,395	10,984	9,152	7,339
Total	129,771	406,532	477.500	471.695	566,577	463.098

IRRIGATED AREAS: HOW UTILIZED.

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

Of the total area irrigated in 1930-31-463,098 acres—the percentages devoted to different purposes were as follows :--Pastures, 31; lucerne, 29; cereals, 15; vineyards, orchards, and gardens, 15; sorghum and other annual fodder crops, 6; fallows and miscellaneous, 4.

Gloser Settlement in Irrigation Districts. Notwithstanding that the Commission did not purchase any additional land for settlement during the year 1930-31, 37 applications from new settlers for irrigation farms were approved on farm allotments which from time to time became available. Additional areas were granted to 34

established settlers.

Applications from 77 leaseholders for transfer and 32 who desired to sub-let their farms were approved.

A statement showing the total area of irrigable land purchased and subdivided by the State, and the extent of settlement on each estate, appears on page 359 of the Year-Book for 1929-30.

Closer Settlement in irrigation areas commenced in 1909, and under the *Closer Settlement Act* 1912, administration in these areas was placed under the direct control of the State Rivers and Water

Supply Commission. At 30th June, 1931, 236,170 acres had been purchased, and 4,118 families settled, or about 17 times as many as resided thereon prior to their subdivision for Closer Settlement.

Dairying is still the main source of production in the irrigation areas, and these areas are proving most suitable for this industry. In the Standard Herd Test conducted by the Department of Agriculture there were 27 herds whose average yield per cow of butter fat exceeded 450 lb., and 9 of these were from the irrigation areas, though these areas contain only 11 per cent. of the cows in the State.

Tobacco is being profitably grown in the Goulburn Valley Irrigation district, and a great expansion in the area planted has taken place.

Following on the exceptionally heavy crops in the dried grape districts in 1929 and 1930, the yield this year, as is usual with this class of fruit after years of heavy bearing, was much lighter, being 31,000 tons as against 48,000 and 47,500 tons respectively for the two previous years. The prices obtained to date, however, together with the "exchange" benefit, have much more than compensated for the reduction in the yield.

The appointment of the Trade Commissioner in Canada and the Trade Treaty made with that country have proved very beneficial, the quantity of dried fruit exported there having increased from 776 tons in 1926 to over 9,000 tons in 1931.

The production of citrus in the irrigation areas was satisfactory, and very large crops were harvested.

In addition to waterworks for purposes of irrigation, supply of water for domestic and stock purposes are under the control of the State Rivers stock purposes, and Water Supply Commission. Altogether, the area within the State so supplied is approximately 24,232 square miles about 28 per cent. of the total area of the State. The major portion so supplied is in the Mallee and Wimmera districts.

The number of towns supplied with water, exclusive of the City of Melbourne and its suburbs, is as follows :--96 towns of a total population of 120,100 supplied by the Commission, 109 towns with a total population of 193,200 supplied by Waterworks Trusts, and 17 towns with a total population of 77,200 supplied by Local Governing Bodies.

STORAGE AND SUPPLY SCHEMES.

In 1902 the total capacity of storages in the State was in State. 172,000 acre feet. The present capacity is 1,301,520 acre feet. When the Wimmera Storages, Glenmaggie, Drysdale, and Eumemmering Reservoirs are completed, the total capacity will be

about 1,387,250 acre feet. The Hume Reservoir, in course of construction, will, unless otherwise decided by the Commonwealth and State Governments, 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. The following statement sets out the capacities of the various storages in the State :--

Goulburn System-		L'AIS.		RAGES.		Capacities Feet	in Acre
Goulburn Weir						20,700	
Waranga	••	••	••	••	••	333,400	
Eildon (200,000				•.•		306,000	
Endon (200,000	acre leet d	uring re	epair)	••	•••	300,000	660,100
Murray-Loddon S	ystem—					·	000,200
Hume Reservoi	r (part of 2	2,000,00	0 acre fe	et—half s	hare)	77,500	
Kow Swamp	••	•••	••	••	••	40,860	
Laanecoorie	•••	·	••	••	• •	14,000	
Kerang North-	west Lakes	••	••	••	· • •	92,000	
Lake Boga				• • •		28,000	
Long Lake	••					3,820	
Long Luno	••	••	••				256,180
Wimmera-Mallee	System—						
Lake Lonsdale	•••	••	••	••	• • •	45,480	
Wartook						23,800	
Fyans Lake						17,100	
Taylors Lake		•••	•••	•••		30,000	
Pine Lake (part	 	oro foo	+)	••		52,000	
Lower Wimmer	5 01 02,000 a	a016 166	t)	••	••	2,870	
Dower wimmer	a weirs		. • •	••	· • •	5,000	
Batyo Catyo (A		itor)	• •	••	••		
Lake Whitton	10 A.	••	••			1,300	
Earthen Storag	es, Townshi	p Reser	rvoirs, an	d Maliee	Tanks	5,710	183 260
Earthen Storag Maffra-Sale Syste	em	-			Tanks		183,260
Earthen Storag	em	-			Tanks	<u> </u>	183,260 104,500
Earthen Storag Maffra=Sale Syste Glenmaggie Res	em	-					
Earthen Storag Maffra-Sale Syste Glenmaggie Res Coliban System—	em	-				<u>5,710</u> 25,700	
Earthen Storag Maffra=Sale Syste Glenmaggie Res Coliban System— Upper Coliban	em	t of 150		feet)			
Earthen Storag Maffra-Sale Syste Glenmaggie Res Coliban System— Upper Coliban Malmsbury	em— servoir (par	-				25,700 12,300	
Earthen Storag Maffra=Sale Syste Glenmaggie Res Coliban System— Upper Coliban	em— servoir (par	t of 150		feet)			104,500
Earthen Storag Maffra=Sale Syste Glenmaggie Res Coliban System— Upper Coliban Malmsbury Subsidiary Rese	em— servoir (par	t of 150		feet)		25,700 12,300	
Earthen Storag Maffra=Sale Syste Glenmaggie Res Coliban System— Upper Coliban Malmsbury Subsidiary Rese Werribee—	em— servoir (par	t of 150		feet)		25,700 12,300 6,930	104,500
Earthen Storag Maffra-Sale Syste Glenmaggie Res Coliban System— Upper Coliban Malmsbury Subsidiary Rese Werribee— Pykes Creek	em— servoir (par	t of 150		feet)		25,700 12,300 6,930 21,000	104,500
Earthen Storag Maffra=Sale Syste Glenmaggie Res Coliban System— Upper Coliban Malmsbury Subsidiary Rese Werribee—	em— servoir (par	t of 150		feet)		25,700 12,300 6,930	104,500 44,930
Earthen Storag Maffra=Sale Syste Glenmaggie Res Coliban System— Upper Coliban Malmsbury Subsidiary Rese Werribee— Pykes Creek Melton	ervoir (par ervoirs ervoirs	t of 150		feet)		25,700 12,300 6,930 21,000	104,500
Earthen Storag Maffra=Sale Syste Glenmaggie Res Coliban System— Upper Coliban Malmsbury Subsidiary Rese Werribee— Pykes Creek Melton Bellarine Peninsu	em— servoir (par ervoirs ula System—	t of 150		feet)		25,700 12,300 6,930 21,000 17,000	104,500 44,930
Earthen Storag Maffra=Sale Syste Glenmaggie Res Coliban System— Upper Coliban Malmsbury Subsidiary Rese Werribee— Pykes Creek Melton Bellarine Peninsu Wurdee Boluc	em— eervoir (par ervoirs 	t of 150		feet)		25,700 12,300 6,930 21,000 17,000 10,000	104,500 44,930
Earthen Storag Maffra=Sale Syste Glenmaggie Res Coliban System— Upper Coliban Malmsbury Subsidiary Rese Werribee— Pykes Creek Melton Bellarine Peninsu	em— eervoir (par ervoirs 	t of 150		feet)		25,700 12,300 6,930 21,000 17,000	104,500 44,930 38,000
Earthen Storag Maffra=Sale Syste Glenmaggie Res Coliban System— Upper Coliban Malmsbury Subsidiary Rese Werribee— Pykes Creek Melton Bellarine Peninsa Wurdee Boluc Service Basins	em— servoir (par ervoirs ula System— 	t of 150		feet)		25,700 12,300 6,930 21,000 17,000 10,000	104,500 44,930
Earthen Storag Maffra=Sale Syste Glenmaggie Res Coliban System— Upper Coliban Malmsbury Subsidiary Rese Werribee— Pykes Creek Melton Bellarine Peninsu Wurdee Boluc Service Basins Mornington Penin	em— servoir (par ervoirs ula System— 	t of 150	9,000 acre	feet)		25,700 12,300 6,930 21,000 17,000 10,000 260	104,500 44,930 38,000
Earthen Storag Maffra=Sale Syste Glenmaggie Res Coliban System— Upper Coliban Malmsbury Subsidiary Rese Werribee— Pykes Creek Melton Bellarine Peninsu Wurdee Boluc Service Basins Mornington Penin	em— servoir (par ervoirs ula System— 	t of 150	9,000 acre	feet)		25,700 12,300 6,930 21,000 17,000 10,000 260 1,560	104,500 44,930 38,000
Earthen Storag Maffra=Sale Syste Glenmaggie Res Coliban System— Upper Coliban Malmsbury Subsidiary Rese Werribee— Pykes Creek Melton Bellarine Peninsu Wurdee Boluc Service Basins Mornington Penin Beaconsfield, F	em— servoir (part : ervoirs : ula System— : usula System rankston, a	t of 150	0,000 acre	feet)		25,700 12,300 6,930 21,000 17,000 10,000 260	104,500 44,930 38,000
Earthen Storag Maffra=Sale Syste Glenmaggie Res Coliban System— Upper Coliban Malmsbury Subsidiary Rese Werribee— Pykes Creek Melton Bellarine Peninsu Wurdee Boluc Service Basins Mornington Penin Beaconsfield, F	em— servoir (part : ervoirs : ula System— : usula System rankston, a	t of 150	0,000 acre	feet)		25,700 12,300 6,930 21,000 17,000 10,000 260 1,560 180	104,500 44,930 38,000
Earthen Storag Maffra=Sale Syste Glenmaggie Res Coliban System— Upper Coliban Malmsbury Subsidiary Rese Werribee— Pykes Creek Melton Bellarine Peninsa Wurdee Boluc Service Basins Mornington Penin Beaconsfield, F	em— servoir (part : ervoirs : ula System— : usula System rankston, a	t of 150	0,000 acre	feet)		25,700 12,300 6,930 21,000 17,000 10,000 260 1,560	104,500 44,930 38,000
Earthen Storag Maffra=Sale Syste Glenmaggie Res Oliban System— Upper Coliban Malmsbury Subsidiary Rese Werribee— Pykes Creek Melton Bellarine Peninsu Wurdee Boluc Service Basins Mornington Penin Beaconsfield, F Service Basins Eumemmerring	em— servoir (part : ervoirs : ula System— : usula System rankston, a	t of 150	0,000 acre	feet)		25,700 12,300 6,930 21,000 17,000 10,000 260 1,560 180	104,500 44,930 38,000 10,260
Earthen Storag Maffra=Sale Syste Glenmaggie Res Coliban System— Upper Coliban Malmsbury Subsidiary Rese Werribee— Pykes Creek Melton Bellarine Peninsu Wurdee Boluc Service Basins Mornington Penin Beaconsfield, F Service Basins Eumemmerring Miscellaneous—	em— servoir (part : ervoirs : ula System— : usula System rankston, a	t of 150	0,000 acre	feet)		25,700 12,300 6,930 21,000 17,000 10,000 260 1,560 180	104,500 44,930 38,000 10,260 2,740
Earthen Storag Maffra=Sale Syste Glenmaggie Res Oliban System— Upper Coliban Malmsbury Subsidiary Rese Werribee— Pykes Creek Melton Bellarine Peninsu Wurdee Boluc Service Basins Mornington Penin Beaconsfield, F Service Basins Eumemmerring	em— servoir (part : ervoirs : ula System— : usula System rankston, a	t of 150	0,000 acre	feet)		25,700 12,300 6,930 21,000 17,000 10,000 260 1,560 180	104,500 44,930 38,000 10,260

Additional Storage being Provided by Works in Course of Construction.

. OF CONSTRUCTION. Wimmera-Mallee System—	Capacities in Feet.	Acre
Lake Lonsdale Enlargement	7,810 10,000 20,000	37,810
Maffra-Sale System— Glenmaggie Reservoir (balance of 150,000 acre feet)	••	45,500
Bellarine Peninsula System— Drysdale Service Basin		320
Mornington Peninsula System— Eumemmerring Reservoir (first stage—balance of 3,100 acre	e feet)	2,100
Murray System Hume Reservoir, at junction with Mitta River, half-sh balance of 2,000,000 acre feet		22,500
Total capacity of storages when works in hand ar ploted		809,750

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).

Mildura Irrigation Settlement. The Mildura Irrigation Settlement, on the River Murray was established in 1887 under the management of the Chaffey Brothers Limited, and in 1895 the control of the water supply was vested in the First Mildura Irrigation Trust. Water is obtained by pumping from the river. The extent of watering done represented 42,134 acres in 1926-27, 48,536 acres in 1927-28, 52,726 acres in 1928-29, 51,780 acres in 1929-30 and 47,418 acres in 1930-31.

RECEIPTS AND PAYMENTS OF FIRST MILDURA IRRIGATION TRUST, 1930-31.

Receipts. £	Payments. £
Horticultural Rates 44,887	Wages and Salaries 15,798
Special Waterings, &c 1,136	Firewood 7,514
Miscellaneous 3,917	Interest, Sinking Fund and Depreciation 2,753
and the second second second second	Miscellaneous 6,036
Total 49,940	Total 32,101

METEOROLOGY.

Particulars in regard to climate and weather conditions Records. have been furnished by the Commonwealth Meteorologist, and are given in the following tables. In the first are shown the rainfall for each of the years 1928, 1929, and 1930, and the average yearly amount of rainfall deduced from all available records to December, 1930, in each of the 26 river basins or districts constituting the State of Victoria :—

RAINFALL.-YEARLY RECORDS AND AVERAGES.

	Rainfall.					
Basin or District,	D	uring the Ye	ı r —	Yearly		
No. 19	1928.	1929.	1930.	Average to December, 1930.		
	Inches.	Inches.	Inches.	Inches.		
Glenelg and Wannon Rivers	29.86	26,89	28.65	26.40		
Fitzroy, Eumeralla, and Merri Rivers	28.10	30.80	28.53	28.09		
Hopkins River and Mt. Emu Creek.	28.53	26.25	28.79	24.95		
Mt. Elephant and Lake Corangamite	28.17	25.25	27.48	25.78		
Cape Otway Forest	42.28	45.84	38.14	39.32		
Moorabool and Barwon Rivers	25.92	23, 95	25.90	23.90		
Werribee and Maribyrnong Rivers	24.77	23.55	26.21	23.37		
Yarra River and Dandenong Creek	33.71	39.56	37.20	33.99		
Koo-wee-rup Swamp	34.18	37.80	33.78	35.73		
South Gippsland	41.66	38, 35	36.98	38.78		
Latrobe and Thomson Rivers	40.68	39.73	39.67	38.24		
Macallister and Avon Rivers	24.64	20.80	27.76	24.34		
Mitchell River	29.29	21.11	28.49	26.00		
Tambo and Nicholson Rivers	27.80	22.76	30.42	27.43		
Snowy River	35.79	31.95	31.74	34.32		
Murray River	20.88	14.62	18.45	16.79		
Mitta Mitta and Kiewa Rivers	33.45	25.56	31.03	33.18		
Ovens River	37.98	27.75	34.70	33.44		
Goulburn River	29.62	22.25	27.24	26.22		
Campaspe River	27.56	18.76	26.64	22.82		
Loddon River	23.98	15.35	22.30	20.04		
Avoca River	18.92	11.13	20.45	16.96		
Avon and Richardson Rivers	16.73	10.63	18.64	15.33		
Eastern Wimmera	21.71	18.72	23.33	21.24		
Western Wimmera	20.09	17.97	21.74	19.85		
Mallee	12.79	8.23	15.48	12.54		
Weighted Averages	26.04	21.80	25.78	24.15		

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 it averages 12.54 inches per annum, as compared with 24.15 inches for the whole State.

An estimate of the areas of the State, in square miles, subject to different degrees of rainfall was first made in 1910. More comprehensive data has since become available, and in 1925 the Commonwealth Meteorologist issued the following revised figures :--

	Rainf	.11.				Area.	
Inches.		••••••••••••••••••••••••••••••••••••••			8	quare Miles	
Under 15		••	••	••		19,270	
15 to 20			· · ·	••		13,492	
20 to 25				••		14,170	
25 to 30		• •	••	• •		15,579	
30 to 40	••• ••		• •		1	14,450	
40 to 50			••	••	1.	7,338	
50 to 60	•••		••			2,980	
Over 60	•••	•. •	• •			605	

DISTRIBUTION OF AVERAGE RAINFALL.

RAINFALL-QUARTERLY RECORDS AND AVERAGES.

		irst rter.		cond irter.		hird arter.		urth arter.
Basin or District.	Amount.	Average.	Amount.	Average.	Amount.	Average.	Amount.	A verage.
Glenelg and Wannon Rivers Fitzroy, Eumeralla, and Merri Rivers Hopkins River and Mt. Emu Creek Mt. Elephant and Lake Corangamite Cape Otway Forest	inches. 3 18 3 18 3 298 2 98 3 02 3 58 3 42 3 02 3 58 3 42 3 07 3 45 5 8 43 3 37 1 03 1 77 1 14 1 91 2 06 2 41 1 581 1 44 1 581 1 44 1 581 1 44 1 581 1 44 1 582 1 44 1 582 1 44 1 582 1 44 1 582 1 588 1 5888 1 5888 1 5888 1 5888 1 5888 1 5888 1 5888 1 5888 1	inches. 3.63 4.227 4.58 5.94 4.58 5.95 14 6.98 6.80 7.23 6.85 6.80 7.23 6.85 6.97 8.03 5.45 4.69 8.03 5.469 4.69 8.025 4.69 8.03 5.469 4.69 8.025 4.69 8.025 4.69 8.025 4.69 8.025 4.69 8.025 4.69 8.025 4.69 8.025 4.69 8.025 4.69 8.025 4.69 8.025 4.69 8.025 4.69 8.025 4.69 8.025 4.69 8.025 4.69 8.025 4.69 8.025 4.69 8.025 5.514 6.69 7.823 6.69 7.825 6.69 7.80 8.025 5.55 4.69 8.025 5.55 4.69 8.025 5.55 4.69 8.025 5.55 4.69 8.025 5.55 4.69 8.025 5.55 4.69 8.025 5.55 4.69 8.025 5.55 4.69 8.025 5.55 5.460 8.55 5.55 5.299 9.225 2.226 6.655 2.999 2.226 6.655 2.995 2.226 6.655 2.9555 2.9555 2.9555 2.9555 2.9555 2.9555 2.9555 2.9555	inches. 3 · 85 4 · 94 5 · 54 5 · 53 7 · 75 6 · 21 6 · 44 9 · 08 8 · 30 10 · 25 9 · 44 8 · 90 10 · 25 9 · 04 8 · 50 8 · 54 8 · 30 10 · 25 9 · 04 8 · 50 8 · 54 8 · 30 10 · 25 9 · 04 8 · 30 10 · 25 9 · 04 8 · 50 8 · 50	$\begin{array}{c} 7.81\\ 8.18\\ 7.05\\ 7.01\\ 11.61\\ 6.41\\ 5.95\\ 8.68\\ 9.76\\ 10.72\\ 9.78\\ 5.49\\ 5.90\\ 6.52\\ 8.96\\ 4.84\\ 8.88\end{array}$	112-05 112-05 11-67 9-81 9-96 7-09 5-60 8-91 9-42 8-77 10-59 5-26 5-12 5-52 4-30 8-91 10-23 8-91 10-23 8-65 8-80 8-65 8-80 8-47 9-8-65 8-49 8-49	6.64 6.61 8.91 4.77 10.29 10.78 7.88 6.93 6.11 5.31	inches. 9·57 8·80 10·59 9·06 12·85 10·59 15·73 12·64 14·89 15·73 12·64 12·88 12·29 10·09 12·95 16·46 12·52 12·73 9·98 10·06 12·89 12·95 16·46 12·89 12·95 16·40 12·52 12·73 9·98 10·06 9·94 8·72 9·06	$\begin{array}{c} \text{inchess}\\ 5\cdot 94\\ 6\cdot 23\\ 5\cdot 92\\ 6\cdot 20\\ 8\cdot 61\\ 5\cdot 99\\ 6\cdot 08\\ 9\cdot 21\\ 9\cdot 20\\ 9\cdot 08\\ 10\cdot 20\\ 6\cdot 61\\ 6\cdot 81\\ 7\cdot 38\\ 8\cdot 42\\ 3\cdot 93\\ 7\cdot 98\\ 6\cdot 19\\ 4\cdot 97\\ 4\cdot 47\\ 8\cdot 71\\ 8\cdot 40\\ 4\cdot 77\\ 4\cdot 33\\ 8\cdot 04\\ 4\cdot 77\\ 4\cdot 33\\ 8\cdot 01\\ 8\cdot 92\\ 5\cdot 10\\ 8\cdot 10\\ 8\cdot 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\ 10\\$
The whole State	2.19	4 41	5.25	6.73	7.31	7.27	11.03	

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	29.970	29.922	30.080	30.077
Monthly range of pressure of air—Inches	0.891	0.765	0.817	0.975
Mean temperature of air in shade-°Fahr.	57.7	66.6	59•3	50.0
Mean daily range of temperature of air in				
shade—°Fahr.	18.6	21.1	17.3	13.9
Mean relative humidity. Saturation=100	66	60	69	75
Mean rainfall in inches	7.23	5.96	6.55	5.75
Mean number of days of rain	38	24	34	42
Mean amount of spontaneous evaporation				
in inches \dots \dots \dots \dots \dots \dots	10.28	17.34	7.91	3.67
Mean daily amount of cloudiness-Scale				
0 to 10	6.0	5.2	5.9	6.4
Mean number of days of fog	1	1	6	12

In the subjoined statement are shown the yearly averages of the climatic elements in Melbourne for 1930 and for the last 75 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.

	Yearly Averages and Extremes.					
Meteorological Elements.	Year 1930.	Average for	Extremes between which the Yearly Average Values have oscillated in 75 years.			
		75 Years.	Highest.	Lowest.		
Mean atmospheric pressure (inches)	30.064	30.012	30.106	29.945		
Highest ,, ,, ,,	30.705	30.602	30.770	30.488		
Lowest ,, ,, ,,	29.322	29.250	29.495	28.942		
Range (inches)	1.383	1.358	1.719	1.104		
Mean temperature of air in shade						
(°Fahr.)	59.5	58•4	59.9	57.3		
Mean daily maximum (°Fahr.)	68 • 7	67.3	69.0	65•4		
Mean daily minimum "	50.3	49.6	51.2	47.2		
Absolute maximum,	103.5	105.0	111.2	96•6		
Absolute minimum "	33.8	30•9	34.2	27.0		
Mean daily range ,,	18.4	17.7	20.4	15.0		
Absolute annual range "	69.7	74•1	82.6	66.0		
Solar Radiation (mean maxima) "	116.4	117.7	127.6	106.0		
Terrestrial Radiation (mean						
minima) (°Fahr.)	45.1	43.9	46.8	39.5		
Rainfall (in inches)	25.41	25.49	38.04	15.61		
Number of wet days	145	138	171	102		
Year's amount of free evaporation (in						
inches)	40.72	39.20	45.66	31.59		
Percentage of humidity (saturation			1			
=100)	64	68	76	61		
Cloudiness (scale $10 = overcast, 0 =$				l de Tra		
clear)	5.8	5.9	6.4	4.8		
Number of days of fog	15	20	48	5		

AGRICULTURAL RESEARCH AND EDUCATION.

Department of 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 Agricultural, Pastoral, Fruit and Dairying Industries of the State, and in giving instructions to those engaged therein. The Department publishes a monthly journal.

Melbourne University has a well-equipped School of Agriculture, for the maintenance of which a special grant is provided by the State. This School affords opportunity for the training of students in science as applied to practical agriculture and kindred industries. 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. The remaining two years are devoted to a more specialized study of agriculture and allied subjects on a scientific basis.

Government Experimental Farms. Agricultural College, and at the School of Primary Agriculture, Burnley. In addition, there are experiments and demonstrations conducted on 43 selected farms throughout the State.

At the State Research Farm, Werribee, the main work is the improvement of wheat and other cereals, grasses, clovers and various economic plants, investigations into the methods and problems relating to irrigated agriculture, and the breeding and feeding of dairy cattle, horses, sheep and poultry.

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. At the substation at Longerenong experiments are conducted on wheat and oat cultivation for Wimmera conditions. At the School of Primary Agriculture, Burnley, a Plant Research Laboratory mainly devoted to plant pathological and entomological research has been established. Extension research work on the breeding and selection of grasses and clovers is also carried on.

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

The pasture experiments are largely responsible for recent rapid advances made in pasture improvement throughout Victoria, in which approximately 1,000,000 acres are now annually topdressed with an estimated increase of approximately 50 per cent. in carrying capacity.

Experimental Farms and Agricultural Colleges.

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

Particulars.	Central Research Farm, Werribee.	Ruther- glen Farm, &c.	Dookie Agri- cultural College.	Longer- enong Agri- cultural College.	Burnley School of Primary Agricul- ture, &c.
Area under crop Other arable land Balance of area	. 1,320	acres. 410 613 330	acres. 991 1,170 3,794	acres. 1,287 816 283	acres. 13 14 6
Total area of farm		1,353	5,955	2,386	33
Value of produce for year	£ 9,641	£ 2,189	£ 8,000	£ 3,975	£ 578
Receipts	12,036	4,350	·•• •		2,500
Grant	9,620	574 2,329	7,266 11,619	5,048 5,634	1,110
Total receipts	. 21,656	7,253	18,885	10,682	3,610
Total expenditure	. 11,284	7,253	18,885	10,682	3,517
Number of students	. 7	7	86	51	85

GOVERNMENT EXPERIMENTAL FARMS AND AGRICULTURAL COLLEGES, 1930.

Inspection of Orchards. Nurseries, &c.

The orchards, nurseries, and gardens of the State are systematically inspected by the officers of the Horticultural Division of the Department of Agriculture. Nurseries are inspected periodically, and action is taken in accordance with the

condition of the plants in relation to disease or freedom therefrom. Old, worn-out, and infected orchards are destroyed.

The fear of introducing the fruit-flies and diseases arising from other causes has necessitated a thorough examination of fruit from Queensland, New South Wales, and elsewhere.

Plants and cuttings coming from foreign parts are subject to strict examination and to fumigation where it is considered necessary.

Forestry. The State forests are controlled by a Commission of three, which was first appointed in 1919. The State has a wooded area of about 14,000,000 acres, of which 4,678,063 acres are set aside as permanent State forests and timber reserves.

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.

The Forestry Fund was established in 1918 by Act No. 2976, and made applicable only to expenditure on the improvements and reforestation of State forests and the development of forestry. In each year the Treasurer makes a grant of £40,000 out of the Consolidated Revenue to the Fund, and also 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 1930-31 was £74,583, and the expenditure was £267,055—£125,466 of which was paid out of the Unemployment Relief Fund, £74,682 out of the Consolidated Revenue, £28,104 under the Forests Loan Act No. 3386, and the balance—£38,803—from the Forestry Fund. The balance at the credit of the Fund at 30th June, 1931, was £19,840.

It is estimated that the quantity of timber produced in the rough, from Crown Lands, in 1930-31 was 3,748,189 cubic feet. In addition, 186,667 tons measurement (9,333,350 cubic feet) of fuel timber was produced.

Particulars of sawn timber and firewood, from all sources, will be found on pages 387 and 388 of this volume. Agriculture expenditure and revenue connected with. Connocidated revenue by the responsible departments in connexion with these industries, and the amount of revenue received by them, during the last five years, are summarized in the appended table :—

EXPENDITURE AND REVENUE CONNECTED WITH AGRICULTURE, 1926-27 to 1930-31.

· · · · · · · · · · · · · · · · · · ·	1			1	1
· · · · · · · · · · · · · · · · · · ·	1926-27.	1927-28.	1928-29.	1929-30.	1930-31.
Expenditure.	£	£	£	£	£
Administrative Branch	14.620	13.770	13.142	13,338	13,125
Agricultural Branch	31.270	38.018	36,330	37,400	33.327
Horticultural Branch	32,984	31,763	31,740	29,655	24,453
Stock and Dairy Branch	85,853	89,077	99,232	103,924	83,899
Magan D. & Carrier D (55.891	89,941	73.288	90,553	135,650
Technical Agricultural and Viti-	00,091	00,011	10,200	30,000	100,000
cultural Education, &c.	29,418	27,294	27.009	27.134	21,282
Development of Export Trade	60,875	60,946	62.625	56.425	53.996
Rabbit and Vermin Extermina-	.00,070	00,340	02,020	50,420	00,900
tion	91,929	85,200	81,377	71,277	57,168
Advances to Settlers for losses	31,843	85,200	01,077	11,211	51,100
by bush fires, floods, &c	32,987	21,150	14,004	5,241	3,918
Grants to Agricultural and	52,001	21,100	14,004	0,241	0,910
Horticultural Societies, &c	675	675	675	500	
Miscellaneous	12,355	488	2,222	498	195
miscellanteous	14,000	400	4,444	490	195
T otal	448,857	458,322	441,644	435,945	427,013
Revenue.					
Madra Daot Same Tasta	70 X95	FO 000	04 109	01 604	100 000
Maffra Beet Sugar Factory	79,435	58,900	84,183	81,694	138,929
Victoria Dock Cool Stores	32,455	28,205	52,558	34,486	45,382
Interest on and Repayment of Loans	10.000	17 004	00.007	10 700	07 000
	19,229	15,334	22,087	13,763	27,809
All Other	52,985	50,432	58,908	54,478	59,015
Total	184,104	152,871	217,736	184.421	271,135

In addition to the expenditure shown, various sums have been advanced from loans and votes for the purpose of aiding closer settlement, for the resumption of mallee lands, for relief to farmers on account of bush fires and flood losses, and for purchase of seed wheat and fodder. These advances are gradually being repaid.

The expenditure from Loan Funds in 1930-31 was £1,389,439-£296,088 having been expended on discharged soldiers' land settlement, £812,755 on closer settlement, £41,182 on wire netting, and £239,414 on cultivation advances.

AGRICULTURE.

All divisions of the State are suitable for cultivation. Progress of cuttivation. The area cultivated in 1930-31 was 9,306,289 acres, as compared with an annual average of 7,616,031 acres for the previous five seasons, 5,032,359 acres for the seasons 1905-15, and 3,547,111 acres for the seasons 1895-1905. At the beginning of the 1930-31 season, an appeal was made, by the Prime Minister of the Commonwealth and the Premiers of the various States, to farmers to substantially increase Victorian wheat-growers responded to the appeal by the area sown. sowing over 1,000,000 acres more than in the previous season. Notwithstanding the great increase in the area cultivated, the dairying and pastoral industries show a considerable expansion. This is evidenced by a comparison of the exports of the principal products to oversea countries in the year 1900 with the annual average in the last five seasons. The values have risen as follows :--Butter and cheese from £1,252,277 to £2,787,973; milk and cream from £5,455 to £1,046.975; and meats from £502,285 to £1,607,055.

The following table shows the progress of cultivation from period to period during the last 76 years :---

	1				Annual Average.	
Period of	r Ye	ar (ended M	arch).		1	
				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				2,109,326	364,282	2,473,608
1895-1905		••		3.022.914	524,197	3,547,111
1905-15		••		3.756.211	1,276,148	5,032,359
1915-25				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
1928				4,942,258	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
	1		1.1		1	

ACREAGE CULTIVATED ANNUALLY, 1855 TO 1931.

Principal Gross (Area, Production, and Average Yield). The principal crops grown in the State are wheat, oats, barley, potatoes, and hay. The following tables contain particulars of the average annual area, production, and yield per acre for periods from 1855 to 1925, and for each of the last six seasons :---

ACREAGE, PRODUCTION, AND AVERAGE YIELD OF FIVE PRINCIPAL CROPS, 1855 TO 1931.

(ended March).	Wheat.*	Oats.*	Barley.	Potatoes.	Hay.
	· · · · · · · · · · · · · · · · · · ·				
an geologija		AVERA	GE ANNUAL	AREA.	
and the second		· · · ·	acres.	acres.	acres.
	acres.	acres.			
855-65	119,001	83,296	4,843	24,123	80,117
865-75	278,077	129,384	19,262	36,744	117,393
	776,031	147,343	41,188	39,089	226,775
885-95	1,236,501	210,901	64,310	48,009	437,087
. 895–1905	1,898,280	340,957	52,829	45,243	540,472
905-15	2,190,336	390,642	60,378	56,272	848,587
915–25	2,633,945	428,372	84,205	61,195	1,122,978
926	2,513,494	437,696	103,395	63,369	1,013,613
	2,915,315	303,424	88,896	66,185	1,080,993
.928	3,064,172	529,392	76,768	77,649	908,804
929	3,718,904	347,021	75,451	68,412	1,005,063
	3,566,135	630,234	97,678	58,789	865,015
	4,600,200	371,024	87,518	67,590	1,277,398
		AVERAGE 2	ANNUAL PROL	UCTION.	
	bushels.	bushels.	bushels.	tons.	tons.
855-65	2,198,874	2,068,648	103,575	62,723	111,806
865-75	4,385,814	2,636,747	390,337	111,800	153,852
875-85	8.593.308	3.297.468	799,938	135,614	276,771
885-95	12,268,905	4,649,393	1,187,007	170,905	547,092
895-1905	14,032,145	6,649,453	947,580	134,357	672,982
905-15	22,906,743	7,342,468	1,243,442	158,445	1,084,726
915-25	39,171,358	7,965,864	1,923,654	169,864	1,511,298
926	29,255,534	4,998,165	1,774,963	160,729	929,068
927	46,886,020	4,884,006	1,920,722	162,909	1,387,971
928	26,160,814	4,682,724	1,552,109	230,348	1,001,251
929	46,818,833	5,602,409	1,556,118	140,158	1,267,437
930	25,412,587	5,058,541	2,183,325	171,747	963,089
931	53,814,369	6,893,827	1,983,130	173,341	1,605,900
and see	· · · ·	AVERAGE AN	NUAL YIELD	PER ACRE.	
an a	bushels.	busheis.	bushels.	tons.	tons.
855-65	18.48	24.83	21.39	2.60	1.40
865-75	15.77	20.38	20.27	3.04	1•31
875-85	11.07	22.38	19•42	3•47	1.22
885-95	9.92	22.05	18•46	3.56	1.21
895-1905	7.39	19.50	17.94	2.97	1.25
905-15	10.46	18.79	20.59	2.82	1.28
915-25	14.87	18.60	22.84	2.78	1.35
926	11.64	11.42	17.17	2.54	0.92
927	16.08	16.10	21.61	2.46	1.29
928	8.54	8.85	20.22	2.97	1.10
929	12.59	16.14	20.62	2.05	1.26
930	7.13	8.03	22.35	2.92	1.11
931	11.70	18.58	22.66	2.56	1.26

* For grain.

Principal crops compared with of population are given in the next table for each of the pepulation. last five years :--

AREA AND PRODUCTION OF FIVE PRINCIPAL CROPS PER HEAD OF POPULATION, 1926-27 to 1930-31.

	Wheat.	Oats.	Barley.	Potatoes.	Hay.
Year ended March-	· · ·		1		<u> </u>
		Area per	Head of Pop	ulation.	
			<u>}</u>		
	acres.	acres.	acres.	acres.	acres.
1927	1.70	·18	•05	•04	•63
1928	1.76	• 30	·04	•04	•52
1929	2.11	•20	·04	•04	•57
1930	2.01	•35	•05	·03	•49
1931	2.59	•21	·05	•04	•72
		Produce p	er Head of Po	opulation.	
					· · · · · · · · · · · · · · · · · · ·
	bushels.	bushels.	bushels.	tons.	tons.
	27.39	2 85	1.12	•10	•81
.928	15.02	2.69	89	•13	•57
929	26.59	3.18	88	·08	•72
930	14.30	2.85	$1 \cdot 23$	•10	•54
	-	i			

Except in the three seasons 1895-96, 1902-03, and 1914-15, the wheat produced during each year since 1870 has been more than sufficient to supply home consumption.

Values of The following table gives the annual value of each of ave principal the five principal crops, based upon prices realized upon forops. farms, also the value of each crop per acre for each of the last five years :---

Year ended March—			Annual Value of—								
		Wheat.	Oats.	Barley.	Potatoes.	flay.					
		£	£	£	£	£					
••		9,546,812	653,2 9 1	295,739	671,673	4,719,925					
••		4,724,369	688,804	297,327	388,537	3,683,27 2					
••	••	8,364,675	627,521	222,504	1,189,349	3,502,862					
••	••	3,559,063	554,547	300,202	691,273	2,998,282					
••	••	3,600,190	340,673	154,853	328,305	2,369,865					
	•••	··· ·· ·· ··	£ 9,546,812 4,724,369 8,364,675 3,559,06 3	£ £ 9,546,812 653,291 4,724,369 688,804 8,364,675 627,521 3,559,063 554,547	£ £ £ 9,546,812 653,291 295,739 4,724,369 688,804 297,327 8,364,675 627,521 222,504 3,559,063 554,547 300,202	£ £ £ £ 9,546,812 653,291 295,739 671,673 4,724,369 688,804 297,327 388,537 8,364,675 627,521 222,504 1,189,349 3,559,063 554,547 300,202 691,273					

VALUES OF FIVE PRINCIPAL CROPS.

Annual Value Per Acre of-

	W	heat	t)ats		в	arle	y	Po	tatoe	8.]	Hay.	,
	£	8.	d.	£	<i>s</i> .	<i>d</i> .	£	8.	d.	£	8.	d.	£	8.	d.
	3	5	6	2	3	1	3	6	6	10	3	0	4	7	4
	1	10	10	1	6	0	3	17	6	5	0	1	4	1	1
	2	5	0	1	16	2	2	19	0	17	7	8	3	9	8
	1	0	0	0	17	7	3	1	6	11	15	2	3	9	4
•	0	15	8	0	18	4	1	15	5	4	17	2	1	17	1
	••	£ 1 2 1	£ s. 3 5 1 10 2 5 1 0	3 5 6 1 10 10 2 5 0 1 0 0	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	£ s. d. £ s. 3 5 6 2 3 1 10 10 1 6 2 5 0 1 16 1 0 0 0 17	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						

The value of the five principal crops was $\pounds 6,793,886$ in 1930-31, as against $\pounds 8,103,367$ in 1929-30, $\pounds 13,906,911$ in 1928-29, $\pounds 9,782,309$ in 1927-28, and $\pounds 15,887,440$ in 1926-27.

Wheat growing in counties. Mallee, and Northern districts. 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 production of wheat for grain in different counties for each of the last three seasons is shown in the following table :---

WHEAT YIELDS IN COUNTIES FOR THE LAST THREE SEASONS.

			•	Year end	ed March.	,			
Districts and Countles.		Area.			Produce	•	Avera	ige per	Acre.
	1929.	1930.	1931.	1929.	1930.	1931.	1929.	1930.	1931.
Central-	acres.	acres.	acres.	bushels.	bushels.	bushels.	bush.	bush.	bush.
Bourke Grant Mornington Evelyn	17,569 28,473 9,796 484	19,142 27,679 5,696 277	20,597 33,747 7,224 192		661,521	597,817 120,773	11.74	$23 \cdot 90 \\ 23 \cdot 19$	$17 \cdot 71 \\ 16 \cdot 72$
Total	56,32 2	52,794	61,760	769,740	1,264,582	1,033,406	18 67	2 3 · 9 5	16.73
North-Central—									
Anglesey Dalhousie Talbot	1,233 2,778 24,497	1,187 2,626 24,713		44,360	51,658	37,552	15.97	19.67	15:65
Total	28,508	28,526	35,473	597,746	497,589	733,103	20 • 97	17.44	20:67
Western— Grenville Polwarth	14,393 192	17,330 427	21,704 434		$ \begin{array}{r} 437,147 \\ 12,792 \end{array} $	404,672	$15.46 \\ 20.08$	25 · 22 29 · 96	18.65 16.99
Heytesbury Hampden Ripon	129 15,208 35,315	47	13 23,624 52,240	2,882 304,866	1,089 492,035	98 497,173	22 · 34 20 · 05	$23 \cdot 17 \\ 27 \cdot 24$	7.54 21.05
Villiers Normanby Dundas	2,286 1,689 3,227	2,502 1,769 4,322	3,116 3,196 6,819	47,695 34,227 62,232	63,647 38,393 88,917	53,734 42,998 103,475	20.86 20.26	25·44 21·70 20·57	$17 \cdot 24 \\ 13 \cdot 46 \\ 15 \cdot 17$
Total	456 72,895		679 111,825		4,060 2,502,973		`		
10041	72,895	88,376		1,544,220	2,902,975	2,330,087	21 10	20 32	20 91
17 ¹								с ¹ 2,	
Wimmera Lowan Borung Kara Kara	244,527 535,993 169,932	225,450 458,327 159,996	661,666	9,733,168	4,117,933 3,312,575 951,862	9,090,659	18.16	7.23	$19 \cdot 16 \\ 13 \cdot 74 \\ 10 \cdot 35$
Total	950,452	843,773	1,164,527	17,663,768	8,382,370	16,664,270	18.58	9.93	14.31
					···.				
Mallee— Millewa Weeah Karkarooc Tatchera	182,497 229,109 848,101 532,496	222,320 240,707 870,597 494,448	268,975 298,159 1,117,592 672,561	626,812 1,893,443 6,608,066 4,706,895	5,460 598,709 1,963,605 1,136,326	2,975,594 3,012,842 9,006,939 5,236,513	3 • 43 8 • 26 7 • 79 8 • 84	2.49	11 ·06 10 ·10 8 ·06 7 · 79
Total	1,792,203	1,828,072	2,357,287	13,835,216	3,704,100	20,231,888	7.72	2.03	8.58

WHEAT YIELDS IN COUNTIES FOR THE LAST THREE

SEASONS-continued.

				Year end	ed March.				
Districts and Counties.		Area.			Produce.		Avera	ge per	Acre.
····	1929.	1930.	1931.	1929.	1930.	1931.	1929.	1930.	1931.
Northern— Gunbower Gladstone Bendigo Rodney Moira	acres. 50,859 151,151 160,727 98,644 282,211	acres. 38,569 128,972 143,679 89,706 257,234		2,303,107 2,516,889 1,643,880	722,520 1,216,389 1,170,328	2,626,574 2,556,167 1,629,794	9.84 15.24 15.66 16.66	5.60 8.47 13.05	$7 \cdot 74$ 13 · 94 15 · 30 15 · 69
Total	743,592	658,160	7 92, 3 57	11,130,598	7,544,080	11,297,301	<u>14 · 97</u>	11.46	14.26
North-Eastern— Delatite Bogong Fenambra Wonnangatta	9,091 37,698 281 11	32,846 300	9,797 88,270 279	630,317	732,952	181,746 806,875 4,582	16.72	$22 \cdot 31 \\ 25 \cdot 35$	21.08
Total	47,081	41,133	48,346	772,580	931,656	993,203	16.41	22 . 65	20.54
Gippsland— Croajingolong Tambo Dargo Tanjil Buln Buln	5 493 1,562 21,109 4,682	312 1,324 21,191	1,731 23,677	8,533 30,391 380,310	323 9,464 39,068 488,018 48,364	7,534 35,769 431,677	$17 \cdot 31 \\ 19 \cdot 46 \\ 18 \cdot 02$	23.03	$14.03 \\ 20.66 \\ 18.23$
Total	27,851	25,301	28,625	504,965	585,237	523,111	18.13	23·13	18·27
Total (State)	3,718,904	3,566,135	4,600,200	46,818,833	25,412,587	53,814,369	12.59	7.13	11.70

The production of wheat in the other Australian States in 1930-31 was as follows:—New South Wales, 65,811,000 bushels; South Australia, 34,871,526 bushels; Western Australia, 52,891,492 bushels; Queensland, 4,755,282 bushels; and Tasmania, 455,000 bushels. The total production for the Commonwealth was 212,628,669 bushels.

Classification of Wheat Areas and Production. districts of the State. States Detailed particulars may be obtained on application to the Government Statist. Summarized classifications are shown in the following tables :--

District.	Under 3 bushels.	3 and under 6 bushels.	6 and under 9 bushels.	9 and unde r 12 bushels.	12 and under 15 bushels.	15 and under 18 bushels.	18 and under 21 bushels.	21 and under 27 bushels.	27 and under 33 bushels.	33 bushels and over.	Total.	Average District Yield.
Central { acres per cent,	973 1.57	$1,060 \\ 1 \cdot 72$	2,470 4·00	5,568 9.01	8,864 14·35				4,299 6 96	455 •74	acres. 61,760	bushels. 16·73
North-Central { acres { per cent.	166 •47	319 •90	$829 \\ 2 \cdot 34$	$\substack{1,037\\2&92}$	$1,487 \\ 4 \cdot 19$	4,653 13·12		13,682 38.57	6,536 18·43	$rac{757}{2\cdot 13}$	35,473	20.67
Western { acres per cent.	849 •76	$1,811 \\ 1 \cdot 62$	$2,142 \\ 1 \cdot 92$	4,496 4·02	6,897 6 17	$12,196 \\ 10.91$	$15,726 \\ 14.06$	$40,874 \\ 36.55$	$\begin{array}{c} \textbf{23,194} \\ \textbf{20.74} \end{array}$	3,640 3 · 25	111,825	20.91
Wimmera $\dots \left\{ \begin{array}{l} \operatorname{acres} \\ \operatorname{per cent.} \end{array} \right.$	48,898 4·20	$71,930 \\ 6.18$	$141,598 \\ 12 \cdot 16$		$168,009 \\ 14 \cdot 43$		$137,795 \\ 11 \cdot 83$		54,610 4 · 69	$2,\!560 \\ \cdot 22$	1,164,527	14.31
$ \begin{array}{ll} \text{Mallee} & \dots \left\{ \begin{array}{l} \text{acres} \\ \text{per cent.} \end{array} \right. \end{array} $	$135,523 \\ 5 \cdot 75$	$394,979 \\ 16.76$	657,075 $27\cdot88$		$387,899 \\ 16 \cdot 46$			6,929 · 29	958 •04	$\begin{array}{c} 20\\ \cdot 00 \end{array}$	2,357,287	8.58
Northern $\dots \begin{cases} acres \\ per cent. \end{cases}$	6,819 •86				$141,260 \\ 17.83$		$123,515 \\ 15.59$	$104,758 \\ 13 \cdot 22$	$17,921 \\ 2 \cdot 26$	$1,851$ $\cdot 23$	792,357	14.26
North-Eastern $\begin{cases} acres \\ per cent. \end{cases}$	118 ·24	220 • 46	394 •82	$1,301 \\ 2 \cdot 69$	3,220 6 · 66		11,260 $23 \cdot 29$	$18,042 \\ 37 \cdot 32$	$6,097 \\ 12 \cdot 61$	$\begin{array}{c} 1,645\\ 3 \ 40\end{array}$	48,346	20.54
$\begin{array}{llllllllllllllllllllllllllllllllllll$	715 2 · 50	449 1 · 57			$3,968 \\ 13.86$	$4,491 \\ 15.69$	$5,311 \\ 18.55$	7,273 $25 \cdot 41$	$3,181 \\ 11 \cdot 11$	428 1∙50	28,625	18.27
State {acres per cent.	194,061 4·22	509,784 11.08	884,265 19·22					$426,846 \\ 9 \cdot 28$	$116,796 \\ 2.54$	$11,356 \\ \cdot 25$	4,600,200 100.00	11.70
number of growers	549	1,394	2,562	3,003	2,830	2,743	2,358	3,021	1,004	158	19,622	••
Percentage of Total Pro- duction	· 63	4 ·20	11.60	15.97	16.80	14.40	11 · 83	17.81	6.03	•73	100.00	••

CLASSIFICATION OF VICTORIAN WHEAT AREAS SHOWING ACREAGE, ACCORDING TO PRODUCTION PER ACRE, 1930-31.

Production.

						Dist	I AREA				1930-31	Average
	Area	Groups.	Central.	North- Central.	Western.	Wimmera.	Mallee.	Northern.	North- Eastern.	Gippsland.	State.	Yield for Group (bushels).
1 ai	nd under	r $50 \left\{ \begin{array}{l} \text{acres} \\ \text{per cent.} \end{array} \right.$	$16,149 \\ 26.15$	$7,566 \\ 21 \cdot 33$	$\begin{array}{r} 11,464 \\ 10\cdot 25 \end{array}$	10,445 ·89	2,332 ·10	29,139 3.67	$10,604 \\ 21.94$	6,28 2 21 · 95	$93,981 \\ 2.05$	16.26
50	"	$100 \left\{ \begin{array}{l} acres \\ per \ cent. \end{array} ight.$	$14,601 \\ 23.64$	$6,051 \\ 17.06$	$16,\!157 \\ 14\cdot 45$	22,698 1 · 95	4,137 18	74,213 9·37	$11,253 \\ 23 \cdot 28$	$5,943 \\ 20.76$	$155,053 \\ 3 \cdot 37$	16.42
100	"	$200 \left\{ \begin{array}{l} \text{acres} \\ \text{per cent.} \end{array} \right.$	$16,\!298 \\ 26\cdot 39$	$9,268 \\ 26 \cdot 13$	$30,234 \\ 27.04$	$114,128 \\ 9\cdot 80$	40,835 1·73	230,997 29.15	$12,891 \\ 26.66$	7,355 25 • 69	$462,006 \\ 10.04$	16·08 13·12
200	,,	$321 \left\{ \begin{array}{l} \mathrm{acres} \\ \mathrm{per \ cent.} \end{array} \right.$	$10\ 035\ 16\cdot 24$	$6,833 \\ 19\cdot 25$	29,332 26·23	286,414 24.60	$413,934 \\ 17.56$	$216,182 \\ 27 \cdot 29$	9,796 $20 \cdot 26$	$5,340 \\ 18.66$	977,866 21 26	13.12
3 21	,,	$400 \left\{ \begin{array}{l} acres \\ per \ cent. \end{array} \right.$	$1,060 \\ 1.72$	$1085 \\ 3.06$	7,098 6135	96,261 8+27	$258,371 \\ 10.96$	48,070 6·07	$\substack{\textbf{1,413}\\2\cdot 92}$	725 2 • 53	$414,083 \\ 9.00$	11.46
400	,,	${}^{500} \left\{ {}^{\mathrm{acres}}_{\mathrm{per cent.}} \right.$	$^{1,690}_{2^{\circ}74}$	1,200 3·38	$7,145 \\ 6\cdot 39$	$155,102 \\ 13 \cdot 32$	498,642 21·15	67,078 8·47	$1,291 \\ 2.67$	810 2 · 83	$732,958 \\ 15.93$	11·46 10·43 10·65
500	"	$\begin{cases} 600 \\ per cent. \end{cases}$	599 • 97	1,000 2·82	2,630 2·35	$129,152 \\ 11.09$	$340,223 \\ 14\cdot 43$	42,450 5·36	$\substack{1,098\\2\cdot27}$	550 1 · 92	$517,702 \\ 11 \cdot 25$	
600	"	$700 \left\{ \begin{array}{l} acres \\ per \ cent. \end{array} ight.$	600 • 97	670 1·89	$2,400 \\ 2 \cdot 15$	93,232 8 01	221,064 9·37	$24,960 \\ 3.14$	••		$342,926 \\ 7\cdot 46$	9·95 9·78
700	"	$800 \left\{ \begin{array}{l} acres \\ per \ cent. \end{array} ight.$	$728 \\ 1.18$	••	$3,210 \\ 2 \cdot 87$	64,134 5•50	$129,195 \\ 5\cdot 48$	$21,610 \\ 2.73$		$720 \\ 2 \cdot 52$	$219,597 \\ 4.77$	9.78
800	"	$1,000$ {acres per cent.	••	800 2 · 26	955 • 85	$84,501 \\ 7 \cdot 26$	186,585 7 · 92	$11,833 \\ 1\cdot 50$		900 3 · 14	$285,574 \\ 6.21$	9.07
1,000	**	$2,000 \left\{ \begin{array}{l} \text{acres} \\ \text{per cent.} \end{array} \right.$	••	$1,000 \\ 2.82$	$1,200 \\ 1.07$	94,060 8·07	214,969 9·12	$25,825 \\ 3 \cdot 25$	••	••	$337,054 \\ 7\cdot 33$	8.83
2,000	,,	4,001 { acres { per cent.	••		••	$14,400 \\ 1\cdot 24$	47,000 2.00	••		2010 2010 2010	$\substack{61,400\\1\cdot33}$	7.25
Percent	District age to T r of Grov	otal Area for State	61,760 1·34 1,311	35,473 77 644	$111,825 \\ 2 \cdot 43 \\ 1,334$	$\substack{1,164,527\\25\cdot42\\4,024}$	2,357,287 51 · 24 5,493	792,357 17·23 5,354	48,346 1.05 901	28,6 2 5 •62 561	4,600,200 100.00 19,622	11·70

CLASSIFICATION OF VICTORIAN WHEAT AREAS, IN AREA GROUPS, 1930-31.

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Varieties of Wheat, etc., and Manure used. Australian wheat is noted for its hard, white, and dry qualities, and, on account of the whiteness of the flour made therefrom, it is much sought after by oversea millers for the purpose of mixing with other wheats.

Enquiries in regard to the area sown under each variety of wheat, the quantity of seed sown, and the manure used, per acre, were made with the view of enabling the Agricultural Department to advise growers as to the most suitable varieties and the quantities to use in a particular district.

Analyses of the replies of the growers (approximately 70 per cent. replied) are given in the appended tables :---

	19	28-29.	19	929-30.	19	30-31,	19	31-32.
Variety.	Relative Order of Importance.	Percentage (according to acreage) of total area in the State.	Relative Order of Importance.	Percentage (according to acreage) of total area in the State.	Relative Order of Importance.	Percentage (according to acreage) of total area in the State.	Relative Order of Importance.	Percentage (according to acreage) of total area in the State.
Free Gallipoli Rance Federation Sepoy Nabawa Major Nizam Currawa Penny Rajah Gluyas Joffre Wannon Bald Early Ghurka Waratah Mac's White Strongbolt Turvey Bena Pusa Warden	$\begin{array}{c} 2\\ 3\\ 1\\ 17\\ 19\\ 6\\ 7\\ 4\\ 5\\ 8\\ 12\\ 9\\ 31\\ 18\\ 14\\ 13\\ 27\\ 16\\ 52\\ 36\\ 24\\ \end{array}$	$\begin{array}{c} 10\cdot 56\\ 10\cdot 10\\ 33\cdot 41\\ \cdot 88\\ \cdot 47\\ 4\cdot 52\\ 3\cdot 28\\ 7\cdot 76\\ 4\cdot 58\\ 2\cdot 95\\ 2\cdot 05\\ 2\cdot 05\\ 2\cdot 69\\ 2\cdot 19\\ 2\cdot 19\\ 2\cdot 80\\ \cdot 13\\ \cdot 47\\ 1\cdot 42\\ 1\cdot 85\\ 2\cdot 00\\ \cdot 13\\ \cdot 47\\ 1\cdot 30\\ \cdot 15\\ 1\cdot 30\\ 09\\ \cdot 20\\ \end{array}$	$\begin{array}{c}1\\3\\2\\8\\16\\5\\7\\4\\10\\14\\9\\13\\12\\21\\20\\17\\11\\19\\18\\235\\38\\30\end{array}$	$\begin{array}{c} 22 \cdot 20 \\ 12 \cdot 74 \\ 19 \cdot 80 \\ 2 \cdot 95 \\ 1 \cdot 34 \\ 5 \cdot 38 \\ 3 \cdot 69 \\ 7 \cdot 02 \\ 4 \cdot 22 \\ 2 \cdot 44 \\ 1 \cdot 61 \\ 2 \cdot 48 \\ 1 \cdot 63 \\ 1 \cdot 63 \\ 1 \cdot 63 \\ 1 \cdot 57 \\ 1 \cdot 13 \\ 1 \cdot 90 \\ \cdot 49 \\ \cdot 29 \\ \cdot 09 \\ 0 \\ 0 \\ 0 \\ 7 \\ \cdot 13 \end{array}$	$1 \\ 3 \\ 2 \\ 4 \\ 10 \\ 5 \\ 8 \\ 6 \\ 7 \\ 11 \\ 15 \\ 9 \\ 14 \\ 13 \\ 18 \\ 20 \\ 17 \\ 16 \\ 12 \\ 21 \\ 19 \\ 22 \\ 45 \\ 30 \\ 28 \\$	$\begin{array}{c} 34\cdot 53\\ 13\cdot 13\\ 13\cdot 93\\ 5\cdot 66\\ 1\cdot 85\\ 4\cdot 56\\ 3\cdot 27\\ 4\cdot 36\\ 3\cdot 68\\ 1\cdot 65\\ \cdot 92\\ 1\cdot 95\\ \cdot 99\\ 1\cdot 13\\ \cdot 60\\ \cdot 53\\ \cdot 74\\ \cdot 78\\ 1\cdot 37\\ \cdot 46\\ \cdot 59\\ \cdot 39\\ \cdot 05\\ \cdot 539\\ \cdot 05\\ \cdot 10\\ \cdot 13\\ \cdot 10\\ \cdot 10\\ \cdot 13\\ \cdot 10\\ \cdot 10\\ \cdot 10\\ \cdot 13\\ \cdot 10\\ $	$\begin{array}{c} 1\\ 2\\ 3\\ 4\\ 5\\ 6\\ 7\\ 8\\ 9\\ 10\\ 11\\ 13\\ 14\\ 15\\ 16\\ 18\\ 19\\ 20\\ 21\\ 23\\ 24\\ 25\\ \end{array}$	$39 \cdot 01$ $16 \cdot 70$ $7 \cdot 23$ $6 \cdot 76$ $4 \cdot 49$ $3 \cdot 60$ $3 \cdot 11$ $2 \cdot 81$ $2 \cdot 81$ $1 \cdot 281$ $1 \cdot 2$
Other Varieties		3·94 100·00	•••	3·37 100·00	··· ··	2.65 100.00	···	1 · 91 100 · 00

VARIETIES OF WHEAT SOWN IN VICTORIA.

Approximately 100 varieties of wheat were sown. The number of these which were tried in the Mallee greatly exceeded the number 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 each district, can be obtained on application to the Government Statist.

ESTIMATED PERCENTAGE OF TOTAL AREA UNDER WHEAT, AND SEED AND MANURE USED, 1931-32.

				Percentage	Weight per acre of-			
D	Pistrict.			(according to acreage) of total area in the State.	Seed Sown.	Manure Used.		
Central		· · ·	· · · · · · · · · · · · · · · · · · ·	per cent. 1 •09	1bs. 89	lbs. 93		
North Central	••	••	••	0.66	88	83		
Western	••	••	•	2.57	86	119		
Wimmera			•••	25.46	71	66		
Mallee	••			54.90	55	48		
Northern	••	••	••	13.69	69	71		
North Eastern	••	••		1.01	76	85		
Gippsland	••	••		0.62	84	82		
Total State	••		• • •	100.00	63	59		

The rate of sowing, in the principal wheat growing counties, ranged from 44 lbs. of seed per acre in the County of Millewa to 88 lbs. in Ripon. Manure used varied from 38 lbs. per acre in Millewa to 125 lbs. in Ripon.

Wheat mandard. The weight of an imperial bushel of wheat is 60 lbs., but the actual weight of a bushel of Victorian wheat of the fair average quality standard annually fixed by the Chamber of Commerce was 61.225 lbs. on the average of the last ten years. In 1931, the weight of a bushel (f.a.q.) was fixed at $58\frac{1}{2}$ lbs., and this was the only time since 1872 (59 lbs.) that the weight of a bushel of Victorian wheat had been lower than that of an imperial bushel.

Stocks of wheat and flour. It is estimated that about 14,000,000 bushels of wheat are required locally for food and seed. The stocks of wheat and flour in the State at 31st October in each of the last five years were as follows :---

Quantity in Puchala

				Quantity in Busileis.							
	At 31st O	ctober		Wheat.	Flour (equivalent in Wheat).	Total.					
1927				3,595,800	1,406,600	5,002,400					
1928				2,995,000	995,400	3,990,400					
1929				4,362,300	1,090,100	5,452,400					
1930	••	••		6,126,500	1,305,400	7,431,900					
1931	••	••		6,800,694	1,040,463	7,841,157					

WHEAT AND FLOUR ON HAND, 1927 to 1931.

oats. In addition to the area under oats harvested for grain last season as shown in the table on page 332, there were. 1,049,019 acres cut for hay, so that the total area sown with oats was 1,420,043 acres. Enquiries in regard to the different kinds of oats

sown for the 1931-32 season showed that, of those growers who supplied the information, 87 per cent. planted principally Algerian, and 4 per cent. Mortgage Lifter oats, and 2 per cent. Mulga.

Barley. The area under barley in 1930-31 was 87,518 acres, of which 60,800 were under malting, and 26,718 under other barley. The figures in the subjoined table show the acreage, production, and yield per acre, for each of the last five years :---

Year ended	Area und	ler Crop.	Produ	ice.	Average per Acre.				
March	Malting.	Other.	Maiting.	Other.	Malting.	Other.	Total.		
1927 1928	acres. 59,935 50,005	acres. 28,961 26,763	bushels. 1,186,733 866,213	bushels. 733,989 685,896	bushels. 19.80 17.32	bushels. 25·34 25·63	bushels, 21.61 20.22		
1928 1929 1930 1931	49,345 65,740 60,800	26,106 31,938 26,718	945,865 1,378,022 1.401,306	610,253 805,303 581,824	$19 \cdot 17$ 20 · 96	$23 \cdot 38$ $25 \cdot 21$ $21 \cdot 78$	$ \begin{array}{c} 20 \cdot 62 \\ 22 \cdot 35 \\ 22 \cdot 66 \end{array} $		

BARLEY PRODUCTION, 1926-27 to 1930-31.

During 1930-31, 1,425,765 bushels of barley were used locally in the production of 1,418,305 bushels of malt.

Hay. Of the total area under hay in 1931, as shown in the table on page 332, 1,049,019 acres under oats produced 1,322,120 tons, 188,360 acres under wheat produced 221,782 tons, and 40,019 acres under lucerne and other crops produced 61,998 tons; the yields per acre of these varieties of hay were 1.26, 1.18, and 1.55 tons respectively. The quantity of straw returned for the season 1930-31 was 25,737 tons.

Prices of agricultural products (value to the producer). Information is obtained direct from growers in regard to the prices of the leading agricultural products. The following table gives the average price of each product (value to the producer) for each of the last five seasons :---

Barley. Potatoes. Average Prices realized Wheat. Oate Hay. Main Crop for Season. Early Malting. Other. (after March). Crop. per per bushel. per per per per bushel. ner bushel. bushel. ton. ton. ton. d. s. d s. d. d. 8. я. d. 8. d. 8. d. 8. 3 91 2 53 2 ·9 170 0 69 0 1926 - 270 63 64 •• 3 2 $5\frac{3}{4}$ 3 0 28 0 4 70 84 0 1927-2× 11 01 1 • • 1į 0 3 3 2 3 0 $\mathbf{2}$ 0 158 0 169 1928-29 0 52٠. 3ł 2 0 $\mathbf{2}$ 1 $\mathbf{2}$ 91 3 59 0 143 0 71 1929 - 3093 12 1 71 0 111 30 1930-31 ł 0 101 1 27 $\mathbf{5}$ 79 0 0 ÷ •

PRICES OF AGRICULTURAL PRODUCTS, 1926-27 to 1930-31.

Note.—The above prices represent the f.o.b. values, less the following deductions :—Freight and handling charges, and cost of bags, seed, and manure.

Metropolitan prices of agricultural no pastores. Products. In the foregoing table, the value of agricultural products to the producer is given, after making allowance for cartain deductions. The metropolitan (or seaboard) prices for the principal agricultural and pastoral products are shown in the following statement :—

METROPOLITAN PRICES OF AGRICULTURAL AND PASTORAL PRODUCTS, 1926–27 to 1930–31.

Average Prices	Wheat.	Oats.	Bar	ley.	Hay.	Potatoes.	Wool.	Butter.	
realized for Season—			Malting.	Malting. Other.					
· · ·	per bushel. s. d.	per bushel. s. d.	per bushel. s. d.	per bushel. s. d.	per ton. s. d .	per ton. s. d .	per lb. s. d.	per lb. s. d.	
1926-27	5 3	3 6	4 2	3 7	90 0	150 0	1 4.45		
1927–28 1928–29	54 49	$\begin{array}{ccc} 4 & 2 \\ 3 & 1 \end{array}$	5 3 4 2	$\begin{array}{ccc} 4 & 2 \\ 3 & 2\frac{1}{2} \end{array}$	92 6 75 0	$\begin{bmatrix} 82 & 0 \\ 217 & 0 \end{bmatrix}$	1 8·56 1 5·37	1 8.66	
1929–30 1930–31	$ \begin{array}{ccc} 4 & 4 \\ 2 & 6 \end{array} $	$\begin{array}{ccc} 3 & 4 \\ 1 & 9\frac{1}{2} \end{array}$	$\begin{array}{ccc} 3 & 9 \\ 2 & 6 \end{array}$	$ 3 1 \\ 1 9 $	$\begin{array}{ccc} 85 & 0 \\ 53 & 0 \end{array}$	$\begin{array}{ccc} 115 & 0 \\ 72 & 0 \end{array}$	$\begin{array}{ccc} 0 & 10 \cdot 30 \\ 0 & 8 \cdot 65 \end{array}$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	

Other Grops. The area under other than principal crops and the production since March, 1928, are shown in the subjoined table:----

OTHER THAN PRINCIPAL CROPS, 1928-29 to 1930-31.

Cara	1928-29.		1929-30.		1930-31.	
Crop.	Area.	Production.	Area.	Production.	Area.	Production.
	acres.	bushels.	acres.	bushels	acres.	bushels.
Maize, for grain	16,077	679,810	17,640	533,719	16,227	692,896
Rye	711	10,994		11,068	959	10,199
Peas	6,743	108,607	8,438	193,640		153,124
		tons.	-,	tons.		tons.
Mangel-wurzel	429	5,301	486	5,539	360	5,167
Beet, Carrots, Par-				· · · ·	(1 1 1 1 A
snips and Turnips	243	2,079	243	1,798	248	3,003
Onions	7,673	29,700	7,828	43,646	6,286	41,193
Green Forage	107,351	••	169,253	• • •	126,347	
Grass and Clover		bushels.		bushels.		bushels.
Seeds	1,486	20,844	1,670	25,696	2,000	28,744
II.	281	ewt.	201	cwt. 3,713	185	ewt. 2,660
Hops Tobacco		3,676			-	1 1 1
	1,317	9,375		11,353		0 000 000
Vines—Grapes	41,565	4,117,757	40,594	4,040,230	38,720	2,639,902
$(x,y) \in \mathbb{R}^{n}$, $(P_{i}) \in \mathbb{R}^{n}$	· · [cwt.		cwt.		ewt.
Flax	109	826 seed	703	2,840 seed	> 1.216	3,583 seed
LIAA	ן פּטי	236 fibre	16 1007	760 fibre	[[], 2 10]	1,760 fibre
Gardens and Or-		239 tow		'980 tow		1,800 tow §
chards	79,322		80,820	••	79,490	
Minor Crops*	8,863		9,645		9,321	
Land in Fallow	2,683,462		2,482,662		2,590,629	
Lucernet	127,175		138,781		133,610	
Artificial Grasses			1,002,376		1,101,002	

For details see page 347.
 † Not available.
 ‡ Not cut for seen or hay,
 § 357 tons of undressed flaxen straw awaiting treatment.

Maize: The area under maize for grain in 1930-31 was 16,227 acres, and the production was 692,896 bushels, which represented a yield of 42.70 bushels per acre. Of the total production for last season 91 per cent. was obtained from the Gippsland district. The area, total production, and produce per acre are given in the next table for each of the last five seasons.

and a second			dina di K	Annual Average.			
Peri	od or Year (end	ling in J	ſune)	Area under Maize for grain.	Production.	Produce per Acre.	
1927			12	acres. 20,046	bushels. 6.5,407	bushels. 34 · 19	
1928				17,645	757,780	42.95	
1929				16,077	679,810	42.28	
1930	••••	••		17,640	533,719	30.26	
1931	••	•••	••	16.227	392,896	42.70	

MAIZE PRODUCTION, 1927 TO 1931.

On the average of the last five seasons the yield per acre was $38 \cdot 22$, bushels, as against $45 \cdot 0$ in 1910-15, and $65 \cdot 4$ 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.

Onions. Onions are grown in nearly every county south of the Dividing Range. The returns for last season show that in Villiers, the yield was 9,878 tons from 1,355 acres; in Grenville, 8,206 tons from 1,398 acres; in Polwarth, 5,950 tons from 875 acres; in Grant, 4,565 tons from 858 acres; in Bourke, 4,336 tons from 658 acres; in Buln Buln, 3,959 tons from 535 acres; and in Mornington, 3,283 tons from 465 acres. The following statement shows the area and yield for each of the last five years :--

	Year ended March-	Area.	Produce.	
1927 1928 1929 1930 1931		acres. 8,471 7,659 7,673 7,823 6,286	tons. 43,928 32,936 29,700 43,645 41,193	

ONION PRODUCTION, 1926-27 TO 1930-31.

The value of onions grown was $\pounds 52,018$ in 1930-31, as compared with $\pounds 74,704$ in 1929-30, $\pounds 187,233$ in 1928-29, $\pounds 188,186$ in 1927-28, and $\pounds 110,839$ in 1926-27.

Tobacco production reached its maximum in 1880-81, when 17,333 cwt. of dry leaf was produced. Subsequent years were marked by great variations in area and produce, but during the last three years a considerable improvement in the acreage planted has taken place—that for 1930-31 being the largest recorded in the history of the State. The area devoted to this product last

year was 2,650 acres, of which 1,257 were in Delatite, 1,042 in Bogong, 148 in Moira, and 89 in Borung. Particulars relating to the cultivation of tobacco for each of the last five years are as follows:—

Year ended June Area. Produce.	
acres. owt. (dry). 1927 1,154 3,454	
1927 1,154 3,454	
1927 1,154 3,454	
1928 1,176 9,055	
1929	
1930	
1931 2,650 *	

TOBACCO PRODUCTION, 1926-27 to 1930-31.

* Not available.

Vine The area under vines and the number of growers have shown a fairly large increase over the last fifteen years.

Vineyards are distributed fairly well over the State, and there are certain districts where the principal industries are connected with vinegrowing. The Shire of Mildura produced last season 2,221,516 cwt. of grapes; Swan Hill, 220,935 cwt.; and Rutherglen, 123,672 cwt. At Mildura the crop is principally dried for raisins and currants. The results of five years' operations are given below :---

	e de la	Ar	ea.	ана — 196 196	1	Produce.		
Year ended	1 01	1997 - A. A. A.				Dried	Produce	Made.
June	Growers.	Bearing.	Not Bearing.	Grapes gathered.	Wine made.	Rai	sins.	Currants.
	·					Lexias.	Sultanas.	
1927 1928 1929 1930 1931	2,832 2,774 2,746 2,701 2,610	acres. 37,340 37,974 38,689 38,327 37,528	acres. 3,272 3,014 2,876 2,267 1,192	cwt. 3,587,224 2,275,770 4,117,757 4,040,230 2,639,902	gallons. 2,346,314 2,353,890 1,942,701 1,363,575 1,254,615	cwt. 75,296 75,672 94,520 95,255 84,210	cwt. 582,418 326,649 676,599 688,399 363,336	cwt. 135,464 73,101 189,985 178,226 156,689

VINE PRODUCTION, 1927 TO 1931.

Of the total quantity of grapes gathered in 1931, it is estimated that 188,835 cwt. were used for making wine and spirits, 2,375,087 cwt. for raisins and currants, and 75,980 cwt. for table consumption and export.

Of the dried fruit made, 79,893 cwt. of lexias, 325,845 cwt. of sultanas, and 144,500 cwt. (f currants were made in the Mildura shire, and 4,222 cwt. of lexias, 36,851 cwt. of sultanas, and 11,170 cwt. of currants were made in the Swan Hill shire.

Raisins and currants are produced in Victoria upon a scale far in excess of the State's requirements. During 1930-31 the followin quantities were exported oversea :--Sultanas, 552,255 cwt., value

at \pounds 1,149,782; lexias, 47,507 cwt., valued at \pounds 77,349; raisins, other, 395 cwt., valued at \pounds 1,456; and currants, 141,227 cwt., valued at \pounds 288,114.

Orchards growing fruit for sale. The area of orchards growing fruit for sale in 1930-31 -77,840 acres—showed a decrease of 1,160 acres as compared with the area for the previous year. Orchards are distributed over the whole State, and the counties having

the largest areas in the season 1930-31 were as follows :---Mornington, 14,693 acres; Bourke, 11,574 acres; Evelyn, 10,274 acres; Rodney, 10,119 acres; Moira, 8,764 acres; Talbot, 4,059 acres; and Bendigo, 2,982 acres. Details of the produce from such orchards in the last five years are given in the subjoined statement :---

ORCHARDS GROWING FRUIT FOR SALE, 1926-27 to 1930-31.

Year	Number	Area of		LARGE FRUITS GATHERED.		D. "			
ended March	of Fruit- growers.	Gardens and	A	pples.	Pears.	Quinces.	Plums.	Prunes.	Cherrics.
		acres.	bi	ishels.	bushels.	bushels.	busheis.	bushels.	bushets.
1927	7,425	81,301	5	43,106	500,995	42,695	172,724	37,060	29,817
1928	7,209	79,293	3,7	12,350	1,053,481	115,606	6 231,728	79,481	47,795
1929	7,119	77,622	6	26,294	772,216	76,868	8 165,658	76,237	51,765
1930	7,241	79,000	2,7	79,107	1,166,418	84,894	204,583	86,298	46,060
1931	7,057	77,840	1.5	15,419	707,145	66,544	203,062	94,578	46,256
	1		La	rge Fru	its Gathered	1-continu	ied.		
	Peaches	Apricots.	Or	anges.	Lemons.	Figs.	Nectarines	Passion.	Other.
	bushels	bushels.	hr	ishels.	bushels.	bushela.	bushels.	busheis.	bushels.
1927	925.35			6.407	112,570	16.474	9.274	22,289	6.311
1928	1,350,70			8,101	162.860	18.125	23,142	22,072	3.608
1929	1.043.84			4.817	137.684	18.776	12.451	38,105	1.656
1930	1,191,25			5,106	114.081	17,898	19.210	13.063	6.313
1931		3 305,717		6,133	134,479	16,414	14,349	27,436	2,884
Anger .	in in i	BERRY FROM	rs Q	ATHERE	D.	1	NUTS GATI	HBRED.	
1. a 1. a 		an an an an				-			1 1
	Rasp- berries.		ose- ries.	Logan berrie		Almond	is. Walnuts.	Filberts.	Chest- nuts.
				<u> </u>			<u></u>	<u></u>	
	ewt.	cwt. c	wt.	ewt.	cwt.	lbs.	lbs.	lbs.	ibs.
1927	1,283	1.877 1	322	1.364	4 346	68.3	15 31.254	59	15,495
1928	3,295		449			66.78		148	26.066
1929	2,210		038					205	22,965
1930			456			63.3		654	18.476
1931	3,014		121	3,642		97,5		433	21,048
						1			1

The effects of the dry season and the ravages of the "thrip" pest, during 1926-27, are shown in the above table, except in the yields of apricots and passion fruit. In 1927-28, the yield for all fruits was exceptionally heavy; that for pome and citrus fruits constituting a record. In most cases, the yield for 1928-29 was very low, the apple crop, in particular, being little more than that for the 1926-27 season. In the seasons 1929-30 and 1930-31 there was a return to normal, the yield of practically all fruits being well up to the average.

In addition to the fruits shown, large quantities of melons, rhubarb, and tomatoes were produced in the orchards, the following being the quantities returned for 1930-31:—Melons, 6,339 cwt.; rhubarb, 15,806 dozen bundles; and tomatoes, 173,899 bushels. There were also 1,650 acres laid down in gardens growing fruit for private use; the value of the produce from these was estimated at about £8,250.

Fruit Trees. Information relating to the number of trees of each variety (bearing and non-bearing) for the years 1925–26 and 1928–29 appears on page 565 of the Victorian Year-Book for 1928–29.

According to prices received by growers the value sold. £970,831 in 1926-27, £1,189,356 in 1927-28, £1,093,434 in 1928-29, £927,723 in 1929-30, and £751,716 in 1930-31. This, of course, does not represent the actual value of all the fruit grown, as large quantities are privately consumed in various ways. No very reliable estimate of the value of such fruit can be prepared, but it may be set down at about £40,000.

Market gardens. The area under market gardens in the year 1930-31 was 20,197 acres. As these gardens are generally situated near large centres of population, the producers are able to dispose of the bulk of their goods with a minimum loss from waste, &c. An average return of £50 per acre is regarded as a fair estimate of their value, and on this basis the total value of the produce may be given as approximately £1,000,000. This does not include crops of one acre and over of potatoes, onions, mangel-wurzel, beet, carrots, parsnips, and turnips grown in market gardens, such crops being tabulated under their respective heads in the returns relating to agriculture.

The quantity of dried fruit (weight after drying) was **Dried fruit** (weight after drying) was **Constants Constants Constants**

fruit, with the exception of raisins and currants, the particulars of which appear on page 344, is shown in the following statement for each of the last five seasons :---

Year e Jun		Apples.	Prunes.	Peaches.	Apricots.	Figs.	Pears.	Nectarines,	Total.
		ibs.	lhe.	lbs.	lbs.	ibs.	lbs.	lbs.	lbs.
1927	•••	2,840	313,390	107,933	278,796	9,966	43,333	66	756,324
1928		3,351	610,073	305.984	188.085	10.245	85,396	4,424	1,207.558
1929	•••	2,194	760,216	136,033	586,140	7,685	71,591	4,269	1,568,128
1930	1.31	3.424	848,811	234.032	343,490	6,878	82.267	860	1.519.762
1931		2.444	853.535	184.883	360,893	20.120	45,419	1.566	1.468,860

DRIED	FRUIT.	1926-27 т	o 1930-	-31.

Miner crops. The following is a return of the minor crops for the last two seasons. The items do not in all cases represent the whole of the respective crops grown, but refer only to such as were taken cognisance of by the collectors. The return, therefore, indicates the nature of the crops rather than the full extent of their cultivation:—

		1929-30.	1930-31.		
Сгор.	Area.	Produce.	Area.	Produce.	
Artichokes Beans Chicory Flowers Garlic	acres. 3 1,815 469 355 2	15 tons 17,859 bushels 319 tons (dry) 4 tons	acres. 6 1,587 344 417	20 tons 18,813 bushels 358 tons (dry)	
Flax-New Zealand	70	a that k ha a	75		
Herbs and Scent Plants	33	••	48		
Millet-Broom	1,677	(5,428 cwt. fibre (3,583 cwt. seed	}1,232	{ 5,441 cwt. fibre { 4,678 cwt. seed	
Nurseries Pumpkins Seeds—Agricultural and	1,266 1,231	5,174 tons	1,266 1,078	5,865 tons	
Ğarden	67	26,525 tons clean beet, pro-		38,291 tons clean beet, pro-	
Sugar Beet	}2,500	ducing 3,472 tons market- able sugar 1,079 cwt.	$ \left. \right\}_{102}^{3,045}$	ducing 5,095 tons market- able sugar 898 cwt.	
The second s	9,645		9,321	•••	

MINOR CROPS, 1929-30 AND 1930-31.

* Only cut every third year.

Land in The increase in the acreage in fallow and in the fallow and proportion of farmers using manures indicates the popularity and the value of these methods of treating the soil. The following table shows the acreage in fallow and the number of farmers using manure, and the quantity used, in various years :---

LAND IN FALLOW AND MANURE USED, 1901 TO 1931.

			Manur	e used.	
Year ended March	Land in Fallow.	Number of Farmers using.	Area used on.	Natural.	Artificial.
1901	acres. 602,870	11,439	acres. 556,777	tons. 153,611	tons. 23,53 5
1911	1,434,177	26,159	2,676,408	205,739	82,581
1921	1,935,747	37,835	3,848,184	161,683	150,012
1930	2,482,661	44,989	6,898,718	104,732	274,420
1931	2,590,629	*	*	*	*

* Not available.

NOTE.—The average weight of manure used per acre in each district will be found on page 340.

Nearly all of the fallowed area is devoted to wheat production. Of the 2,590,629 acres in fallow last season, 952,432 were in the Mallee, 779,805 in the Wimmera, and 567,278 in the Northern district. The total for these three districts represented 89 per cent. of the land fallowed in the State.

Portion of the increase in the area on which manure is used is accounted for by the increasing practice of treating pastures with artificial fertilizers. During 1930-31 the quantity of fertilizers imported into Victoria from oversea countries was 165,272 tons valued at £243,216. This included 161,938 tons of rock phosphates valued at £213,604, most of which came from the Pacific Islands.

Persons Information is obtained by the collectors of agriculmaterial statistics each year as to the number of persons Deliving, and ordinarily employed upon the land occupied. For the last five years the numbers were as follows :---

NUMBER OF PERSONS EMPLOYED UPON FARMING, DAIRYING, AND PASTORAL HOLDINGS, 1926 to 1930.

Year.	Males.	Females.	Total.
		and the second	
1926	96,791	17,619	114,410
1927 1928	95,639 98,296	13,841 14,508	109,480 112,804
1929	101,044	11,553	112,304
1930	103,227	10,906	114,133

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 not included in the above tabulation, neither are domestic servants nor cooks. Only females who are wholly engaged in outdoor duties are included. It is estimated that the temporary labour employed on farms and pastoral holdings is equivalent to about 30,000 men employed continuously throughout the year.

Wages agricultural and pastoral. In the next return will be found particulars of the rates of wages paid (with rations) upon farms and pastoral holdings during 1930-31. The information has been furnished by the occupiers of holdings.

WAGES, AGRICULTURAL AND PASTORAL, 1930-31.

Occupations.	Range.	Prevailing Rate.
Ploughmen Farm labourers	25s. to 60s. per week 20s. to 60s. per week 10d. to 18d. per hour 7s. to 12s. per day 20s. to 40s. per week 5d. to 9d. per bag 40s. to 70s. per week 15s. to 30s. per week	40s. per week 30s. per week 12d. per hour 10s. per day 27s. 6d. per week 6d. per bag 50s. per week 20s. per week
Shearers, hand (without rations)	30s. to 40s. per 100 sheep	32s. 6d. per 100 sheep
" machine (without rations)	30s. to 40s. per 100 sheep	32s. 6d. per 100
Gardeners, market , orchard Vineyard hands	20s. to 40s. per week 20s. to 40s. per week 20s. to 40s. per week	sheep 30s. per week 30s. per week 30s. per week

PASTORAL AND DAIRYING INDUSTRIES.

Live Stock. The pastoral and dairying industries have always been important sources of wealth to the State, and their increasing value in recent years, despite the larger areas devoted to cultivation, indicates that both pastures and stock are, on the whole, steadily improving. The progress of stock breeding is shown in the next table, which gives the numbers of horses, dairy cows, other cattle, sheep and pigs, and their numbers per head of population and per square mile, in each of the last seven census years, also in the year 1931 :--

Year ended March			Sheep.	Pigs.	
	Foais).	Dairy Cows.	Other.		a ta ¹ 1 es
	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	180,109
1881	275,516	329,198	957,069	10,360,285	241,936
1891	436,469	395,192	1,387,689	12,692,843	282,457
1901	392,237	521,612	1,080,772	10,841,790	350,370
1911	472,080	668,777	878,792	12,882,665	333,281
1921	487,503	620,005	955,154	12,171,084	175,275
1931	379,872	669,132	760,788	16,477,995	281,245
		Per	Head of Po	pulation.	
1861	•14	•37	•97	10.70	•11
1871	•29	·29	•77	14.32	·25
1881	•32	·38	1.11	12.01	•28
1891	•38	$\cdot 35$	$1 \cdot 22$	11.13	•25
1901	•33	•43	•90	9.03	-29
1911	•36	·51	-67	9.79	•25
1921	·32	•41	·63	7.99	.12
1931	•21	•38	•43	9.27	•16
	a - 9		Per Square	Mile.	
1861	•87	1 2.25	5.97	65.78	•70
1871	2.38	2.41	6.42	119.22	2.05
1881	3.14	3.75	10.89	117.88	2.75
1891	4.97	4.50	15.79	$144 \cdot 43$	3.21
1901	4.46	5.94	$12 \cdot 30$	123.36	4.00
1911	5.37	7.61	10.00	146.59	3.79
1921	5.55	7.05	10.87	138.49	1.99
1931	4.32	7.61	8.66	187.50	3.20

LIVE STOCK IN VICTORIA, 1861 TO 1931.

By reducing horses and cattle to an equivalent in sheep on the assumption that each head of large stock will eat as much as ten sheep, interesting comparisons of the stock carried on the land at different periods may be instituted. Calculations made on this basis show that each square mile carried an equivalent of 393 sheep in 1931, as compared with 373 in 1921, 350 in 1901, and 296 in 1881.

Size of Holdings.

On pages 572 to 575 of the 1928-29 issue of this work will be found detailed information relating to the number and size of holdings and the live stock, cultivation, &c., on different sized holdings for the year 1929, also certain comparative figures for the years 1913, 1919, and 1925.

Land occupied in different

The following tables give information relating to land occupied in each district in March, 1931 :--

LAND IN OCCUPATION IN EACH DISTRICT OF VICTORIA, MARCH, 1931.

				A	cres Occupi	ed.	
	Total Area	Number	For	For P	asture.		
Districts.	of Districts.	of Occupiers.	Agricul- tural Purposes.	Sown Grasses, Clover, or Lucerne.	Natural Grasses.	Unpro- ductive.	Total.
Central North-Central Western Mallee North-Eastern Gippsland	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	16,782 5,435 11,937 6,157 8,274 12,051 5,214 8,687	473,487 159,652 469,066 2,247,339 3,818,808 1,777,788 173,727 186,422	264,178 23,614 359,578 19,496 13,360 151,515 12,887 389,984	$\begin{array}{c} 1,793,664\\ 1,904,456\\ 5,296,854\\ 3,294,477\\ 1,690,431\\ 3,414,521\\ 3,662,093\\ 2,445,759\end{array}$	223,600 130,771 618,798 521,198 682,786 55,560 421,257 1,108,890	$\begin{array}{c} 2,754,929\\ 2,218,493\\ 6,744,296\\ 6,082,510\\ 6,205,385\\ 5,399,384\\ 4,269,964\\ 4,131,055\end{array}$
Total	56,245,760	74,537	9,306,289	1,234,612	23,502 255	3,762,860	37,806,016
	<u></u>	PERCENT	GE OF TOT	AL OCCUPI	ED IN EACH	DISTRICT.	<u></u>
Central North-Central Western Wimmera Mallee North-Eastern Gippsland			$\begin{array}{r} 17{\cdot}19\\ 7{\cdot}20\\ 6{\cdot}95\\ 36{\cdot}95\\ 61{\cdot}54\\ 32{\cdot}93\\ 4{\cdot}07\\ 4{\cdot}51\end{array}$	9.59 1.06 5.33 0.32 0.22 2.80 0.30 9.44	$\begin{array}{c} 65 \cdot 11 \\ 85 \cdot 85 \\ 78 54 \\ 54 \cdot 16 \\ 27 \cdot 24 \\ 63 \cdot 24 \\ 85 \cdot 76 \\ 59 \cdot 21 \end{array}$	$\begin{array}{c} 8 \cdot 11 \\ 5 \cdot 89 \\ 9 \cdot 18 \\ 8 \cdot 57 \\ 11 \cdot 00 \\ 1 \cdot 03 \\ 9 \cdot 87 \\ 26 \cdot 84 \end{array}$	$\begin{array}{c} 100\cdot00\\ 100:00\\ 100\cdot00\\ 100\cdot00\\ 100\cdot00\\ 100\cdot00\\ 100\cdot00\\ 100\cdot00\\ 100\cdot00\\ 100\cdot00\\ \end{array},$
Total	an th ir ga	••	24.62	3.27	62.16	9.95	100.00
		PERCENTAG	E IN EACH	DISTRICT C	F TOTAL IN	STATE.	
Central North-Central Western Minmera Mallee Northern North-Eastern Gippsland	$\begin{array}{r} 7\cdot 23 \\ 5\cdot 21 \\ 15\cdot 60 \\ 13\cdot 14 \\ 19\cdot 17 \\ 11\cdot 27 \\ 12\cdot 84 \\ 15\cdot 54 \end{array}$	$\begin{array}{c} 22 \cdot 52 \\ 7 \cdot 29 \\ 16 \cdot 01 \\ 8 \cdot 26 \\ 11 \cdot 10 \\ 16 \cdot 17 \\ 7 \cdot 00 \\ 11 \cdot 65 \end{array}$	5.09 1.72 5.04 24.15 41.03 19.10 1.87 2.00	$\begin{array}{c c} 21 \cdot 40 \\ 1 \cdot 91 \\ 29 \cdot 12 \\ 1 \cdot 58 \\ 1 \cdot 08 \\ 12 \cdot 28 \\ 1 \cdot 04 \\ 31 \cdot 59 \end{array}$	$\begin{array}{c c} 7\cdot 63 \\ 8\cdot 10 \\ 22\cdot 54 \\ 14\cdot 02 \\ 7\cdot 19 \\ 14\cdot 53 \\ 15\cdot 58 \\ 10\cdot 41 \end{array}$	$5 \cdot 94 \\ 3 \cdot 48 \\ 16 \cdot 44 \\ 13 \cdot 85 \\ 18 \cdot 14 \\ 1 \cdot 48 \\ 11 \cdot 20 \\ 29 \cdot 47 \\ $	$\begin{array}{c} 7 \cdot 29 \\ 5 \cdot 87 \\ 17 \cdot 84 \\ 16 \cdot 09 \\ 16 \cdot 41 \\ 14 \cdot 28 \\ 11 \cdot 29 \\ 10 \cdot 93 \end{array}$
Total	-100.00	100.00	100.00	100.00	100.00	100.00	100.00

(Areas of 1 acre and upwards.)

It will be seen from these tables that the largest areas under cultivation and the largest proportions of cultivation to land occupied are found in the Mallee, Wimmera, and Northern districts. Of the occupied land, 62 per cent. in the Mallee, 37 per cent. in the Wimmera, and 33 per cent. in the Northern districts are devoted to agriculture, and these divisions supply over 84 per cent. of the cultivation in Victoria. In the North-Central, Western, and North-Eastern districts the land occupied is largely devoted to grazing: in Gippsland, Western, and Central, considerable attention is given to the cultivation of grasses, 82 per cent. of all the sown grasses in the State being found in those districts.

In 1914, 60 per cent. of the sown grasses in the State were in Gippsland.

Areas occupied The next table contains particulars of the distribution and stock of horses, cattle, and sheep on agricultural and pastoral districts. lands in March, 1931 :---

Districts.		Area Occ	upled for-	Number of—				
		Agriculture.	Pasture.	Horses.	Cattle.	Sheep.		
Central North-Central Western Wimmera Mallee Northern North-Eastern Gippsland	• • • • • • • •	acres. 473,487 159,652 469,066 2,247,339 3,818,808 1,777,788 173,727 186,422	acres. 2,057,842 1,928,070 5,656,432 3,313,973 1,703,791 3,566,036 3,674,980 2,835,743	74,646 18,251 50,876 50,281 56,835 70,841 25,455 32,687	$\begin{array}{r} 247,826\\77,699\\353,866\\32,607\\28,614\\169,627\\208,041\\311,640\end{array}$	1,568,877 1,579,073 5,245,548 2,254,111 655,553 2,472,996 1,406,874 1,294,963		
Total		9,306,289	24,736,867	379,872	1,429,920	16,477,995		

AREA OCCUPIED AND STOCK THEREON, 1931.

The area occupied does not include 3,762,860 acres which are mostly in an unproductive state.

Live stock The following return shows the live stock in Victoria in Victoria. In Victoria. In Victoria in 1927 to 1931. each of the last five years :---

Live Stock.	1927.	1928.	1929.	1930.	1931
Horses (including					
foals)	447,988	428,666	412,877	393,015	379,872
Cattle- Dairy Cows	673 000	626,139	615 000	610 410	660 199
Other (including	673,089	626,139	615,092	619,416	669,132
calves)	762,672	700.938	689,334	715.826	760,788
	14,919,653	15,557,067	16,498,222	17,427,203	16,477,995
Pigs	284,271	212,785	222,084	265,978	281,245

LIVE STOCK IN VICTORIA, 1927 to 1931.

Comparing 1931 with 1930, cattle increased by $7 \cdot 1$ per cent., and pigs by $5 \cdot 7$ per cent., while sheep decreased by $5 \cdot 4$ per cent., and horses by $3 \cdot 3$ per cent.

The peak period for horses was 562,331 in 1914, since when, owing to the increased use of motor vehicles for transport and tractors on farms, there has been a fairly constant decrease in the number each year. The decline in the last ten years amounted to 22 per cent.

The number of sheep in the State in 1930, 17,427,203, established a record.

Prices of Live Stock. In the subjoined table will be found a statement of the average and the range of prices of live stock ruling in Melbourne during the years 1929-30 and 1930-31. The

information has been extracted from the Melbourne Stock and Station Journal:--

PRICES	IN MELBOURNE OF LIVE	STOCK,
	1929-30 AND 1930-31.	

Stock.		1 C.M.	Pr	COR	in I	192	29-3	0.					P	rices	in :	193	0-3	1.			
	Ave	erage.			1	Ra	nge.				Av	era	ge.		÷	R	ang	ge.			
Horses.	£	s. d.		£ł	. d	Į.		£	8.		£	8.	d.	£	8.	d.		£	8.	d.	
Extra heavy draught	37	16 0		5	0 0	<u> </u>	o 4	<u>م</u>	10	0	37	5	0	95	· 0	0	to	40	0	0	
Medium draught	27	1 0		9 41			04 02			ŏ	26	1	ŏ	24			to		Ö	ŏ	
Delivery cart		4 0					$02 \\ 101$			ŏ	14	ō		44	U	v	10	40	. 0	v	
Indian Remounts	16						to 1			ŏ	17	6	ĕ	17	0	-A	to	18	0	0	
Saddle and harness	7	9 0		61		ŏt			0	ŏ	7	10	ŏ				ψŪ	10	U		
Ponies		16 0		71			:0 1			ŏ	7	10	ŏ	1.			••				
Order cart	12	7 6							10	ŏ	12	10	ŏ								
Fat Cattle.	14	• •	1.1	2	0 1	0 1	λų r	. .	10	. 0	1.	0	v	1			•••				
Bullocks-														1							
Extra prime	24	4 0	10	0	6 1	n i	io 2	8	7	0	18	5	9	13	9	4	to	24	18	9	
Prime	21						to $\overline{2}$		ò	ŏ	16	5	ÿ	12	4		to		- 9	8	
Good	18						to $\frac{1}{2}$		ă	ŏ	14	$1\tilde{5}$	Ō	11	7	10	to	19	10	4	
Good light and	-0	- <u>-</u>	1	·				T	0	v				-						5 E.	
handy weights	16	17 0	1	31	5 (0 f	to 1	9	0	0	13	4	0	10	4	7	to	16	17	6	
Second	13	8 0					o 1		15^{-}	õ	10	6	0	8	13	- 8	to	13	0	0	
Cows-			-	-	•	· ·															
Best	15	5 0	1	31	2 (0 t	to 1	6 1	12	6	12	1	0	9	7	6	to	15	15	1	
Others .	9	15 0	-1	8 1	6 (Ô t	to 1	0 1	16	6	8	3	0	6	15	8	to	10	5	8	
Fat Sheep.			1																		
Wethers (cross)																					
Extra prime	1				3 1	2 t	to	1 1			1		11		17		to		12	4	
Prime	1					5 t		1 1		1		19	0			10		1	8	7	
_ Good	1	0.7		01	7 1	9 t	to	1	7	11	0	15	8	0	11	11	to	1	4	2	
Ewes (cross)	÷										1			i							
Extra prime	1	$0 \cdot e$		01		2 t		1	8	4		17	8		12		to	1	6	5	
Prime	0			0, 1		4 t		1	4	6		14			11		to	1	2	7	
Good	0	$12 \ 11$		0	9 8	8 t	to	0 1	17	8	0	11	- 0	0	7	4	to	- 0	17	0	
Wethers (merino)										~ ·											
Extra prime	1	4 9		01		4 t		11		8		12					11				
Prime		$ \begin{array}{c} 0 & 11 \\ 17 & 9 \end{array} $		01		0 t		1) 1	11	$\frac{1}{3}$		16	8 6			10		1	6	2	
Good Fat Lambs.	0	11. 8		0 1	4 1	6 t	:0	Ŧ	4	3	U	13	0	0	਼ਲ	11	r0	1	0	9	
Deter - store	1.	4 2		1	1 10	n +		1	7	3		0	2	0	15	5	to	. 1	6	6	
Destaura	1				9 7			ī		10		17	5			11		1	2		
Cool	ō				5 10			î	ĭ	10		14	- 3		11		to		18		
0000 Pigs.	U U				0 1	0 1			-	č	U	+7	, č		ŦŤ	0		U	10		
Back Fatters-	1													1							
Extra heavy prime	12	11 E	1.	91	3 1	n t	o 1	4 1	10	6	8	6	3	5	4	n	to	11	5	0	
Extra prime and				0 1				- ·		Ň	Ĭ	v		, v	-	Ŷ	•••		°.		
weighty	8	5 9		61	1 :	3 t	io 1	n	3	0	5	0	ő	3	2	11	to	7	14	- 9	
Baconers-			ŀ	· •	- '	~ `		Ť		3		Ŭ		ľ	-			•	- *		
Extra prime	4	14 5	1.	31	8 :	2 t	0	5 3	11	6	3	8	10	2	13	10	to	4	10	4	
Prime		<u>3</u>		žĩ		3 t		4 1		9		14	2	2	1		to		14	î	
Porkers	$\overline{2}$			2	11	1 t	50	3	1	6	1	13	1	1	5	4	to	2	3	11 .	Ĵ
	l í		1.								1			1							

NOTE .- Prices for dairy cattle are not available.

stock The following is a statement of the stock slaughtered slaughtered. on farms and stations, as well as in municipal abattoirs, during the last four years.

Y	ear ended June-	N		
		Sheep and Lambs.	Cattle.	Pigs.
1928	••	4,732,494	469,610	358,135
1929	•• •• ••	5,286,642	466,576	354,339
1930	•• ••	6,024,702	387.662	347,688
1931	••	5,945,475	328,032	399,241

STOCK SLAUGHTERED, 1927-28 to 1930-31.

The purposes for which the slaughtered animals were used were as follows :---

PURPOSES FOR WHICH STOCK WERE SLAUGHTERED, 1927-28 to 1930-31.

Year ended June-		her and Priv	ate Use.*	For Export.			
	Sheep.	Cattle.	Pigs.	Sheep.	Cattle.	Pigs.	
1928	. 3,800,938	460,668	147,224	915,545	4,877	81	
1929	. 3,681,251	456,829	156,049	1,590,573	6,297		
1930	. 4,162,987	381,743	128,557	1,825,019	1,946	81	
1931	. 4,228,033	323,945	176,753	1,697,947	2,700	13,606	
		4 - E - E	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1		1 1 1	
Year ended June-		serving and S	alting.	For E	soiling Do	wn.	
Year ended June-		serving and S Cattle.	alting. Pigs.	For E Sheep.	Cattle.	wn.	
Year ended June- 1928 1929	- Sheep.	Cattle.	Pigs.	Sheep.	Cattle.	Pigs.	
<u> </u>	- <u>Sheep.</u> . 2,830 . 6,470 0.021	Cattle.	Pigs. 210,547	Sheep.	Cattle.	Pigs.	

* Including carcasses held in Cool Stores at end of year.

Of the sheep and lambs slaughtered in Victoria in 1930-31, 29 per cent. were frozen, as compared with 30 per cent. in 1929-30 and 1928-29, and 19 per cent. in 1927-28. In 1930-31, the oversea exports included 12,798,586 lbs. of mutton, valued at £186,903, and 44,050,955 lbs. of lamb, valued at £1,075,532.

Frozen Mutton and Lamb Exported. The importance of the mutton and lamb export trade to Victorian sheep owners is evidenced by the figures in the appended statement showing the particulars of exports in each of the last five years.

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

			Carcasses	Exported.			
Year ended June-		Mutton.		Lamb.			
	Number.	Average Weight.	Value.	Number.	Average Weight.	Value.	
1927 1928	149,358 137,484	lbs. 49 44	£ 141,998 117,200	1,197,067 778,061	lbs. 33 28	£ 1,053,502 639,486	
1929 1930 1931	422,215 309,903 291,382	50 44 44	431,440 248,021 186,903	1,168,358 1,515,116 1,406,565	32 31 31	1,096,891 1,279,836 1,075,532	

FROZEN MUTTON AND LAMB EXPORTED.

Dairying. The dairying industry is one of the principal sources of the wealth of the community. The value of dairy produce in 1931 was £10,013,166, as compared with £10,923,180 in 1930, £11,959,500 in 1929, £11,186,070 in 1928, and £10,483,760 in 1927. The following table shows the numbers of cowkeepers and cows at the end of, and the total production of butter and cheese, in each of the last five years :--

DAIRYING, 1926-27 to 1930-31.

Year ende	d Marc	ch—	Number of Cow- keepers.	Number of Dairy Cows.	Butter made.*	Cheese made.•
	·		102		lbs.	lbs.
1927	·		56,935	673,089	81,995,815	5,997,648
1928	•••		55,356	626,139	84,270,812	5,621,945
1929			54,814	615,092	93,728,516	5,505,932
1930			54,131	619,416	90,639,652	6,953,949
1931	••		54,684	669,132	110,006,619	8,064,463
	. N.	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -				ha fa desta y

* Year ended 30th June.

Areas of holdings and numbers and sizes of dairy herds on various holdings appears in the 1928-29 sizes of dairy issue of this work, page 581. Similar particulars for subsequent years may be had on application to the Government Statist.

Butter and cheese made on farms. The quantities of butter and cheese made on farms in the last five years were as follows:—

BUTTER AND CHEESE MADE ON FARMS, 1926-27 to 1930-31.

	Year end	ied June-			Butter.	Cheese.
					· · · · · ·	
					lbs.	lbs.
1927	••				3,887,324	516,063
928					3,592,264	217,495
929					3,434,539	246,854
930			••		3,469,804	206,055
1931	••				3,761,087	218,630
- 1				1.1.1		•

Butter and cheese made in factories. follows :---

BUTTER, CHEESE, ETC., MADE IN FACTORIES, 1926-27 to 1930-31.

Year ended June		Butter made.	Cream sold.	Cheese made.	Concentrated, Condensed, and Powdered Milk made	Casein made.
		lbs.	gallons.	lbs.	lbs.	lbs.
1927	••	78,108,491	344,605	5,481,585	48,186,040	1,803,049
1928	• • •	80,678,548	381,794	5,404,450	53,876,662	2,619,855
1929		90,263,977	471,729	5,259,078	53,948,559	3,340,171
1930		87,169,848	496,628	6,747,894	51,581,802	2,568,956
1931		106,245,532	421.451	7,845,833	45,665,474	2,555,410

The quantities of milk, in gallons, received at factories and creameries were 205,441,560 in 1926-27, 212,983,200 in 1927-28, 226,228,350 in 1928-29, 220,977,700 in 1929-30, and 259,676,705 in 1930-31.

In 1930-31, there were exported from Victoria to countries outside Australia 61,751,348 lbs. of butter, valued at £2,998,170, all of which was Australian produce. The quantity sent to the United Kingdom was 53,119,474 lbs., valued at £2,509,860. The quantity of cheese exported to oversea countries was 680,526 lbs., and the value thereof, £24,113.

Weel production. Information relating to the wool clip is obtained direct from the growers, and an allowance is made for the wool on Victorian skins, both stripped and exported. On this basis the production of wool in 1930-31 and earlier seasons was as follows:--

VICTORIAN WOOL CLIP AND ESTIMATED TOTAL PRODUCTION.

Districts.		Wool Clip	, 19 30–31 .		
	Sheep.	Lar	nbs	Total.	
	lbs.	11	os.	lbs.	
Central	8,803,804	55	8,203	9,362,007	
North-Central	9,525,435	58	1,665	10,107,100	
Western	34,310,966	2,15	0.970	36,461,936	
Wimmera	14,878,600	75	4,837	15,633,437	
Mallee	3,752,814	13	0,418	3,883,232	
Northern	12,308,462	98'	7,931	14.296.393	
North-Eastern	7,130,873		3,516	7,604,389	
Gippsland	6,751,760		2,896	7,184,656	
(1930-31 1929-30	98,462,714 109,318,424			04,533,150 17,795,889	
Total Clip < 1928–29	116,076,806	8,29	2,541 1	24,369,347	
1927-28	89,113,548	5,92	0,098	95,033,646	
[1926-27	92,043,642	6,13	3,520	98,177,162	
· · · · · · · · · · · · · · · · · · ·	1927-28.	1928-29.	1929-30.	1930-31.	
Wool clip Wool stripped from Vic-	lbs. 95,033,646	lbs. 124,369, 3 47	lbs. 117,795,889	lbs. 104,533,150	
torian skins and on			р. — С. М	l Al Artico de	
Victorian skins ex- ported (estimated)	23,769,390	25,509,241	28,261,000	28,978,316	
Total production	118,803,036	149,878,588	146,056,889	133,511,466	
Total value	£9,701,660	£10,252,002	£5,694,019	£4,374,932	

Of the total quantity of wool produced, the amounts used in manufacturing for each of the last four years were as follows:—1927-28, 25,346,066 lbs.; 1928-29, 25,008,506 lbs.; 1929-30, 26,008,800 lbs.; and 1930-31, 21,413,372 lbs. Of the total production, the quantity used in manufacturing represented 21.3 per cent. in 1927-28, 16.7 per cent. in 1928-29, 17.8 per cent. in 1929-30, and 16.0 per cent. in 1930-31.

 Sheep shorn.
 In 1930-31 there were 13,619,450 sheep and 2,935,685 lambs shorn, as compared with 14,204,743 sheep and 3,620,557 lambs in 1929-30, 13,005,239 sheep and 3,565,737 lambs in 1928-29, 12,809,537 sheep and 2,747,400 lambs in 1927-28, and 11,863,262 sheep and 2,671,435 lambs in 1926-27.

Weight of a fleece. The next table shows the production of wool per sheep and per lamb shorn in each of the last five years :--

				Weight of a Fleece.					
	Year.	· · · ·		Sheep.	Lambs.	Sheep and Lambs combined.			
1926-27 1927-28 1928-29 1929-30 1930-31	••	••	•••	lbs. 7 • 76 6 • 96 8 • 93 7 • 70 7 • 23	$\begin{array}{c} \text{lbs.} \\ 2 \cdot 30 \\ 2 \cdot 15 \\ 2 \cdot 33 \\ 2 \cdot 34 \\ 2 \cdot 07 \end{array}$	lbs. 6·75 6·11 7·51 6·61 6·31			

WEIGHT OF A FLEECE, 1926-27 to 1930-31.

Prices of wool. The following information as to the average prices of wool per lb. which have prevailed during the last three seasons has been obtained from Melbourne wool brokers :---

PRICES OF WOOL, 1928-29 to 1930-31.

Class of	Wool	Average Price per lb. in								
		1928-29.	1929-30.	1930-31.						
·····	·····	· · · · · · · · · · · · · · · · · · ·								
GREASY N	IERINO.									
Extra Super (Wes	tern District)	29d. to 32d.	19d. to 21d.	15d. to 18d.						
Super		26d. to 28d.	16d. to 18d.	13d. to 15d.						
Good	•• ••	23d. to 25d.	14d. to 15d.	11d. to 12d.						
Average	•• ••	20d. to 23d.	12d. to 13d.	9d. to 11d.						
Wasty and Inferio	or	13d. to 15d.	8d. to 9d.	6d. to 7d.						
Extra Super Lam	bs	30d. to 34d.	20d. to 22d.	16d. to 19d.						
Super Lambs		24d. to 28d.	15d. to 17d.	12d. to 14d.						
Good Lambs	•• •	17d. to 20d.	11d. to 13d.	9d. to 11d.						
Average Lambs	•• ••	10d. to 16d.	6d. to 10d.	5d. to 8d.						
nferior Lambs	•• . ••	8d. to 10d.	4d. to 6d.	3d. to 4d.						
GREASY CR	OSSBRED	-								
Extra Super Come	ebacks	26d. to 29d.	16d. to 19d.	13d. to 16d.						
Super Comebacks		23d. to 25d.	14d. to 15d.	12d. to 13d.						
Fine Crossbred	•• ••	20d to 22d.	12d. to 14d.	10d. to 12d.						
Medium Crossbred	1	15d. to 18d.	9d. to 11d.	7d to 9d.						
Coarse Crossbred	and Lincoln	10d. to 13d.	6d. to 8d.	41. to 6d.						
Super Fine Crossb	red Lambs	24d. to 26d.	15d. to 17d.	12d. to 14d.						
Good Crossbred L	ambs	18d. to 20d.	11d. to 12d.	9d. to 10d.						
Coarse and Lincol	n Lambs	13d. to 15d.	8d. to 9d.	5d. to 7d.						

Class of Wool.	Average Price per lb. in-					
	1928-29.	1929-30.	1930-31.			
Scoured.						
Extra Super Fleece Super Fleece Good Fleece Average Fleece	40d. to 44d. 36d. to 40d. 30d. to 34d. 25d. to 28d.	24d. to 26d. 22d. to 24d. 18d. to 19d. 15d. to 17d.	20d. to 22d. 18d. to 20d. 15d. to 17d. 12d. to 14d.			
RECORD PRICES FOR THE SEASON.						
Greasy Merino Fleece , Comeback Fleece , Merino Lambs , Comeback Lambs Scoured Fleece	47d. 301d. 371d. 30d. 48d.	$37\frac{1}{2}$ d. 21d. 24 $\frac{3}{2}$ d. 22d. $35\frac{3}{2}$ d.	$31\frac{1}{2}d.$ $18\frac{1}{2}d.$ $18\frac{1}{2}d.$ $17\frac{3}{2}d.$ $34\frac{1}{4}d.$			

PRICES OF WOOL, 1928-29 TO 1930-31-continued.

Tables containing information relating to the numbers of flocks of flocks in districts, the sizes of flocks, and the number and sizes of flocks on various holdings, will be found on pages 586 to 588 of the 1928-29 Year-Book.

Live Stock in Australia and New Zealand. In the following statement are given the numbers of horses, cattle, sheep and pigs in the various Australian States and New Zealand, according to the latest available

figures :---

		Cat	tle.		Pigs.	
State, &c.	Horses,	Dairy Cows.	Other,	Sheep.		
Victoria	379,872	669,132	760,788	16.477.995	281,245	
New South Wales	524,512	1,094,186	1,746,287	49,870,000	334,331	
Federal Capital Terri-						
tory .	815	4,2	40	183,077	37	
Queensland	481,615	724,323	4,739,401	22,542,043	217,528	
South Australia	183,529	109,672	109,313	5,980,959	82,991	
Northern Territory	33,363	718,	644	15,838	327	
Western Australia	156,973	85,725	727,119	9,882,761	100,664	
Tasmania .	32,700	76,825	153,429	2,119,606	54,556	
New Zealand	295,743	1,601,633	2,478,892	29,792,516	476,194	

LIVE STOCK IN AUSTRALASIA.

The returns for 1930-31 show that there were in that Bee-keeping. year 2,375 bee-keepers, who owned 56,090 frame and 5,071 box hives, producing 2,755,055 and 49,131 lbs. of honey respectively, and 30,478 lbs. of beeswax. The number of bee-keepers owning 20 hives and upwards was 561, as compared with 558 in the previous season. In 1930-31, the quantity of honey produced in the Wimmera district was 1,228,178 lbs., in the Northern district, 581,127 lbs., and in the Western district, 532,294 lbs. The more important particulars of the industry for the last five years are given below:—

Season ended May-		eason ended May		Number of Hives.	Honey produced.	Beeswax produced.	
					lbs.	lbs.	
927	••	••	2,968	54,123	2,370,310	33,238	
928	• • •		2,521	52,748	2,992,860	34,358	
929	••		2,284	55,247	4,181,571	49,675	
930	·	•••	2,394	53,715	3,097,805	29,682	
931			2,375	61.161	2,804,186	30.478	

BEE-KEEPING, 1926-27 то 1930-31.

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. The following are the amounts spent during the last five years :---

EXPENDITURE ON DESTRUCTION OF VERMIN AND NOXIOUS WEEDS, 1926–27 TO 1930–31.

	Year.	•	From Revenue.	Wire Netting Advance from Loan Funds.	
			 £	£	
1926-27	62.1		 101,929	32,337	
1927-28			99,184	32,635	
1928-29			 91,377	55,198	
1929-30	••	••	 76,277	20,538	
1930-31	••		 61,086	41,182	

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 are made from Loan Funds.

A complete system, administered by an officer called the Superintendent under the Vermin Destruction Act, exists for effectually keeping rabbits under control.

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

The quantity of rabbits, hares, and wild-fowl sold at the ^{at} Melbourne Fish Market in each of the last five years was ^{et.} as shown in the following statement :---

RABBITS, HARES, AND WILD-FOWL SOLD AT THE MELBOURNE FISH MARKET, 1926-27 to 1930-31.

Year ended June—		Rabbits.	Hares.	Wild-fowl.		
1927	••	••	••	pairs. 1,640,028	brace. 78	brace. 20,406
1928	••	••		1,697,316		9,054
1929	••	••		1,594,020	Nil	11,316
1930	••			1,347,168	Nil	7,422
1931	••	•• •		935,396	Nil	1,368

* Included with rabbits.

Frozen rabbits, ac., rabbit and hare skins have been exported to oversea exported. countries, the numbers and values for each of the last five years being as follows:---

RABBITS AND HARES AND RABBIT AND HARE SKINS EXPORTED OVERSEA, 1926-27 to 1930-31.

Year ended June-		Frozen Rabbi	ts and Hares.	Rabbit and Hare Skins.		
I Car Chidey Sunc		Quantity.	Value.	Quantity.	Value.	
1927	••	pairs. 403,147	£ 44,999	lbs. 2,211,153	381, 334	
1928	••	527,988	44,563	2,896,685	549,802	
	•••	1,624,279	136,273	2,682,567	604,842	
1930	•••	1,474,898	12 3,49 2	2,604,601	441,074	
1931		2,308,703	157,665	2,231,117	143,672	

FISHERIES.

Numbers of men and boats engaged in the fishing men and boats industry at the different fishing stations throughout the engaged in State are given in the following table for the year 1930-31:--

VICTORIAN FISHERIES -- MEN AND BOATS EMPLOYED, 1930-31.

Fishing Stations.	Number	Bo	Value of Nets and other	
n an Arden ann a' Chaile an Ann an Arainn Anns	of Men.	Number.	Value.	Plant.
			£	£
Anderson's Inlet	15	8	387	267
Apollo Bay	10	1	150	30
Barwon Heads and Ocean Grove	10	8	1,135	187
Brighton	19	11	567	98
Corner Inlet, Weishpool, Toora, and				
Port Franklin	97	61	8,460	3.004
Dromana and Rosebud	31	18	1,228	336
Frankston	22	13	306	346
Geelong	149	60	5,132	1,231
Gippsland Lakes	200	162	10,681	5,032
Kerang	10	2	1 S. Ó.11	60
Lake Boga	3		· · · ·	
Lorne	18	5	260	101
Mentone	18	1 11	317	137
Mordialloc, Chelsea, and Carrum	140	46	. 2.000	1.563
Mornington	46	38	3,267	881
Portarlington and St. Leonards	74	50	5,890	1,330
Portland	47	25	6,364	477
Port Albert	62	48	3,863	1.379
Port Campbell	3	3	147	19
Port Fairy	62	40	10,615	449
Port Melbourne	39	23	1.782	584
Queenscliff	133	69	17,326	1,983
Sandringham and Black Rock	27	16	1.299	247
Same to Dantage and Dwe	83	49	5,534	1,052
Sorrento, Portsea, and Kye	35	15	932	1,801
π.	21	l îi	295	86
Warrnambool	18	$\hat{12}$	573	126
Werribee	17	7	346	103
Waranga Basin	8	4	37	36
Western Port (Cowes, Hastings, Grant-		× ×		
ville, Flinders, San Remo, and Tooradin)	151	115	19,561	3.309
Williamstown and Altona	65	25	1,714	556
	10	6	174	44
Wonthaggi				
Total	1,643	962	110,353	26,854

Melbourne The quantities and values of fish sold in the Melbourne Fish Market. Fish Market during each of the years 1928-29 and 1930-31 were as shown in the next table :--

			1929-8	30.	1930-31.		
			Quantity.	Value.	Quantity.	Value.	
				£		£	
Fresh Fish	(Victorian)	lbs.	10,962,450	159,869	11,768,225	147,103	
Crayfish		doz.	35,919	31,392	36,459	18,229	
Imported	Fish (fresh						
or froze	n)	lbs.	5,719,976	148,149	3,530,582	87,483	
Oysters	••	bags	9,733	24,332	9,575	19,150	
Tot	tal	* 1. 1. * * • •	••	363,742	••	271,965	

FISH SOLD IN THE MELBOURNE FISH MARKET, 1929-30 and 1930-31.

In addition to the above, 529 cwt. of smoked fish, and 63,300 lbs. of prawns were sold in this market in 1930-31.

Victorian fish sold. The quantity and value of fish caught in Victorian waters and sold in the Melbourne and Ballarat markets and elsewhere in 1930-31 were as follows :---

		Quant	ity.	Value.	
Markets.		Fish.	Crayfish.	Fish.	Crayfish.
Ballarat	•	lbs. 11,768,225 421,981 550,591	doz. 12,406 955 842	£ 147,103 5,314 6,883	£ 6,203 476 421
Total .	•	12,740,797	14,203	159,300	7,100

VICTORIAN FISH SOLD IN 1930-31.

Fish 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 last two years are given in the following statement:—

	1929	-30.	1930-31.	
•	Quantity.	Value.	Quantity.	Value.
Fish-		£		£
Fresh or Frozen lbs.	2.663.235	67,788	1,746,584	42,083
Smoked or Dried (not Salted),	34,877	2,041	9,861	760
Oysters in the Shell	508	420	3,793	1,815
Potted or Concentrated, &c		25,997		9,897
Preserved in tins, &c lbs.	6,993,170	335,774	3,453,151	126,897
N.E.I cwt.	2,155	6,274	1,999	5,232
Total		438,294		186,684

FISH IMPORTED, 1929-30 AND 1930-31.

Of the 1930-31 oversea imports of fish preserved in tins, 2,169,471 lbs. came from Canada, 744,672 lbs. from the United Kingdom, 133,729 lbs. from Norway, and 201,969 lbs. from the United States of America.

Agriculture in The figures relating to agriculture and live stock in Victoria and Great Britain (England, Wales, and Scotland) Great Britain. in 1930 are, for comparative purposes, placed side by side in the table which follows :--

			•	Victoria.	Great Britain.
••	••		acres	56,245,760	56,208,959
••	••		bushels	53,814,369	41,416,000
			.	6,893,827	111,832,000
			1	1.983.130	35,128,000
					2,056,000
					3,603,000
l swedes					13,753,000
				5,167	5,463,000
	• •			1,605,900	8,823,000
				379.872	1,117,669
					7.085.775
	1.1				23,765,394
					2,453,510
	 l swedes	1 swedes		bushels y y y tons I swedes y y No y	acres 56,245,760 bushels 53,814,369 , 6,893,827 , 1,983,130 , 153,124 , 153,124 , 153,124 , 3,003* , 5,167 , 1,605,900 , 1,429,920 , 1,429,920 , 16,477,995

AGRICULTURE AND LIVE STOCK IN VICTORIA AND GREAT BRITAIN, 1930.

* Includes beet, carrots, and parsnips.

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 be obtained in the prescribed manner, and mining leases giving the right to enter on private land for mining purposes may be issued to another than the owner.

Miners' The taking out of a "miner's right" entitles the holder to prospect for gold on Crown lands. The right may be had on payment of a sum of 2s. 6d. per annum and remains in force for any number of years not exceeding fifteen The holder is entitled to take possession for mining purposes of a defined parcel of Crown lands, which is called a "claim." The revenue in 1930 -31 from miners' rights was £3,522.

Mining Leases. a term not exceeding fifteen years at a yearly rental of 2s. 6d. per acre. For mining leases of land to be worked by means of dredging or bydraulic sluicing the yearly rent is 5s. per acre. Other mineral and coal mining leases are also issued at varying rates. The revenue from these sources in 1930-31 was £4,528.

Area The area of Crown and private lands under occupation occupied tor for mining purposes on 31st December, 1930, was 71,629 acres. The subjoined table shows the area being worked for different minerals :--

AREA UNDER OCCUPATION FOR MINING PURPOSES, 31st DECEMBER, 1930.

10 500		10
		10
		53
	Limestone and Clay	41
	Magnesite	114
57		6
27	Molybdenite	118
	Oil	1,422
34	Oil and Gas	43,856
4	Oil. Gas. and Bitumen	436
3		7
		6
		38
•		51
0		10
	FD .	723
· · · · · · · · · · · · · · · · · · ·		57
		25
		158
	water Right Licences	440
		-1 000
20	Total	71,629
	27 6 34	11,556* Limestone 1,262 Limestone and Clay 100 Magnesite 57 Marblestone 27 Molybdenite 28 Oil and Gas 34 Oil and Gas 4 Oil, Gas, and Bitumen 9 Sand 9 Sand 9 Sand 1 Tin 18 Tin and Gold 7 Tailings Licences 310 Water Right Licences

(Crown Land and Private Land.)

* Includes State Coal Mine Area.

Certain gold mining leases include the right to mine for minerals. Certain mineral leases include the right to mine for gold. Mining development. Government, not only in the way of financial assistance but also by means of geological surveys and boring. Apart from the annual expenditure of the Mines Department from consolidated revenue, of which a statement is appended, portions of surplus revenues of past years amounting to £85,000 had been expended or advanced for developmental purposes from 1st July, 1899, to 30th June, 1931. Since 1st July, 1899, £520,421 has been apportioned from loan receipts and expended on mining development; but, apart from £249,399 expended on the State Coal Mine during the years 1909 to 1925, no loan money has been allotted for development for 25 years.

STATE EXPENDITURE ON MINING, 1926-27 to 1930-31.

diture from Consolidated Powonus

petro de la companya	Expenditure from Consolidated Revenue.							
Item.				<u>.</u>				
	1926-27.	1927-28.	192829.	1929-30.	1930-31.			
<u> </u>		·			-			
	£	£	£	£	£			
Mines Department	25,687	24,900	23,649	23,182	21,556			
State Coal Mine	605,218	621,316	729,820	688,253	551,990			
Fund and Depreciation Fund	54,555	73,567	41,847	130,279	19,839			
Diamond drills for prospecting	12,864	13,323	15,519	9,955	5,811			
Testing plants	2,378	2,980	3,372	3,443	2,499			
surveys of mines	3,791	3,973	3,917	3,567	2,681			
Advances to companies, &c.,	1				1.1.1.2.17.3			
boring for gold, coal, &c	10,678	5,309	3,029	4,753	635			
Miscellaneous	2,065	1,708	1,786	1,943	1,909			
Total	717,236	747,076	822,939	865,375	606,920			

The advances from loan moneys and revenue to mining companies to 30th June, 1931, for the development of mining, totalled £285,705 (£62,740 from loan moneys, and £222,965 from revenue) of which sum £43,767 had up to that date been repaid, £53,604 realized, and £165,585 written off, leaving £22,749 outstanding. Interest received during 1930-31 amounted to £70, and interest outstanding on 30th June, 1931, to £4,487.

Total mineral production. The mineral production of the State (excluding salt) is summarized in the subjoined statement, which contains particulars of the recorded production of all metals and minerals up to the end of the year 1930 :---

TOTAL MINERAL PRODUCTION TO 31st DECEMBER, 1930.

	Recorded d	uring 1930.	Total Recorded	to end of 1930.
			7	
Metals and Minerals.		······		· · · · · · · · · · · · · · · · · · ·
and the second	Quantity.	Value.	Quantity.	Value.
	<u>, 1997</u> , 2014, 2014	tang tang ta		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -
	Fine ozs.	ן. היינים א ר היינים	Fine ozs.	Bart E rg ^{art} .
Gold	24,119	102,456	71,348,924	303,070,257
그렇게 이 것이 많이 있는 것이 많이	6 813*	102,400	1,468,455*	223,104
Silver	1 or		30,577	7,880
Platinum	- mage	a.	311	1,671
Diamonds				128
Sapphires, &c.				630
	tons.	i a de la composición	tons.	Vac Park I. P
Coal, black	703,487.	807,699	14,600,187	11,642,682
"brown .	1,831,507	173,713	9,332,747	1,426,752
Ore-copper	• •	••	18,740	218,620
" tin	••	an state i se se s	17,0971	977,641
" antimony		••	$104,276\frac{1}{2}$ †	612,078
" silver-lead	••	••	804	5,992
"iron	••	••	5,434	12,540
" manganese	1	· · · ·	422	2,009
Wolfram	- 000		118	11,785
Gypsum	5,809	1,610	151,871	100,898
Magnesite	63	239	2,051	6,312 50,563
Diatomaceous earth	1,951	1,792	39,129 8,657	33,137
Pigment clays	•••	·· • •	4,496	5,503
Phosphate rock		1. **. *	15,781	16,704
Molybdenite	••	•••	8681	30,911
Fluorspar	••	••	623	1,888
Jarosite (Red Oxide)			109	1,359
Bauxite	789	769	2,449	4,088
Bluestone, freestone,				
granite, &c.‡		324,811	••	11,459,702
Limestone, &c.§		and a second	is -	
그 영화는 말 그 방법을 하는 것이 하는 것이 같아.	1997 - 1998 - 	<u> </u>	ter en	. Andrew Marine Starter and
Total ,.		1,413,154		329,924,834

• Extracted from gold at the Melbourne Mint. + Concentrates. ‡ From 1866 only. • § Record from 1900.

NOTE .--- The value of gold as shown above is based on the average value of Victorian gold received at the Melbourne Mint.

Gold raised in Victoria.

The quantities of gold raised in Victoria in different periods are shown in the next table :---

Period.		Quantity * (Gross ozs.).	Period.	Quantity (Fine ozs.).		
1851-60		23,334,263	1916-20		905,561	
1861-70		16.276.566	1921-25		421,250	
1871-80		10,156,297	1926		49,078	
1881-90		7.103.448	1927	(38,538	
1891-1900		7,476,038	1928		33.917	
1901-10		7,095,061	1929		26,275	
1911-15		2,161,349	1930		24,119	

GOLD RAISED IN VICTORIA, 1851 TO 1930.

* Gross ozs. 1851-1900.

The yield has been on the down grade since 1906, the return for the State for 1930 having been the lowest since 1851. The quantities in fine ounces raised in the other principal gold-producing States in 1930 were 416,369 ounces in Western Australia, 7,821 ounces in Queensland, and 12,493 ounces in New South Wales. The total production of gold in the world in 1930, as shown in the United States Mint Report, was 20,160,355 fine ounces.

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

DISTRICT YIELDS OF GOLD, ALLUVIAL AND QUARTZ, 1929 AND 1930.

· · · · · · · · · · · · · · · · · · ·			1929.			1930.				
Mining District.		Alluvial.	Quartz.	Total.	Alluvial.	Quartz.	Total.			
		OZ9.	028.	OZR.	ozs.	OZS.	0 2 8.			
Ararat and Stawell		110	2 9 0	400	188	402	590			
Ballarat		490	280	770	578	459	1,017			
Beechworth		2,332	6.540	8.872	1.898	4.506	6,404			
Bendigo		585	13,350	13,935	688	13,927	14,615			
Castlomaina		1,150	1.740	2,890	1.242	984	2,226			
Ginneland		400	765	1.165	275	148	423			
Maryhorough		400	350	750	475	340	815			
Total		5,467	23,315	28,782	5,344	20,746	26,090			

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

	Government Batteries.			Cyanidation.			Dredging and Sluicing.			
Year.	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.	Tin Ob- tained.
1928	31	tons, 476	0Z. 618	7	tons. 7,748	oz. 1,323	19	cub. yds. 539,200	07. 3,554	tons. 29
1927	31	643	999	8	11,060	1,672	9	900,500	4,440	44
1928	81	1,369	1,405	8	6,397	1,199	6	1,227,000	5,689	61
1929	31	1,810	1,478	10	4,047	772	6	682,400	1,774	14
1930	33	2,700	1,817		•	*	6	193,000	828	1

GOVERNMENT BATTERIES, CYANIDATION, AND DREDGING AND SLUICING, 1926 TO 1930.

* Not available.

The first battery was erected in 1897, since which date 82,089 tons of ore have been crushed for 58,560 ounces of gold.

Up to the end of 1929, 16,032,135 tons of tailings had been treated by the cyanide and other processes, and 1,286,695 ounces of gold had been won therefrom.

Since the inception of dredge mining, 1,903,826 ounces of gold and 1,797 tons of tin have been won by this system.

Bituminous coal is found in three main areas in the Southern portion of the State, viz., the Wannon, the Otway, and South Gippsland. The Wannon area is comparatively unprospected, owing to almost the whole of the land having been.sold. In the Otway area bores have been sunk without disclosing seams of payable thickness. The South Gippsland area occupies about 2.000 square miles, and coal mining is being carried on at Wonthaggi, Kilcunda, Outtrim, Jumbunna, and Korumburra.

Brown coal area of 1,200 square miles, and are reputed to be the thickest known. At Morwell, 780 feet of coal were passed through in a bore 1,010 feet deep. It is estimated that the average thickness of the coal in the deposits at Morwell, Alberton, and Altona is 50 feet, and that the total deposits in the State amount to 11,000,000,000 tons. These deposits are practically untouched, as the total output of brown coal for all years has been only 9,332,747 tons, valued at £1,426,752, nearly all of which has been produced at the mines at Morwell and Yallourn under the control of the State Electricity Commission.

The State Coal Mine at Wonthaggi, on the Powlett River, The State was opened in November, 1909. In June, 1911, the control coal-field. of the mine was transferred to the Railways Commissioners. The area reserved for mining is about 17 square miles. Boring has proved that about 28,000,000 tons of coal existed in the central area of 5 square miles. The output of coal for the year ended 31st December, 1930, was 637,261 tons, valued at £732,850. The total output up to the end of 1930 was 9,935,066 tons, valued at £8,591,557. The average number of men employed at the mine throughout the year ended 31st December, 1930, was 1,795.

The quantity of coal, exclusive of brown coal, raised in Victorian Victoria up to the end of 1930 was 14,600,187 tons, valued production at £11,642,682. The total quantity raised prior to 1892, and value. the average annual production for different periods from

1892 to 1930, and the value per ton at the pit's mouth, are given in the following table :---

Period.	Average Annual Production.	Average Annual Value per ton at pit's mouth.
	tons.	s. d.
Prior to 1892	*77,914	18 8
1892–1900	184,517	9 11
1901-10	168,548	11 8
1911-15	608,512	92
1916–20	437,833	15 11
1921-25	520,705	22 8
1926	591,001	22 3
1927	684,245	22 4
1928	658,323	22 2
1929	703,828	23 1
1930	703,487	23 0

COAL PRODUCTION AND VALUE PER TON.

Total production up to date mentioned.

The quantities of coal produced in the other States in 1930 were as follows :-- New South Wales, 7,093,055 tons; Queensland, 1,094,676 tons; Western Australia, 501,425 tons; and Tasmania. 138,716 tons.

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

days.

coal

		Gold Mines		Coal Mines.			
, Year.	Miners Employed.	Persons Killed.	Persons Injured.	Miners Employed.	Persons Killed.	Persons Injured.	
1926 1927	1,967	5	14	2,939	2	6	
1927 1928 1929	1,126 655 864	2 2	1	2,492 2,224 2,251	2 2	5 8	
1930	942	••	1 . ·	2,267	2	13	

MINING ACCIDENTS, 1926 TO 1980.

As a result of gold mining accidents during the last five years 10 persons were killed, and 17 were injured and rendered unfit for work for a period of at least fourteen days. These numbers were equivalent to annual rates of 1.80 and 3.06 respectively per 1,000 employed. Coal mining accidents during the same period accounted for 12 deaths, and 39 injuries resulting in disablement for at least fourteen days, these being equal to yearly rates of 0.99 and 3.20 respectively per 1,000 employees.

Quarries. The quantity and value of stone raised from Victorian quarries during the last five years were as set forth in the following table :—

a sugaration is an		Qua	ntity of Stor	ne Operated o	on	Approximate
Year ended June—	Number of Quarries.	Bluestone.	Sand- stone.	Granite.	Limestone.	Value of Stone Raised.
					State of the state	
1927	116	c. yds. 1.941.739	c. yds. 8,368	tons. 6.848	c. yds. 308.095	£ 700,200
1928	108	1,797,523	3,904	5,091	289,478	652,800
1929	99	1.487.410	3,633	6,893	250,253	602,900
1930	84	1,515,559	8,307	10,846	255.015	624,600
19 31	81	828,406	6,471	8,666	145,973	324,800

QUARRIES, 1926-27 to 1930-31.

In 1930-31 the number of persons employed in quarries was 1,216, and the wages paid amounted to £235,094. For 1931, the figures do not include the employees and wages connected with asphalting and tar paving works, particulars of which will be found on page 377.

MANUFACTURING IN VICTORIA.

It can be said with confidence that the State of Victoria has advantages which should make possible great development in manufacturing industries.

A comparatively compact territory with a temperate climate producing a rich variety of raw materials, an intelligent labour supply supported by almost unlimited power resources, and a growing home market served by an ever-increasing network of railways and other communications leave few other essential requirements except the attraction of capital into the industries, the efficient organization of production, and the extension of markets for the product.

Statistical records of factories date from 1850, when the progress. 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 home market, until in 1930–31 the total number of factories was 8,199, employing 126,016 persons.

Figures for the years 1927–28, 1928–29, and 1929–30 showed a decreasing tendency obscured to some extent by the inclusion of statistics relating to bakeries which had not previously been collected.

For the year 1930-31, however, the figures show that a decided check has been given to industrial expansion in Victoria due both directly and indirectly to the world-wide fall in values of primary products. The Australian manufacturer depends almost wholly on the local market and this has been seriously affected by the reduced spending of primary producers and others. This reduced demand, superimposed upon already falling prices due to lower costs of raw materials, has tended to thrust further downward the value of output of secondary industries.

The volume of production, however, has been sustained and even increased in some industries, notably tobacco and flour, and in butter factories, but in other industries, particularly brick manufacturing and sawmilling, and others connected with the building trade, severe decreases in quantity output have occurred.

In comparison with the year 1929-30 the number of factories increased by four, the average number of persons employed decreased by 24,993, and the value of output decreased by £29,385,304 (23.9 per cent.). This latter amount was contributed to by a fall of £16,390,192 (24.5 per cent.) in the cost of raw materials, of £7,237,846 (23.7 per cent.) in salaries and wages paid, and of £846,252 (24.6 per cent.) in the cost of fuel and light.

The appended table summarizes particulars which indicate the growth of manufacturing industry since 1911. The figures for the past four years have been increased by the inclusion of statistics relating to the bakery industry which are referred to above, and allowance for this should be made when comparing the figures for the last four years with those of previous years.

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	8	4	5	6	7
		si si s	£	£. €	£	£
1911	5,126	111,948	18,257,889	8,911,019	25,029,525	41,747,863
1912	5,263	116,108	19,457,795	10,102,244	27,002,302	45,410,773
1913	5,613	118,744	20,775,738	10,714,336	28,465,699	47,936,647
1914	5,650	118,399	21,975,646	11,099,940	28,986,694	49,439,985
1915	5,413	113,834	22,529,072	11,036,345	30,728,743	51,466,093
1916-17	5,445	116,970	23,784,289	11,833,517	37,103,350	60,047,284
1917-18	5,627	118,241	25,460,282	12,502,601	42,133,636	67,066,715
1918-19	5,720	122,349	27,318,735	14,080,403	52,098,737	80,195,677
1919-20	6,038	136,522	30,804,520	17,702,173	65,563,104	101,475,363
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	106,243,181
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	113,921,927
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	7,690	161,639	63,850,005	31,822,589	69,816,935	127,397,951
1927-28	8,245	160,357	67,507,020	32,087,851	69,637,778	128,465,317
1928-29	8,197	156,568	69,909,370	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	93,425,795

NOTE. - Up to the year 1915 inclusive the statistics relate to the calendar year; for subsequent years they relate to the year ending 30th June.

Prior to 1924-25, column 5, Salaries and Wages Paid, was not inclusive of amounts taken by working proprietors as drawings.

Factories and Wages Board Legislation. 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 VII., "Social Condition," of this Year-Book. 8527.--24

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.

Added Value. In estimating the relative importance of various industries or the value of manufacturing industry as a whole, the method used is to calculate the value added in the process of manufacture, 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 an inaccurate idea would be obtained by using the total value of output of manufacturing industries in year to year comparisons, 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. 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.

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. Another important factor is the quantity and efficiency of the machinery used in the process of manufacture.

The following table shows the value added per person employed in each class of manufacturing industry for the year ended 30th June, 1931 :—

			1	States of the second
	Class of Industry.	Average Number of Persons Employed.	Value Added.	Value Added per Person Employed.
	6.4.2° ×			 .
			£	\mathfrak{L} s. d
1.	Treatment of non-metalliferous			
	mine and quarry products	1,505	677,410	450 2 2
	Bricks, pottery, glass, &c.	1,831	621,708	339 10 11
	Chemicals, dyes, explosives, paint, oils, and grease	4,723	2,715,298	574 18 2
т.	implements and conveyances	26,193	7,468,526	285 2 8
5.	Precious metals, jewellery, and			
	plate	941	241,297	256 8 6
6.	Textiles and textile goods (not			
	dress)	14,719	3,380,396	229 13 3
7.	Skins and leather (not clothing or			
	footwear)	2,738	881,772	$322 \ 1 \ 0$
	Clothing	30,157	5,958,917	197 11 11
	Food, drink, and tobacco	20,024	9,408,144	469 16 10
	Woodworking and basketware	4,483	1,314,056	293 2 5
	Furniture, bedding, &c	2,674	641,435	239 17 7
12.	Paper, stationery, printing, book-			
	binding, &c	10,641	`3,238,733	304 7 3
	Rubber	2,051	666,826	325 2 5
	Musical instruments	298	91,658	307 11 7
	Miscellaneous products	1,052	294,879	280 6 1
16,	Heat, light, and power	1,986	1,812,913	912 16 11
	Total	126,016	39,413,968	312 15 5

VALUE ADDED, 1930-31.

The table hereunder has been compiled in an endeavour to supply comparable figures of the value added per employee in Victorian factories for each of the past ten years.

In recent years various alterations have been made in the method of arriving at this important concept, following recommendations by Australasian statisticians in annual conferences, the objects of which are to improve the statistics and to obtain uniformity throughout the Commonwealth.

The result is that any calculations of added value based on statements appearing in *Year-Books* of earlier date than 1928–29 would not be strictly comparable. The value added per employee has been recalculated, using the year 1928-29 as base and adjusting the previous years.

Prior to 1927-28, bakeries were not included, but the effect of their inclusion is relatively small. In 1927-28, value added per employee in bakeries was £371 12s. 11d., in 1928-29 £410 18s. 8d., in 1929-30 £415 4s. 1d., and in 1930-31 £377 7s. 1d. To exclude these from the aggregate figures would reduce the added value per employee to £334 14s. 3d. in 1927-28, to £337 2s. 9d. in 1928-29, to £337 18s. 9d. in 1929-30, and to £311 5s. 3d. in 1930-31.

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.
1920-21	106,008,294	68,878,822	37,129,472	140,743	263 16 2
1921-22	106,243,181	63,978,488	42,264,693	144,876	291 14 7
1922-23	111,286,343	66,459,537	44,826,806	152,625	293 14 1
1923-24	113,921,927	66,410,960	47,510,967	156,162	304 4 10
1924-25	118,177,398	69,611,632	48,565,766	154,158	315 0 9
1925–26	119,986,439	71,784,661	48,201,778	152,959	315 2 7
1926-27	127,397,951	74,774,770	52,623,181	161,639	325 11 2
1927-28	128,465,317	74,667,052	53,798,265	160,357	335 9 9
1928-29	127,897,463	74,872,184	53,025,279	156,568	338 13 5
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

VALUE ADDED IN MANUFACTURING.

* 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.

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

Production of different industries, 1930-31. This year a new classification of industries for statistical purposes, as shown in the next table, has been adopted by the Statisticians of Australia. A factory is defined as an establishment employing on the average four persons

or more, or an 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. The table shows for the year 1930-31 the number of factories in each industry, the horse-power used, the average number of persons employed, the wages paid, the values of materials and fuel and light used, and the value of articles produced or work done, and has been compiled from returns rendered compulsorily by all factory proprietors:--

FACTORIES-POWER, WORKERS, WAGES, ETC., AND PRODUCTION, 1930-31.

			A	verage Num Em	ber of Paployed.	ersons		Va	lue of	
	Factories.	ower of	М	Males. Fo		males.			a the second second	
Nature of Industry.	of	Actual Horse-power Engines used.	Working Proprietors.	Employees.	Working Proprietors.	Employees.	Wages paid.	Fuel and Light used.	Materials used, including Containers.	Articles Pro duced or Work Done.
	Number	Actu Engi	Prop	Emp	Worl Prop	Emp				
Class I.—Treatment of Non-metalli- ferous Mine and Quarry Products.							£	5 £ 2 8	₩2 £	£
Lime, plaster, and asphalt Marble, slate, &c Cement and cement goods Other	$65 \\ 40 \\ 37 \\ 6$	1,647 932 4,169 12,470	50 49 14 2	418 332 420 193	• • • • • •	11 8 6 2	100, 949 91,4 94 101,964 53,509	16,734 2,905 93,623 35,176	148,162 55,130 146,458 85,538	353,646 185,889 496,505 272,368
Total	148	19,218	115	1,363		27	347, 9 16	148,438	435,288	1,308,408
Class II.—Bricks, Pottery, Glass, &c.									*	
Bricks, tiles, and firebricks Sarthenware, china, and porcelain Hass, including bottles Aodelling, &c	44 21 21 7	6,848 1,352 2,420 9	22 17 13 11	567 488 582 36	••	27 46 21 1	120,390 100,943 146,169 10,777	46,704 26,592 41,692 148	28,53 9 20,74 9 112,364 3,669	261,215 209,628 434,862 16,244
Total	93	10,629	63	1,673	••	95	378,279	115,136	165,321	921,949

^oroduction.

Nature of Industry.	Number of Factories.	Actual Horse-power of Engines used.	Average Number of Persons Employed.							
			Males.		Females.				27 ° 60	
			Working Proprietors.	Employees.	Working Proprietors.	Employees.	Wages paid.	Fuel and Light used.	Materials used, including Containers.	Articles Pro- duced or Work Done.
							£	Ē	£	£
Class III.—Chemicals, Dyes, Explo- sives, Paint, Oils and Grease.										
Chemicals, drugs, and medicines Explosives White lead, paints, and varnish Oils, vegetable (including oilcake) Oils, mineral Boiling-down, tallow refining, and	54 8 20 20 8	3,551 863 493 226 462	17 14 6 5	588 346 68 89 193	3 	533 146 16 4 3	$231,509 \\113,081 \\21,328 \\16,624 \\45,314$	19,744 17,187 1,523 1,679 16,961	545,572 192,177 62,634 65,585 444,111	$1,080,210 \\ 449,148 \\ 114,853 \\ 115,420 \\ 754,027$
bone milling works	$23 \\ 18 \\ 7 \\ 25 \\ 6$	$1,124 \\ 569 \\ 2,022 \\ 500 \\ 640$	15 8 1 13 5	258 470 €03 173 275	•••	4 147 4 112 604	70,778 122,380 149,037 65,858 140,491	19,698 26,947 28,084 2,607 15,624	159,939 499,679 713,972 236,555 287,088	$\begin{array}{r} 295,860\\ 1,030,955\\ 1,264,394\\ 404,904\\ 649,148\end{array}$
Total	189	10,450	84	3,063	3	1,573	976,400	150,054	3,207,312	6,158,919

FACTORIES-POWER, WORKERS, WAGES, ETC., AND PRODUCTION, 1930-31-continued.

Class IV. — Industrial Metals, Machines, Implements, and Con-		a La status L								
veyances.		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -			1 A.			and the		
Smelting, refining, &c., of iron and steel	188	7,041	186	2,352	2	184	538,474	56,051	555,040	1,360,440
Engineering (not marine or electrical)	299	7,148	303	3,867	1	116	991,611	54.465	1.031.833	2,480,840
Electrical installations and apparatus	96	1,004	62	934		119	227.179	8,846	251.097	612,152
Tramcars and railway carriages, &c.	24	4,671		5,820		6	1,352,678	73,136	1,209,804	3,037,441
Motor vehicles and cycles-			[and]							
(i) Construction and assembly	26	519	6	* 449		13	100.638	4,421	17.382	162,335
(ii) Repairs	752	2,104	556	2,173		88	558,109	26,155	19,390	771.432
Motor-bodies	61	1,426	68	887		32	225,642	6.616	213.948	522,007
Horse-drawn vehicles	169	598	179	445		13	115,048	5,452	74,405	226,650
Cycle and motor accessories	12	406	11	123		14	27,715	2,108	25,247	67,916
Ship and boat building and repairing,						1 - T.T.		-,	<i></i>	01,010
marine engineering	10	1,746	9	303		1	74,365	3,659	20,136	106,293
Cutlery and small tools (not machine						-	. 1,000	0,000	20,100	100,200
tools)	26	257	23	112		6	28.078	1,389	8,160	48,459
Agricultural implements	73	2,590	65	1,886		83	418,845	28,974	357,492	938,990
Brass and copper	91	819	91	710		28	167,480	9,305	110,523	343,863
Galvanized-iron working and tin-						-0	101,100	0,000	110,020	010,000
smithing	102	1.065	87	1,399		267	303.497	14,317	513,491	1,009,825
Wireworking (including nails)	31	1,078	34	428		32	102,378	4,954	226.241	402,520
Art metal works	15	258	13	141		6	36,086	1,137	26,723	83,704
Stoves and ovens	23	604	28	312		15	69,701	6,278	54,885	173,529
Gas fittings and meters	7.	106	$\overline{2}$	213		1	51,497	1.776	31,753	108,449
Wireless apparatus	11	80	6	326		50	57.354	1,707	117,327	206,621
Other metal works	64	859	36	445		26	91,430	7,197	97.500	247,253
	2.000									
Total	2,080	34,379	1,765	23,325	3	1,100	5,537,805	317,943	4,962,377	12,910,719
Class V.—Precious Metals, Jewellery, and Plate.				,						
Jewellery	69	156	63	211	. 1	84	61.542	1.513	86,920	180,421
Watches and clocks	9	6	4	39			9,458	1,515	2,011	14,260
Gold, silver, and electroplate	35	665	32	452	•••	52	94,664	5,886	59,753	205,874
m -4-1					\'					·
10181	113	827	99	702	1	139	165,664	7,583	148,684	400,555
						<u></u>	·			

			Ave	erage Numt Emplo	per of Per byed.	rsons		Value	of	
	actories.	ower of	M	ales.	Fen	nales.				
Nature of Industry.	Number of Fa	umber of F ctual Horse agines used.	Working Proprietors.	Employees.	Working Proprietors.	Employees.	Wages paid.	Fuel and Light used.	Materials used, including Containers.	Articles Pro- duced or Work Done.
							£	£	£	£
Class VI.—Textiles and Textile Goods (not Dress).										
otton	12	465	4	113		328	65,258	3,189	144,522	255,473
wool scouring)	$46 \\ 199 \\ 10$	$14,539 \\ 2,583 \\ 2,298$	$\begin{array}{c} 31\\124\\7\end{array}$	2,777 1,700 452	1 61 	3,373 4,901 295	905,987 895,042 112,691	$\begin{array}{r} 132,807\\ 44,087\\ 10,378\end{array}$	1,629,668 1,660,988 297,536	3,289,288 3,186,368 534,260
anvas goods (tents, tarpaulins, and sailmaking) ags and sacks ther	$20 \\ 17 \\ 3$	$38 \\ 114 \\ 534$	18 13 	75 59 78		64 72 172	31,016 22,955 32,985	552 476 3,21 7	105,760 83,569 82,565	$\begin{array}{r} 168,235\\ 122,424\\ 151,540\end{array}$
								· · ·		
Total	307	20,571	197	5,254	63	9,205	2,065,934	194,706	4,004,608	7,707,588

FACTORIES-POWER, WORKERS, WAGES, ETC., AND PRODUCTION, 1930-31-continued.

									1		
and the second	1 1			1			$-\frac{1}{2}$ $-\frac{1}{2}$		(B) (D)	1	
Class VII.—Skins and Leather (not					1.1				1	1.1.2	
Clothing or Footwear).				41 - A			1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		•		
	1							ter en trateres e	1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -	1.000	
Furs, skins, leather—	1 · · ·]	÷	í	1. S.							
Furriers and fur dressing	57	103	56	131	13	209	61,396	1,255	179,377	281,240	
Fellmongery	16	756	8	231	· • •	••	57,628	8,572	354,486	488,675	
Tanning, currying, and leather			1						88 8 A. A. A.		
dressing	53	3,676	60	1,311	•• 2	35	322,373	28,641	988,910	1,517,087	
Saddlery, harness, bags, trunks, &c									124.54		
Saddlery, harness, and whips	10	54	11	80	••	25	19,577	230	24,638	52,336	٢.
Machine belting	5	59	2	42	•••	2	9,541	397	37,293	63,984	
Bags, trunks, other leather goods \dots	48	170	55	233	1	233	80,697	1,793	128,511	254,890	
D -4-1	189	4,818	192	2,028	14	504	551,212	40,888	1,713,215	2,658,212	
\mathbf{Total}	199	4,810	194	2,028	14	504	551,212	40,000	1,710,210	2,000,212	
Class VIII.—Clothing.		i. L								and the second second	
Outes VIIIOtoming.											
Tailoring and slop clothing	438	603	396	1.190	35	4,691	833,733	18,405	1,340,556	2,469,228	
Waterproof and oilskin clothing	8	81	4	54		165	29,669	878	45,844	88,226	
Dressmaking	366	542	106	242	266	4.649	634,925	9,938	1,189,995	2,077,261	
Millinery	76	95	17	70	24	1,214	146,464	2,936	252,567	472,016	
Shirts, collars, and underclothing	148	1.454	79	390	46	3,888	493,277	11,490	1.093,821	1,916,182	
Handkerchiefs, ties, and scarves	16	35	8	24	3	304	39,698	621	108,041	183,205	
Hats and caps	47	497	40	385	7	740	175.266	8,124	240,571	483,933	
Boots and shoes	175	2,812	205	4.459	9	3,949	1,400,624	29,857	1,917,444	3,974,195	
Boot repairing (including bespoke	1	_,_		_,		_,					
work)	415	476	383	270	1	10	111.696	2,995	75,749	233,171	
Boot accessories	27	610	23	316	۰	113	85,759	3,328	195,410	349,661	
Umbrellas and walking sticks	5	20	3	29		59	12,440	188	26,608	45,678	
Dyeworks and cleaning	28	422	30	199	5	209	80,470	9,771	24,506	157,177	
Other	22	196	17	99	7	. 725	102,602	1,666	197,677	383,651	
Total	1,771	7,843	1,311	7,727	403	20,716	4,146,623	100,197	6,708,789	12,833,584	
•• ••	1,111	1,040	1,011	1,141	403	20,710	4,140,020	100,107	0,100,100	1.,000,001	

•

Production

			Av	erage Num Empl	ber of Per oyed.	rsons		Value	e of—	•
2010 - 100 -	Factories.	ower of	M	ales.	Fer	nales.				
Nature of Industry.	Number of Fo	Actual Horse-power of Engines used.	Working Proprietors.	Employees.	Working Proprietors,	Employees.	Wages paid.	Fuel and Light used.	Materials used, including Containers.	Articles Pro- duced or Work Done.
Class IX.—Food, Drink, and Tobacco	o.						£	£	£	£
Grain milling	$\begin{array}{cccc} . & 35 \\ . & 24 \\ . & 135 \\ . & 468 \\ . & 9 \end{array}$	5,422 3,352 2,073 1,980 427	24 10 37 417 11	842 522 343 2,082 523	 2 74 1	$22 \\ 269 \\ 8 \\ 298 \\ 418$	$\begin{array}{r} 229,601\\ 162,248\\ 81,617\\ 652,387\\ 135,660\end{array}$	52,165 42,531 9,178 75,878 18,775	$\begin{array}{r} 2,802,160\\ 773,430\\ 60,983\\ 1,566,851\\ 267,285\end{array}$	3,461,548 1,315,704 193,620 2,745,322 581,656
lates) Jam, fruit, and vegetable canning . Pickles, sauces, and vinegar	. 58 . 27 . 13 . 19 . 165	5,255 1,583 451 1,974 7,994	58 12 10 22 18	1,177 820 123 451 1,938	11 1 	1,262 588 93 24 279	$\begin{array}{r} 396,298\\ 235,158\\ 41,596\\ 130,692\\ 542,374 \end{array}$	38,229 17,747 4,559 20,190 143,454	$\begin{array}{c} 1,012,401\\ 905,240\\ 117,044\\ 650,101\\ 6,599,879\end{array}$	1,776,852 1,395,741 221,822 954,873 8,077,608
tracts Condiments, coffee, and spices, &c. ce and refrigerating Aerated waters, cordials, &c. Breweries	$. 18 \\ 43 \\ . 58$	4,367 679 4,760 800 4,006 756	5 6 36 77 2	944 268 175 47 9 1,077 118	$\begin{array}{c} & 2 \\ & 2 \\ & 2 \\ & \ddots \\ & \ddots \end{array}$	$74 \\ 214 \\ 6 \\ 80 \\ 6 \\ 2$	250,067 84,831 58,306 131,605 369,463 33,495	27,357 7,033 33,878 6,373 51,378 12,230	1,628,637 375,998 15,323 219,399 808,133 120,497	2,118,757 561,563 170,522 461,943 1,935,542 291,299

FACTORIES-POWER, WORKERS, WAGES, ETC., AND PRODUCTION, 1930-31-continued.

	Malting	19	618	3	233	í	5	76,818	13,281	266,912	436,571
	Tobacco, cigars, cigarettes, and snuff	12	793	14	908	2	776	343,128	9,097	1,293,598	2,160,007
	Dried fruits	24	777	1	449		123	101.722	3,863	87,598	250,033
	Ice cream	56	800	19	97	2	24	27,791	7,339	76,361	154,914
	Sausage skins	6	32	5	222	· · ·	-1	56,870	675	79,704	163,944
	Other	19	3,247	4	716		56	177,269	57,588	3,522,159	4,149,973
		10	0,21		.10				0.,000	0,0==,100	1,110,010
	Total	1,333	52,146	791	14,507	98	4,628	4,318,996	652,798	23,249,693	33,579,814
		<u> </u>			<u> </u>						
							-			and the second	
	Class X.—Woodworking and Basket-			1.1		1 .		· · · ·	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
·	ware.									and the second second	
	Sawmills (forest)	149	3,236	-176	892		4	214,312	3,867	49,320	327,333
	Sawmills (town)	117	6,640	65	1.135		21	260.008	14.265	435.152	824,762
	Joinery	183	2,363	119	644		29	165,765	6,375	184,101	436,536
	Cooperage	11	428	7	228		1	72,689	1,572	55,452	159,965
	Boxes and cases	49	1,717	37	418	2	9	99.479	5,205	210,755	384,028
	Woodturning, woodcarving, &c.	81	1,302	64	343	-	14	78,284	4,096	75,724	194,177
	Basket and wickerware, seagrass and		1,002	01	010			10,201	1,000	10,121	101,111
	have have for an it is a first start of the	12	113	10	100		. 1	15,408	615	26,538	52,154
	T. 11		57	19	97		6	20,156	448	24,076	54,074
		3	64	4	25		13	5,444	1,203	5,822	15,456
	Other		04	Ŧ			10	5,444	1,200	0,022	10,400
	Total	616	15,920	501	3,882	2	98	931,545	37,646	1,066,940	2,448,485
				.				·	· · · · · · · · · · · · · · · · · · ·		
						1				2	
	Class XI.—Furniture, Bedding, &c.			en e	· · · · ·			and the second second			
		· · ·	**************************************				1		1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -		State of the
	Billiard tables, cabinet and furniture						1 · · · ·				1
	making, and upholstery	306	3,441	300	1,565	•••	143	344,988	14,254	403,121	895,596
	Bedding and mattresses	35	1,158	23	210	2	146	64,899	3,757	163,836	268,863
	Furnishing, drapery	17	53	5	57	2	118	27,241	450	51,447	96,723
	Picture frames	11	32	9	45	•••	9	11,375	266	11,711	27,527
	Window blinds, verandah blinds, &c.	9	18	6	12	•••	22	6,558	108	17,166	27,065
	m 1 3		4 700		1 000		438	455.001	10 095	647 991	1,315,774
	Total	378	4,702	343	1,889	4	438	455,061	18,835	647,281	1,310,774
		1	··								· · · · · · · · · · · · · · · · · · ·

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		of	A	verage Num Emp	ber of P loyed.	ersons		Valu	e of—	
Nature of Industry.	Factories.	power	N	lales.	Fe	males.				
	Number of Fa	Actual Horse-power o Bagines used.	Working Proprietors.	Em ployees.	Working Proprietors.	Employees.	· · · · · · · · · · · · · · · · · · ·	Materials. used including Containers.	Articles Pro- duced or Work Done.	
Class XII.—Paper, Stationery, Print- ing, Bookbinding, &c.							£	£	£	£
Invelopes, stationery, paper, paper boxes, bags, &c Newspapers, periodicals, &c eneral printing and bookbinding, &c.—	76 122	5,333 3,337	49 117	1,407 1,918	$\frac{2}{2}$	1,296 78	457,451 610,081	60,365 23,750	773,336 730,698	1,734,699 1,500,393
(a) Government	$3 \\ 348 \\ 25 \\ 5$	910 3,244 87 32	406 21 8	763 2,627 131 21	 	$286 \\ 1,123 \\ 10 \\ 2$	216,304 835,275 32,819 5,817	4,959 20,766 736 338	111,205706,4649,0231,784	386,218 1,966,167 49,628 9,782
lithography Dther	31 6	74 10	36 3	197 27	6 	93 7	68,420 7,014	2,019 46	28,000 2,232	120,483 12,426
Total	616	13,027	640	7,091	15	2,895	2,233,181	112,979	2,362,742	5,779,796
lass XIII.—Rubber Goods	113	11,926	77	1,209	••	765	394,201	69,861	646,354	1,412,297

FACTORIES-POWER, WORKERS, WAGES, ETC., AND PRODUCTION, 1930-31-continued.

Class XIV.—Musical Instruments.						4	1	1	la sue el	en de la composition de la composition La composition de la c
Pianos, piano-players, organs Other	$16 \\ 2$	321 270	9 	$\begin{array}{c} 212\\ 52 \end{array}$	••	$\begin{array}{c} 10\\ 15\end{array}$	46,858 14,943	1,086 1,725	43,673 17,585	$115,\!663 \\ 40,\!652$
Total	18	591	9	264	•••	25	61,801	2,811	61,258	156,315
Class XV.—Miscellaneous Products.										· · · · · ·
Brooms and Brushes	17	174	. 15	196	••	60	45,711	1,128	82,983	159,643
instruments	48	131	29	185	1	12	50,501	1,512	39,302	111,812
Toys, games, and sports requisites	28	324	26	213	2	77	57,512	2,453	106,097	213,244
Other	13	277	7	135	4	90	33,436	2,703	49,819	101,013
Total	106	906	77	729	7	239	187,160	7,796	278,201	585,712
Class XVI.—Heat, Light, and										
Power.					1. S. 1					
						1 N 1	and the second second			
Electric light and power—		107 000					101.000	000 500	074	1 1 40 1 2
(a) Government	11	185,069		$\frac{753}{269}$	•••	1	194,803	382,782	974	1,140,157
(b) Local authority (c) Companies	47 33	26,449 10,249		209		1 . I	74,390 37,592	50,162 62,365	••	$247,947 \\ 217,034$
(c) Companies Gas works—	- 33	10,249	5	155	••	••	51,092	02,305	••	217,034
(a) Local authority	. 9	92		65	•••	4	18,195	3,293	32,624	72,883
(b) Companies	28	2,957		752		ī	202,432	109,991	686,501	1,560,956
Other	.1	830		2	•••	•••	499	3,211	1,948	8,691
Total	129	225,646	5	1,974		7	527,911	611,804	722,047	3,247,668
Total all Classes	8,199	433,599	6,269	76,680	613	42,454	23,279,689	2,589,475	50,380,110	93,425,795

INDIVIDUAL INDUSTRIES.

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

$ \begin{array}{c c c c c c c c c c c c c c c c c c c $			1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Item.	1921-22.	1927-28.	1928-29.	1929-30.	19 3031.
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $	Number of persons engaged Horsepower of engines used Value of plant and machinery £ Value of land and buildings £ Salaries and wages paid. £	2,384 3,568 319,015 357,500 *501,604	1,8993,948399,160486,370476,559	1,8794,005366,680472,830466,000	1,838 3,840 336,835 454,580 449,027	53 1,406 3,676 309,960 455,415 322,373 322,373
Cow and ox hides 792,974 539,927 624,681 638,915 504,523 Calf hides . . 512,515 465,543 455,902 429,373 276,673 Sheep and other skins . 2,042,817 1,275,843 1,130,352 1,048,002 1,024,903 Bark used . tons 13,852 9,792 10,931 11,709 8,722	Value of materials used £ Value of output £ Value added to materials £	1,779,168 2,740,429	1,724,767 2,623,798	1,897,630 2,722,296	1,417,919 2,197,709	$\begin{array}{r} 28,641 \\ 988,910 \\ 1,517,087 \\ 482,447 \end{array}$
	Cow and ox hides Calf hides Sheep and other skins	512,515 2,042,817	465,543 1,275,843	455,902 1,130,352	429,373 1,048,002	504,528 276,672 1,024,903 8,725 10,334,659

* Exclusive of drawings of working proprietors. † Not available.

The value of leather imported into Victoria from oversea countries during the year ended 30th June, 1931, was $\pounds 34,727$, and the value of leather exported in the same period was $\pounds 111,458$.

Soap, candles, etc. by 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.

Item.	1921-22.	1927–28,	1928-29.	1929-30.	1930-31.
Number of establishments	17	17	17	17	18
Number of persons engaged	742	666	671	653	625
Horsepower of engines used	493	824	851	828	569
Value of plant and machinery £	174,460	231,700	240,640	246,020	225,097
Value of land and buildings £	155,640	236,800	188,840	204,895	193,885
Salaries and wages paid £	* 139,519	141,241	141,107	138,450	122,380
Fuel, light and power £	37,878	35,461	36,628	31,282	26,947
Value of materials used £	625,335	635,309	703,126	636,295	499,679
Value of output £	1,096,955	1,140,394	1,230,451	1,138,963	1,030,955
Value added to materials £	433,742	437,548	461,697	455,107	481,430
Materials treated—					
Tallow cwt.		196,304	215,519	197,953	186,843
Alkali lbs.	5,554,640	7,857,046	9,029,663	8,738,272	8,437,976
Copra oil cwt.	18,811	26,281	27,182	26,112	25,421
Output—					
Soap household cwt.		282,038	298,343	285,324	281,194
,, Sand ,,	> 268,717	21,064	48,656	28,346	29,450
,, Toilet,	J	20,628	14,057	14,464	14,887
Soda crystals Ibs.	1,633,632	3,634,988	3,709,104	3,488,576	3,466,400

* Exclusive of drawings of working proprietors.

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

The imports from oversea countries in 1930-31 included 152,023 lbs. of soap valued at £5,145, and 25,321 lbs. of candles, &c., valued at £1,529.

These industries are grouped because some establish-Bricks, pottery ments which produce bricks also manufacture tiles, and

others which produce tiles, also manufacture pipes and Factories manufacturing cement pipes and tiles are not inpottery. cluded herein, but are grouped with cement and cement products.

Item.	1921-22.	1927-28.	1928-29.	1929–30.	1930-31.
Number of establishments	93	83	76	77	
Number of persons engaged	2,655	2,524	2,321	2,165	1,167
Horse-power of engines used	5,401	8,827	8,459	8,838	8,200
Value of plant and machinery £	366,900	519,710	503,770	499,205	468,456
Value of land and buildings £	367,885	545,260	564,270	581,765	534,554
Salaries and wages paid £	*495,288	576,593	538,952	483,873	221,333
Fuel, light, and power £	180,920	240,254	223,231	214,917	73,296
Value of materials used £	87,573	156,492	142,869	125,978	49,288
Value of output £	999,383	1,326,205	1,171,830	1,084,452	470,843
Value added to materials £	730,890	874.882	761.318	703,619	331,749
Production					,
Bricks, common No.	169,715,000	198,775.000	179,528,000	162.676.000	25,450,000
Firebricks No.		5,502,323	3,453,000	3,595,000	
Roofing tiles No.		12.030,470	9,254,320	8,939,839	
Pipes £		171,908	161,771	145,430	
Pottery £	185,293	177,225	124,839	126,708	
		1			.,

* Exclusive of drawings of working proprietors. † Not available.

Forest Saw-mills.

1930-31

. .

••

149

350,435

Detailed information in regard to the forest saw-mills of the State for the five years 1926-27 to 1930-31 is given in the table which follows :---

Value of Victorian Timber Sawn. Number Machinery Persons Salaries and Year. Employed. of Mills. and Plant Wages Paid in Use. Quantity. Value. £ £ super ft. £ 597,744 1926 - 27207 573,550 2.862 115,813,000 914,334 • • 1927 - 28185 516,800 2,528 536,708 100,567,000 782,700 . . 1928 - 29171 443,640 1,758 406,58279,018,000 676,200 • • 1929-30 169 447,080 1.882 430.639 86,145,000 681,625

FOREST SAW-MILLS, 1926-27 to 1930-31.

In addition to the forest saw-mills there were 467 other factories working in wood. Particulars relating to these for the year 1930-31 are given on page 383.

1,072

214,312

42,274,000

310,430

Firewood.

The quantity of timber sawn for firewood consumption in the year 1930-31 was 190,792 tons valued at the saw-

mills at £165,148. 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. The increased use of brown coal briquettes and the extension of the use of gas and electricity for cooking and heating has caused a reduction in the demand for firewood in recent years.

Agricultural and Dairy Machinery Works. Agricultural and Dairy Machinery Works have been tabulated jointly since 1925-26, owing to a revision of the classification of Victorian statistics. Comparable figures are therefore available for the past five years only.

AGRICULTURAL AND DAIRY MACHINERY WORKS, 1926-27 TO 1930-31.

			Salaries		Value of-	
Year.	No. of Factories.	Persons Employed.	and Wages Paid.	Fuel and Light Used.	Materials Used.	Output.
<u> </u>			£	£	£	£
1926-27	73	3,820	931,404	51,620	891,930	2,228,570
1927-28	77	3,353	806,978	57,011	801,008	2,003,855
1928-29	71	3,239	762,977	49,243	738,414	1,885,154
1929-30	72	2,639	603,817	41,540	537,515	1,378,287
1930-31	73	2.034	418.845	28.974	357.492	938,990

In the following table particulars of bacon and ham Bacon curing. curing establishments are given for the year 1921-22 and the past four years.

BACON CURING.

Item.	1921-22.	192728.	1928-29.	1929-30.	1930-31.
Number of establishments		21	19		19
Number of persons employed	477	539	556	544	498
Horse-power of engines used.	1,424	1,825	1,838	1,798	1,974
Value of land, buildings, plant,	_,	_,	_,	_,	_,_,_
&c	289,840	340,820	352,260	348,270	349,195
Salaries and wages paid £	103,783*		147,369	144.120	130,692
Value of materials used £	1,089,984	1.097,918	1,109,616	1,043,360	650,101
Value of fuel and light £	17,785	21.507	21.737	23.075	20,190
Value of output £	1.366,832	1,426,533	1,409,897	1,367,179	954,873
Pigs slaughtered for curing No.	163,917	210,547	198,131	218,799	208,593
Bacon and ham cured—	100,017	210,011	100,101	=10,100	
In factories lbs.	15.583.960	19.628.277	18,611,728	18,222,220	17.340.287
On farms lbs.	1,812,838	976.871	789,719	666.317	891,932

* Excluding drawings of working proprietors.

Butter and cheese factories.

The number of butter, cheese, and kindred factories in 1930-31 was 165. Of these 133 were making butter, 22 cheese, 3 concentrated milk, 4 condensed milk, 11 powdered milk, 8 casein, and 1 milk sugar. There were also 22 creameries attached to the factories. The following table gives some indication of the value of this industry to the State :---

BUTTER AND CHEESE FACTORIES, 1921-22 to 1930-31.

Year.	Number of Factories.	Value of Machinery, Plant, Land, and Build- ings.	Persons Employed.	Salaries and Wages Paid.	Value of Output.
		£		£	£
1921–2 2	. 188	1,395,425	2,351	49 2,446	7,115,642
1922-23	. 182	1,509,545	2,278	497,816	7,899,377
1923 –24	. 184	1,685,530	2,280	511,001	7,974,676
1924 –25	. 186	1,812,525	2,427	565,422*	8,212,788
1925-26	. 183	1,889,475	2,213	528,310*	7,631,400
1926-27	. 182	1,969,280	2,320	552,659*	7,813,409
1927 28	. 179	2,021,330	2,426	572,907*	8,681,454
1928-29	. 169	1,931,360	2,449	582,411*	9,614,084
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

* Including amounts deawn by working proprietors.

Further particulars relating to butter and cheese factories will be found under the heading of Dairying on page 356.

BAKERIES (INCLUDING BREAD, PASTRY, AND CAKES, ЕТС.), 1927-28 то 1930-31.

Statistics relating to the manufacture of bread, pastry, and cakes were first compiled in the year 1928.

Figures for the past four years only are therefore available and cover about 44 per cent. of the establishments, the remaining 56 per cent. being too small to be classified as factories according to the

statistical definition. In 1927-28, 669 small factories, representing the 56 per cent. excluded from the statistics, used 32,889 tons of flour and produced, among other items, 20,851,188 4-lb. loaves of bread.

The total value of output of the industry as stated hereunder includes the value of all articles produced, but details relating to the output of pastry, cakes, pies, scones, &c., have not been tabulated. It must be explained that the value quoted is the wholesale selling value of the goods produced at the factory exclusive of all selling and delivery costs.

Item.	1927-28.	1928-29.	1929-30.	1930-31.
Number of factories	519	487	464	468
Average number of persons employed	3,367	3,248	2,951	2.871
Actual home newer of engines word	1,774	1,822	1,944	1,980
Value of land and buildings £	1,025,220	1,087,550	1,019,260	1,036,675
	344,970	368,050	366,290	366,796
Value of plant and machinery \pounds Salaries and wages paid \pounds	772,704	767.117	719.055	652,387
Value of materials used £	2,218,452	2,045,012	1.987.669	1,566,851
Fuel, light, and power used £	2,210,452 86,592	2,045,012 84,436	82,347	75,878
Repairs, oil, and water used \pounds	19.077	16.828	18,529	
Total output £	3.575.645	3,480,992	3,313,820	19,205 2,745,322
	3,979,049	5,400,992	3,313,620	2,740,522
Value added in process of manufac-	1 051 504	1 001 710	1 005 075	1 000 000
ture £	1,251,524	1,334,716	1,225,275	1,083,388
Value added per person employed £	371	411	£415	377
Flour used—short tons	89,135	90,943	104,069	93,116
Bread made—4-lb. loaves	52,812,500	54,656,000	53,852,013	54,343,878

BAKERIES, 1927-28 то 1930-31.

Meat freezing, preserving, and meat extract works and preserving numbered eighteen in 1930-31, and gave employment to not preserving to £250,067. The

approximate value of machinery, plant, land and buildings in that year was $\pounds 1,021,400$. Further details regarding this industry appear on page 382, and particulars of the output for the past five years are given in the following table :—

Item.	1926-27.	1927-28.	192829.	1929–30.	1930-31.	
Frozen meat						
Cattle	grs.	41,890	19,500	6,297	7,784	10,798
Sheep	Ňо.	1,346,425	915,545	1,590,573	1,825,019	1,697,947
Rabbits and hares	.,	806,294	1,055,976	3,248,558	2,949,796	4,617,406
Poultry		1,764	6,234	8,732	4,872	18,462
Preserved meat—						
Beef and mutton	cwt.	14,880	12,890	9,544	4,628	3,152
Rabbits and hares	,,	29	4	3	2	••
Other meats, &c.	20	3,700	3,335	4,459	2,726	2,631

Imports and exports of meats. The following statement shows the imports from and exports to oversea countries of frozen and preserved meats, other than bacon and ham, during the year ended 30th June, 1931 :--

	Impor		Exports	
Meats.	Quantity.	Value.	Quantity.	Valus.
Frozen— Beef Game Lamb Mutton Pork Poultry Rabbits and Hares Other Potted and Concentrated Preserved in tins Sausage Casings Other	2,182 lb. 16,137 lb. 66 ,, 18,930 lb. 19,468 ,, 3,155 cwt. 	£ 98 347 8 4,260 1,096 34,771 36	673,442 lb. 44,050,955 lb. 12,798,586 ,, 2,534,919 ,, 9,231 prs. 2,308,703 prs. 560,805 lb. 286,756 lb. 9,967 cwt.	£ 10,412 1,075,532 186,903 71,719 6,690 157,665 14,095 671 9,206 120,545 6,433
Total value	••	40,616	••	1,659,871

MEATS IMPORTED AND EXPORTED OVERSEA, 1930-31.

Victorian flour mills produce ample flour, etc., to Flour mills supply all local requirements and a considerable surplus for export. During the year 1930-31, 190,269 tons of flour, valued at £1,221,250, were exported from Victoria to countries beyond Australia. The following table gives particulars of the industry for the year 1921-22 and the past four years :---

Item.	19 21–22.	192728.	1928–29.	1929-30.	1930-31.
Number of establishments	45	42	41	38	35
Number of persons engaged	997	971	985	898	888
Horse-power of engines used	5,017	5,934	5,982	5,591	5,422
Value of plant and machinery \pounds	360,540	652,300	634,510	580,835	527,055
Value of land and buildings \pounds	249,295	466,400	468,600	431,710	421,723
Salaries and wages paid £	*228,195	267,347	269,913	247,692	229,601
Fuel, light, and power £	49,459	53,027	53,677	52,163	52,165
Value of materials used £	4,951,120	4,866,676	4,593,331	4,355,538	2,802,160
Value of output £	5,759,281	5,665,103	5,378,763	5,106,194	3,461,548
Value added to materials £	758,702	721,590	708,551	677,443	585,662
Wheat ground into flour bushels	14,697,287	17,659,570	18,545,041	17,227,886	17,578,614
Flour produced tons	308,532	367,383	390,286	364,682	369,966
Bran produced bushels	7,029,417	7,987,930	8,228,720	7,238,198	7,868,544
Pollard produced	5,777,178	7,264,370	7,762,370	7,667,061	7,602,848
Wheatmeal produced cwt.	3,717,178 †	28,874	43,010	57,276	63,609

* Exclusive of drawings of working proprietors.

† Not available.

Victorian Year-Book, 1930-31.

Jam, pickle, and sauce works.

Particulars relating to jam, pickle, sauce, fruit and vegetable canning factories are given in the table hereunder, which shows the main items of output, etc., for the

past five years.

Item.	1926-27.	1927-28.	1928-29.	1929-30.	19 30–31.
Number of establishments Number of persons engaged	35 2.246	35 2,361	38 2,126	39 2,261	40 1,647
Horse-power of engines used Value of plant and machinery £	1,376 269.825	1,663 304,130	2,148 307,560	2,085 286,240	2,034 283,697
Value of land and buildings £	384,425	435,060	453,390	460,635	455,929
Salaries and wages paid \pounds Fuel, light, and power used \pounds	$424,196 \\ 33,982$	466,016 37,106	$393,685 \\ 32,815$	$ 418,024 \\ 35,496 $	276,754 22,306
Value of materials used £	1,402,976 2,217,113	1,618,263 2,660,244	1,347,853 2,202,502	1,607,306 2,592,061	1,022,284 1,617,563
Fruit used cwt.	792,283	960,004	601,722	1,052,534	574,931
Sugar used " Output of—	246,170	295,331	253,735	308,012	199,576
Jams and jellies cwt.	300,822	340,847	285,636	335,530	246,265
Fruit preserved ,, Fruit pulped ,,	$335,798 \\ 110,420$	479,928 121,060	$351,048 \\ 57,648$	$510,298 \\ 150,647$	245,690 52,175
Sauce pints Pickles ,	7,385,438 2,615,267	7,312,500 1,487,990	7,905,541 1,803,764	8,806,347 1,451,693	6,736,916 1,058,754

Beet Sugar Industry. The following table contains particulars relating to the production, etc., of sugar in the beet sugar factory in which work is carried on under the control of the Victorian Government at Maffra, Gippsland.

A brief survey of the progress of this industry since its establishment was given in the *Victorian Year-Book* for 1928-29.

	Season.			Area Harvested.	dugar Beet Harvested.	Sugar Produced.
				acres.	tons.	tons.
925-26			•	1.880	21,194	2,315
926-27				2.024	9,851	1.177
927 - 28	••	••		2,353	25,439	2,349
928-29	•••			2,130	15,236	2,108
929-30			· · ·	2,500	26,525	3,472
930-31	••	••		3,045	38,291	5,095

Brewerles. Brewerles. box 1930-31 are set forth in the next table. Machinery and plant were valued at £514,760 in 1921-22 and at £1,007,249 in 1930-31, whilst land and buildings were valued at £402,445 and £699,267 respectively in those years. The wages paid in 1930-31 amounted to £369,463.

Year.	Year.	Number	Persons Employed.	M	aterials Use	Beer and Value of Stout Made. Output.		
	Breweries.	maipioyea.	Sugar.	Malt.	Hops.	Stolle Made.	Output. £ 2,200,882 2,322,814 2,412,387 2,479,619 2,594,835 2,605,704	
	1.1	1. july	cwt.	bushels.	lbs.	gallons.	£	
1921-22	15	1,053	107,160	688,090	717,950	22,388,000	2,200,882	
1922– 2 3	14	1,091	110,051	723,511	768,870	23,212,000	2,322,814	
1923-24	14	1,186	112,840	743,131	796,769	23,907,000	2,412,387	
1924–25	14	1,263	113,729	744,048	784,080	23,286,000	2,479,619	
1925-26	11	1,113	118,310	777,041	811,063	24,347,000	2,594,83	
1926-27	10	1,156	121,666	814,298	831,317	26,484,000	2,605,704	
1927-28	9	1,169	116,890	815,882	814,812	25,870,000	2,534,814	
1928-29	9	1,194	110,968	806,252	777,849	24,999,000	2,522,93	
1929-30	9	1,153	103,328	754,288	619,218	21,952,775	2,334,28	
1930-31	9	1,083	83,153	648,248	602,277	20,545,800	1,935,542	

BREWERIES, 1921-22 то 1930-31.

Distilleries. The number of distilleries working in 1930-31 was 8, and the persons employed numbered 122, of whom two were working proprietors. The estimated value of the machinery, plant, land and buildings was £445,068. The quantities of materials used in manufacture and of spirits distilled in each of the last ten years were as follows :—

DISTILLERIES, 1921-22 TO 1930-31.

				Material		~ • •	
на село <u>Ха</u> рания 2	Year.		Wine.	Malt.	Other Grain.	Molasses.	Spirits Distilled.
			gallons.	bushels.	bushels.	lbs.	proof gals.
1921-22			671.162	58.848		1.167.600	390,840
1922-23			1.100.568	77.717		85.120	473,152
1923-24	••		1,114,590	121,691		2,350,880	730,158
1924-25		••	1,117,370	92,124		2,727,650	561,153
1925-26	•••		1,849,920	94,784		2,994,880	785.595
1926-27	••	••	1,874,370	212,022		2,437,920	995,708
1927 - 28	••		1,843,100	113,404		1,513,792	709,031
1928-29			1,320,046	175,833	11,192	2,278,080	813,562
1929-30	••	••	1,556,249	300,267	93,781	1,284,528	1,142,762
1930-31	•••	••	706,574	183,245	173,311	909,888	1,010,727
							!

Spirits made by vine-growers for fortifying wine are not included in the foregoing table. The following quantities were distilled in vineyards for that purpose during the last ten years :--23,020 gallons in 1921-22, 14,930 gallons in 1922-23, 13,792 gallons in 1923-24, 19,245 gallons in 1924-25, 14,850 gallons in 1925-26, 11,259 gallons in 1926-27, 10,110 gallons in 1927-28, 17,529 gallons in 1928-29, 18,299 gallons in 1929-30, and 21,295 gallons in 1930-31. Tobacco factories. The number of tobacco, cigar, and cigarette factories licensed in 1930-31 was twenty-six, of which fourteen were too small to be classified as ordinary factories and were

consequently not included in the statistical tabulation on page 383. In the year mentioned the remaining twelve gave employment to 1,700 persons who were paid £343,128 in wages, and used machinery, plant, land and buildings valued at £539,878. The subjoined table shows the quantity of tobacco leaf used by and the output of the full number of licensed establishments for the last ten years:—

Үеат.		ctured Leaf ted on.		Quanti	ty Manufacture	d.
	Australian.	Imported.	Tobacco.	Snuff.	Cigars.	Cigarettes.
	lbs.	lbs.	lbs.	lbs.	number.	number.
1921-2 2	535,590	5,250,641	6,345,508	232	33,893,695	152,908,600
1922-23	540,322	5 ,628, 555	6,709,060	231	32,699,019	99,771,650
1923-24	471,862	4,998,680	5,833,903	99	29,244,981	87,896,350
1924-25	427,152	5,222,496	5,998,437	50	30,794,864	77,840,200
1925-26	449,575	5,055,260	5,879,683	100	29,595,805	70,135,500
1926-27	527,807	4,662,288	5,520,998		27,657,963	70,314,868
1927-28	462,279	4,579,586	5,511,072		26,688,939	68,537,354
1928-29	450,083	4,585,040	5,351,643	4,527	21,094,483	96,032,175
1929-30	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

ТОВАССО FACTORIES, 1921-22 то 1930-31.

Wootlen mills. There were forty-six woollen mills (including fifteen woolwashing factories) working in 1930-31, and the number of persons employed therein was 6,182, of whom thirty-two were working proprietors. Salaries and wages paid amounted to £905,987, and the approximate value of the machinery, plant, land and buildings was £2,964,767. The value of the raw materials used during the year was £1,629,668, and that of the goods manufactured in the

same period, £3,289,288. The quantities of wool and cotton used and of goods manufactured in each of the last ten years were as follows :----

	Quantity	Quantity	G	oods Manufac	tured—		¥-1
Year.	of Scoured Wool Used.	of Cotton Used.	Tweed and Cloth.	Flannel.	Blankets.	Shawls and Rugs.	Value of Output.
	lbs.	lbs.	yards.	vards.	pairs.	number	£
1921-22	8,015,650	586,836	1,872,512	5,759,987	297,700	51,598	2,482,761
1922-23	9,640,760	621,490	1,714,460	6,622,350	314,803	71,073	3,264,025
1923-24	7,936,456	848,812	1,927,298	6,095,442	377,354	115,443	3,561,480
1924-25	8,782,203	544,364	1,898,647	3,594,427	319,026	130,094	3,433,231
1925 - 26	10,679,901	285,482	3,438,142	3,618,260	250,943	93,766	3,976,224
1926-27	14,510,421	1,013,077	4,854,389	6,213,860	327,113	116,855	4,581,445
1927-28	11,960,882	972,455	6,236,623*	6,879,796*	375,125	126,603	4,680,740
1928-29	11,582,312	832,851	5,979,625*	4,603,874*	285,830	115,533	4,308,677
1929-30	11,708,536	547,307	6,077,129*	3,546,961*	190,869	123,861	3,903,164
1930-31	9,569,421	464,277	5,431,704*	4,065,138*	107,962	71,951	3,289,288

WOOLLEN MILLS, 1921-22 TO 1930-31.

* Square yards.

Boots and shoes.

Particulars relating to factories manufacturing boots and shoes are shown in the following table. Figures for the year 1921-22 include boot-repairing establishments. These were tabulated separately from boot factories in the year 1926-27 and succeeding years. To enable a valid comparison to be made the figures for boot repairing factories are included at

the bottom of the table.

Item.	1921-22.	1927-28.	192 8–29.	1929-30.	1930-31.
Number of establishments	334	179	175	175	175
Number of persons employed	11,714	11,017	11.041	10,321	8,622
Horse-power of engines used	2,664	2.821	3,176	3,077	2,812
Value of plant, machinery,					
land, and buildings £	1,130,425	1.376.180	1.403.330	1.369.000	1.218.654
Salaries and wages paid £	1,760,589*	1,906,127	1.939.069	1,834,816	1,400,624
Fuel, light, and power £	30,375	34,842	34.654	34,284	29,857
Value of materials used £	3,109,863	2,943,572	3.031.173	2,726,740	1,917,444
Value of output £	6,043,172	5,657,318	5,810,619	5,375,438	3,974,195
Boots and shoes made pairs	7,571,231	7,792,702	7,856,996	7,891,133	7,238,276
Slippers (including canvas)	· · ·				
made pairs	903,992	2,188,608	2,492,609	2,567,407	2,548,326
Boot Repairing Factories.		and the second	1	·	a shi ta se
Number of factories	4	305	340	372	415
Dessens employed	· · [546	567	594	664
Value of plant, machinery,		940	507.	094	004
		418,310	491,110	495,270	494.426
land, and buildings \pounds Value of materials used \pounds	+	84,602	83,955	81,389	454,420
Salaries and wages paid \pounds	1	102,592	116.849	121.037	111.696
TT 1 Comtanat		244,997	253,913	255,528	233,171
value of output ±	<u> </u>	244,997	255,915	200,020	200,171

* Excluding amounts drawn by working proprietors.

† Not available.

The value of the output of establishments connected Dress (exclusive of boot) factories. dressmaking, millinery, underclothing, hats and caps, &c.,

but exclusive of boots and shoes, was $\pounds 11,698,487$ in 1930-31. as compared with $\pounds 13,429,230$ in 1921-22. During the period 1921-22 to 1930-31 the persons employed decreased by 14 per cent., the wages paid (excluding amounts drawn by working proprietors) by 5 per cent., the value of materials used by 18 per cent., and the value of the output by 13 per cent. Particulars of the industry for each of the last ten years are as follows:—

DRESS	(EXCLUSIVE	OF	BOOT	FACTORIES.	, 1921–22 то 1930–31.

Year. Number of Factories.		Nu	mber of Per Employed.		Salaries and Wages	Value of Materials	Value of Output.
	Males.	Females.	Total.	Paid.	Used.	Output.	
					£	£	£
921-22	1,424	4,674	27,370	32,044	3,328,326	7,689,101	13,429,23
922-23	1,526	4,951	28,595	33,546	3,554,303	7,456,539	13,354,23
923-24	1,501	4,751	26,772	31,523	3,574,059	7,181,020	13,118,47
924-25	1,500	4,823	26,295	31,118	3,837,919*	7,388,950	13,584,19
925 - 26	1,491	4,862	26,458	31,320	4,022,168*	7,833,863	14,199,57
926-27	1,535	5,348	28,941	34,289	4,492,778*	8,530,529	15,517,40
927 - 28	1,517	5,241	28,212	33,453	4,493,366*	7,975,259	14,707,06
928 - 29	1,522	5 ,433	28,272	33,705	4,541,295*	8,426,982	15,505,66
929 - 30	1,474	5,915	27,631	33,546	4,594,570*	8,602,639	15,783,90
930-31	1,405	5,361	22,162	27,523	3,492,542*	6,333,943	11,698,48

* Including amounts drawn by working proprietors.

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

ELECTRIC LIGHT AND POWER WORKS, 1921-22 to 1930-31.

Year.	Number of Stations.	Horse- power of Machinery.	Value of Machinery and Plant.	Persons Em- ployed.	Wages Paid.	Electricity Supplied.	Value of Output.
						British	
			£		£	units.	£
1921-22	84	57,481	3,166,750	1,350	334,805	136,021,000	1,407,268
1922-23	88	72,106	4,042,910	1,451	377,048	157,728,000	1,614,139
1923-24	90	154,622	5 ,864,06 5	1,752	462,172	405,108,000	2,176,551
1924 - 25	84	185,633	7,900,455	2,011	549,849	413,556,000	2,382,582
1925 - 26	83	188,342	5,035,460	1,149	338,807	460,710,000	1,648,113
1926-27	86	219,626	5,144,035	1,120	323,286	580,221,000	1,768,514
1927-28	86	198,914	5,513,630	1,069	307,490	630,880,000	1,566,113
1928– 29	87	235,589	6 ,079,3 00	1,153	3 22,295	673,492,000	1,616,076
1929-30	91	248,193	6,559,245	1,230	354,823	724,525,000	1,873,361
1930–31	91	221,767	6 ,411,93 5	1,162	306,785	681,230,000	1,605,138

The decrease in the number of persons and the value of machinery and plant and output in electric supply undertakings for the last six years is due to a change in the method of compilation. In previous years, the figures related to both generation and distribution, but since 1924-25 only those relating to the former are given.

Prior to 1923-24 particulars relating to the Newport power houses controlled by the Victorian Railways Commissioners and the State Electricity Commission had not been included in the statistics, and this accounts for the large increase in the figures for that year. The principal generating station is now located at the Electricity Commission's works at Yallourn, where 238,273,000 units were generated in the year 1930-31.

STATE ELECTRICITY COMMISSION.

The State Electricity Commission was constituted by the *Electricity* Commissioners Act 1918, as amended by the State Electricity Commission Act 1920, the latter providing for the appointment for 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 electric undertakings and 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 and to issue licences for wiremen. 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 the 75,000-kw. station is being duplicated by the installation of three 25,000-kw. turboalternators, together with the necessary boiler and auxiliary plant. One 25,000-kw. turbo-alternator is already in operation, making the present installed capacity of the Yallourn Power Station 100,000 kw. Two 132,000-volt lines transmit energy to receiving stations at Richmond and Yarraville. A third station (Thomastown) receives the surplus energy from the Sugarloaf-Rubicon group of hydro stations (37,000 h.p.) in the north-eastern district. There are two peak load stations in the metropolitan area, viz., Newport "B" and Richmond.

The Commission meets nearly all the energy requirements of the metropolitan area, and serves over 180 country centres, 108 of which had no supply previously. As from 1st July, 1931, it has supervised the operation of the Bendigo and Ballarat undertakings (including tramways) and will continue to do so until 1st July, 1934, when it will assume full control.

Victorian Year-Book, 1930-31.

Gasworks.

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

Year.	Number of Works.	Persons Employed.	Wages Paid.	Coal Used.	Gas Made.	Coke Produced.	Value of Output.
1926-27 1927-28 1928-29 1929-30 1930-31	33 34 35 36 37	959 1,013 936 905 822	£ 264,918 290,190 265,536 261,547 202,627	tons. 442,391 437,947 437,651 399,182 334,874	cubic feet. 5,855,817,000 6,326,887,000 6,424,614,000 6,409,110,000 5,869,257,000	tons. 283,998 291,077 279,887 260,437 211,226	£ 1,967,485 2,077,058 2,042,896 2,073,435 1,633,839

GASWORKS, 1926-27 to 1930-31.

Oil was used as well as coal in the manufacture of gas, the number of gallons consumed each year being 88,601 in 1926-27, 68,567 in 1927-28, 239,928 in 1928-29, 2,516,029 in 1929-30, and 1,489,397 in 1930-31.

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.

A revised classification of industries has been adopted this year in accordance with a resolution passed at a recent conference of Commonwealth and State statisticians.

VALUE OF ARTICLES PRODUCED IN FACT	TORIES.
------------------------------------	---------

Class of Industry	7. 1926–27. £	1927–28.	1928-29.	1929-30.	1930-31.
				1 5.5	
	C	1		1	
		£	£	£	£
1. Treatment of non-n		and the set			1
erous mine and					
products		2,182,682	2,116,449	2,219,308	1,308,408
2. Bricks, pottery, gla	ss, &c. 2,210,772	2,044,206	1,911,641	1,714,886	921,949
3. Chemicals, dyes,	explo-			11 A.	100 C
sives, paint, oil grease	0 050 010	6,769,375	7,244,216	7,203,210	0 150 010
4. Industrial metals	. ma-	0,109,313	7,244,210	7,203,210	6,158,919
	ments.				
and conveyances		20,442,389	20,137,270	18,787,020	12,910,719
5. Precious metals, jev	vellerv	20,112,000	40,101,210	10,101,020	12,010,110
and plate	547,052	552,309	560.257	552,078	400,555
6. Textiles and textile	goods	001,000			100,000
(not dress)	8.906.327	8,945,062	9,228,699	9,186,336	7,707,588
7. Skins and leathe		1			
clothing or footy		6,218,667	5,781,861	4,759,255	2,658,212
8. Clothing	18,232,738	17,472,270	17,925,129	17,330,421	12,833,584
9. Food, drink, and t		40,416,917	40,739,745	39,724,515	33,579,814
10. Woodworking and 1			4 000 000		
ware 11. Furniture, bedding	5,614,266	4,999,458	4,230,329	4,179,177	2,448,485
12. Paper, stationery,		2,751,798	2,525,472	2,250,585	1,315,774
ing, bookbinding	x, dc . 6.943.920	7.084.595	7,153,207	6,975,549	5,779,796
13. Rubber	4,032,609	4,251,598	3,911,849	3,209,032	1,412,297
14. Musical instrument		279,566	335,387	310,518	156,315
15. Miscellaneous prod		387,734	421,830	452,423	585,712
16. Heat, light, and po	wer 3,772,865	3,666,691	3,674,122	3,956,786	3,247,668
		·	·		
Total	127,397,951	128,465,317	127,897,463	122,811,099	93,425,795
				J. State in	

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, 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 416) is designed to show seasonal employment.

				1.1.1		1
	Class of Industry.	1926-27.	1927-28.	1928-29.	1929-30.	1930-31
						t severe e
1.	Treatment of non-metalli-	1		1		1
	ferous mine and quarry	1.	· ·			
	products	2,483	2,518	2,382	2,297	1,505
2.	Bricks, pottery, glass, &c	3,740	3,458	3,336	2,997	1,831
3.	Chemicals, dyes, explosives,					
	paint, oils, and grease	5,462	5,317	5,272	5,074	4,723
4.	Industrial metals, machines,	1				
	implements, and convey-	ļ] .			
	ances	36,778	35,725	35,590	33,188	26,193
5.	Precious metals, jewellery,					
	and plate	1.044	1.100	1.065	1.077	941
6.	Textiles and textile goods		1			
	(not dress)	14.207	14,248	14,903	16,221	14,719
7.	Skins and leather (not cloth-			1		
	ing or footwear)	4,669	4,153	3,799	3,824	2,738
8.	Clothing	40,412	39,131	38,701	36,489	30,157
9.	Food, drink, and tobacco	19,800	22,293	21,517	21,285	20,024
LO.	Woodworking and basket-					
	ware	9,594	8,670	6,992	6,841	4,483
l1.	Furniture, bedding, &c	4,988	4,688	4,286	3,660	2,674
12.	Paper, stationery, printing,	1.1.1			}	
	bookbinding, &c.	11,619	11,618	11,470	11,451	10,641
13.	Rubber	3,549	4,205	3,868	3,261	2,051
	Musical instruments	532	471	537	466	298
15.	Miscellaneous products	640	653	733	741	1,052
	Heat, light, and power	2,112	2,109	2,095	2,137	1,986
	Total	161,639	160,357	156,568	151,009	126,016

AVERAGE NUMBER OF PERSONS EMPLOYED IN FACTORIES.

This table shows that the decrease in activity in Victorian secondary industries commenced in the year 1927–28, was gradual until 1929–30, and became suddenly accentuated in 1930–31 as a result of world-wide depression of trade and industry.

Victorian Year-Book, 1930-31.

An examination of the five-year table hereunder reveals Size of factories. the fact that the greatest and most consistent increase in the number of factories has taken place in the two classes of factories employing four and under four hands.

The abnormal increases in 1927-28 in the smaller classes of factories is largely due to the inclusion for the first time of bakeries.

FACTORIES ACCORDING TO NUMBER OF HANDS EMPLOYED.

		Showing Annual Percentage Increase or Decrease.								
	1926-27.	Increase.	1927-28.	Increase.	192829.	Increase.	1929-30.	Increase.	1930-31.	Increase.
		%		%		%		%		%
Under 4 hands										
Number of Factories	2,051						2,770	7.2	3,182	
4 hands Employees	4,315	7.58	5,056	17.17	4,907	- 2.95	4,940	0.7	5,933	20.1
Number of Factories	811	1.76	955	17.75	092	-13.82	919	11.7	014	-11.4
,, Employees						-13.82				-11.4
5 to 10 hands-	0,411	1 10	0,020	1, 10	0,202	-10 02	0,010	11,	0,200	
Number of Factories	2,215	0.22	2,301	3.88	2.241	- 2.61	2.049	-8.6	2,015	-1.7
Employees			15,861		15,391				13,736	
11 to 20 hands-								4		
Number of Factories						-1.45			1,000	
Employees	16,479	~0·81	16,160	-1.93	15,840	-1.98	14,755	-6.8	14,606	-1.0
21 to 50 hands— Number of Factories	900	1.92	922	2.44	0.00	− 2·06	000	-2.5	700	-13.3
,, Employees			28,960			-1.68			24,286	
51 to 100 hands-	20,114	2.92	20,900	0.04	20,412	- 1.00	21,202	-4.4	24,200	-10.6
Number of Factories	340	$12 \cdot 21$	320	-5.88	300	- 6.25	309	3 0	205	-33.7
Employees				-7 21		- 6.55				-33.9
Over 100 hands-			,		·			1.		1.00
Number of Factories	248									-13.7
" Employees	69,185	16.54	68,067	-1.61	67,703	- 0.53	64,972	-4.0	53,258	-18.0

PROPORTION OF FACTORIES OF DIFFERENT SIZES.

		Percentage to Total.							
	1926-27.	. 1927–28.	1928–29.	1929-30.	1930-31.				
Size of Factory.	Factories. Employees.	Factories.	Factories. Employees.	Eactories. Employees.	Factories. Employees.				
Under 4 hands 4 " 5 to 10 ", 11 to 20 ", 21 to 50 ", 51 to 100 ", 101 and over Total	10.6 2	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$				

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

			1	1		and the state
Occupations.	1925-26	1926-27.	1927-28.	1928-29.	1929-30.	1930-31.
	<u></u>					
Working proprietors	7,254	7,334	7,755	7,302	6,963	6,882
Managers, overseers	5,213	5,580	5,891	5,826	5,797	5,376
Accountants, clerks	6,034	6,519	6,677	6,847	6,500	6,064
Engine-drivers, firemen	2,065	2,036	1,945	1,850	1,850	1,601
Workers in factory or						
works	128,948	137,025	135,425	132,304	127,738	104,475
Outworkers	736	592	380	240	182	136
Carters, messengers	2,394	2,065	1,703	1,660	1,494	1,269
Others	3 15	488	581	539	485	213
Total	152,959	161,639	160,357	156,568	151,009	126,016
			1			

OCCUPATIONS OF PERSONS EMPLOYED IN FACTORIES.

Outworkers. The term "outworker" 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.

Sex distribution in factories and their proportions to the male and female populations, for the years 1921-22 to 1930-31, were as follows :--

EMPLOYMENT OF MALES AND FEMALES IN FACTORIES.

a da la construcción de la const		ales.	Fe	males.	T	otal.
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.
				1		
1921-22	97,789	1,279	47.087	599	144,876	934
1922-23	103,092	1,307	49,533	618	152,625	960
1923-24	107,578	1,334	48,584	593	156,162	961
1924-25	105,984	1,286	48,174	578	154,158	930
1925-26	104,512	1.246	48.447	573	152,959	908
1926-27	108,969	1.278	52,670	613	161,639	944
1927-28	108,068	1,246	52,289	598	160,357	921
1928-29	104,648	1.195	51.920	586	156,568	889
1929-30	100,135	1.136	50.874	568	151,009	850
1930-31	82,949	936	43,067	476	126,016	704

Males formed 67.5 per cent. in 1921-22 and 65.8 per cent. in 1930-31 of the total persons employed. The decrease during the period 1921-22 to 1930-31 in the number of males employed was 14,840, or 15.2 per cent., and in the number of females employed, 4,020, or 8.5 per cent.

Employment of females. Of the total females in factories $70^{\circ}6$ per cent. are engaged in the textile and clothing industries, and $11^{\circ}0$ per cent. in the preparation of food and drink. The extent of female employment in certain industries is shown in the next table :--

	Number 1	Employed.	
Industry.	Males.	Females.	Females per 100 Males.
Chemicals, drugs, &c	605	536	88.6
Explosives	346	146	42.2
Matches	216	. 603	279.2
	210	, 003	419 4
smithing	1,486	267	18.0
Jotton	1,480	328	280.3
17. 11		3.374	280°3 120°2
Testam and Instation	2,808		
Hosiery and knitting	1,824	4,962	272.0
Silk natural and artificial	78	172	220.5
Rope cordage	459	295	64.3
Surriers and fur dressing	187	222	118.7
Bags, trunks, &c	288	234	81.3
Cailoring and slop clothing	1,586	4,726	298.0
Dressmaking	348	4,915	1,412.4
Millinery	87	1,238	1,423 0
shirts, underclothing, corsets	513	4,277	833 7
Hats and caps	425	747	175.8
Boots and shoes	4,664	3,958	84.9
Biscuits	534	419	78.5
Confectionery	1,235	1,273	103.1
Jams, pickles, &c	965	682	70.7
Cobacco, cigarettes, &c	922	778	84.4
Envelopes, stationery, &c	976	1,258	128.9
eneral printing and bookbinding	3,796	1,414	37.2
Rubber goods	1,286	765	59.5
All other factories	57,198	5,478	9.6
Total	82,949	43,067	51.9

FEMALE EMPLOYMENT IN FACTORIES, 1930-31.

Child labour in factories. A favorable feature of factory statistics has been the small proportion of children engaged in factories. Of the male and female employees, boys and girls under 16 constituted 3.07 and 7.80 per cent. respectively in 1930-31, as

against 4.13 and 6.71 per cent. in 1921-22. The number of children employed in factories and their proportions to the total employees are given in the subjoined table for the years 1921-22 to 1930-31:---

Year.					Proportion per cent. of-		
		Boys under 16.	Girls under 16.	Total Children.	Boys to Male Employees.	Girls to Female Employees.	Children to Total Employees.
1921-22	••	3,780	3,120	6,900	4.13	6.71	5.00
1922-23		4,031	3.163	7.194	4.18	6.48	4.95
1923-24		.4,057	3,422	7,479	4.03	7.15	5.03
1924-25		4,027	3,223	7,250	4.05	6 ·78	4.94
1925-26	••	3,980	3,489	7,469	4.06	7.30	5.13
1926-27	i	4,567	4.041	8,608	4.46	7.77	5.58
1927-28	· · · ·	4,231	3,992	8,223	3.91	7.63	5.13
1928-29		4,209	4,298	8,507	4.29	8.39	5.70
1929-30		3,748	4.019	7,767	3.74	7.90	5.14
1930-31		2,543	3,361	5,904	3.07	7 80	4.69

CHILDREN EMPLOYED IN FACTORIES.

Machinery In the following table are shown the number of factories using mechanical power, the total horse-power of the engines used, and the value of the machinery and plant for the ten years 1921-22 to 1930-31 :--

	Year.	Number of Factories equipped with Machinery.	Value of Machinery and Plant.	Horse-power of Engines.	
			£		
1	921-22	5,473	21,182,110	191,881	
-	922-23	5,762	23,994,715	216,427	
1	923-24	6,030	28,223,915	314,561	
1	924-25	6,168	32,563,815	374,064	
1	925-26	6,321	30,549,130	367,318	
1	926-27	6,637	31,580,350	414,992	
1	927-28	7,209	32,745,680	403,770	
1	928-29	7,305	33,724,910	446,382	
1	929-30	7,419	35,022,535	465,739	
1	930-31	7,519	34,771,687	433,599	

MACHINERY IN FACTORIES.

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The nature of the power used and the capacity of the machinery in the factories of the State are set out in the next table. Establishments using more than one kind of mechanical power are included once only in the upper half of the table, usually under the power which is principally used. The lower half of the table shows the total horse-power of engines used.

POWER USED IN FACTORIES, 1921-22 to 1930-31.

	4	Nur	nber of Fact	ories usin	g	
Year.	Steam.	Gas.	Electricity	. 011.	Water, Wind, or Horses.	Manual Labour.
					-	
921–2 2	935	666	3,474	364	34	1,280
922-23	910	655	3,795	372	2 30	1,334
923-24	885	540	4,174	40		1,259
92425	812	476	4,448	403		1,257
925-26	736	413	4,709	432		1,140
926-27	678	334	5,141	467		1,053
	618	334	5,701	509		1,036
928-29	579	278	5,941	493		892
929-30	539	223	6,142	490		776
930-31	502	228	6,279	499		680
		<u></u>		<u> </u>		1
Year.		A (ctual Horse-	power of	Engines.	<u></u>
· · ·	Steam.	Ga	is. Elec	etricity.	Oil.	Total.
921-22	106,88	2 19.	327 6	2,663	3.009	1 91,8 81
)22-23	110 -			1,679	3,233	216,427
)23-24	105 74			5,340	5,083	314,561
924-25	0.000 000			7.381	5,380	353,920
)25-26	005 075			7,812	8,212	367,318

(a) Includes 26,265 horse-power generated by water.

13,548

12,326

10,886

9,671

9,081

123,359

137,692

147,835

155,911

151,997

10,024

11,796

13,330

13,993

14,268

414,992

403,770

446,382

465,739

433,599

268,061

241.956

(a) 274,331

(b) 286,164

(c) 258,253

(c) Includes 26,546 horse-power generated by water. (c) Includes 26,581 horse-power generated by water.

The predominance of steam is due to its extensive use for the generation of electricity. A consistent increase is shown in the use of electricity which, as a secondary power, should be deducted from the total if the net horse-power used in factory production is required.

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1926 - 27

1929-30

1930-31

1927-28 ...

1928-29

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

SALARIES AND WAGES PAID IN FACTORIES.

Year.	Drawings h Proprietors Prof	oy Working (excluding its).	Salaries Managers a			paid to Workers.	Total Salaries and Wages
	Males.	Females.	Males.	Females.	Males.	Females.	paid.
· · ·			Aggregat	e Amounts.			
1921-22 1922-23 1923-24 1924-25 1925-26 1925-26 1926-27 1927-28 1928-29 1929-30 1930-31	£ 1,533,868 1,590,771 1,837,094 1,954,036 1,965,990 2,032,445 1,819,904	£ 74,043 80,876 95,938 102,663 100,829 97,250 100,294		£ 357,691 394,366 436,425 443,3676 448,387 495,735 552,056 554,149 485,137	£ 16,933,984 18,038,101 19,577,822 19,460,304 19,547,974 20,931,037 20,915,338 20,268,582 19,293,295 14,042,377	4,484,904 4,664,463 5,194,577 5,229,167 5,230,117 5,145,085	27,472,084 29,057,052 29,329,400 31,822,589 32,087,051 31,533,586 30,517,535
				Amounts.			
1921–22 1922–23 1923–24 1925–26 1925–26 1926–27 1927–28 1928–29 1929–30 1930–31	£ s. d. 233 8 11 240 18 4 275 18 6 278 14 11 298 15 8 321 1 8 290 6 1	£ s. d. 111 13 7 124 4 8 141 18 5 137 16 0 139 13 0 153 12 8 163 12 3	$\begin{array}{c} \pounds s. \ d. \\ 316 \ 18 \ 11 \\ 331 \ 10 \ 9 \\ 339 \ 19 \ 1 \\ 347 \ 18 \ 0 \\ 369 \ 19 \ 2 \\ 367 \ 14 \ 4 \\ 374 \ 11 \ 3 \\ 386 \ 10 \ 8 \\ 334 \ 9 \ 2 \end{array}$	$\begin{array}{c} \pounds s. \ d. \\ 133 \ 16 \ 4 \\ 134 \ 14 \ 8 \\ 142 \ 13 \ 5 \\ 143 \ 13 \ 7 \\ 149 \ 9 \ 3 \\ 151 \ 16 \ 8 \\ 154 \ 7 \ 7 \\ 155 \ 7 \ 7 \\ 157 \ 14 \ 10 \\ 145 \ 13 \ 9 \end{array}$	£ s. d. 202 19 11 204 12 2 212 19 0 214 15 5 218 0 4 223 18 1 227 11 3 227 17 5 226 18 6 204 15 9	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	£ s. d. 172 16 9 175 15 9 184 15 11 186 16 4* 189 16 55 193 14 1* 196 15 9* 197 8 3* 197 1 6* 179 5 10*

• These figures are based on the number of employees and the wages, etc., paid to them, working proprietors being excluded.

The above table shows a general decrease in the wages paid in all groups except female working proprietors for the year 1930-31. The average wage paid to all employees decreased by £17 15s. 8d., or 9 per cent.

The method of arriving at the average number of employees since the year 1928-29 (see page 399) would tend to increase the average wage paid to an amount slightly greater than that in previous years.

The average wage for 1930-31 (£179 53. 10d.) was probably below the average according to the determinations of Wages Boards, and would be mainly accounted for by the fact that the former sum is based on the actual payments to workers, while the latter represents the

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average of the sums to which they would have been entitled if they had worked throughout the whole year. There is, of necessity, a difference between the two averages, as all hands are not continuously employed, nor are all factories working throughout the whole year.

Cost and value of production and the value of the output in in factories. 1930-31 are given in the subjoined statement :---

		Cost	of—	е	
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	435,288 165,321	$148,438 \\ 115,136$	347,916 378,279	47,272 19,784	1,308,408 921,949
 Chemicals, dyes, explosives, paint, oils and grease Industrial metals, machines, 	3.207.312	150,054	976,400	86,255	6,158,919
implements and convey- ances 5. Precious metals, jewellery,	4,962,377	317,943	5,537,805	161,873	12,910,719
and plate	148,684	7,583	165,664	2,991	400,555
(not dress)	4,004,608	194,706	2,065,934	127,878	7,707,588
clothing or footwear) 8. Clothing	1,713,215 6,708,789	40,888 100,197	551,212 4,146,623	22,337 65,681	2,658,212 12,833,584
9. Food, drink, and tobacco 10. Woodworking and basket-	23,249,693	652,798	4,318,996	269,179	33,579,814
ware 11. Furniture, bedding, &c 12. Paper, stationery, printing,	1,066,940 647,281	37,646 18,835	931,545 455,061	29,843 8,223	2,448,485 1,315,774
bookbinding, &c. 13. Rubber	2,362,742 646,354	112,979 69,861	2,233,181 394,201	65,342 29,256	5,779,796 1,412,297
14. Musical instruments 15. Miscellaneous products 16. Heat, light and power	61,258 278,201 722,047	2,811 7,796 611,804	$\begin{array}{r} 61,801 \\ 187,160 \\ 527,911 \end{array}$	588 4,836 100,904	156,315 585,712 3,247,668
Total	50,380,110	2,589,475	23,279,689	1,042,242	93,425,795

FACTORY COSTS AND OUTPUT, 1930-31.

The difference between the sum of the first four columns and the last column 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 :---

PROPORTIONATE VALUE OF COSTS, ETC., TO PRODUCTION IN FACTORIES, 1930-31.

		Percenta	ge of Costs, d	żc., to Total	Value of Proc	luction.
	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	33.3	11.3	26.6	3.6	25.2
2.	Bricks, pottery, glass, &c.	17.9	12.5	41.1	2.1	26.4
3.	Chemicals, dyes, explo- sives, paint, oils, and grease	52.1	2.4	15.9	1.4	28 ·2
4.	Industrial metals, ma- chines, implements, and conveyances	38.4	2.5	42.9	1.3	14 · 9
5.	Precious metals, jewellery, and plate	37.1	1.9	41.4	•7	18.9
6.	Textiles and textile goods (not dress)	52.0	2.5	26.8	1.7	17.0
7.	Skins and leather (not clothing or footwear)	64.5	1.5	20.7	• 9	12.4
8.	Clothing	52.3	•8 .	32.3	• 5	14.1
9.	Food, drink, and tobacco	69-2	1.9	12.9	•8	15.2
1 0.	Woodworking and basket- ware	43.7	1.5	38.0	1.3	15.6
11.	Furniture, bedding, &c	49-2	1.4	34.6	•6	14.2
12.	Paper, stationery, printing, bookbinding, &c.	40 • 9	2.0	38.6	1.1	17•4
13.	Rubber	45.8	4.9	27.9	2.1	19-3
14.	Musical instruments	39.2	1.8	39.5	•4	19.1
15.	Miscellaneous products	47.5	1.3	32.0	•8	18.4
16.	Heat, light, and power	22.2	18.8	16.3	3.1	39 ·6
	Total	53 • 9	2.8	24.9	1.1	17.3

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 present the raw material in its manufactured form. Thus in class two the sum paid in wages represents 41 per cent. and the cost of raw materials 18 per cent. of the value of the finished article, whilst in class nine the expenditure on wages amounts to 13 per cent. and that on raw materials to 69 per cent. of the value of the output.

Cost of In the next table the cost of production, the value of production, the output of factories, and the balance available for 1930-31. profit and miscellaneous expenses are compared for the years 1921-22 to 1930-31 :--

COST OF	PRODUCTION	AND VALUE OF OUTPUT OF	F
	FACTORIES,	1921-22 то 1930-31.	

Year.		·				
		Materials.	Fuel, Light, and Power.	Salaries and Wages.	All other Expenditure, Interest, and Profit.	Total Value of Output.
		£	£	£	£	£
1921-22		60,352,561	2,329,76 0	23,846,495	19,714,365	106,243,181
1922-23		62,658,163	2 ,443, 681	25,547,19 2	20,637,307	111,286,343
1923-24	• ••	62,217,874	2,803,239	27,472,084	21,428,730	113,921,927
1924 –25	• ••	65,205,233	2,964,635	29,057,052	20,950,478	118,177,398
1925-26		67,164,445	3,156,382	29 ,3 29,400	20 ,3 36,212	119,986,439
1926-27		69,816,935	3,392,448	31,822,589	22,365,979	127,397,951
1927-28		69,637,778	3,433,923	32,087,051	23,306,565	128,465,317
1928-29]	70,100,45 6	3,361,298	31,533,586	22,902,123	127,897, 463
1929-30		66,770,302	3,435,727	30,517,535	22,087,535	122,811,099
1930-31	•••	50,380,110	2,589,475	23,279,689	17,176,521	93,425,795

These figures are reduced in the succeeding statement to their proportionate value of the total output.

			I	Proportion of O	utlay to Out	put.	
<u>.</u>	Year.		Materials.	Fuel, Light, and Power.	Salaries and Wag e s.	Other Expenditure, Interest, and Profit.	Total.
			%	%	%	%	%
1921-22	••		56.8	2.2	2 2 · 4	18.6	100 · 0
1922-23	••		56.3	2 · 2	23.0	18.5	100.0
1923 –24	••	••	54.6	$2 \cdot 5$	$24 \cdot 1$	18.8	100.0
1924–25	••	•••	$55 \cdot 2$	2.5	2 4 · 6	17.7	100.0
192526	••	•••	56.0	2.6	24.4	17.0	100.0
1926-27	••	•••	54.8	2.7	$25 \cdot 0$	17.5	100.0
19 27–28	••	••	$54 \cdot 2$	2.7	25.0	18•1	100.0
1928-29	••		54.8	2.6	24.7	17 • 9	100.0
1929-30			54.4	2.8	24.8	18.0	100.0
1930-31	••		$53 \cdot 9$	2.8	24.9	18.4	10 0 · 0

PROPORTION OF OUTLAY TO OUTPUT OF FACTORIES, 1921-22 to 1930-31.

The apparent decrease since 1923-24 in the percentage available for profit and miscellaneous expenses, as shown in the last table, is largely accounted for by the fact that the amount of salaries and wages includes for those years the sums drawn regularly by working proprietors amounting in the successive years to £1,612.911. £1,671,647, £1,933,032, £2,056,699, £2,066,819, £2,129,695, and £1,920,198.

The ratio of salaries and wages to the value of the output of factories was $24 \cdot 9$ per cent. on the average of the last five years, as against $23 \cdot 7$ per cent. in the period 1921-22 to 1925-26. The cost of materials was 54.4 per cent. of the value of output in the period 1926-27 to 1930-31, as compared with $55 \cdot 8$ per cent. in the years 1921-22 to 1925-26. The proportionate outlay on fuel, light, and power was $2 \cdot 4$ per cent. in the earlier and $2 \cdot 7$ per cent. in the later period. The balance available for miscellaneous expenses, rent, interest, and manufacturers' profit was £17 19s. 6d. in every £100 of the total output value in the period 1926-27 to 1930-31, as compared with £18 1s. 11d. in the preceding five-year period.

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Capital Invested in manufacturing plant and premises.

In the following statement the amount of capital invested in machinery and plant and land and buildings used in connexion with the various classes of manufacturing industries is shown for the year 1930-31 :--

MACHINERY, PLANT, LAND AND BUILDINGS USED IN MANUFACTURING INDUSTRIES, 1930-31.

Class of Industry.	Value of Machinery and Plant.	Value of Land and Buildings.
	£	£
1. Treatment of non-metalliferous mine and quarry products	1,568,987	2 843,432
2. Bricks, pottery, glass, &c.	636,841	684,504
3. Chemicals, dyes, explosives, paint, oils, and grease	2,384,958	2,245,324
4. Industrial metals, machines, implements, and conveyances	5,330,389	7,591,173
5. Precious metals, jewellery, and plate	67,137	250,275
6. Textiles and textile goods (not dress)	3,230,222	2,574,679
7. Skins and leather (not clothing or footwear) \dots	408,259	868,550
8. Clothing	1,157,734	4,675,477
9. Food, drink, and tobacco	6,666,593	7,805,344
10. Woodworking and basketware	894,585	1,004,477
11. Furniture, bedding, &c	251,711	862,904
12. Paper, stationery, printing, bookbinding, &c.	2,587,085	3,120,518
13. Rubber	1,043,099	848,651
14. Musical instruments	50,005	162,600
15. Miscellaneous products	230,736	312,281
16. Heat, light, and power	8,263,346	2,368,195
T otal	34,771,687	36,218,384

The capital invested in plant, buildings, &c., used in connexion with four classes of industry—food and drink; clothing; textile

fabrics; and heat, light and power—amounted, in the year under review, to £36,741,590, 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 1921-22 to 1930-31 :--

MACHINERY, PLANT, LAND AND BUILDINGS USED IN MANUFACTURING INDUSTRIES, 1921-22 to 1930-31.

		Year.			Value of Machinery and Plant.	Value of Land and Buildings.
					 £	£
921-22	••	• •		•••	 21,182,110	19,810,170
922-23	·		••		 23,994,715	22,428,525
923-24					 28,223,915	24,972,560
924 - 25					32,563,815	28,468,160
925-26					 30,549,130	29,847,370
926-27	••				 31,580,350	32,269,655
927-28					 32,745,680	34,761,340
928-29	••				 33,724,910	36,184,460
929-30					 35,022,535	36,988,485
930-31		••			 34,771,687	36,218,384

It will be seen from these figures that the values of machinery and plant and land and buildings increased by 73 per cent. between 1921-22 and 1930-31.

Accidents in factories. In the appended table the number of accidents in factories is given for the last 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.

ACCIDENTS IN FACTORIES, 1920 to 1930.

Year.	Number of Employees.	Number of Accidents.	Percentage of Accidents to Number of Employees.
1920	116,846	862	•737
1921	117,633	830	•705
1922	126,630	787	·621
1923	128,915	1,034	·802
1924	129,147	1,052	·814
1925	128,013	996	•778
1926	135,510	1,252	· 924
1927	136,022	1,348	•991
1928	137,244	1,224	•891
1929	136,025	1,129	$\cdot 829$
1930	104,926	890	· 848

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The foregoing tables do not include particulars relating to Manufactures work of various kinds done by the Penal Department at Penal Department and Blind Pentridge and the Royal Victorian Institute for the Blind. Institute. At the former establishment the manufacture of wire netting, clothing, brushware, boots, mats, blankets, flannel, underclothing, and printing are carried on. The estimated value of the output for 1930-31 was £51,758, and of the materials used, £37,508. The articles produced are used principally by Government Departments. The work carried on by the latter is the manufacture of brushware, basketware, mats and matting, and gives employment to 154 persons (133 males and 21 females). The value of the work turned out for the period under review was £31,375.

Value of Victorian production. Production. The value of all articles produced or manufactured in Victoria has been compiled from actual returns or estimates in the office of the Government Statist, and the results are set forth in the following table :---

VALUE OF VICTORIAN PRODUCTION, 1926-27 to 1930-31.

$\begin{array}{ c c c c c c c c c c c c c c c c c c c$				Value in		
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Produce.	1926-27.	1927-28.	1928-29.	1929-30.	1930-31.
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	Cultivation.	£	£	£	£	£
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Wheat	9,546,812	4,724,369			3,600,190
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Oats	653,291	688,804	627,521	554,547	340,673
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Barley, malting	192,349	184,824	151,726	203,999	122,836
$\begin{array}{c c c c c c c c c c c c c c c c c c c $, other		112,503			32,017
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		152,055	121,368			90,005
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		58,483	48,995	36,000	45,111	24,776
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Grass and Clover					
$\begin{array}{c c c c c c c c c c c c c c c c c c c $					9,636	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	Potatoes					
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$						
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $					53,710	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $						
$\begin{array}{c c c c c c c c c c c c c c c c c c c $		57,700	35,280	39,510	54,000	149,790
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$						
Raisins, ordinary 99(080 76,100 82,873 96,451 83,908 ", sultanas 1,195,183 623,241 857,975 797,736 692,750 Ourrants 182,536 152,171 273,186 186,406 194,039 Wine 254,184 152,212 84,239 82,182 61,817 Hops 169,074 50,262 36,800 38,120 26,068 Other Crops 109,022 168,618 119,397 144,663 157,387 Fruit grown for sale 970,831 1,189,356 1,093,434 927,723 751,716 Fruit in private 9,570 10,520 8,500 9,100 8,250 Market Gardens 887,550 949,200 931,500 1,060,500 1,009,840		F (000	01 /01	FO 019	91 090	90 401
"sultanas 1,195,183 623,241 857,975 797,736 692,750 Currants 182,536 152,171 273,186 186,406 194,039 Wine 264,184 152,212 84,239 82,182 61,817 Hops 160,074 50,262 36,800 38,120 26,068 Other Crops 109,022 168,618 119,397 144,663 157,387 Fruit grown for sale 970,831 1,189,356 1,093,434 927,723 751,716 Fruit in private 970,831 1,0520 8,500 9,100 8,250 Market Gardens 9,570 10,520 8,500 9,100 8,250						
Currants 182,536 152,171 273,186 186,406 194,038 Wine 264,184 152,171 273,186 186,406 194,038 Hops 264,184 152,212 84,233 82,182 61,817 Hops 160,74 50,262 36,800 38,120 23,086 Other Crops 109,022 168,618 119,397 144,663 157,387 Fruit grown for sale in orchards and gardens 970,831 1,189,356 1,093,434 927,723 751,716 Fruit in private orchards and gar- dens 9,570 10,520 8,500 9,100 8,250 Market Gardens 887,550 949,200 931,500 1,060,500 1,009,840					707 798	
Wine 254,184 152,212 84,233 82,182 61,817 Hops 16,074 50,262 36,800 38,120 26,086 Other Crops 109,022 168,618 119,397 144,663 157,387 Fruit grown for sale in orchards and gardens 970,831 1,189,356 1,093,434 927,723 751,716 Fruit in private orchards and gar- dens 9,570 10,520 8,500 9,100 8,250 Market Gardens 887,550 949,200 931,500 1,060,500 1,009,849	Charman to the					
Hops 16,074 50,262 36,800 38,120 26,068 Other Crops 109,022 168,618 119,397 144,663 157,387 Fruit grown for sale in orchards and gardens 970,831 1,189,356 1,093,434 927,723 751,716 Fruit in private orchards and gar- dens 9,570 10,520 8,500 9,100 8,250 Market Gardens 887,550 949,200 931,500 1,000,500 1,009,840	****					61 817
Other Crops 109,022 168,618 119,397 144,663 157,387 Fruit grown for sale in orchards and gardens 970,831 1,189,356 1,093,434 927,723 751,716 Fruit in private orchards and gar- dens 9,570 10,520 8,500 9,100 8,250 Market Gardens 887,550 949,200 931,500 1,060,500 1,009,840						28,068
Fruit grown for sale in orchards and gardens 970,831 1,189,356 1,093,434 927,723 751,716 Fruit in private orchards and gar- dens 9,570 10,520 8,500 9,100 8,250 Market Gardens 887,550 949,200 931,500 1,060,500 1,009,850						
in orchards and gardens 970,831 1,189,356 1,093,434 927,723 751,716 Fruit in private orchards and gar- dens 9,570 10,520 8,500 9,100 8,250 Market Gardens 887,550 949,200 931,500 1,000,500 1,009,850		100,022	100,010	110,001	111,000	201,001
gardens 970,831 1,189,356 1,093,434 927,723 751,716 Fruit in private orchards and gar- 9.570 10,520 8,500 9,100 8,250 Market Gardens 887,550 949,200 931,500 1,060,500 1,009,840			1			
Fruit in private orchards and gar- dens 9,570 10,520 8,500 9,100 8,250 Market Gardens 887,550 949,200 931,500 1,060,500 1,009,850		970 831	1 189.356	1.093.434	927.723	751,716
orchards and gar- dens 9,570 10,520 8,500 9,100 8,250 Market Gardens 887,550 949,200 931,500 1,060,500 1,009,850		010,001	1,100,000	1,000,101	021,120	,
dens 9,570 10,520 8,509 9,100 8,250 Market Gardens 887,550 949,200 931,500 1,060,500 1,009,850)	}	· ·	1	
Market Gardens 887,550 949,200 931,500 1,060,500 1,009,850		9.570	10.520	8,500	9,100	8,250
						1,009,850
						-4,205,669
	m / 1			14.004.055	0.005 504	6,598,156
Total 15,744,992 8,570,865 14,364,655 8,985,524 6,598,156	Total	15,744,992	8,570,865	14,304,055	8,980,024	0,090,100

* Exclusive of area under sown grasses.

VALUE OF	VICTORIAN	PRODUCTION,	1926-27 то	1930-31-continued	J.

$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	Produce.			Value in—		
Milk consumed in natural state 2,326,800 2,184,900 2,025,500 1,858,000 1.685,200 Butter made 2,326,800 2,184,900 2,025,500 1,858,000 1.685,200 Cheese made 270,620 244,140 325,600 325,774 325,774 Condensed, and Powderd 1.498,060 1,906,720 1,713,600 1,557,880 1,277,866 Milk 2,330,830 3,308,880 4,203,500 1,557,880 1,277,866 Sheep (without wool) 2,340,426 -2,701,730 2,298,000 1,622,700 1,602,200 1,537,880 Mol -2,340,426 -2,701,730 -2,368,289 -2,556,965 -2,466,918 Total -2,340,426 -2,701,730 -2,368,289 -2,556,965 -2,466,918 Mining. 20,8778 163,099 144,038 111,609 102,456 Coal 208,778 163,099 144,038 111,609 102,456 Coal 124,567 156,246 113,765 105,602		1926-27.	1927-23.	1928-29.	1929-30.	1930-31.
natural state 2,328,800 2,023,900 1,858,000 1,655,200 1,655,200 6,901,330 6,570,817 Cheese made 270,620 244,140 325,600 326,774 326,774 Condensed, Concentrated, and Powdered 1,448,060 1,906,720 1,713,600 1,557,880 1,277,866 Milk 2,380,830 3,308,880 4,308,880 4,308,880 4,157,000 3,299,800 3,215,000 2,347,000 2,346	Dairying and Pastoral.	£	£	£	£	£
Butter made 6,233,400 6,475,700 7,682,200 6,501,330 6,570,817 Cheese made (not for butter) 154,380 174,610 212,800 227,470 152,509 Condensed, Concentrated, and Powdered 1,498,060 1,906,720 1,713,600 1,557,880 1,277,866 Milk 2,330,850 3,308,850 4,203,500 4,157,000 3,299,800 Pigs 1,498,750 1,189,410 1,602,700 1,602,200 1,155,400 Wool 7,676,683 970,660 0,0252,002 5,604,019 4,374,823 Less Deductions 22,880,367 26,424,600 29,137,413 23,135,433 18,728,380 Mining. 208,778 163,699 144,098 111,609 102,456 Coal 700,200 652,800 602,900 624,613 324,811 Minerals 124,567 156,246 113,765 105,602 108,388 Total 124,567 156,246 113,765 105,602 108,388 44,349<						
Cheese made 270,620 244,140 325,600 378,500 326,774 Cream made Condensed, Concentrated, and Powdered 154,880 174,610 212,800 227,470 152,509 Milk 2,330,880 1,906,720 1,713,600 1,557,880 1,277,866 Milk 2,330,850 1,894,175 1,189,410 1,622,700 1,657,880 1,277,866 Sheep (without wool) 2,585,770 3,740,310 3,468,000 3,315,000 3,237,400 Wool 7,876,683 9,701,660 10,252,002 5,644,019 4,374,932 Less Deductions 22,280,367 26,424,600 29,137,413 23,135,433 18,728,380 Mining. Gold 208,778 163,699 144,0.98 111,609 102,456 Minerals 846,697 982,533 993,402 981,412 981,412 Stone from Quarries (inclusted) 863,493 782,700 676,200 624,613 324,811 Other Metals and 1,880,242 1,965,275 <	70 d d			2,025,300		
Cream made (not for butter) 154,880 174,610 212,800 227,470 152,509 Condensed, Concen- trated, and Powdered 1,498,060 1,906,720 1,713,600 1,557,880 1,277,866 Milk 2,330,850 3,308,880 4,203,500 4,157,000 3,299,800 Pigs 1,343,750 1,189,410 1,602,200 1,602,200 5,644,019 4,374,82 Jess Deductions -2,340,426 -2,701,730 -2,268,289 -2,559,965 -2,465,918 Jess Deductions -2,340,426 -2,701,730 2,3135,433 18,728,380 Mining. 208,778 163,699 144,098 111,609 102,456 Coal 846,697 982,533 933,408 991,422 981,412 Stone from Quarrise (in- cluding limestone) 700,200 652,800 602,900 624,613 324,811 Other Metals and Minerals 1,880,242 1,965,278 1,794,141 1,833,246 1,517,067 Forest Produce. 1,888,799 1,800,400 1,714,610 1,085,922 Miscellaneous.						
butter) 154,880 174,610 212,800 227,470 152,509 Condensed, Concentrated, and Powdered Milk 1,498,060 1,906,720 1,713,600 1,557,880 1,277,866 Milk 2,330,830 3,308,880 4,203,500 4,157,000 3,299,800 Pigs 1,343,750 1,189,410 1,622,700 1,654,400 Sheep (without wool) 2,585,770 3,740,310 3,468,000 3,315,000 2,347,000 Wool -2,340,426 -2,701,730 -2,368,239 -2,555,965 -2,466,918 Mining. 22,280,367 26,424,600 29,137,413 23,135,433 18,728,380 Mining. 208,778 163,699 144,038 111,609 102,456 Gold 208,778 163,699 934,403 991,422 981,412 Stone from Quarries (including limestone) 700,200 652,800 602,900 624,613 324,811 Other Metals and Minerals 1,880,9242 1,965,278 1,794,141 1,833,246 </td <td></td> <td>210,020</td> <td>244,140</td> <td>343,000</td> <td>378,000</td> <td>320,774</td>		210,020	244,140	343,000	378,000	320,774
Condensed, Concentrated, and Powdered Milk 1,498,060 1,906,720 1,713,600 1,557,880 1,277,860 Cattie 2,330,330 3,308,830 4,203,500 1,602,200 1,557,880 1,277,860 Bineep (without wool) 1,343,750 1,749,710 1,422,700 1,602,200 1,557,880 1,277,860 Wool 7,876,683 9,701,660 10,252,002 5,694,019 4,374,982 Less Deductions -2,340,426 -2,701,730 -2,388,289 -2,555,965 -2,456,918 Mining. 22,280,367 26,424,600 29,137,413 23,135,434 18,728,380 Mining. 208,778 163,699 144,098 111,609 102,456 Coal 846,697 982,533 933,408 991,422 981,412 Stone from Quarries (including limestone) 700,200 652,800 602,900 624,613 324,811 Other Metals and 124,567 156,246 113,765 105,602 108,388 Total 1,880,242 1,965,278 1,794,141 1,883,406 732,141		154.880	174,610	212,800	227.470	152.509
Milk 1.498,060 1.906,720 1.713,600 1.557,880 1.277,866 Cattie 2.330,830 3.308,850 4.203,500 4.157,000 3.299,800 Pigs 1.343,750 1.284,401 1.622,200 1.602,200 2.583,770 3.740,310 3.448,000 3.315,000 2.347,000 Wool 2.340,426 -2.701,730 -2.388,289 -2.555,965 -2.456,918 Image: Constraint of the state of the sta	Condensed, Concen-				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
Cattle 2.337,330 3.308,380 4.203,500 4.157,000 3.299,300 Pigs 1,343,750 1,343,750 1,343,750 1,343,750 1,343,750 1,343,750 1,343,750 1,343,700 3,315,000 3,315,000 3,315,000 3,315,000 2,347,000 2,345,001 4,374,932 2,456,918 13,749,32 2,353,98 -2,555,965 -2,456,918 13,749,33 18,728,380 14,038 911,409 102,456 962,553 933,408 991,422 981,412 981,412 981,412 981,412 981,412 981,412 981,412 981,412 981,412 981,412 981,412 981,412 981,412 981,412 981,412 981,412 981,412 981,412 9		1 100 000	1 000 500			
Pigs 1,343,750 1,152,4700 1,622,700 1,652,700 1,355,400 Sheep (without wool) 2,585,770 3,740,310 3,445,000 2,315,000 2,347,000 Wool 2,376,683 9,701,660 10,252,002 5,694,019 4,374,982 Less Deductions 22,280,367 26,424,600 29,137,413 23,135,434 18,728,380 Mining. 208,778 163,699 144,038 111,609 102,256 Gold 208,778 163,699 144,038 111,609 102,456 Coal 846,697 982,533 933,408 991,422 981,412 Stone from Quarries (Including limestone) 700,200 652,860 602,900 624,613 324,811 Other Metals and 124,567 156,246 113,765 105,602 108,388 Total 1,880,242 1,955,278 1,794,141 1,833,246 1,517,067 Firewood (estimated) 883,493 782,700 676,200 681,625 310,432 Miscellaneous. 136,906						
Sheep (without wool) Wool 2,585,770 3,740,310 3,498,000 3,515,000 2,347,000 Less Deductions						
Wool7.876,6839.701,66010.252,0025.694,019 $\overline{4.374,932}$ Less Deductions7.876,6839.701,730 $-2,368,289$ $-2,555,965$ $-2,456,913$ Total22,280,36726,424,60029,137,41323,135,43418,728,380Mining208,778163,699144,078111,609102,456Goal208,778163,699144,078991,422981,412Stone from Quarries (Including limestone)700,200652,800602,900624,613324,811Other Metals and Minerals124,667156,246113,765105,602108,388Total1,880,2421,955,2781,794,1411,833,2461,517,067Forest Produce863,493782,700676,200631,625310,432Timber (Forest Sawmills only)863,493782,700676,200631,625310,432Firewood (estimated)863,493782,700676,200631,625310,432Miscellaneous.47,28260,14082,85460,12545,498Miscellaneous.47,28260,14082,85460,12545,498Outlery production (estimated)167,601185,84073,870223,587Manufacturing— Added Value*47,326,98844,439,85352,382,33341,190,00032,420,753	Sheep (without wool)					
Less Deductions-2,340,426-2,701,730-2,368,289-2,555,965-2,456,918Total22,280,36726,424,60029,137,41323,135,43418,728,380Mining.208,778163,699144,098111,609102,456Coal208,778163,699993,408991,422981,412Stone from Quarries (In- cluding limestone)700,200652,860602,900624,613324,811OtherMetalsand124,567156,246113,765105,602108,388Total1,880,2421,965,2781,794,1411,833,2461,517,067Forest Produce863,493782,700676,200681,625310,432Firewood (estimated)863,493782,70098,38086,58944,349Miscellaneous.136,906107,70098,3801,704,6141,086,922Miscellaneous.1.888,7991,800,4001,713,5801,704,6141,086,922Miscellaneous.47,28260,14082,85460,12545,498Honey and Beeswax47,28260,14082,85460,12545,498Fish167,461185,840173,870223,537166,450Total5,542,5835,685,2105,372,5445,531,1824,490,228Total5,542,5835,685,2105,372,5445,531,1824,490,228Total51,565,20151,062,02759,403,185 <td< td=""><td></td><td>7,876,683</td><td>9,701,660</td><td>10,252,002</td><td>5,694,019</td><td></td></td<>		7,876,683	9,701,660	10,252,002	5,694,019	
Mining. Jacobi Line <	Less Deductions	-2,340,426	-2,701,730	-2,368,289	-2,555,965	-2,456,918
Gold 208,778 163,699 144,098 111,609 102,456 Coal 846,697 982,533 933,408 991,422 981,412 Stone from Quarries (in- cluding limestone) 700,200 652,800 602,900 624,613 324,811 Other Metals and 124,567 156,246 113,765 105,602 108,388 Total 124,567 156,246 113,765 105,602 108,388 Forest Produce. 863,493 782,700 676,200 681,625 310,432 Firewood (estimated) 863,493 782,700 99,000 998,400 732,141 Bark for Tanning 883,409 107,700 98,380 86,589 44,349 Total 883,799 1,800,400 1,713,580 1,704,614 1,086,922 Miscellaneous. 47,282 60,140 82,854 60,125 45,498 Poultry production (estimated) 4,819,500 5,782,500 820,820	Total	22,280,367	26,424,6 00	29,137,413	23,135,434	18,728,380
Coal	Mining.					
cluding limestone) 700,200 652,860 602,900 624,613 324,811 Other Metals and Minerals 124,667 156,246 113,765 105,602 108,388 Total 1,880,242 1,955,278 1,794,141 1,833,246 1,517,067 Forest Produce. 1,880,242 1,955,278 1,794,141 1,833,246 1,517,067 Forest Produce. 863,493 782,700 676,200 681,625 310,432 Firewood (estimated) 883,400 910,000 939,000 936,400 732,141 Bark for Tanning 136,906 107,700 98,380 86,589 44,349 Total 1.888,799 1,800,400 1,713,580 1,704,614 1,086,922 Miscellaneous. 47,282 60,140 82,854 60,125 45,498 Poultry production (estimated) 187,461 185,840 173,870 223,557 166,450 Total 5,542,583 5,685,210 5,372,544 5,5	Coal					
Minerals 124,667 156,246 113,765 105,602 108,388 Total 1,880,242 1,955,278 1,794,141 1,833,246 1,517,067 Forest Produce. 863,493 782,700 676,200 681,625 310,432 Firewood (estimated) 883,400 910,000 939,000 936,400 732,141 Bark for Tanning 136,906 107,700 98,380 86,589 44,349 Miscellaneous. 1.888,799 1,800,400 1,713,580 1,704,614 1,086,922 Miscellaneous. 47,282 60,140 82,854 60,125 45,498 Poultry production (estimated) 47,282 60,140 82,854 60,125 45,498 Babits and Hares 508,340 185,840 173,870 223,587 166,450 Total 5,542,583 5,685,210 5,372,544 5,531,182 4,490,228 Total 51,065,291 51,062,027 49,403,185 37,877,866 <td>cluding limestone)</td> <td>700,200</td> <td>652,800</td> <td>602,900</td> <td>624,613</td> <td>324,811</td>	cluding limestone)	700,200	6 52,800	602,900	624,613	324,811
Forest Produce. Timber (Forest Saw- mills only) 863,493 782,700 676,200 681,625 310,432 Firewood (estimated) Bark for Tanning 883,493 782,700 676,200 981,605 310,432 Total 888,400 910,000 989,000 9836,400 732,141 Bark for Tanning 136,906 107,700 98,380 86,583 44,349 Morey and Beeswax 47,282 60,140 82,854 60,125 45,498 Poultry production (estimated) 47,282 60,140 82,854 60,125 45,498 Poultry production (estimated) 187,461 185,840 173,870 223,537 166,450 Total 167,461 185,842 173,870 223,537 166,450 Total 5,542,583 5,685,210 5,372,544 5,531,182 4,490,228 Total 47,326,983 44,436,853 52,382,333 41,190,000 32,420,753 <		124,567	156,246	113,765	105,602	108,388
Timber (Forest Saw- mills only) 863,493 782,700 676,200 681,625 310,432 Firewood (estimated) 883,400 910,000 939,000 936,400 732,141 Bark for Tanning 136,906 107,700 98,380 86,589 44,349 Total 1.888,799 1,800,400 1,713,580 1,704,614 1,086,922 Miscellaneous. 47,282 60,140 82,854 60,125 45,498 Poultry production (estimated) 47,282 60,140 82,854 60,125 45,498 Babits and Hares 508,340 779,230 820,820 609,470 352,280 Total 5,542,583 5,685,210 5,372,544 5,531,182 4,490,228 Total 47,326,988 44,436,853 52,382,333 41,190.000 32,420,753 Manufacturing— 41,05,430 51,665,291 51,062,027 49,403,185 37,877,866		1,880,242	1,955,278	1,794,141	1,833,246	1,517,067
mills only) 863,493 782,700 676,200 681,625 310,432 Firewood (estimated) 883,400 910,000 938,000 938,000 732,141 Bark for Tanning 136,906 107,700 98,380 86,589 44,349 Total 1.888,799 1,800,400 1,713,580 1,704,614 1,086,922 Miscellaneous. 47,282 60,140 82,854 60,125 45,498 Poultry production (estimated) 4,819,500 4,760,000 4,225,000 4,688,000 3,926,000 Rabbits and Hares 508,340 167,461 185,840 173,870 223,587 166,450 Total 5,542,583 5,685,210 5,372,544 5,531,182 4,490,228 Total Value of Primary Products 47,326,988 44,436,853 52,382,333 41,190.000 32,420,753 Manufacturing— Added Value* 51,065,430 51,665,291 51,062,027 49,403,185 37,877,866						
Firewood (estimated) Bark for Tanning 888,400 136,906 910,000 910,000 939,000 98,380 936,400 86,589 732,141 44,349 Total 1.888,799 1,800,400 1,713,580 1,704,614 1,086,922 Miscellaneous. 47,282 60,140 82,854 60,125 45,498 Poulkry production (estimated) 4,819,500 4,760,000 4,295,000 4,688,000 3,926,000 Babbits and Hares 508,340 679,230 820,820 609,470 352,230 Fish 167,461 185,840 173,870 223,587 166,450 Total 5,542,583 5,685,210 5,372,544 5,531,182 4,490,228 Total 47,336,988 44,436,853 52,382,333 41,190,000 32,420,753 Manufacturing— 51,005,430 51,665,201 51,002,027 49,403,185 37,877,866		089 409	799 700	676 900	491 495	010 490
Bark for Tanning 136,906 107,700 98,380 86,589 44,349 Total 1.888,799 1,800,400 1,713,580 1,704,614 1,086,922 Miscellaneous. 1.888,799 1,800,400 1,713,580 1,704,614 1,086,922 Honey and Beeswax 47,232 60,140 82,854 60,125 45,498 Poultry production (estimated) 4,819,500 4,760,000 4,295,000 4,688,000 3,926,000 Rabbits and Hares 508,340 173,870 223,587 166,450 Total 5,542,583 5,685,210 5,372,544 5,531,182 4,490,228 Total Value of Primary Products 47,336,988 44,436,853 52,382,333 41,190,000 32,420,753 Manufacturing— Added Value* 51,065,291 51,062,027 49,403,185 37,877,866						
Miscellaneous. 47,282 00,140 82,854 60,125 45,498 Poultry production (estimated) 4,819,500 4,760,000 4,225,000 4,688,000 3,926,000 Rabbits and Hares 508,340 185,840 173,870 223,587 166,450 Total 5,542,583 5,685,210 5,372,544 5,531,182 4,490,228 Total Value of Primary Products 47,326,983 44,436,853 52,382,333 41,190.000 32,420,753 Manufacturing— Added Value* 51,005,430 51,565,291 51,062,027 49,403,185 37,877,866	Bark for Tanning		107,700			
Honey and Beeswax 47,282 60,140 82,854 60,125 45,498 Poultry production (estimated) 4,819,500 4,760,000 4,295,000 4,683,000 3,926,000 Rabbits and Hares 508,340 185,840 173,870 223,587 166,450 Total 5,542,583 5,685,210 5,372,544 5,531,182 4,490,228 Total Value of Primary Products 47,326,983 44,436,853 52,382,333 41,190.000 32,420,753 Manufacturing— Added Value* 51,065,420 51,062,027 49,403,185 37,877,866	Total .	1.888,799	1,800,400	1,713,580	1,704,614	1,086,922
Poultry production (estimated) 4,819,500 4,760,000 4,225,000 4,688,000 3,926,000 Rabbits and Hares 508,340 679,230 820,820 609,470 352,230 Fish 167,461 185,840 173,870 223,587 166,450 Total 5,542,583 5,685,210 5,372,544 5,531,182 4,490,228 Total Value of Primary Products 47,336,988 44,436,853 52,382,333 41,190,000 32,420,753 Manufacturing 51,005,430 51,565,201 51,002,027 49,403,185 37,877,866	Miscellaneous.					
timated) 4.819,500 4.760,000 4.295,000 4.889,000 3.926,000 Babbits and Hares 508,340 679,230 820,820 609,470 352,280 Fish 167,461 185,840 173,870 223,587 166,450 Total 5,542,583 5,685,210 5,372,544 5,531,182 4,490,228 Total Value of Primary Products 47,336,988 44,436,853 52,382,333 41,190.000 32,420,753 Manufacturing— Added Value* 51,065,291 51,062,027 49,403,185 37,877,866		47,282	60,140	82,854	60,125	45,498
Fish 167,461 185,840 173,870 223,587 166,450 Total 5,542,583 5,685,210 5,372,544 5,531,182 4,490,228 Total 5,542,583 5,685,210 5,372,544 5,531,182 4,490,228 Total Value of Primary Products 47,326,983 44,436,853 52,382,333 41,190.000 32,420,753 Manufacturing— Added Value* 51,065,291 51,062,027 49,403,185 37,877,866	timated)					
Total 5,542,583 5,685,210 5,372,544 5,531,182 4,490,228 Total Value of Primary Products 47,336,988 44,436,858 52,382,333 41,190,000 32,420,753 Manufacturing 51,005,430 51,565,291 51,062,027 49,403,185 37,877,866						
Total Value of Primary Products 47,336,983 44,436,853 52,382,333 41,190.000 32,420,753 Manufacturing 51,005,430 51,565,291 51,002,027 49,403,185 37,877,866	Fish	167,461	185,840	173,870	223,587	166,450
Products 47,336,983 44,436,853 52,382,333 41,190.000 32,420,753 Manufacturing	Total	5,542,583	5,685,210	5,372,544	5,531,182	4,490,228
Added Value* 51,005,430 51,565,291 51,062,027 49,403,185 37,877,866	Products	47,336,983	44,436,858	52, 382,333	41,190,000	32,420,753
Grand Total 98,342,418 96,001,644 103,444,360 90,593,185 70,298,619		51,005,430	51,565,291	51,062,027	49,403,185	37,877,866
	Grand Total	98,342,413	96,001,644	103,444,360	9 0,593, 185	70,298,619

• Exclusive of value of output of butter and cheese factories, and forest saw-mills (as regards Victorian timber), which is included above under the headings "Dairying and Pastoral" and "Forest Produce," respectively.

Deductions made from the total value of "Cultivation" include cost of freight and handling charges, together with cost of bags, seed, manure, spraying material, and fodder used in the production of crops. In the case of "Dairying and Pastoral" production the deductions consist of cost of freight, handling charges, and wool packs, and the value of hay, bran and pollard, green fodder, and root crops used as fodder.

The inclusion of bakeries resulted in an increase in added value in manufacturing of $\pounds 1,251,524$ in 1927-28, of $\pounds 1,334,716$ in 1928-29, of $\pounds 1,225,275$ in 1929-30, and of $\pounds 1,083,388$ in 1930-31, for which allowance must be made when comparing the figures for the last four years with those of previous years.

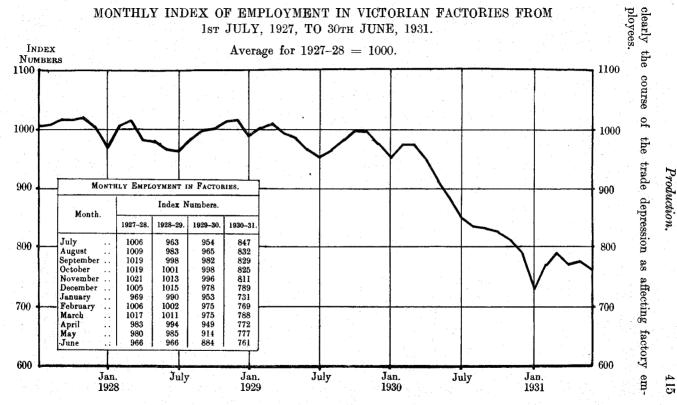
The values of different kinds of production per head of the total population in each of the last five years were as follows :---

	Value of Produce per head in—														
Produce.	199	1926-27.			1927-28. 1		19	19 28- 29		19	29-3	30.	1930-31.		
	£	8.	d.	£	8.	d.	£	8.	d.	£	8.	d.	£	8.	d.
Cultivation	9	4	0	4	18	5	8	3	2	5	1	1	3	13	8
Dairying and Pastoral	13	0	4	15	3	6	16	10	11	13	0	5	10	9	2
Mining	1	1	11	1	2	5	1	0	4	1	0	8	0	16	11
Forest	1	2	1	1	0	8	0	19	6	0	19	2	0	12	2
Miscellaneous	3	4	9	3	5	4	3	1	0	3	2	3	2	10	2
Total Primary Production	27	13	1	25	10	4	29	14	11	23	3	7	18	2	1
Manufactures	29	15	11	29	12	3	28	19	n	27	16	0	21	3	0
Grand Total	57	9	0	5 5	2	7	58	14	10	50	19	7	-39	5	1

VALUE OF PRODUCTION PER HEAD OF POPULATION, 1926-27 to 1930-31.

Monthly employment in factories. An analysis has been made of the number of employees in factories in Victoria on the pay day nearest the 15th day of each month for the past four years.

The figures have been converted into index numbers which are given hereunder with an accompanying graph. The latter indicates



Monthly employment in factories.

Statistics furnished by manufacturers include informa pay days nearest the 15th day of each month, including and all others engaged in work connected with manu This information has been tabulated and the monthly totals for

MONTHLY EMPLOYMENT

				Avera	ge Numbe
Industry.		July.	August.	Septem- ber,	October.
Aerated waters		513	508	568	654
Agricultural implements	••	2,510	2,521	2,571	2,371
	••	158	152	151	147
D		470	448	445	447
	••	133	133	136	132
Bags and sacks	•••	496	492	482	497
Bakeries		2,508	2,489	2,491	2.484
Th 1 /		107	102	116	107
D 110 1 11	••	352	337	335	315
Discutto	••	1,001	1,014	990	975
T	••	267	266	263	280
D	••	387	389	406	417
	••	287	283	284	282
	••	8,433	8,309	8.607	8,967
75 T	••	395	384	400	403
70 I	•• •	842	838	804	789
	••	1,114	1.011	1,031	1,088
D 1 1 1 1 1 1 1		898	959	824	670
Description of Lements	••	257	268	261	256
TD 14 1 1	••	1,928	2,057	2,174	2,386
(1) · · · ·	••	1,923	1,823	1.789	1,744
	••	650	687	642	473
OIf- de	••	810	812	805	785
C1 (7	••	402	406	400	382
	••	626	595	630	597
Chemical fertilizers	••	1,159	1.176	1.163	1,136
a les transferra	••	468	478	468	476
Condiments, conce		2,657	2,620	2,546	2,404
~	••	2,057	2,020	2,340	2,404
duit	•••	446	445	431	418
	•••	117	119	120	123
		156	164	154	
	••	146	142	134	134
T: 111 1	••	140	142	125	137
		5,284	5,208	5,422	5,196
T C C C	••	437	491	5,422 447	422
5 1 1 1	••	406	406	415	420
	••	400 578	400 585	415 612	420
Earthenware, china, &c Electric light—Government	••	796	787	012 793	571 737
T and handhand	••	286	284	283	277
Companies	••	139	139	$\frac{283}{139}$	
,, Companies Electrical installations	••	1,145	1.119	1.115	980
Electrotyping and stereotyping	••	1,145	28	1,115 26	
Engineering (not marine or electrical)		4,883	4,720		25
Explosives	••• ,	4,885	4,720	4,433 495	4,244 49 2

tion relating to the number of employees on factory pay-rolls on the managers, clerks, engine-drivers, operatives, carters and messengers facturing.

each industry are set out in the following table :---

IN FACTORIES, 1930-31.

of Employees in-

November.	December.	January.	February.	March.	April.	May.	June.
609	710	617	557	514	457	463	466
$\begin{array}{c} 683 \\ 2.343 \end{array}$	1,961	1,904	1,736	1,466	1,425	1,409	1,387
	1,901	1,304	1,150	144	161	168	152
135	476	460	462	467	472	478	470
456	470	143	119	125	116	117	124
135	483	450	437	423	415	411	408
508		2,446	2,443	2,445	2,430	2,421	2.433
2,463	2,434 114	2,440	125	124	2,400	67	103
106		335	$\frac{125}{354}$	372	379	378	389
330	331		942	952	781	908	882
1,000	987	888 254	270	253	254	248	250
295	294			255 477	478	485	491
422	377	381	$\begin{array}{c} 448\\ 275\end{array}$	279	278	276	265
287	280	279		2	8,805	9,131	8,586
8,990	7,518	6,438	8,072	$8,556 \\ 460$	458	443	434
416	433	431	439	400 659	438 625	614	616
778	773	709	691			1,060	1.056
1,121	1,132	1,113	1,083	1,084	1,066		567
558	476	505	508	459	412	500 251	251
259	256	249	255	258	252		1,994
2,486	2,458	2,241	2,187	2,115	2,069	1,957	1,994
1,658	1,641	1,505	1,511	1,510	1,517	1,526	
401	421	266	269	326	306	316	299
764	785	694	697	792	793	807	747 367
349	338	389	372	340	341	349	
501	553	586	585	642	833	607	525
1,120	1,149	1,088	1,097	1,100	1,090	1,099	
506	529	490	468	461	439	447	443
2,377	2,456	2,099	2,260	2,323	2,390	2,597	2,541
254	236	231	230	222	215	210	214
429	429	436	440	444	447	446	447
119	122	121	119	118	112	116	113
135	135	138	130	124	126	128	134
151	129	141	144	136	130	131	133
134	111	89	91	87	118	118	123
4,911	4,795	3,977	4,569	4,847	4,824	4,808	4,368
449	483	517	772	1,041	884	522	457
418	422	416	412	389	391	392	393
512	470	443	519	489	514	530	506
713	699	723	743	732	760	779	760
268	271	267	269	270	271	275	264
132	134	131	132	133	135	134	134
993	1,044	942	1,060	1,012	1,046	1,107	1,048
21	21	21	20	20	20	20	20
4,015	3,927	3,580	3,520	3,645	3,617	3,500	3,565
495	484	534	479	478	469	468	485

MONTHLY EMPLOYMENT IN

			Avera	ge Number
Industry.	July.	August.	Septem- ber.	October.
		-		
Extracting and refining—other metals	19	19	18	18
Fellmongery	229	223	252	268
Furnishing, drapery	185	184	169	182
Furriers	371	341	346	268
Galvanized iron working	1,680	1.680	1,732	1,750
Gas fittings and meters	237	233	232	234
Gasworks-Local authority	74	73	74	81
" Companies	781	768	736	754
Glass (including bottles)	771	771	785	773
Gold, silver, and electroplating.	612	615	551	562
Grain milling	781	768	757	801
Handkerchiefs, ties, &c.	311	339	355	385
TT-An and an a	1.270	1,279	1,221	1.273
Home drawn makialas	486	480	481	
Transama and Institution of	1			479
Too pofining mating	6,851	6,413	6,135	5,912
Ice refrigerating	152	149	162	201
	73	81	130	187
Inks, polishes, &c	288	286	286	289
Jams and fruit preserving	1,040	962	989	1,092
Jewellery	333	333	330	305
Joinery	745	730	718	708
Lime, plaster, and asphalt	558	517	490	481
Machine belting	47	42	44	44
Malting	284	276	279	295
Margarine	62	65	66	63
Marble, slate, &c	354	_352	337	344
Meat and fish preserving	613	4 601	910	1.493
Millinery	1,287	1,278	1,366	1,397
Modelling	43	40	38	35
Motor body building	1,102	1.129	1.012	1,109
Motor construction and assembly	546	513	487	460
Motor repairs	2,451	2,411	2,377	2,373
Musical instruments	348	336	346	287
Newspapers	2,083	2,090	2,044	2,039
Oils, mineral	209	194	206	2,005
Oils, vegetable	93	88	105	92
Papermaking, stationery	2,749	2,745	2,793	2,786
D	111	109	114	
"Dhata an an an an a	319	306		117
	227		291	293
Distance frames		229	232	218
	58	62	61	59
Printing and bookbinding	4,965	4,943	4,889	4,866
Rope and cordage	750	746	802	781
Rubber tyres, &c	1,042	951	1,063	1,063
Rubber, other (rubber goods)	973	942	1,025	1,012
Saddlery, harness	104	99	116	117
Sausage skins	184	171	187	286
Sawmills—Forest	1,498	1,400	1,387	1,293
"Town	1,151	1,117	979	978
Ship and boat building	322	439	411	369

FACTORIES, 1930-31-continued.

of Employees in-

					1		
November.	December.	January.	February.	March.	April.	May.	June.
10	16		17	17	16	18	20
16 264	$\begin{array}{c} 16\\212\end{array}$	138	192	202	235	252	20
204 196	190	150	164	202 165	156	177	158
270	265	277	323	371	411	422	370
1,834	1,805	1,656	1,613	1,698	1,540	1,514	1,489
208	1,805	1,050	1,015	200	202	220	237
$\frac{208}{72}$	72	67	198 67	200	67	67	231
757	752	770	749	755	752	747	742
508	587	519	411	394	566	664	464
493	476	459	438	451	462	489	467
793	811	400 904	942	841	889	964	869
379	364	278	309	316	286	304	304
1,207	1,178	913	1,043	1,025	992	998	1.057
486	484	466	458	451	434	426	398
5,935	5,998	6,041	6,697	7,063	7.330	7,586	7,398
220	236	241	230	215	159	144	146
$\frac{220}{195}$	200	193	167	111	68	56	54
282	280	264	276	279	279	276	273
1,113	1,097	1,870	2,346	3,213	1,175	1,075	839
324	328	216	2,340	266	272	282	275
687	663	599	589	$\frac{200}{577}$	589	572	578
429	425	402	401	382	367	382	374
43	42	402	42	42	40	41	39
286	270	188	141	144	164	236	243
68	69	69	71	81	84	82	89
333	333	318	336	311	316	314	301
1,738	1,570	646	1.024	971	910	747	954
1,349	1,347	1,120	1,024	1,403	1.286	1,142	1,064
32	30	1,120	26	33	28	27	30
1,066	863	764	801	822	767	782	755
457	478	443	419	401	390	397	411
2,333	2,325	2,277	2,245	2,199	2,174	2,123	2,101
278	265	226	261	271	290	277	247
2,026	2,032	2,010	1,999	1.956	1,920	1,891	1.889
201	198	183	188	182	193	190	183
101	84	96	99	103	126	113	127
2,699	2,804	2,622	2,635	2,632	2,616	2,637	2.629
112	110	104	100	-,00	93	85	80
294	284	288	279	272	279	271	261
217	213	203	236	225	183	204	206
55	56	53	50	53	52	54	49
4,834	4,777	4,596	4.601	4,587	4,576	4.582	4.557
760	739	618	673	665	732	745	737
1,085	1,182	931	944	1.115	1,197	1,094	1,004
1,002	957	836	811	820	826	842	928
115	106	94	103	100	101	112	102
306	269	211	214	222	218	196	218
1,213	1.203	1,122	1.146	1,145	1,031	1.031	962
930	920	709	830	834	715	757	718
359	258	339	233	218	287	209	213

MONTHLY EMPLOYMENT IN

					Avera	ige Numb
Industry.		·	July.	August.	Septem- ber.	October
Shirts, collars, &c.			4,635	4,680	4,681	4,715
Smelting, iron rolling	••	••	3,107	2,904	2,700	2,675
Soap and candle	••	••	630	626	624	620
Stoves and ovens	••	••	353	323	352	339
Surgical instruments		••	207	204	198	197
Tailoring	••	••	6,374	6,198	6,424	6.464
Tanning and leather dressing		••	1,405	1,327	1,372	1.357
Tents and sailmaking			140	128	133	1,001
Tobacco and cigarettes			1,493	1,495	1,593	1.698
Toys, games, &c.			311	321	324	333
Tram and railway workshops			6,590	6,558	6,236	5,961
Umbrellas			88	.87	84	84
Watches and clocks			42	42	42	42
Waterproof clothing	• •		225	224	227	210
White lead, paint, &c.	••		80	89	88	87
Window blinds, &c	••	••	35	32	29	28
Wireless apparatus	•••		363	434	322	265
Wireworking	••		530	525	525	489
Wood turning	••		395	373	352	380
Woollen mills	••		6,593	6,297	6,045	5,874
Other factories	••	••	3,877	3,650	3,643	3,585
			126,789	124,428	124,053	123,386

BUILDING STATISTICS, 1930-31.

In view of the great importance of statistics of building and construction, their collection was undertaken in Victoria in 1929. Owing, however, to the obvious incompleteness of the returns received, the information obtained was not considered satisfactory, and very few details were published. The data received from builders covering their operations for the years ending 30th June, 1930, and 1931, show evidence of much greater care in compilation, and are considered worthy of publication in full detail.

The particulars given below for the year 1930-31 were obtained from returns furnished by 930 builders.

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

· · · · · ·	-	}	1928-29.	1929-30.	1930-31.	
			£	£	£	
New buildings	••		5,747,671	5,025,237	1,958,307	
Repairs and additions			519,243	1,041,503	570,032	
Other construction	•••	••	••	235,328	130,806	
Tota	••	[6,266,914	6,302,068	2,659,145	

VALUE OF BUILDING WORK.

November.	December.	January.	February.	March.	April.	May.	June.
· .							
4,474	4,469	3,732	4,026	4,032	3,870	3,949	3,889
2,576	2,546	2,381	2,358	2,283	2,243	2,246	2,110
622	619	597	612	607	614	619	617
330	341	303	319	313	297	322	326
195	192	184	191	187	188	186	188
6,386	6,267	5,333	5,557	5,731	5,712	5,692	5,433
1,301	1,015	1,107	1,411	1,498	1,488	1,462	1,367
155	161	141	128	128	131	126	111
1,728	1,727	1,658	1,671	1,641	1,771	1,782	1,758
319	320	270	278	272	279	278	280
5,855	5,881	5,676	5,660	5,525	5,253	5,386	5,335
88	91	79	71	72	89	95	105
42	42	42	42	42	42	42	42
211	208	202	212	218	230	212	214
92	92	90	92	82	88	71	79
32	32	33	31	30	29	27	29
255	276	274	305	381	465	531	636
467	470	412	420	427	424	429	431
350	355	323	330	370	355	339	- 333
5,789	5,455	5,587	5,871	6,229	6,504	6,732	6,870
3,589	3,490	3,266	3,396	3,539	3,448	3,686	3,761
121,412	118,027	109,345	115,102	117,881	115,562	116,245	113,830

FACTORIES, 1930-31-continued.

The number of persons employed and the total salaries and wages paid are shown hereunder.

Persons Employed.	Number.	Salaries and Wages Paid.	Average Salary or Wage.		
Working proprietors	993	£ 141.172	£ s. d. 142 3 4		
Managers Clerks—	86	25,960	301 17 2		
Male	42	6,855	163 4 3		
Female	33	3,469	105 2 5		
Others	2,871	423,567	147 10 8		

The average wage paid to "Others," in which term is included all workers directly employed by the builders, is low, probably because work had been intermittent on account of a severe depression which prevailed in the building industry during the period. The following statement shows the payments to sub-contractors :---

Plumbers Painters Electricians	•••	•••	£ 99,990 51,433 41,407	Bricklayers Tilers Others	 	••	£ 44,291 29,711 361,089
Joiners	••	••	53,607	Total	••	••	681,528

PAYMENTS TO SUB-CONTRACTORS, 1930-31.

The term "Others" in this statement includes sub-contractors for excavations, concreting, asphalting, fibro-cement and plaster work, plastering, &c., and where certain builders have been unable to dissect their costs the total has been included under this heading. 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 value of materials used has been, in most cases, carefully dissected, but some builders have been unable to give the details asked for. This is regrettable, as it is important that complete statistics in regard to materials used should be available. Where the details could not be supplied it was necessary to include the total cost of all materials used under the heading of "Other materials." The value of the materials used is shown below :—

	Mater	iala			Value.		
	mater	1415.			1929-30.	1930-31.	
					£	£	
Timber	••				1,108,896	406,340	
Bricks	••	••			330,423	114,011	
Tiles			• •		81,483	45,274	
Cement and lime	••	• •	••		186,623	95,269	
Other materials	••	••	••	• ••	1,482,196	599,423	
	Total	••	••		3,189,621	1,260,317	

In addition to payment 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 total £43.894.

Capital invested in plant and machinery amounted to £100,852, and in land and buildings used as workshops to £97,685.

The following table is an analysis of the buildings completed during the years 1929-30 and 1930-31. 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 these respective years. The table published at the beginning of this review purporting to show value of work done is designed for this purpose.

BUILDINGS COMPLETED DURING 1929-30 AND 1930-31.

and and a second se		192	9-30.	1930-31.		
	•	Number.	Value.	Number.	Value.	
		·				
Business premises		361	$^{\pounds}_{1,473,018}$	142	£ 757,680	
Other buildings Dwellings—	••	••	835,360	••	372,900	
Brick		927	1,215,338	273	388,109	
Wood	••	1,727	1,252,667	465	298,524	
Total Value	••	••	4,776,383	••	1,817,213	

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.

Number of Rooms.	Brick Dwellings.		Average Value per	Wooden Dwellings.		Average Value per
	Number.	Value.	Dwelling.	Number.	Value.	Dwelling
	-				· · · · · · · · · · · · · · · · · · ·	
		£	£		£	£
Three rooms	7	3,181	455	41	13,152	320
Four rooms	19	11,070	583	124	64.035	516
Five rooms	119	118,263	994	246	171.541	699
Six rooms	70	89,640	1.280	42	33,628	800
Seven rooms	26	49,305	1,896	4	3,893	973
Eight rooms	9	24,458	2,717	3	2.471	823
Nine rooms	8	22,067	2,758	1	755	755
Ten rooms	6	20,492	3,415	3	6.230	2.073
Over ten rooms	9	49,633	5,515	1	2,819	2,819

DWELLINGS CONSTRUCTED, 1930-31.