

PRODUCTION.

LAND SETTLEMENT, ETC.

The total area of the State is 56,245,760 acres. This comprises-Acres. Lands alienated in fee simple 25,589,484 . . Lands in process of alienation 8,856,710 . . Crown lands 21,799,566 Total 56,245,760 The Crown lands comprise-Permanent forests (under Forests Act) 3,569,226 • • Timber reserves (under Forests Act) 736,355 • • State forests and Timber reserves (under Land Act) 329,385 Water reserves ... 314,397 . . Reserves for Agricultural Colleges, &c. 85,894 . . Reserves in the Mallee 406,840 Other reserves . . 328,095 Roads .. 1,794,218 . . Water frontages, beds of rivers, lakes, &c.; (2,288,740unsold land in cities, towns, and boroughs Land in occupation under-Perpetual leases 100.873 Other leases and licences 69,044 Temporary grazing licences 6,025,518 . . • • Unoccupied 5,750,981 Total 21,799,566 . .

9354.--28

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 in each year since 1916. A portion of the area conditionally sold reverts to the

Crown each year in consequence of the non-fulfilment of conditions The lands alienated each year include areas selected by the selectors. in previous years.

Year.	Area of Crow	n Lands Sold.	Crown Lands alienated in Fee Simple.			
1.001.	Absolutely, at Auction, &c.	Conditionally to Selectors.*	Area.	Purchase Money.		
	Acres.	Acres.	Acres.	£		
1917	. 2,075	89,164	82,042	79,992		
1918	. 1,760	74,514	76,064	78,235		
1919	. 1,166	70,729	102,294	114,654		
1920 .	. 3,125	102,534	187,228	192,861		
1921	1,800	99,519	110,056	100,890		
1922	. 2,658	186,686	106,485	118,698		
1923	. 3,015	200,517	142,940	167,669		
1924	3,093	151,875	126,147	167,322		
1925	2,920	92,996	185,038	129,187		
1926	. 2,832	93,469	125,765	87,740		

ALIENATION OF CROWN LANDS, 1917 to 1926.

Exclusive of Mallee selectors.

From the period of the first settlement of the State to the end of 1926 the amount realized by the sale of Crown Amount lands was £34,723,462, which represents an average of realized by sale of Grown £1 Os. 2d. 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.

Lands remaining for disposal.

The next table shows the whole of the unalienated lands of the Crown remaining for disposal :---

CROWN LANDS REMAINING FOR DISPOSAL ON 31st DECEMBER, 1926.

				Classi	fication.				
Locati	on.	Agricultural and Grazing.			Agricultural and Grazing.				
**		First.	Second.	Third.	Fourth	Un- classed.	Auri- ferous.	Total.	
Count Buln Buln Croajingolong Dargo Tambo Tanjil Wonnangatta Beogong Delatite Moira Benambra Benambra Benambra Benambra Bendigo Evelyn Bulhousie Evelyn Borung Gladstone Borung Gladstone Borung Gladstone Borung Gladstone Borung Gladstone Borung Gladstone Borung Grant Gren vile Ripon Normanby Normanby Polwatth Follett		Acres. 5,192 2,510 1,308 1,90 1,90 1,90 1,90 1,90 1,90 1,90 1,90 1,90 1,90 1,90 1,90 1,90 1,90 1,90 	Acres. 30,174 1,756 39,12,827 403 18,833 149 3,823 162 581 7,103 994 757 254 255 1,575 604 123 791 700 863 165 311 316 380 267 1,252	Acres. 77,071 566,859 102,222 219,797 109,548 159,678 203,557 294,160 198,858 10,833 59,704 1,235 391 9,184 3,333 66,604 2,143 141,495 3,436 164,891 24,552 23,687 119,319 43,056 4,1265	Acres.	837,400 431,900 398,850 942,100 163,724 230,050 423 10,843 8,810 15,754	Acres. 13,\$50 72,000 900 67,000 67,000 98,277 90,811 61,333 3,160 5,055 993 3,998 2,234 5,101 12,915 12,915 	$\begin{array}{c} A cres, \\ 112,437,\\ 421,375,606,122,\\ 610,648,\\ 1,101,817,479,693,705,848,\\ 514,464,11,528,66,687,\\ 1622,6,871,18,506,\\ 10,178,8,174,464,2,488,72,153,16,995,181,347,7,358,43,225,90,0165,754,6566,9787,7,36,856,9787,26,556,134,101,67,381,12,268,126,126,126,126,126,126,126,126,126,126$	
Total		 27,361		160,639 2,795,739	48,241	37,473 3,761,601		199,364 7,241,067	
Throughout the The north-west tion of the St	ern por-	Swamp o Lands w Mallee la	or reclaime hich may nds (such		auction	eventually		1,688 7,269 4,526,475	
Tota	l area rei	maining fo	r disposal		••	····	•••	11,776,499	

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

The particulars of Crown lands for which licences had Pastoral occupation of Grown lands. been issued for pastoral occupation on 31st December, 1926, are as follows :---

Number of Licences	••	•••	• •	5,382
Area (acres)	••	• •	•• *	6,025,518
Annual Rental	••	• •	••	$\pounds 24,160$

Persons who may select

Any person of the age of 18 years or upwards is eligible to apply to select under the Land Acts a prescribed area varying according to the classification of the land-less the area of previous selections.

The Lands Inquiry Branch gives information to Concessions to intending applicants and issues concession warrants for half fares on Victorian Railways to persons travelling to land seekers. make inspection or take possession of land.

An applicant may select in the Mallee, under Selection Area that may Purchase Lease, 640 acres of first class, 1,000 acres of be selected. second class, 1,280 acres of third class, or 1,600 acres of fourth class land, or 4,000 acres of land classed 4A; and, in addition, may acquire privately an area equivalent to that which he selects from the Crown.

Grazing licences

Grazing licences are renewable annually, and are only granted for waste lands of the Crown until required under the principal sections of the Act.

A conspectus of the provisions of the Victorian Land Acts appears in the Year-Book for 1916-17 and previous issues.

Transfer of Land Act.

Land Laws.

"Torrens System," whereby persons acquiring The 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, application must be made accompanied by strict proofs of the applicant's interest in the property. During 1926 there were submitted 458 applications to have brought under the Act land amounting to 16,487 acres in extent, and to £881,637 in value: while the land actually brought under the Act during the year by application was 16,909 acres valued at £637,006. VDp to the end of 1926 there had been brought under the Act 3,125,504 acres valued at £65,729,730. Assurance Fund. When application is made to have land brought under the Transfer of Land Act, a contribution to the assurance

fund of $\frac{1}{2}$ d. in the £1 on the value of the land is levied on the applicant to assure and indemnify the Government in granting a elear 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 1926 27 comprised contributions £3,107, interest on stock £4,992, and interest on £75,073—advanced under *The Protection of Public Buildings Act* 1885—£3,003. During the year £301 was paid out of the fund in settlement of claims, and £5,144 as interest on securities under the *Special Funds Act* 1920, No. 3067. The balance at the credit of the assurance fund on 30th June, 1927, was £168,708. The amount paid up to 30th June, 1927, as compensation and for judgments recovered, including costs, was £8,328.

CLOSER SETTLEMENT.

Gioser Settlement. Under the provisions of the Closer Settlement Act the Closer Settlement Board is empowered to expend at the rate of £500,000 per annum in the purchase—either by

voluntary or compulsory acquisition—of lands (whether privately owned or held under lease from the Crown) for subdivision into suitable allotments according to the class of the land, and for disposal by the Board to eligible applicants, as stated hereafter. Lands well adapted for settlement are thus made available in those portions of the State in which railways, water supply and markets are provided, and in which roads and other facilities are good. The areas purchased comprise ordinary farming lands in a more or less improved condition, and lands in irrigated districts with plentiful supplies of water for irrigation.

Every application for a Closer Settlement allotment must be accompanied by the registration fee of 5s., a lease fee of £1, and a deposit (equal to at least 3 per cent. of the capital value of the land) which is deducted from the purchase money. The applicant is required to give evidence of suitability and fitness, &c., to occupy the land. If successful, a permit giving immediate possession is issued (followed by a lease as soon as practicable), and no further payment is required for six months. If the application be refused, the amount forwarded as a deposit in respect of the purchase money and the lease fee are returned to the unsuccessful applicant, but the registration fee is retained. Only one allotment of the maximum value can be granted to any one person, and the principle of residence for eight months in each year is a condition of the lease.

In addition to the provisions for the purchase of large estates for subdivision, the Closer Settlement Act provides that any one or more persons, who are eligible to acquire a farm allotment under the Closer Settlement Act, may enter into a provisional agreement with the owner of a block of private land for the purchase thereof, and acquire it through the Closer Settlement Board-vide section 20, Act The value of the land must not exceed the maximum allowed 2629. An application on the proper form must be filled in, under the Act. and the agreement with full details and the application must be lodged with the Board, together with a valuation fee of £4. Where the agreement is submitted on behalf of more than one applicant, an additional fee of £2 must be lodged in respect of each additional The fee may be returned if, after a preliminary inspecapplicant. tion, the Board does not approve of the application. Should the Board decide to acquire the land, the purchaser is required to deposit an amount not exceeding four half-yearly instalments, and is otherwise subject to all the provisions of the Closer Settlement Act with regard to payments, residence, improvements, &c.

Repurchased lands are disposed of as farm allotments, agricultural labourers' allotments, and workmen's home allotments under conditional purchase lease. The principal terms of these leases, as regards farm allotments, are briefly stated herein. They are given in detail in each title as issued.

Conditional purchase leases are granted to successful applicants under the Closer Settlement Act, and are for such a term not exceeding $36\frac{1}{2}$ years as may be agreed upon between the lessee and the Board. The purchase money is payable by 73 or a less number of half-yearly instalments. In some cases the Board has granted applications for extension of payments under a lease to $46\frac{1}{2}$ years, the payments being by 93 half-yearly instalments. The deposit lodged with the application is credited as part of the principal, and the balance bears interest at 5 per cent. Each instalment includes interest upon the balance of purchase money remaining unpaid, and is 3 per cent. half-yearly (6 per cent. per annum) of the capital value of the allotment (less the amount of the deposit). Payments in advance may be made at any time, at the option of the lessee, and a proportionate reduction of interest secured thereby.

In special cases, when a lessee is unable to meet the instalments of purchase money as they fall due, the Board has power to suspend such payments up to an amount not exceeding 60 per cent. of the value of the improvements effected by him. Interest at the rate of 5 per cent. per annum is charged on the amount in arrear or on any instalments which may have been suspended.

The lessee must reside on the allotment for eight months during each year. Personal residence by the lessee's wife, or child over 18 years of age, or parent dependent for support, may, with the approval of the Board, be considered personal residence by the lessee. A farm lessee cannot transfer, assign, mortgage, or sublet the whole or any part of his allotment within the first three years of the lease. The Crown grant may be issued to the lessee at the end of any half-year after the first twelve years have expired, on payment of the balance of purchase money. The residence condition is not carried into the Crown grant. Farm allotmente

Lands for farm allotments are subdivided into suitable areas, of which none must exceed in value £2,500 except in the case of blocks mainly consisting of grazing land, when the value may be increased to £3,500; and no lease of any of these areas can be granted to a person who at the date of application is directly or indirectly the owner of any other land in Victoria (township land excepted) the value of which, together with that of the allotment applied for, exceeds the amount stated. The Closer Settlement Act 1925, No. 3422, empowers the Closer Settlement Board to increase the maximum value of a farm allotment to any amount not exceeding £3,000 in the case of any conditional purchase lease issued before the commencement of the said Act, where, in the opinion of the Minister after consulting the Board, the lessee has a reasonable chance of success if the area of his allotment is increased. Improvements of a permanent and substantial character must be effected by the lessee of a farm allotment to the value of at least two instalments of the purchase money before the end of the first year from the date of the lease, 10 per cent. of the purchase money before the end of the third year, and a further 10 per cent. before the end of the sixth year. Improvements must thus be made to the value of at least 20 per cent. of the total purchase money payable for the allotment. If an approved deputy is fulfilling the residential condition, the value of the improvements must be at least 30 per cent. of the total purchase money. If they are made in excess or requirements during the first three years, the excess is set off against the expenditure necessary by the end of the sixth Where special circumstances warrant action, the Minister, upon vear. the recommendation of the Board, may modify the improvement conditions.

Advances to settlers.

The Closer Settlement Act provides for advances by the Closer Settlement Board to settlers who are-

- (a) Lessees under the Closer Settlement Act 1915.
- (b) Licensees of an agricultural or grazing allotment under the Land Act 1915.
- (c) Licensees under section 86 of the Land Act 1915 or corresponding sections of any repealed Act.
- (d) Conditional purchase lessees under the Land Act 1915; or
- (e) Conditional purchase lessees under the Murray Settlements Act, now Section 245, Land Act 1915.
- (f) Selection purchase lessees under Sections 46 and 50, Land Act 1915, during the first six years of the term of the leases.
- (g) Perpetual lessees under Section 54, Land Act 1915.

Advances of money to assist in effecting improvements may be granted by the Board up to 80 per cent. of the value of the permanent improvements effected, such advances to be repaid by half-yearly instalments extending over twenty years, bearing interest at 5 per cent. Advances to acquire stock and for the purchase of seed, manure, and implements can also be made. The total advances for all purposes must not exceed

£625, or in the case of a mountainous area lease, or of a Mallee allotment, or of any allotment of land which in the opinion of the Minister is mainly grazing land, $\pounds 1,000$; but where the whole or part of an advance is repaid the Board may make a further advance up to a total of £625 or (as the case may be) £1,000.

Advances not exceeding £250 may be made to persons holding approved share-farming or leasing agreements, for the purchase of stock and implements, and for such other purposes as the Board thinks fit, to enable them to carry out the share-farming or leasing agreement.

The period for repaying the advances on improvements is usually limited to twenty years, and for live stock, seed, manure, and implements, to five years, interest at 5 per cent. per annum being charged on the unpaid balance of the amount advanced.

Group Settlement in Mountainous Areas. Land may be acquired by the Board in mountainous areas for disposal to any group of settlers (not being less than five), and provision is made for freedom from payment of instalments for any period not exceeding ten years,

subject to certain improvement conditions. Special provision is also made to enable the Board to provide road access to such areas. Interest at the rate of 5 per cent. per annum for the free period fixed by the Minister of Lands will be added to the capital value of the allotment, and will be repaid as part of the instalments of purchase money.

The Board may authorize an advance to be made for the purpose of clearing and improving the land, and may make progress payments to the lessee as the work for which the advance is intended progresses.

The Board will also assist in the erection of the dwelling-house and out-buildings required for the allotment. Advances made by the Board for this purpose are repayable on the same terms as those made to assist in effecting improvements which are referred to above.

Wire netting advances. Advances of wire netting may be made by the Board to Crown lessees and owners of land generally under the Closer Settlement Act 1915, the Vermin Destruction Act 1915, and the Wire Netting Act 1924.

The wire netting supplied is :---

- (a) Rabbit proof—No. 17 gauge, 1¹/₂-in. mesh, 42 inches wide, "A" grade.
- (b) Dog proof-No. 16 gauge, 4-in. mesh, 42 inches wide, "A" grade.

Netting is supplied for cash or on terms, advances being repayable over a period of thirteen years with interest at 4 per cent. per annum; payment of instalments is postponed during the first three years of an advance, and each advance is limited to a quantity sufficient for 6 miles of vermin-proof fencing. Where the netting is erected on a boundary immediately adjoining unoccupied Crown land, or separated only by a public road therefrom, a rebate of 50 per cent. of the cost thereof is allowed.

A complete statement of all estates acquired by the Estates purchased. Closer Settlement Board at 30th June, 1927, 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 period from 1st January, 1926, to 30th June, 1927.

A summary of the lands acquired, exclusive of estates purchased for discharged soldiers' settlement (vide page 484), is given in the following statement :---

CLOSER SETTLEMENT LANDS ACQUIRED AT 30th JUNE, 1927.

		Purchase		Nun	Number of Lessees.		
Area. Mo incl Dis on S	Money, including Discount on Stock Debentures	Total Cost to Date.*	Farm Allot- ments.†	.Work- men's Homes.	Agricul- tural La- bourers' Allot- ments.	Area Un- allotted.	
Dry Areas.	acres.	£	£	Number	Number.	Number	
Lands purchased		-	~	rumper.	number.	number.	acres.
(Farms) Crown lands taken	795,553	5,307,377	5,485,041	2,931		146	19,049
over (Farms) Repurchased lands	21,352	19,560	23,422	22		. 17	11,460
(Workmen's Homes) Crown lands taken over (Workmen's	642	64,133	95,544		967		3
Homes)	355	6,372	8,470	••.	79		13
Total Dry Areas	817,902	5,397,442	5,612,477	2,953	1,046	163	30,525
Irrigable Areas.							
Repurchased lands							
(Farms) Grown lands taken	168,064	2,148,244	2,282,449	₹ 1,860		152	19,735
over (Farms)	601	4,302	4,380	5 1,000		1	
Total Irrigable areas	168,665	2,152,546	2,286,829	1,860		152	19,735
Total acquired at 30th June, 1327 Less area disposed of under Dis-	986,567	7,549,988	7,899,306	4,813	1,046	315	50,260
charged Soldiers Settlement Acts	66,949	658,309	658,309	••			••
Total (net)	919,618	6,891,679	7,240,997	4,813	1,046	315	50,260

Includes (a) Purchase money, £7,549,988; expenses prior to disposal, £79,723; public works, £238,274; and interest capitalized, £31,321.
 † Not including 632 lessees of farm allotments disposed of under the Discharged Soldiers

Settlement Acts.

Up to 30th June, 1927, the Board had acquired 302 properties, with a total area of 986,567 acres, of which 50,260 acres were then unallotted. The Land Settlement Agreement of 1922 resulted in 238 approved migrants from overseas being settled. Under the agreement of 1925 between the Imperial and Commonwealth Governments (by which loan moneys are advanced at a very low rate of interest), Victoria at 30th June, 1927, had received £790,000 for approved settlement

schemes at Childers, Katandra, and Maffra-Sale. Portions of estates amounting in the aggregate to 53,941 acres, have been sold by public competition and for public reserves without any restrictions, and are not under conditional purchase lease.

Up to 30th June, 1927, 632 allotments containing 6,949 acres, had been sold to discharged soldiers and transferred to the Discharged Soldiers Settlement Acts.

Extent of Closer settlement. The extent of the settlement effected by the Board up to 30th June, 1927, is given in the next statement :----

SUMMARY OF CLOSER SETTLEMENT TO 30th JUNE, 1927.

Classification of Holdings.	Number.	Average Capital Value.	Average Area.	Total Area.
Dry Areas.	No.	£	Acres.	Acres.
Areas settled—				
Farms	2,949	1,584	238	701,353
Agricultural Labourers' Allotments	163	160	17	2,792
Workmen's Homes Allotments	1,050	90	34	787
Allotments disposed of under Discharged				
Soldiers Settlement Acts	194	1,365	192	37,325
Public Competition, Auction, &c.				44,111
			 	<u> </u>
m)			•	786,368
Total area of land settled	• • •	••	••	
Farm Lands and Agricultural Labourers'	Allotmer	nts		26,870
Workmen's Homes			•••	11
Public Competition, Auction, &c.				716
Area of land acquired but not yet available	e .			644
Loss of area on subdivision (roads, channel	s, reserve	s, &c.)	••	3,293
Total dry areas acquired .	• •	• • • •	••	817,902
·		£	Acres.	Acres.
Irrigation Areas.	No.	£	Acres.	Acres.
Areas settled—	1 000	793	56	103,660
Farms	1,860	195	6	930
Agricultural Labourers' Allotments	152	107	0	000
Allotments disposed of under Discharged	400	000	68	29,624
Soldiers Settlement Acts	438	898		9,830
Public Competition, Auction, &c	••	••		9,000
		-		-
Total area of land settled				144,044
Area of land available for-				13,666
Farm Lands and Agricultural Labourer	s' Allotm	enus .	• ••	406
Public Competition, Auction, &c.		· ·	• ••	9,068
Area of land acquired but not yet availab	ie .	•	• ••	9,008
Loss of area on subdivision (roads, channe	ls, reserv	es, &c.).	• ••	1,401
Total irrigation areas acquir	ed.	• •		168,665
The second second second by the second secon	1097			986,567
TOTAL AREAS acquired to 30th Jun	10, 1941	•	• ••	000,001

482

Financial The liabilities and assets of Closer Settlement at 30th Closer Settlement. June, 1927, are shown hereunder :---

FINANCIAL STATEMENT OF CLOSER SETTLEMENT AT 30TH JUNE, 1927.

Liabilities—						£
For Loans, Advances, an	nd Intere	st (accru	ed)		1.1	7,159,330
Crown Lands taken	over		·			12,487
Discharged Soldiers	Settlem	ent for la	nd take	n over		1,164,864
Sundry Creditors		••				27,132
Reserves, &c.	••	••	••	••	· • •	239,658
						8,603,471
Assets		• •				
Balance of purchase mor	iev not a	ccrued d	ae by les	sees and	others	4,959,293
Land on hand						458,714
Balance of advances on i	improver	nents not	accrued	due		1,274,888
Government Securities	••					130,000
Cash (including balance	at credit	of Closer	Settlema	ent Fund	n li	294,854
Sundry assets (including	Interest	accrued	but not v	et nava	ble).	366,590
Arrears on land and adv	vances (1	ess £2,78	37 bad o	lebts	- /	- + + , 0 0 0
written off)						
Principal					£	
Land	••			1	87,405	
Advances					26,622	
Interest—						
Land				F	82,799	
Advances					22,306	
			••			1,119,132
						1,110,102
						8,603,471
		_				•

At 30th June, 1927, payments by settlers on land and advances amounted to $\pounds 5,458,733$, of which amount $\pounds 2,813,771$ was paid on account of principal and $\pounds 2,644,962$ on account of interest.

Eighty per cent. of the value of the improvements can be accepted as security for arrears.

Arrears secured by in Arrears secured by p	rincipal rep	oaid on la	 .nd	£806,645 58,912
Arrears secured by crop, or unsecured		tgage, li 	en on 	253,575
Total	••	••		£1,119,132

The sum of £6,599,911 had been paid to the Closer Settlement Fund up to 30th June, 1927. Of that amount £3,145,371 had been transferred to revenue to meet interest due to stockholders. £103,373 had been invested to replace amounts written off estates re-valued, £100,000 had been placed in securities under the Discharged Soldiers Settlement Acts, and £2,956,313 had been utilized for redemption and cancellation of stock and for capital and working expenditure, the balance to the credit of the fund on 30th June, 1927, being £294,854. The balance of unredeemed securities is now £6,863,536, on which the interest payable amounts to £278,471 per annum. Up to 30th June, 1927, 12,913 persons had received advances aggregating £2,606,870, to effect improvements, or upon improvements already effected, and 3,835 persons had received advances amounting to £124,468 for the purchase of wire netting.

Discharged By Acts 2916 of 1917,2988 of 1918, 3039 of 1919, 3061 of 1920, 3130 of 1921, 3253 of 1922, and 3370 of 1924, provision was made for the settlement of discharged soldiers on the land and for other matters. The operation of these acts is under the control of the Closer Settlement Board, with the limitation that the closer settlement areas under irrigation conditions, and situated within an Irrigation and Water Supply District within the meaning of the Water Act 1915, are managed by the State Rivers and Water Supply Commission.

Ūp to 30th June, 1927, the Closer Settlement Board and the State Rivers and Water Supply Commission had acquired for the settlement of discharged soldiers 2,398,485 acres at a cost of £14,475,171, including 66,949 acres of Closer Settlement land taken over and disposed of under the Discharged Soldiers Settlement Acts. Of these lands 150,403 acres were granted to civilians under Closer Settlement Acts.

The following is a summary of the lands acquired :---

	Area.	Cost.
	acres.	£
Land specially purchased (3,435 properties)	1,756,004	13,311,507
Crown Lands taken over	575,532	505,355
Closer Settlement Lands taken over	. 66,949	658,309
Total area and cost of purchase	. 2,398,485	14,475,171
Expenses prior to disposal		105,221
Public Works effected		704,871
Interest capitalized		143,853
Total cost to 30th June 1927		15,429,116
Less land granted to civilians under Closer Settle	-	
ment Acts	. 150,403	1,474,598
Total net area and cost	. 2,248,082	13,954,518

LANDS ACQUIRED FOR DISCHARGED SOLDIERS SETTLEMENT TO 30TH JUNE, 1927.

Extent of Soldier Settlement. The extent of settlement at 30th June, 1927, is given in the table which follows :---

SUMMARY OF DISCHARGED SOLDIERS SETTLEMENT TO 30th JUNE, 1927.

	·	-	. · .		Dry Areas.	Irrigation Areas.
Area of land settled- Area of land settled	–Soldi —Civi	ers lians (Cle	 oser Settle	ment	acres. 1,972,009	acres. 57,014
Acts)	••	••	•••		133,883	16,520
Area of land availabl		••	••	••	8,715	1,175
Area of land acquired	i but r	10t yet a	vailable	••	1,626	19,940
Sales by Auction, &c	•	••	••	•••	157,606	15,611
Total land acq	uired t	to`30th J	une, 1927		2,273,839*	110,260*
Farms, Number of-				· [
Soldier Settlers					6,288	1,130
Civilians	•••	••	••		523	463
Total	••	••	••	•••	6,811	1,593
Average area—acres					309	46
average area—acres						

* Loss of area on subdivision amounted to 14,386 acres (dry and irrigable).

The number of soldiers settled up to that date was as follows	s :
On land specially purchased by the Closer Settlement Board On land specially purchased by the State Rivers and Water	6,603
Supply Commission	1,472 36
On Closer Settlement old estates—Irrigable areas	570
On Crown Lands-Merbein and Nyah Irrigation Areas	1,440 186
Soldiers receiving assistance from the Closer Settlement Board, on share farming, leasing agreements and	
freehold land	845
Total	11,152

In addition to the above there were available or in process of being made available 7 allotments, of which 5 were on land specially purchased by the Closer Settlement Board, and 2 were on Crown land. There were also 727 blocks available under ordinary Closer Settlement conditions, for which returned soldiers could apply.

Financial statement of Discharged Soldiers Settlement.

The liabilities and assets of Discharged Soldiers Settlement are shown hereunder :---

FINANCIAL STATEMENT OF DISCHARGED SOLDIERS SETTLEMENT AT 30TH JUNE, 1927.

Liabilities				£
For Loans, Advances,	and Interest	••		22.726,964
Crown Lands take		••		506,369
	for land taken ove	•• ·		152,478
	TOT JAHU DAKEN OV		•• ••	37,660
Sundry Creditors	•• •	••	•••	271,636
Reserves, &c.	•• ••	••	•• .	271,030
	· .			23,695,107
Assets-		1.1	1 .1	14,074,403
Balance of purchase m	oney not accrued du	ie by lessees	and others	
Land on hand	•• ••	•• '	•••	137,463
Balance of advances o	n improvements no	ot accrued d	ue	3,815,7 6 1
Cash (including balan	ce at credit of Disc	harged Sold	iers Settle-	
ment Fund)				56,253
Concession of Intere	st and Administr	ation exper	ises (State	
and Commonwealth				1,578,748
Sundry assets (includi	ing Interest accrue	d but not ve	t navable)	238,366
Arrears on land and	advances (less f3)	2.505 had d	lebts	
written off)	auvances (1000 202	2,000 Date (
withten on j —				
Principal			£	
Land		••	240,564	
Advances		· • •	1,569,550	
Interest-				
Land		1. A.	1.415.483	
Advances.	•• ••	••	474,283	
nuvances	•••	••		3,699,880
Summer Account				94,233
Suspense Account	•• ••	••	•• ••	51,200
				23,695,107
				20,000,107
e provincia de la companya de la com				

At 30th June, 1927, payments by soldier settlers on land and advances amounted to $\pounds 5,211,057$, of which amount $\pounds 3,771,699$ was paid on account of principal and $\pounds 1,439,358$ on account of interest.

Up to 30th June, 1927, the amount of assistance rendered by the Board by way of advances was £8,348,799 to 11,152 soldier settlers.

Concessions granted by the State Government $(\pounds1,439,718)$ and the Commonwealth Government $(\pounds3,461,718)$ —representing interest, administration charges, and losses—have relieved the settlers to the extent of $\pounds4,901,436$.

486

WATERWORKS.

All Victorian waterworks are controlled by official bodies, waterworks. either State or local. The following table, particulars of which were obtained chiefly from the Twenty-second Annual Report of the State Rivers and Water Supply Commission, summarizes those waterworks on which the Government has expended or advanced moneys, and includes practically all waterworks in the State other than minor works constructed by municipalities out of municipal funds :--

WATERWORKS—CAPITAL EXPENDITURE AND ADVANCES BY STATE TO 30th JUNE, 1927.

Contrôlling Bodies.	Purposes of Supply.		Storage Capacity of Reservoirs.	Capital Expenditure an l Advances by State.	
State D'and I III i					
State Rivers and Water Supply Commission—				Acre feet.	£
Calibar Senatana	Demest		F ::::::::::::::::::::::::::::::::::::	10.050	1 000 180
	Domesti Stock ar			42,870	1,388,458
O 11 TTT	BLOCK al	ia Dom	estic	••	14,853
Goulburn-Waranga (in- cluding Goulburn main					
-han Jay	Irrigatio	n 60		954 100	0.004.014
Sugarioaf Reservoir (under	IIIgano	π, α.ε.	•••	354,100	2,604,814
construction)				20.0 000	1 970 000
Kow Swamp Works	,,	,,	•••	306,000 40,860	1,379,696
Loddon River Works	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	,,	••	14,000	187,708 167,636
North-west (Kerang) Lakes	"	**	••	92,000	
Long Lake Pumping	,,	,,	•••	92,000	21,657
Works	Stock an	d Dom	estio	3,820	97 940
Lake Lonsdale Reservoir			CAULC	45,480	27,346 49.054
Lower Wimmera Compen-	"	,,		40,400	40,004
sation Works	,,			2,870	8,558
Wimmera Storages		**		159,380	371,007
Maffra-Sale Scheme (in-	,,	>>	•••	100,000	571,007
cluding Glenmaggie			I		
Reservoir and channels)	Irrigatio	n. &c.	· [150,000	907,410
Bacchus Marsh and Wer-	6	,		200,000	001,110
ribee Scheme	,,	,,		31,850	170,575
Red Cliffs Scheme	,,	,,			737,905
Irrigation and Water					,
Supply Districts (distri-					
butary works)	,,	,,			3,140.044
Millewa Waterworks				1	
Scheme	Stock an	d Dome	estic		370,881
Waterworks Districts (dis-					
tributary works)	* **	,,	••	36,410†	2,705,383
Flood Protection Districts	••	••]	••	380,010
Surveys, &c	••	••	••	••	210,686
Other expenditure	••	••	••	••	147,538
Carried forward			-	1,279,640	14,991,219
Carried forward	••	••	••	19,0±0	14,001,219

Controlling Bodies.	Purposes of Supply.	Storage Capacity of Reservoirs. *	Capital Expenditure and Advances by State.
Brought forward		Acre feet. 1,279,640	£ 14,991,219
River Murray Agreement Works (Commission the constructing authority)	Irrigation, &c	1,000,000	1,426,820
Total State Rivers and Water Supply Commission First Mildura Irrigation and		2,279,640	16,418,039
Water Supply Trust and Mildura Urban Trust Abolished Irrigation and	Irrigation, &c.	••	119,782
Water Supply Trusts (8) Waterworks Trusts	Stock and Domestic	5,730 11,420	32,754 1,759,564 783,67
Municipal Corporations Free Grants to Local Authorities	99 99 •• ••		147,040
Melbourne and Metropolitan Board of Works Geelong Waterworks and	Domestic	23,730	7,798,91
Sewerage Trust	,,	9,930	779,32
Total		2,330,450	27,839,09

WATERWORKS-CAPITAL EXPENDITURE AND ADVANCES BY STATE TO 30TH JUNE, 1927-continued.

• Total capacity of Storages, when works in hand are completed. † Includes miscellaneous Storages, the expenditure on which has been debited to the districts concerned.

NOTE.-One acre foot of water equals 43,560 cubic feet, or 272,250 gallons.

Of the expenditure given in the case of the Melbourne waterworks, £3,189,934 represents money borrowed by the State, all of which had been redeemed at 30th June, 1924-£800,000 out of consolidated revenue, and £2,389,934 by payments from the Melbourne and Metropolitan Board of Works, to which body the waterworks were transferred Further particulars relating to this Board will be found on in 1891. page 238, Part V., of this volume.

The Geelong Waterworks were sold by the Government to the Geelong Waterworks and Sewerage Trust in 1908 for £265,000. The expenditure shown in the above table includes, in addition to this amount, the outstanding State loan liability on account of the works, viz, £159,358, and the capital expenditure by the Trust since acquiring the works, viz., £354,967.

The next table summarizes the amounts disbursed on State works and those granted and lent to local bodies by the State on account of waterworks. In addition to their receiving free grants large sums have been written off the liabilities of the local bodies.

STATE EXPENDITURE ON WATERWORKS TO 30TH JUNE, 1927.

	Expendi- ture by State.	Capital Written Off.	Payments towards Redemp- tion.	Free Head- works and Advances.	Amount standing at Debit, 30th June, 1927.
State Rivers and Water Supply Com- mission-	£	£	£	£	£
Free Headworks	1,252,462	••	420	1,252,042	••
Other Main Supply Works (includ- ing Coliban)	7,155,096		1,591		7,158,505
Irrigation and Water Supply Districts	3,140,044	575,152	30,985		2,533,907
Waterworks Districts	2,705,383	175,055	49,628		2,480,700
Flood Protection Districts	380,010				380,010
Surveys, &c	210,686	• •	••	• ••	210,686
Other expenditure	147,538	••			147,538
	14,991,219	750,207	82,624	1,252,042	12,906,346
River Murray Agreement Works	1,426,820	••			1,426,820
Total State Rivers and Water Supply Commission	16,418,039	750,207	82,624	1,252,042	14,333,166
First Mildura Irrigation and Water Supply Trust and Mildura Urban Trust	119,782	••	8,445	••	111,337
Abolished Irrigation and Water Supply Trusts (8)	32,754	32,724	30		
Waterworks Trusts	1,759,564*	316,537	250,171	•	1,192,856
Municipal Corporations	783,677†	163,760	125,363		494,554
Free Grants to Local Authorities	147,046			147,046	••
Melbourne and Metropolitan Board of Works	3,189,934	••	3,189,934		
Seelong Waterworks and Sewerage Trust	459,593	••	300,235		159,358
Total	22,910,389	1,263,228	3,956,802	1,399,088	16,291,271

* Amount includes £6,871 representing Interest Capitalized.

", ", £43,979 "

489

In addition to the capital written off, as shown above, arrears of interest amounting to £579,786 have been written off certain liabilities to the State, viz., £342,773 from the liabilities of what were originally Irrigation and Water Supply Trusts, £85,556 from the liabilities of Waterworks Trusts, and £151,457 from the liabilities of Municipal Corporations. Thus the amount which has actually been written off the liabilities of the Trusts (Irrigation and Waterworks) and Corporations is £1,843,014. Interest outstanding at 30th June. 1927, amounted to £29,854, viz., £13,483 against the First Mildura Trust, £14,230 against Waterworks Trusts, and £2,141 against Municipal Corporations.

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 intrusted with the management of all irrigation works, except those controlled by the First Mildura Trust. This authority is embodied in the Water Act 1915-which consolidates the Water Acts of 1905 and 1909, of which epitomes have been given in previous issues of this work-and the Water Acts 1916 and 1918. The chief difficulties under which the Irrigation Trusts laboured were sparse settlement, and the absence of powers to make compulsory charges on the properties commanded by the irrigation channels. Since the assumption of control by the Commission a policy of closer settlement on the lands served by the irrigation channels has been inaugurated and vigorously pushed on, and a system of compulsory rating enforced, along with which there has been the allotment of water as a right to properties in channelled areas.

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

490

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 I	rrigated.
	District (having allotted W		nts).	1909–10.	Average fo last Five Years.
Sup	plied from the Go	oulburn-	-	Acres.	Acres
	Shepparton				14,849
	South Shepparto	n (three	vears)		2,837
	Rodney		<i>Joans)</i>	32,356	50,663
	Stanhope	••		2,000	10,554
	Tongala	••		3,000	14,584
	Rochester	••		500	30,394
	Echuca North	••	•	000	2,915
	Dingee	••	••	••	3,583
	Tragowel Plains	•••	•••	20,000	37,457
Sup	plied from the M Leitchville (two	v			4,321
	Cohuna			12,000	18,409
	Gannawarra			7,825	18,263
	Koondrook			5,029	14,091
	Swan Hill			5,410	15,501
	Third Lake (one	vear)		•••	2,509
	Nyah`	••	••	569	2,715
	Merbein			202	7,629
	Tresco				1,417
	Mystic Park			••	2,515
Sur	plied from the W	erribee-	_	•	
	Bacchus Marsh		:	31	9 500
	Werribee		• •	51	2,589 6,197
	werrinee	••		••	0,197
	Total			88,922	263,992

The area under irrigated culture in the whole State, in 1926-27, for all kinds of crop, was 406,532 acres, the largest yet recorded, being an increase of 62,847 acres compared with the area irrigated in the previous year, and 70,056 acres above the average of the previous five years.

Totai 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 :---

1922–23.	1923-24.	1924–25.	1925–26.	192627.
	· · · · · · · · · · · · · · · · · · ·			1 .
acres.	acres.	acres.	acres.	acres.
60,30 4	32,240	45,215	57,987	40,655
92,679	94,479	103,200	116,753	119,721
35,591	33,356	30 ,6 83	37,340	29,476
88,787	91,912	119,563	51,345	131,725
61,061	64,647	66, 780	69,108	69,042
8,850	4,523	4,86 3	5,102	9,992
3,4 55	3,401	5,199	6,050	5,921
	·			
350,727	324,558	375,503	343,685	406,532
	350,727	350,727 324,558	350,727 324,558 375,503	350,727 324,558 375,503 343,685

IRRIGATED AREAS: HOW UTILIZED.

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 1926-27-406,532 acres-the percentages devoted to different purposes were as follows :- Pastures, 33; cereals, 10; lucerne, 29; vineyards, orchards, and gardens, 17; sorghum and other annual fodder crops, 7; fallow, 3; and miscellaneous, 1.

Closer Settlement in rrigation Districts.

The Commission during 1926-27 provided 239 holdings under ordinary Closer Settlement conditions for 24 dis-charged soldiers, 154 local civilians, and 61 approved oversea settlers. The main feature of the year in connexion with Closer Settlement in irrigation areas was the readiness with which land seekers took up blocks in the subdivided portions of the recently acquired areas at Katandra, Maffra and Sale, and Narre Warren and Hallam.

The principal development took place at Katandra and North Shepparton, where 13,400 acres had been purchased. Of this area, 6,700 acres at Katandra and 1,280 acres at North Shepparton have now been subdivided into 88 Closer Settlement holdings, of which 70 have already been selected.

In the Maffra-Sale District, an additional 2,500 acres were purchased, making a total area in that district of 10,570 acres, of which 7,000 acres have been subdivided, and 101 settlers placed on allotments.

The popularity of the Closer Settlement area at Narre Warren and Hallam is evidenced by the continued demand for allotments thereon. The properties acquired, totalling 3,370 acres of rich land eminently suited for intense culture, are being drained and subdivided into small holdings suitable for market gardening and poultry farming. The district is about 24 miles from Melbourne, and, as the areas adjacent to the metropolis hitherto used for market gardening purposes are being gradually absorbed by extensions of suburban residential areas, the settlement now plays an important part in the supply of market garden produce for the city. Of the area subdivided 50 blocks have been taken up, and other blocks are being made available. Water is delivered under pressure from a main supply pipe of the Mornington Peninsula System.

The Commission has practically completed the work of repatriating discharged soldiers; the chief responsibility now being to see to the welfare of the men already settled, and, by an adequate system of advances, help towards permanent improvements to their holdings. Since the commencement of the repatriation of Victoria's soldiers, the Commission has placed 2,217 discharged soldiers on irrigable blocks.

The Commission has in hand 28,800 acres of suitable land available for settlement awaiting the extension of the storage and irrigation schemes. Of this area, 3,620 acres are in the Katandra District, which will be served by the East Goulburn Channel (now enlarged and extended); and 3,900 acres are at Calivil, near the River Loddon; 15,000 acres of the irrigable portion of Red Cliffs Soldier Settlement; about 3,570 acres at Maffra-Sale; and 2,370 acres at Hallam and Narre Warren. These will be made available for settlement as the occasion demands and as soon as the progress of the works permit.

The following statement shows the lands purchased for civilians and discharged soldiers by the State Rivers and Water Supply Commission and the extent of settlement on each estate after subdivision. The subdivided portions are already supporting nearly 18 times as many families as were living on them previously, and, in addition, there are some 2,300 town dwellers in urban portions of the subdivided estates. The statement contains also particulars of settlement effected under

East Goulburn 13,400 9,780 20 19 111 79 93 74 Rodney 3,230 3,230 8 5 55 57 41 36 Stanhope 21,500 21,500 74 80 290 63 260 247 Kyabram 4,600 4,420 9 12 69 62 65 53 Tongala. 4,200 4,200 9 12 69 62 65 53 Cornella Creek 2,500 2,500 Pt.1 54 73 51 51 51 Cornella Creek 9,040 9,040 18 8 125 70 119 111 70 19 111 Bamawm 13,400 13,400 28 21 192 65 190 169 165 104 94 Galivil 3,900 12,500 29 10 142 80 117 <th></th> <th></th> <th></th> <th></th> <th></th> <th></th> <th>1.</th> <th></th> <th></th>							1.		
$\begin{array}{c c} \mbox{Closer Settlement Estates.} & \begin{tabular}{ c c c c c c c c c c c c c c c c c c c$				I	Properti	es Subdiv	rided.		
East Goulburn13,4009,7802010111799374Rodney3,2303,2208555574136Stanhope21,50021,5007132906326024Yapata4,6004,42091269626553Tongala19,09018,390413631758305260Kyabram2,5002,500 $\}Pt.1$ 54735151Cornella Creek2,5002,500 $\}Pt.1$ 54735151Bamawm3,9003,60084301053026Bamawm3,9003,60084301053026Dingee5005003120231514Cohuna12,00012,000291014280117107Koondrook3,3003,8008123715231230Marbel3,30012,5002629218Rod Cliffs17 <t< td=""><td>Closer Settlement Estates.</td><td>Lands purchased by the State in</td><td>Area in Acres.</td><td>Number.</td><td>Number of Families thereon when Purchased.</td><td>into</td><td>Area</td><td>Number of Closer Settlement Blocks now occupied.</td><td>Present Increase in Number of Families.</td></t<>	Closer Settlement Estates.	Lands purchased by the State in	Area in Acres.	Number.	Number of Families thereon when Purchased.	into	Area	Number of Closer Settlement Blocks now occupied.	Present Increase in Number of Families.
	Basi Goulburn Rodney Stanhope Stanhope Stanhope Stanhope Stanhope Stanhope Congala. Koyuga Cornelia Creek Nanneella Bamawm Dingee Cohuna Koondrook Swan Hill Nyah Merbeln (Crown) Bacchus Marsh Hallam Maffra Properties acquired under Settlement Act 1915, outside above	13,400 3,230 21,500 4,600 4,600 2,500 9,040 3,600 13,400 500 9,060 12,500 3,800 33,000 33,000 33,000 33,370 10,0570 215,800	9,780 3,230 21,500 4,420 18,930 4,200 2,500 9,040 3,600 13,400 12,500 9,060 12,500 3,800 8,300 12,500 12,000 12,000 12,000 12,000 12,000 10,000 1,000 7,000		19 5 13 36 8 4 21 1 10 10 16 1 1 3 11 11 3 16	$\left\{\begin{array}{c} 111\\ 55\\ 290\\ 69\\ 317\\ 54\\ 19\\ 125\\ 30\\ 192\\ 20\\2\\ 132\\ 329\\ 237\\ 423\\ 329\\ 237\\ 423\\ 706\\ 2\\ 233\\ 59\\ 142\\ \end{array}\right.$	$\begin{array}{c} 79\\ 57\\ 63\\ 58\\ 73\\ 161\\ 70\\ 105\\ 65\\ 23\\\\ 80\\ 63\\ 36\\ 15\\ 20\\ 15\\ 36\\ 15\\ 36\\ 17\\ 45\\ \end{array}$	93 41 260 65 305 51 17 119 30 190 190 190 190 190 190 190 190 190 19	$\begin{array}{c} 74\\ 36\\ 247\\ 53\\ 269\\ 51\\ 17\\ 111\\ 26\\ 169\\ 14\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\ .\\$

section 20 of the Closer Settlement Act 1915 outside the large estates subdivided by the Commission :---

The development of irrigation in all parts of the world is one of slow but generally sure growth, and it is therefore Irrigated Gloser gratifying to note that progress in the various irrigation districts of this State has been very satisfactory, and compares most favorably with the records of like districts in other parts of the world. This progress is shown in many

ways, but chiefly in the increase in the area irrigated in the State, in the increase in the value of stock, implements owned by settlers, and permanent improvements effected by them, in the increase in the population, and the general prosperity of the towns in the irrigated areas.

The increase in population in the irrigation districts as a result of the intensive methods of agriculture has been most significant, especially at a time when there has been a decrease in the rural population of the State as a whole. Thus, since the constitution of the State Rivers and Water Supply Commission, although there has been a

Progress of

Settled

Areas.

decrease in the rural population of the State outside the irrigation districts, there has been an increase of 30,000 in the irrigation areas.

In the Shire of Shepparton, an increase of 29 per cent. in the population has taken place since the inception of irrigation. About fifteen years ago, 9,200 acres were purchased, since which time additional areas amounting to 4,970 acres have been acquired. All of these areas have been subdivided into 389 blocks, on which 370 families are settled as contrasted with 29 before irrigation. The early days of the settlement were devoted principally to dairying, but now fruit growing is the main industry. Between 1916 and 1926, the area under fruit increased from 2,026 acres to 5,000 acres, and the value of stock and improvements from £85,553 to £261,000.

Following the successful years of the established packing and canning factories in this State, a settlers' co-operative packing company has been formed at Murrabit for the packing and marketing of citrus fruits from this area. The co-operative companies at Red Cliffs and Woorinen, despite private competition, processed the greater portion of the dried fruits from their respective districts. The Shepparton and Ardmona canneries again had a successful season. At Shepparton, however, owing to the ravages of the thrip and the vagaries of the season, the amount processed (5,445 tons) was slightly less than that for the previous season, which was a record. Extensions are being made at the Ardmona Cannery to cope with the supply of fruit at peak periods.

The suitability of the irrigation districts for dairying has again been demonstrated by the results in competitions and agricultural shows. Of the 65 Herd Testing Associations in the State, 21 are in irrigation districts. Grazing and fattening of sheep also receive considerable attention.

The development of market gardening at Bacchus Marsh, Werribee, and Narre Warren and Hallam is most marked. Glasshouses, for the early production of tomatoes, cucumbers, &c., have been built. At Narre Warren, several of the settlers devote their whole attention to the growing of flowers for the Melbourne market.

The viticultural areas had one of the best seasons ever experienced. The high yield and good drying season enabled the large crop of 75,296 tons of lexias, 582,418 tons of sultanas, and 135,464 tons of currants to be processed satisfactorily.

The Irrigation Research Committee, the formation of which was mentioned in the 1923-24 issue of this publication, continued its experiments and demonstrations. The results may be seen in the marked increase in the use of manures and the planting of grasses. As a result of its research work at Tresco, it is hoped that definite advice as to the best system of draining salted land will be shortly made available.

In addition to waterworks for purposes of irrigation, Supply of extensive schemes for the supply of water for domestic and water for stock purposes are under the control of the State Rivers domestic and stock purposes. and Water Supply Commission. Altogether, the area within the State so supplied is approximately 23,188 square milesslightly more than 27 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 :--79 towns of a total population of 113,060 supplied by the Commission, 108 towns with a total population of 182,800 supplied by Waterworks Trusts, and 18 towns with a total population of 73,720 supplied by Local Governing Bodies.

STORAGE AND SUPPLY SCHEMES.

In 1902 the total capacity of storages in the State was **Total Storages** 172,000 acre-feet. The present capacity under the control in State. of the State Rivers and Water Supply Commission is about 1,162,000 acre-feet, and, when the Wimmera Storages and Maffra Storages have been completed, the total capacity will be about 1,280,000 acre-feet. The Hume Reservoir, which is in course of construction, and is not included in the storages referred to, will contain 2,000,000 acre-feet (vide page 500), half of which can, subject to the provisions of the River Murray Agreement, be credited to the State of Victoria. The construction of storage works by the State Rivers and Water Supply Commission was continued during the year. Details as to storage capacity will be found on pages 487 and 488 of this issue.

Goulburn Storages.

The dam for the Sugarloaf Reservoir is situated on the Goulburn River, below the junction of the Delatite River, about 18 miles from Alexandra. The construction of the main retaining wall has been completed. It consists of a diaphragm of concrete, built from bedrock (which, in places, is 75 feet below ground surface) to crest level (139.75 feet above the river bed). a wall of clayey material on the upstream side of the diaphragm, and supporting masses of rock on both sides. The reservoir was first filled to full capacity (306,000 acre-feet) at the end of August, 1927.

The State Electricity Commission is now proceeding with its scheme of hydro-electric works at the Sugarloaf Reservoir (vide page 501), in connexion with which the Water Commission has already provided a separate outlet for emergency or power purposes.

At the Waranga Reservoir, which has a storage capacity of 333,400 acre-feet, the construction of the reinforced concrete core wall $-4\frac{1}{2}$ miles in length—which was commenced in 1923, has been completed.

Wimmera Storages. Progress was made with the works for supplementing the domestic and stock supplies to the districts served by

the Wimmera-Mallee system. The building of the embankment for the first stage of Pine Lake Reservoir and the construction of the valve tower and outlet structures have been completed, and good progress has been made with the earthwork of the second stage. This has increased the available capacity, from 22,000 acre-feet to the volume now held, 34,000 acre-feet. The ultimate holding capacity of this storage will be 62,000 acre-feet.

The storage provision of the Wimmera-Mallee Supply Scheme now reaches 164,870 acre-feet as against 69,000 acre-feet a few years ago. Storage works now in course of construction will carry the capacity to no less than 212,870 acre-feet. The water is distributed throughout a total area of about 11,000 square miles by main and distributary channels aggregating 5,200 miles in length (exclusive of an approximately equal length of farmers' connecting branches). Full supplies are furnished to six urban Waterworks Trusts within the Wimmera-Mallee areas, in addition to the reticulated systems of 31 towns directly controlled by the Commission.

In the Walpeup portion of the Northern Mallee, Morthern Mallee Water Supply. the Wimmera-Mallee districts, but is generally too high water Supply.

for inclusion in the gravitation channel system, the Commission has met the water supply needs of settlers by sinking bores, and excavating large public tanks. There are now 99 successful public bores in this area with an average depth of 460 feet, and 260 tanks with a total storage capacity of 1,210,000 cubic yards.

The Commission has further assisted settlers in this area by clearing and grubbing 4,565 miles of roads, in addition to which 244 sandhills have been made passable for heavy wagons by rubbling with local limestone.

Millewa Water Supply. supply of water by pumping to an area of about 1,000,000

acres in the extreme north-western portion of the State (opened up by the 55 miles of railway from Red Cliffs), comprises a lift of 19 feet from the River Murray to Lake Cullulleraine (a depression on the river flats), a second lift of 113 feet, and a third lift of 19 feet, to command the whole of the lower level channel system which supplies the area which has been constituted the Lower Millewa Waterworks District, and a fourth lift, of 145 feet, to command the higher level channel system which supplies the area of 205,000 acres, which will be constituted the Upper Millewa Waterworks District. The length of channels actually constructed is 563 miles. The total area served (at present wholly within the Lower Millewa Waterworks District) is 600,000 acres, all of which has been allotted to settlers. The balance of the lands in the whole system can be served expeditiously, as soon as such lands are being made available for settlement.

Carwarp Waterworks Districts. The Carwarp Waterworks District, of 200,000 acres, lying to the south-east of Lower Millewa District, and served by a system of channels 141 miles in length, is supplied from the Red Cliffs pumping station. The high lands

surrounding the Carwarp Railway Station are supplied by a pump, a rising main, and 13 miles of distributary channels; and these lands comprising 14,800 acres, have been formed into a separate district called "Carwarp Central."

Mornington Peninsula Scheme, The important scheme of reticulated supply to the Naval Base, the inland towns of Berwick, Beaconsfield, Pakenham, Noble Park, Spring Vale, Dandenong, Somerville, Cranbourne, and Bittern, and the bayside towns of Mornington,

Frankston, South Frankston, Seaford, Carrum, Chelsea, Edithvale, Aspendale, and Hastings, is in full working order. Extensions of services in all directions are being applied for. The reservoirs at Beaconsfield, Dandenong (Heywood's Hill), Frankston, South Frankston, Mornington, and Bittern are kept fully supplied.

The main race has now been extended 33 miles from Toomuc Creek, to tap the Cannibal Creek and River Bunyip, as outlined in the original scheme. This will ensure adequate supplies to meet the increasing demands of reticulations already connected, and to provide when required, for the townships of Garfield, Bunyip, Kooweerup, and the bayside towns of Dromana, Rosebud, Rye, Sorrento, and Portsea. A full supply of water is now available for the irrigation, by pressure pipes, of small blocks suitable for market gardening and intensive culture. In this connexion the estates in the Hallam Valley, comprising 3,370 acres, purchased by the Commission for Closer Settlement purposes, are being subdivided and allotted to settlers for intensive culture under irrigation. Extensive works for the systematic drainage and reclamation of the portions of the above estates not yet subdivided have been carried out, and about 1,000 acres, between Berwick and Dandenong, have been settled.

Gouldurn Following the completion of the Sugarloaf Reservoir and the Waranga Reservoir enlargement and improvement works, considerable expansion of the whole Goulburn system is taking place. The main Eastern channel is being enlarged and extended for 17 miles, and, with distributary channels in course of construction, is supplying a continually increasing area, including 34,000 acres south of the Broken River, now included in South Shepparton Irrigation District, and 40,000 acres, north of Shepparton Irrigation District, and 10,000 acres of Closer Settlement lands at Katandra.

On the west of the Goulburn River, the Tandarra-Calivil main channel and distributaries are supplying a new area of 24,000 acres, lying north-west of Dingee Irrigation District; and many requests for further extensions are under consideration.

On the west of the Loddon River, the Waranga-Western main channel is being extended to supplement the supply to Boort Irrigation District, hitherto dependent entirely on the uncertain quantities of water obtainable from the River Loddon.

In the districts administered from the Cohuna and Loddon-Murray Kerang centres, the abnormally dry conditions during the Irrigation Areas. irrigation season of 1926–27 created an exceptionally heavy

demand for water, which, however, was fully met entirely by gravitation from the Torrumbarry Weir. Many existing districts have been extended and new districts constituted.

In many places the old timber structures and iron flumes have been replaced by modern reinforced concrete head checks, syphons, and culverts, and channels cleaned and treated to prevent leakage.

Drainage works, comprising about 25 miles of main and branch drains, to serve the Murrabit Closer Settlement Estates and other lands of an area of about 5,000 acres, are in operation, and the Barr Creek was converted from an irrigation channel to act in its natural capacity as a drain.

In the Cohuna District, several new occupation bridges were built, and four old important road bridges replaced by new ones.

Maffra-Sale District Irrigation Scheme.

The construction of the Glenmaggie Weir on the Macallister River has been so far advanced that 80,000 acre feet of water can now be stored, and arrangements can be made to increase this to the full capacity of 150,000 acre feet

during the coming season, if required. The Maffra Irrigation District has now been extended to include a total area of 20,000 acres, and a new district of 15,000 acres.—known as "Sale"—has been constituted. The channel system is being further extended.

Ped Cliffs Trigation District. At Red Cliffs, the scheme, which ranks first in importance among the pumping systems of the State, supplies water to an area totalling 18,000 acres, including the township and 700 occupied soldier settlement blocks. The plant is capable of delivering 500 acre-feet of water per day, lifted 105 feet. The total length of channels constructed to date is 124 miles. Channels having a total length of 114 miles have been lined with concrete, with the result that 99 per cent. of the total number of blocks in the settlement are protected from seepage from channels. The area now planted to vines and citrus is 8,750 acres, the whole of which is in bearing. The vield of dried fruit for 1927 was 11,000 tons. Following considerable progress in the township, which has been proclaimed an Urban Waterworks District, a concrete standpipe, 70 feet high and 26 feet in diameter, has been erected, and reticulation extended to meet requirements.

Freed Freed Freed Scheme of works for the reclamation of the extensive swamps in West Gippsland, known as Kooweerup and Cardinia, and for the protection from periodical flooding of the surrounding low-lying lands, aggregating in all 100,000 acres. These areas have been constituted Flood Protection Districts under the provisions of the Water Acts. The construction of the huge main drains, feeders and subsidiary works has reached the stage that provides the landholders affected with protection from all but abnormal floods, and flood protection charges have been levied accordingly.

Flood protection works at Loch Garry (below Shepparton) for the regulation of Goulburn flood waters have effectively served their purpose. The area benefited—about 40,000 acres—is known as the "Loch Garry" Flood Protection District. Further down the Goulburn (at Kanyapella) works constructed for the relief from flooding of an area of about 13,500 acres have similarly been effective. This area is called the "Kanyapella" Flood Protection District.

River Murray Waters. Waters Acts passed by the Governments of the Commonwealth and of the States of New South Wales, Victoria,

and South Australia comprises storages on the Upper River Murray and at Lake Victoria, locks and weirs in the course of the River Murray from its mouth to Echuca, and also locks and weirs on the lower part of the River Darling or the River Murrumbidgee, as may be decided by the Government of New South Wales. The Acts provide that for purposes of construction the Minister for Public Works of New South Wales shall be the Constructing Authority for that State; that, for the State of South Australia, the Commissioner of Public Works shall be the Constructing Authority; and that the State Rivers and Water Supply Commission shall be the Constructing Authority for Victoria.

Under the River Murray Agreement of 1914 the estimated total cost of the whole of the works is set down at £4,663,000. It is now clear, from the experience gained in connexion with the works which have been put in hand to date, that the total cost of the works will be more than double that amount. The four contracting Governments have agreed to share equally in the total cost of the works. The total expenditure incurred up to 30th June, 1927, on the portion of the scheme completed and in course of construction was £5,106,000.

The site of the Hume Reservoir is a little below the junction of the rivers Murray and Mitta Mitta. Originally it was designed to provide for a capacity of 1,100,000 acre-feet, but, at a conference of Ministers representing the four interested Governments, held on the 8th and 9th days of August, 1924, the following proposals raised by the Government of Victoria were agreed to :—

- (a) That the work of construction of the Hume dam, of sufficient dimensions to provide for a reservoir of 2,000,000 acre-feet, proceed for a period not exceeding three years, and that the question of the ultimate capacity and completion of the reservoir be then the subject of a further conference. All waters to be used to meet the present allocation obligations and as a reserve for dry years.
- (b) That provision be made for outlet works at the Hume Reservoir suitable for hydro-electric generation purposes, provided, however, that the use of the reservoir for these purposes does not interfere with the volumes of water required for the purposes set out in the River Murray Agreement. The cost of such additional outlet works, estimated at £40,000, shall be borne in equal shares by the States of New South Wales and Victoria, which Governments should have the sole use of any power generated at the reservoir.

A conference of the members of the River Murray Commission and the engineers of the three Constructing Authorities, held at Hume Reservoir on 12th August, 1926, unanimously agreed to recommend that the above resolutions be given effect to. This recommendation was agreed to by the four Contracting Governments, and the Commission so advised on 31st December, 1926.

The work is being carried out by the Constructing Authorities for the States of New South Wales and Victoria. On the New South Wales section considerable progress has been made, and work is now being proceeded with on the concrete structure. On the Victorian side the construction of the main embankment is being steadily advanced, and the concrete bridge over the River Murray for Bethanga District is being constructed.

The Torrumbarry Weir and Lock (near Echuca) has been in successful operation since December, 1923, and water has been diverted for the various irrigation districts benefited.

Weir and Lock No. 11—situated about $\frac{1}{2}$ mile downstream from Mildura—now practically completed, will form a lock pool for about 40 miles upstream, providing a local reserve storage of great value and reducing the suction lift at the Mildura and Red Cliffs Pumping Stations. The lock and lock canal have been completed and half of the navigation pass in the river has been constructed. The Constructing Authority for New South Wales is proceeding with the construction of No. 10 Weir and Lock at Wentworth, and has commenced work on Weir and Lock No. 15 at Euston; while, in the South Australian section, Weir and Lock No. 1 at Blanchetown and No. 3 near Lake Bonney have been completed and brought into operation. Nos. 5 and 9 have been completed, Nos. 2 and 4 are approaching completion, and No. 6 has been commenced. Lake Victoria Storage Works have been completed with the exception of the improvement of the inlet and outlet channels.

Artesian Bores. The following particulars relating to artesian boring have been supplied by the State Rivers and Water Supply Commission :---

ARTESIAN AND SUB-ARTESIAN BORING (MALLEE).

Number of	Bores Sunk.*	Total Depth of Bores.*				
, State.	Private.	State.	Private.			
99	275	Feet. 46,100	Feet. 53,600			

* At 31st December, 1926.

Mildura Irrigation Settlement, on the River Murray, 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 following particulars are an indication of the prosperity of the settlement :---

POPULATION OF MILDURA SHIRE, 1891 TO 1927.*

1891	April (Census)		2,321	1923	December		••	13,950
1901	March (Census)	••	3,325	1924	,,			14,250
	April (Census)		6,119	1925	,,	••		14,450
1921	April (Census)		13,183	1926	,,	••	• •	15,000
1922	December	•••	13,760	1927	,,	••	•••	15,100

* Including the population of the town of Mildura, which up to 1920 was part of the shire.

The capital value of property in the Shire of Mildura in 1913 was $\pounds 1,294,160$. In 1927 in the same area it had risen to $\pounds 4,247,020$. The receipts and payments of the Mildura Irrigation Trust during the year ended 30th June, 1927, were as follows :—

RECEIPTS AND PAYMENTS OF FIRST MILDURA IRRIGATION TRUST, 1926–27.

Receipts. Horticultural Rates Special Waterings, &c. Miscellaneous	£ 41,306 5,416 4,179	Payments. Wages and Salaries Firewood Interest, Sinking Fund Depreciation Miscellaneous	£ 17,606 13,053 and 4,404 4,513
Total	50,901	Total	39,576

The extent of watering done represented 22,876 water acres in 1917-18, 39,895 acres in 1918-19, 41,808 acres in 1919-20, 35,632 acres in 1920-21, 44,150 acres in 1921-22, 42,807 acres in 1922-23, 42,854 acres in 1923-24, 39,212 acres in 1924-25, 42,230 acres in 1925-26, and 42,134 acres in 1926-27.

502

METEOROLOGY.

Particulars in regard to climate and weather conditions Records. Particulars in regard to climate and weather conditions 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 1924, 1925, and 1926, and the average yearly amount of rainfall deduced from all available records to December, 1926, in each of the 26 river basins or districts constituting the State of Victoria :---

RAINFALL.—YEARLY RECORDS AND AVERAGES.

	Rainfall.						
Basin or District.	Di	aring the Yea	ır—	Yearly Average to			
	1924.	1925.	1926.	December. 1926.			
	Inches.	Inches.	Inches.	Inches.			
Glenelg and Wannon Rivers	28.72	23.04	27.13	26.34			
Fitzroy, Eumeralla, and Merri Rivers	26.73	22.64	27.76	28.10			
Hopkins River and Mt. Emu Creek	31.94	20.14	24.04	24.88			
Mt. Elephant and Lake Corangamite	27.99	19.16	20, 42	24.89			
Cape Otway Forest	44.71	32.71	38.52	39.21			
Moorabool and Barwon Rivers	32.28	17.34	19,00	24.21			
Werribee and Saltwater Rivers	31.89	17.36	18.47	23.46			
Yarra River and Dandenong Creek .	49.40	26.34	30.68	33.94			
Koo-wee-rup Swamp	47.57	29.29	29.09	35.93			
South Gippsland	40.95	35.08	33.24	38.93			
Latrobe and Thomson Rivers	47.21	34.35	34.72	38.29			
Macallister and Avon Rivers	25.91	22.03	21.64	24.43			
Mitchell River	25.85	26.59	22.48	26.05			
Tambo and Nicholson Rivers	28.61	26.86	22.93	27.47			
Snowy River	33.66	36.62	31.08	34.38			
Murray River	23.56	14.14	17.46	16.86			
Mitta Mitta and Kiewa Rivers	46.10	32.29	36.47	33 35			
Ovens River	42.14	28.18	37.29	33.70			
Goulburn River	32.38	21.11	24.66	26.44			
Campaspe River	28.33	15.25	18.83	22.80			
Loddon River	24.93	14.33	17.40	20.20			
Avoca River	-22.14	13.11	14.48	17.11			
Avon and Richardson Rivers	20.08	11.91	13.84	15.39			
Eastern Wimmera	26.32	16.58	20.70	21.38			
Western Wimmera	22.05	15.44	17.73	19.90			
Mallee	14.24	8.97	11.79	12.66			
Weighted Averages	28.65	20.22	22.52	24.24			

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 12.66 inches per annum, as compared with 24.24 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 :—

	Rainfall.		Area.
Inches.			Square Miles.
Jnder 15			19,270
5 to 20			13,492
0 to 25			14,170
5 to 30			15,579
0 to 40			14,450
0 to 50			7,338
0 to 60			2,980
Over 60			605

DISTRIBUTION OF AVERAGE RAINFALL.

RAINFALL—QUARTERLY RECORDS AND AVERAGES.

$ \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 $									
points points<	Basin or District.	mount.	verage.	mount.	verage.	mount.	verage.	mount.	verage.
$ \begin{array}{c c c c c c c c c c c c c c c c c c c $		<u> </u>	¥				¥	¥	¥
	Fitzroy, Eumeralla, and Merri Rivers Hopkins River and Mt. Emu Creek Mt. Elephant and Lake Corangamite Cape Otway Forest Moorabool and Barwon Rivers Werribee and Saltwater Rivers Yarra River and Dandenong Creek Koo-wee-rup Swamp South Gippsland Latrobe and Thomson Rivers Mitchell River Tambo and Nicholson Rivers Mitchell River Murray River Mitta Miter and Kiewa Rivers Ovens River Goulburn River Goulburn River Avon and Richardson Rivers Avon and Richardson River Avon River	$ \begin{array}{c} 185\\ 194\\ 147\\ 140\\ 405\\ 227\\ 368\\ 475\\ 227\\ 368\\ 475\\ 678\\ 680\\ 699\\ 808\\ 417\\ 506\\ 412\\ 448\\ 212\\ 253\\ 411\\ 27\\ 90\\ 55\\ \end{array} $	$\begin{array}{c} 353\\ 424\\ 415\\ 429\\ 591\\ 469\\ 511\\ 701\\ 688\\ 791\\ 732\\ 632\\ 608\\ 810\\ 315\\ 608\\ 810\\ 315\\ 608\\ 544\\ 468\\ 850\\ 2788\\ 406\\ 850\\ 2788\\ 246\\ 294\\ 294\\ 294\\ 294\\ \end{array}$	$\begin{array}{c} 1.004\\ 1.027\\ 924\\ 718\\ 1.328\\ 645\\ 614\\ 1.123\\ 977\\ 949\\ 978\\ 522\\ 620\\ 616\\ 875\\ 678\\ 1.412\\ 1.610\\ 939\\ 705\\ 589\\ 705\\ 589\\ 672\\ 719\\ 900\\ 707\end{array}$	$\begin{array}{c} 792\\ 828\\ 710\\ 694\\ 1,169\\ 653\\ 594\\ 862\\ 982\\ 1,080\\ 978\\ 552\\ 590\\ 652\\ 887\\ 498\\ 906\\ 652\\ 887\\ 498\\ 760\\ 679\\ 602\\ 526\\ 662\\ 526\\ 664\\ 619\end{array}$	$\begin{array}{c} 963\\ 647\\ 704\\ 594\\ 1,174\\ 541\\ 485\\ 727\\ 752\\ 882\\ 878\\ 492\\ 523\\ 517\\ 743\\ 495\\ 1,085\\ 1,118\\ 659\\ 596\\ 592\\ 528\\ 478\\ 762\\ 682\\ 762\\ 682\\ \end{array}$	$\begin{array}{c} 903\\ 944\\ 783\\ 782\\ 1,320\\ 642\\ 926\\ 1,009\\ 1,130\\ 1,108\\ 604\\ 6872\\ 905\\ 489\\ 1,034\\ 1,103\\ 805\\ 719\\ 627\\ 543\\ 499\\ 722\\ 702 \end{array}$	$\begin{array}{c} 611\\ 608\\ 629\\ 590\\ 945\\ 487\\ 430\\ 743\\ 739\\ 754\\ 1,019\\ 472\\ 425\\ 461\\ 682\\ 213\\ 420\\ 370\\ 306\\ 320\\ 160\\ 318\\ 329\\ \end{array}$	586 614 580 584 841 597 599 905 905 892 1,011 655 664 720 836 836 836 384 787 725 611 476 441 327 468 422
	The mass State								

504

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 Monthly range of pressure of air—Inches Mean temperature of air in shade—°Fahr.	$29 \cdot 969 \\ 0 \cdot 895 \\ 57 \cdot 7$	29 · 923 0 · 768 66 · 6	30 · 080 0 · 817 59 · 3	30·077 0·979 50·0
Mean daily range of temperature of air in shade—°Fahr. Mean relative humidity. Saturation=100 Mean number of days of rain	$ \begin{array}{r} 18 \cdot 6 \\ 63 \\ 7 \cdot 32 \\ 38 \end{array} $	$21 \cdot 1 \\ 58 \\ 5 \cdot 90 \\ 24$	$17 \cdot 3$ 66 $6 \cdot 51$ 34	13 · 9 73 5 · 79 42
Mean amount of spontaneous evaporation in inches Mean daily amount of cloudiness—Scale 0 to 10 Mean number of days of fog	10·22 6·0	17·28	7·86 5·9 6	3 · 62 6 · 4 12

In the subjoined statement are shown the yearly averages of the climatic elements in Melbourne for 1926 and for the last 71 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 1926.	Average for 71 Years.	Extremes between which the Yearly Average Values have oscillated in 71 years.	
			Highest.	Lowest.
Mean atmospheric pressure (inches)	29.984	30.012	30.106	29.945
Highest ", ", "	30.567	30.607	30.770	30.488
Lowest ,, ,, ,,	29.202	29.254	29.495	28.868
Range (inches)	1.365	1.353	1.719	1.104
Mean temperature of air in shade				
(°Fahr.)	59·6	58.4	59.9	57.3
Mean daily maximum (°Fahr.)	68.4	67.3	69.0	65.4
Mean daily minimum	50.8	49.5	51.2	47 2
Absolute maximum	$104 \cdot 0$	$105 \cdot 1$	111.2	96.6
Absolute minimum	$32 \cdot 0$	30.8	34.2	27.0
Mean daily range	17.5	17.8	20.4	15.0
Absolute annual range	72.0	74.3	82.6	66.0
Solar Radiation (mean maxima) "	117.8	117.8	127.6	106.0
Terrestrial Radiation (mean				200 0
minima) (°Fahr.)	42.9	43.9	46.8	39.5
Rainfall (in inches)	20.51	$25 \cdot 58$	38.04	15.61
Number of wet days	149	138	171	102
Year's amount of free evaporation (in				
inches)	43.00	$38 \cdot 92$	45.66	31.59
Percentage of humidity (saturation				
=100)	64	65	76	62
Cloudiness (scale $10 = \text{overcast}, 0 =$				
clear)	5.8	5.9	6.4	4.8
Number of days of fog	25	19	48	5

9354.-29

AGRICULTURAL RESEARCH AND EDUCATION.

Department of This Department is controlled by a Minister of the Agriculture. Crown, under whom there is a large staff of experts with the Director of Agriculture as permanent head. These officers are actively engaged in supervising all matters relating to the 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 Melbourne University This School affords opportunity provided by the State School of Agriculture. for the training of students in science as applied to practical The course occupies four years; agriculture and kindred industries. the first is devoted to pure science ; during the second the students are in residence at the State Research Farm, Werribee, engaging in practical The remaining two farming with lectures on preparatory subjects. years are devoted to a more specialized study of agriculture and allied subjects on a scientific basis.

The staff consists of a Professor of Agriculture and about fifteen lecturers, some of whom are whole-time University officers, while the others are senior officers of the State Agricultural Department.

By Act of Parliament the Minister for Agriculture is empowered to employ graduates of the School as Science Field Officers in the State Department.

A number of free places for this course for the degree in Agricultural Science (B.Ag.Sc.) are awarded annually by the State Government.

Government Experimental Farms, The great expansion in our rural industries during recent years has been largely brought about by the general adoption of better methods of farming and by the introduction of more prolific wheats, and it is claimed that these improve-

more profine wheats, and it is trained that these improvements have been adopted as the result of the experimental and demonstration work of the Department of Agriculture. In 1912 a Central Research Farm was established at Werribee, and it is there that the initiative with regard to practically all experimental and research work is now undertaken. The State farms at Rutherglen and Longerenong are used as district experimental stations for the North-

East and the Wimmera respectively. In addition, there are a number of subsidized experimental and demonstration areas located on private farms throughout the State.

Agricultural Colleges. An Act for the establishment of Agricultural Colleges was passed in 1884, and 14,458 acres, comprising 5,955 acres at Dookie, 2,386 acres at Longerenong, 2,500 acres at Gunyah Gunyah, 2,800 acres at Olangolah, and 817 acres at Bullarto, were reserved as sites for colleges and experimental farms. The areas at Dookie and Longerenong are being used for the purpose for which they were reserved, but the other three are devoted to other uses.

In addition to the college and farm lands, provision was made by the Act of 1884 to permanently reserve from sale an area of not more than 150,000 acres of Crown lands, and to vest it in trustees to be appointed, who should hold it in trust for the benefit of and by way of an endowment for State agricultural colleges and experimental farms. The land so reserved now amounts to 71,412 acres, and is let for grazing and agricultural purposes.

The fee for students in residence at the agricultural colleges is £50 per annum for maintenance, including stationery and medical and other charges. No charge is made for instruction. Accommodation is provided at Dookie for 100 and at Longerenong for 50 students.

This institution is situated in the Burnley Gardens, School of Primary close to the Hawthorn and Heyington railway stations. Agriculture The classes are open to male and female students above and Horticulture. fourteen years of age. The Course for the Certificate in Horticulture occupies two years, and is intended for those who propose to follow orchard or garden work as a profession. Part time classes are also held for those who are unable to devote full time to the subject. Another feature of the work at the school is the holding of regular classes of instruction in Agricultural Science for those desirous of taking the subject either in the Intermediate or the Leaving grade at the Annual Public Examinations conducted by the University. A practical training is obtained in the orchards, gardens, and nursery connected with the school; the course also includes lectures and demonstrations by various expert teachers. Excursions to up-to-date farms, orchards, and nurseries form part of the work of the school. In 1926 the students enrolled numbered 139

Experimental Farms and Agricultural Colleges,

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

	Central Research	Ruther-	Dookie Agri-	Longer- enong	Burnley School of
Particulars.	Farm, Werribee.	Farm, &c.	cultural College.	Agri- cultural College.	Primary Agricul- ture, &c.
				[
	No.	No.	No.	No.	No.
Professional Staff	1	2	13	. 8	3
Hands employed	50	26	37	18	9
Students	10	- 9	94	52	121
	£	£	£	£	£
Value of plant and machinery	3,015	2,749	7,850	6,912	150
Value of plant and machinery Value of produce for year	7,641	2,607	11,360	10,004	1,200
Government Grant	14,920	5,384	14,382*	5,141	2,416*
Fees	•••		4,163	2,066	73
Sale of produce, &c	7,641	3,092	7,200	8,147	899 18
Other	132	12	•••		10
Total receipts	22,693	8,488	25,745	15,354	3,406
김 왕 화장이 많이 봐야 봐야? 이 가슴이 많이 많이 했다.					
Expenditure-	1.00				
Salaries-	0.00	00.7	1000	2,840	1,296
Professional Staff	372	807 4,298	4,850 6,897	2,840	1,098
General Staff	6,945 3,412	1,649	13,998	6,072	551
Buildings and maintenance	3,107	1,520	10,000	0,012	461
Total expenditure	13,836	8,274	25,745	11,332	3,406
Area under	acres.	acres.	acres.	acres.	acres.
Cereals for Grain	500	210	420	507	
Hay	280	145	293	183	1
Fruit trees, &c		11	12	20	10
Vines		101	15	5	1
Green fodder	50	5	45 22	93	
Other crops	100	30	22	200	
Total area under crop	930	492 1	807	1,008	111
Area of land in fallow	700	-231	560	318	4
Area under artificially sown grasses	350	130		32	9
Area resting	100	208	933	511	
New ground broken up		. · · · ·		70	
Total area of arable land	2,080	1,062	2,300	1,939	24
Balance of area	131	291	3,655	447	8
Total area of farm	2,211	1,353	5,955	2,386	33
	No.	No.	No.	No.	No.
Live Stock-			1		1 -
Horses	108	45	98	51	1 6
Dairy cows	100	17	49	27 44	ő
All other cattle	68	15 490	72 3,899	1,327	0
Sheep	1,000	490	185	18	
Pigs) ••	1 . .	1. 1.00		

GOVERNMENT EXPERIMENTAL FARMS AND AGRICULTURAL COLLEGES, 1926.

* Including grant received from the Council of Agricultural Education.

ţ

Inspection of Orchards, Murseries, &c. 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 Department has purchased fumigating outfits for the purpose of fumigating citrus trees for the control of scale insects, and is performing the work for citrus growers at cost price. Much satisfaction has been expressed by growers at this being done.

Special attention is being paid to the grading and packing of fruit; packing classes have been established and are successfully conducted by departmental officers in a number of fruit districts throughout the State. In addition to this, individual growers receive personal instruction.

Lectures and demonstrations are given on the various other phases of horticulture; experiments are carried out in the treatment of diseases; and sites are selected on the farms of intending fruit-growers, to whom advice is given as to the most suitable varieties to be planted and their subsequent treatment.

The fear of introducing the fruit-flies *Tephritis tryoni* and *Halterophora capitata* and diseases arising from other causes has necessitated a thorough examination of fruit from Queensland, New South Wales, and elsewhere. The fruit-fly question is a very grave one, and, should either of the above-named insects obtain a footing in Victoria, a great portion of the large and important fruit industry of our State will be practically ruined.

Plants and cuttings coming from foreign parts are fumigated if a certificate that they have been treated at the port of shipment does not accompany the consignment. Even when they have been thus certified the Senior Fruit Inspector has the right of examination, and, if necessary, of ordering a second fumigation.

Forestry. The State forests are controlled by a Commission of three, which was appointed in 1919. The State has a wooded area of about 8,000,000 acres, of which about 4,330,450 acres are set aside as permanent State forests and timber reserves. The wooded area consists of—

1. Three million acres of merchantable forest, mainly situated along the Dividing Range with its spurs and foothills and also including the red gum forests of the northern river basins and of the River Glenelg in the south-western district. 2. Three million acres of forest in the more rugged portions of the mountain region. These forests are not at present accessible for practical working, owing to difficulties of transport; their protection, however, is essential for the maintenance of streams and springs.

3. Two million acres in the north-west of the State, known as Mallee, bearing at intervals a thick growth of stunted eucalypts and interspersed with belts of cypress pine and belar.

The forests of Victoria may be divided into four main classes which are referred to hereunder:---

- (a) The coastal region, extending from the shore line some fifty miles northward, carries chiefly messmate and three species of stringybark. In Cape Otway district, however, bluegum, mountain ash, and spotted gum predominate; whilst, in the extreme south-east of the State, silvertop, small-fruited bluegum, bastard mahogany, bloodwood, and Gippsland grey box are found.
- (b) The mountain region. In the western half of the State the predominant species in the hill forests are messmate, blue-gum, manna gum, brown and red stringybarks, and yellow box. In the eastern half of the State the prevailing species are mountain ash, spotted gum, messmate, peppermint, red ash or woollybutt, and bluegum, with stunted snow gums on the steep granitic slopes near the mountain summits.
- (c) The foothills, stretching from the Dividing Range northward down to the plains, bear three valuable species, red ironbark, white ironbark or yellow gum, and grey box.
- (d) The river basins of the Murray and the streams flowing over the northern plain, and of the River Glenelg in the southwestern district, bear broad belts of river redgum.

The timbers of commercial value in Victoria number about twenty, all species of the eucalyptus family. In addition, there are a number of woods of fine grain, many of them, however, being small trees confined to limited areas.

With careful conservation and management Victoria's forests are capable of yielding considerable amounts of timber for all time, despite the ravages made upon them in the past by bush fires, settlement, and mining.

The State is notably deficient in softwoods or conifers, though over extensive areas the conditions are suitable for their growth once To encourage their growth, both in State they are introduced. and in private plantations, three large nurseries have been established, at Creswick, Macedon and Broadford, and a number of plantations have been formed, the principal ones being situated at Creswick, Mount Macedon, Frankston, Anglesea, Port Campbell, Bright, Castlemaine, Harcourt, Scarsdale, Mount Disappointment, and Mt. Difficult. 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.

A Forest School for training cadets is maintained at Creswick. The Commission also controls a State sawmill in the Warburton district, and Timber Seasoning Works at Newport, from which seasoned weatherboards, cabinet stock, floorings and linings are supplied, largely for use in the building of State schools and for other public works.

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.

During the financial year 1924–25, authority was given by Act No. 3386 to raise the sum of £500,000 over a period of six years from 1st January, 1925, for the development of State forests.

The revenue derived from forest sources during the financial year 1926-27 was £156,700, and the expenditure was £319,547— £101,405 of which was paid out of the Consolidated Revenue, £151,633 under the Forests Loan Act No. 3386, and the balance—£66,509 from the Forestry Fund. The balance at the credit of the Fund at 30th June, 1927, was £40,056.

It is estimated that the quantity of timber produced in the rough in 1926-27 was 110,392,800 super. feet. In addition, 376,028 tons measurement of fuel timber was produced.

Agriculture The State has rendered substantial assistance to the various branches of the agricultural and pastoral industries during past years. The appended table summarizes for the last five years the items of State expenditure from consolidated revenue in this direction, and shows the amount of revenue

received by the Department of Agriculture, which consists chiefly of payments by exporters for packing produce for export, and from State Forests and Nurseries, consisting chiefly of Royalties :---

	1922-23.	1923-24.	1924-25.	1925-26.	1926-27.
					· · · · · · · · · · · · · · · · · · ·
	1				
Expenditure.	f	£	£	£	£
Agricultural Branch	35,063	41,549	30,652	35,271	45,636
Horticultural Branch	00,000	11,010	27,938*	30,168*	32,984*
Grants to Agricultural and			21,000		
Horticultural Societies, &c	675	775	875	675	675
Development of Export Trade	60,316	53,372	50,679	48,362	60,875
Viticultural Education and	,		00,010	,	
Inspection of Vinevards	6.334	4.454	2,092	881	315
Maifra Beet Sugar Factory	75,291	74,497	105,680	85,825	55,891
Advances to Settlers for losses					
by bush fires, floods, &c	7,300	659	1,190	18,587	32,987
Technical 'Agricultural Educa-					
tion &c.	26,123	31,824	28,478	30,580	29,103
Publishing Agricultural Reports	329	250	213	234	254
Rabbit and Vermin Extermina-					. N
tion	47,410	85.489	84,368	88,874	91,929
Stock and Dairy Branch	43,887	48,627	53,527	69,210	85,853
Labour Colonies			· .		••
State Forests and Nurseries	157,347	168,880	179,278	95,555†	101,380
Miscellaneous	3,104	6,006	6,239	5,369	12,355
		·]	
Total	463,179	516,382	571,209	509,591	550,237
		·]			
Revenue.				· .	
Department of Agriculture	78,017	73,282	81,687	77,547	85,440
Maffra Beet Sugar Factory	74,678	92,231	129,732	137,997	79,435
State Forests and Nurseries	163,038	166,446	162,786	161,608	156,700
Total	315,733	331,959	374,205	377,152	321,575

EXPENDITURE AND REVENUE CONNECTED WITH AGRICULTURE, ETC., 1922-23 to 1926-27.

* Previously included under Agricultural Branch. † Vide expenditure out of Forestry Fund and State Forests Loan Act.

Included in the expenditure on State Forests and Nurseries are net payments into the Forestry Fund; these amounts are as follows :----£17,020 in 1921-22, £16,205 in 1922-23, £5,919 in 1923-24, and £6,333 in 1926-27. In 1924-25 and 1925-26, owing to increased expenditure, £21,968 and £91,619 respectively-not included in the above statement-were paid out of the Fund, and, in 1925-26 and 1926-27, amounts of £87,527 and £151,633 were expended out of the State Forests Loan Act 1924, No. 3386.

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 1926-27 was £1,931,166-£984,911 having been expended on discharged soldiers' land settlement, £881,450 on closer settlement, £32,338 on wire netting, £31,066 on the Maffra Beet Sugar Factory, and £1,401 on Agricultural Colleges.

AGRICULTURE.

All divisions of the State are suitable for cultivation. Progress of cutt.valion. but the Wimmera, Mallee, and Northern are the principal wheat-growing districts and furnish about 94 per cent. of the total area under this crop. In recent years the chief extensions of the wheat-growing areas have been in the Mallee. In this district, which has a rainfall at one time thought wholly inadequate, wheat growing was rendered practicable by the introduction of machinery specially suited to the conditions, the extension of railway lines, and storage of water for domestic and stock supplies; and, with more of these facilities being made available each year, further areas are gradually being brought under cultivation. An indication of the growing importance of the Mallee is afforded by recent figures, which show that, of the wheat produced in the State in the last five seasons, the proportion obtained from the Mallee was over 31 per cent., as against slightly less than 5 per cent. in 1891-92. The area under cultivation in the Mallee last season for all purposes was 2,674,979 acres.

The area cultivated in the State in 1926-27 was 7,303,194 acres, as against an annual average of 6,895,288 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. 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 £3,057,630; milk and cream from £5,455 to £1,271,908; and meats from £502,285 to £1,583,296.

The increase in cultivation has been associated with new and improved farming methods. The chief of these are the practice of fallowing, the use of fertilizers, the selection of suitable seeds, and the increasing attention given to crop rotation. The more general adoption of improved methods in recent years has contributed greatly to

the production of the State. The following table shows the progress of cultivation from period to period during the last 72 years :----

				Annual Average.					
Period or Year (Period or Year (ending in March).		Crop.	Fallow.	Total Cultivation.				
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	· · · · · · · · · · · · · · · · · · ·	· · · · · · · · · · · · · · · · · · ·	acres. 325,676 624,377 1,306,920 2,109,326 3,022,914 3,756,211 4,523,308 4,489,503 4,530,312 4,862,548 4,682,144 4,761,394 4,433,492 4,735,173	acres. 12,146 57,274 137,536 364,282 524,197 1,276,148 1,567,258 1,935,747 2,052,964 2,186,881 2,294,297 2,215,270 2,457,136 2,569,021	acres. 337,822 681,651 1,444,456 2,473,608 3,547,111 5,032,359 6,090,565 6,425,250 6,583,276 7,049,429 6,976,6441 6,976,6644 6,890,628 7,304,194				

ACREAGE CULTIVATED ANNUALLY, 1855 TO 1927.

Areas under Principal Grops. The principal crops grown in the State are wheat, oats, barley, potatoes and hay. The average annual acreage of these for periods from 1855 to 1920 and the acreage for each of the last seven seasons are given in the next table :---

ANNUAL ACREAGE OF FIVE PRINCIPAL CROPS, 1855 to 1927.

terre de la composition de la	Average Annual Area of									
Period or Year (ending in March).	Wheat.	Oats.	Barley.	Potatoes.	Hay.					
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	acres. 119,001 278,077 776,031 1,236,501 1,898,280 2,190,336 2,725,728 2,295,865 2,611,198 2,644,314 2,454,117 2,705,323 2,513,494 2,915,315	acres. 83,296 129,384 147,343 210,901 340,957 390,642 398,232 443,636 318,681 492,356 520,654 517,229 437,696 303,424	acres. 4,843 19,262 41,188 64,310 52,829 60,378 84,973 93,954 100,127 102,773 56,564 63,764 103,395 88,896	acres. 24,123 36,744 39,089 45,243 56,272 60,606 62,687 63,895 61,741 59,306 61,295 63,369 66,185	acres. 80,117 117,393 226,775 437,087 540,472 848,587 1,015,585 1,333,397 1,159,135 1,261,408 1,277,606 1,120,312 1,013,613 1,080,993					

Production of The average annual production of the five principal crops. crops for periods, from 1855 to 1920, and the production for each of the last seven seasons were as follows :--

ANNUAL PRODUCTION OF PRINCIPAL CROPS, 1855 to 1927.

Period or Year (ending in March).		Average Annual Production of-								
		Wheat.	Oats.	Barley.	Potatoes.	Нау.				
1855-65 1865-75 1875-85 1895-1905 1905-15 1915-20 1920-21 1921-22 1922-23 1922-23 1923-24 1924-25 1925-26 1926-27	··· ··· ··· ··· ···	bushels. 2,198,874 4,385,814 8,593,308 12,268,905 14,032,145 22,906,743 37,503,989 39,468,625 43,867,596 35,697,220 37,795,704 47,364,495 29,255,534 46,886,020	bushels. 2,068,648 2,636,747 3,297,468 4,649,393 6,649,453 7,342,468 7,127,504 10,907,191 6,082,258 8,093,459 9,366,205 9,572,003 4,998,165 4,884,006	bushels. 103,575 390,337 799,938 1,187,007 947,580 1,243,442 1,812,447 2,495,762 2,336,246 2,442,041 1,455,435 1,444,823 1,774,963 1,920,722	tons. 62,723 111,800 135,614 170,905 134,357 158,445 165,486 171,628 173,660 148,354 238,520 139,043 160,729 162,909	tons. 111,806 153,852 276,771 547,092 672,982 1,084,726 1,376,142 1,984,853 1,665,089 1,541,287 1,492,588 929,068 1,387,971				

Principal crops The percentage in each district of the total area under each principal crop during last season was as given below :----

PERCENTAGE IN EACH DISTRICT OF TOTAL AREA UNDER EACH PRINCIPAL CROP, 1926-27.

			Percentage in each District of Area under							
Districts.			Wheat.	Oats.	Barley.	Potatoes.	Hay.	Other Crops.		
Central North-Central Western Wimmera Mallee Northern North-Eastern	• • • • • • • • • • • •	••• •• •• •• ••	$ \begin{array}{r} 1 \cdot 28 \\ 0 \cdot 69 \\ 1 \cdot 89 \\ 26 \cdot 49 \\ 44 \cdot 84 \\ 22 \cdot 66 \\ 1 \cdot 51 \\ \end{array} $	$ \begin{array}{r} 3 \cdot 67 \\ 2 \cdot 90 \\ 9 \cdot 22 \\ 21 \cdot 00 \\ 38 \cdot 06 \\ 21 \cdot 68 \\ 2 \cdot 36 \\ \end{array} $	$31 \cdot 65 \\ 3 \cdot 81 \\ 13 \cdot 09 \\ 10 \cdot 86 \\ 11 \cdot 61 \\ 14 \cdot 81 \\ 0 \cdot 71 \\ \end{array}$	$56 \cdot 27 \\ 16 \cdot 77 \\ 12 \cdot 27 \\ 0 \cdot 16 \\ 0 \cdot 01 \\ 0 \cdot 06 \\ 1 \cdot 07 \\ 0 \cdot 07 $	$ \begin{array}{r} 15 \cdot 62 \\ 5 \cdot 82 \\ 13 \cdot 09 \\ 17 \cdot 69 \\ 23 \cdot 75 \\ 14 \cdot 28 \\ 4 \cdot 16 \\ \end{array} $	31 · 32 2 · 50 6 · 70 1 · 92 13 · 97 15 · 96 6 · 76		
Gippsland	••	•••	0.64	1.11	13.46	13.39	5.59	20.87		

NOTE .- For counties contained in each District, see table on page 519.

The area under the principal crops in proportion to the total area under crop in each district during last season was as follows :----

		Perc	entage of	Area und	er all Crops	devoted	to
Districts.		Wheat.	Oats.	Barley.	Potatoes.	Hay.	Other Crops.
Worth-Central	•••	$ \begin{array}{r} 10 \cdot 06 \\ 17 \cdot 67 \\ 20 \cdot 91 \\ 74 \cdot 09 \\ 75 \cdot 61 \\ 70 \cdot 38 \\ 37 \cdot 75 \\ 11 \cdot 53 \\ \end{array} $	$\begin{array}{r} 3.00 \\ 7.76 \\ 10.64 \\ 6.11 \\ 6.68 \\ 7.01 \\ 6.16 \\ 2.08 \end{array}$	$\begin{array}{c} 7\cdot 59\\ 3\cdot 00\\ 4\cdot 42\\ 0\cdot 93\\ 0\cdot 60\\ 1\cdot 40\\ 0\cdot 54\\ 7\cdot 40\end{array}$	$ \begin{array}{r} 10 \cdot 05 \\ 9 \cdot 81 \\ 3 \cdot 09 \\ 0 \cdot 01 \\ 0 \cdot 00 \\ 0 \cdot 00 \\ 0 \cdot 00 \\ 0 \cdot 61 \\ 5 \cdot 48 \end{array} $	$\begin{array}{r} 45 \cdot 59 \\ 55 \cdot 56 \\ 53 \cdot 80 \\ 18 \cdot 35 \\ 14 \cdot 85 \\ 16 \cdot 44 \\ 38 \cdot 67 \\ 37 \cdot 34 \end{array}$	$\begin{array}{c} 23 \cdot 71 \\ 6 \cdot 20 \\ 7 \cdot 14 \\ 0 \cdot 51 \\ 2 \cdot 26 \\ 4 \cdot 77 \\ 16 \cdot 27 \\ 36 \cdot 17 \end{array}$
Total for Victoria	•••	61 • 56	6.41	1.88	1.40	22.83	5 92

RELATIVE AREAS DEVOTED TO DIFFERENT CROPS IN EACH DISTRICT, 1926-27.

NOTE.-For counties contained in each District, see table on page 519.

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

AREA AND PRODUCTION OF FIVE PRINCIPAL CROPS PER HEAD OF POPULATION, 1922-23 to 1926-27.

		Wheat.	Oats.	Barley.	Potatoes.	Hay.				
Year ended March			Area per Head of Population.							
		acres.	acres.	acres.	acres.	acres.				
1923		1.67	• 31	·07	•04	•80				
924		1.51	•32	•03	•04	•79				
1925		1.09	•31	•04	•04	·68				
1926		1.40	.26	•06	·04	•60				
1927	••	1.70	.18	•05	•04	•63				
		·	Produce 1	er Head of P	opulation.					
				1		54 4				
		bushels.	bushels.	bushels. 1.55	tons. •09	tons. 1.05				
1923	••	22.61	5.13	•89	•15	.95				
1924	•••	. 23.25	5.76		·08	•90				
1925	•••	. 28.58	5.77	•87	·10	•55				
		. 17.37	$2.97 \\ 2.85$	1·05 1·12	•10	0.81				
1926 1927		. 27.39								

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 Rve principal crops. The following table gives the annual value of each of the five principal crops, based upon prices realized upon 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.						
· · · · ·			•.		1						
	£	£	£	£	£						
1922-23	8,031,875	1,416,355	436,235	1,040,662	6,327,338						
1923-24	8,189,069	1,455,331	262,210	701,229	5,229,162						
1924–25	11,993,546	934,538	354,006	682,878	3,639,496						
1925–26	6,665,150	684,320	290,166	1,309,470	3,497,253						
1926-27	9,546,812	653,291	295,739	671,673	4, 71 9, 925						
· · · · ·											
	£ s. d.	£ s. d.	£ s. d.	£ s. d.	£ s. d.						
Value per acre 1922-23	3 0 9	2 17 6	4 4 11	16 17 1	504						
" " 1923–24	369	2 15 11	4 12 9	11 16 6	4 1 10						
" " 1924–25	4 8 8	1 16 2	5110	11 2 10	3 5 0						
" " 1925–26	2 13 0	1 11 3	2 16 1	20 13 3	390						
,, ,, 1926–27	356	2 3 1	3 6 6	10 3 0	474						

VALUES OF FIVE PRINCIPAL CROPS.

The value of the five principal crops was £15,887,440 in 1926-27, as against £12,446,359 in 1925-26, £17,604,464 in 1924-25, £15,837,001 in 1923-24, and £17,252,465 in 1922-23.

Wheat production.

On the experience of the last five seasons the area under wheat for grain represented 56 per cent. of the total under all crops. The acreage, the total production, and the yield

per acre are given in the next table for decennial periods from 1860 to 1920, and for each of the last seven seasons :--

		Annual Average.	•
Period or Season (ending in Marc	h). Area under Crop.	Production.	Yield per Acre
	acres.	bushels.	bushels.
1860-70	194,714	3,480,765	17.87
1870-80	431,444	5,510,125	12.77
1880-90	1,077,575	10,793,936	10.02
1890-1900	1,563,403	12,610,595	8.02
1900–10	1,983,874	19,242,402	9.70
1910-20	2,570,540	30,632,514	11.92
1921	2,295,865	39,468,625	17.19
1922	2,611,198	43,867,596	16.80
1923	2,644,314	35,697,220	13.50
1924	2,454,117	37,795,704	15.40
1925	2,705,323	47,364,495	17.51
1926	2,513,494	29,255,534	11.64
1927	2,915,315	46,886,020	16.08

WHEAT PRODUCTION, 1860 to 1927.

Although a large area in districts of limited rainfall has been brought under cultivation for wheat growing during late years, the yield per acre for the State on the average of the last ten seasons was $14\cdot13$ bushels, which is better than the corresponding averages for decennial periods of earlier date back to 1870. This satisfactory result is largely due to the use of more prolific varieties of seed and to the more general practice of fallowing and fertilizing. In addition to the area shown for grain, 101,243 acres of wheat were cut for hay last season, so that the total area under wheat in 1926-27 was 3,016,558 acres.

The production of wheat in the other Australian States in 1926-27 was as follows:—New South Wales, 47,288,600 bushels; South Australia, 35,558,711 bushels; Western Australia, 30,021,616 bushels; Queensland, 379,339 bushels; and Tasmania, 536,358 bushels. The total production for the Commonwealth was 160,670,644 bushels.

wheat growing in counties. The principal wheat growing areas are the Wimmera, 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 ended March.										
Districts an Countles.			Area.			Produce).	Avera	ige per	Асте			
		1925.	1926.	1927.	1925.	1926.	1927.	1925.	1926	1927			
						. [•]			1				
a		acres.	acres.	acres.	bushels.	bushels.	bushels.	bush.	bush.	bush			
Central— Bourke		1 1 000	0 404	15,266	09 997	89,704	261,510	10.02	10.65	17.19			
Grant	••	4,633						17.09	19.97	17.8			
Morningtor	·•	319						18.69	20 37	23.70			
Evelyn		99					5,432	17.16	10-80	23.3			
North-Centra	1		503		1,000	0,200	1 0,102	1. 10					
Anglesey		1,198	3 1,097	1,142	20,143	13,259	19.076	16.81	12.09	16.7(
Dalhousie		2,622			45,135		39,292						
Talbot	••	12,820				159,047	316,494	20.55	12.12	19.0			
Western—										L			
Grenville	••	4,562				88,31	165,902	15.81	14.86	19.22			
Polwarth	••	49					4,080	$10.86 \\ 12.25$	13.72	23.72			
Heytesbury		4		19			350	12.25	10.00	18 42			
Hampden	••	9,821	11,027	11,305				17.70	17.19	10 .76			
Ripon Villiers	••	31,852		29,973 1,514		467,825		19.37	20.44	10.04			
Normanby	••	752						15.01	18.43	18.90			
Dundas	••	2,302					28,567	14.65	16-07	18.18			
Follett		44			809	1,787		18.16	9.66	20.87			
Wimmera-	••	1	100	011	003	1,101	í í	1	1	k			
Lowan		173,652	163,996	185,638	3,972,195	2,904,288	3,805,448	22.87	17.71	20.50			
Borung	••	408,387		440,049	10,713,127	8.347.436	10.384.649	126.23	120.68	23.00			
Kara Kara		149,441		146,529	3,377,400	2,046,978	2,562,471	22.60	15.43	20.2			
fallee—					1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 - 1997 -			1	1 .	1 .			
Millewa	••	6,378	18,399	45,636			544,269	18.54	3.75	11 .9			
Weeah	••	175,260	168,166			1,311,433		11 . 23	7.80	12.56			
Karkarooc Tatchera		628,200								12.84			
Northern-	••	382,258	342,067	401,900	4,712,863	2,364,893	5,415,076	12.33	6.81	13.42			
Gunbower		37,240	35,798	42,923	622,473	379,415	579,318	10.70	10.80	10.50			
Gladstone		120.587		129,554	2,614,400	1,063,114	2,200,078	91.68	9.70	18.05			
Bendigo		125,790		143,968	2,359,618	1,137,194	2,093,201	18.76	9.76	14.54			
Rodney		85,052		95,944	1,725,647	867,143							
Moira	••	276,738	238,040	248,409	5,854,344								
North-Easter	n—									1.1			
Delatite	••	8,005		8,686	119,831	105,772							
Bogong	••	36,305		34,874	606,930	294,455							
Benambra		293	233	380	5,022	3,703	4,828	17.14	15.89	12.71			
Wonnangat	ta	••	••			••		••	••	••			
lippsland Croajingolo:	nø		21	3		257	EO		12.24	10.99			
m	<u>п</u> 8		60	80	1.186	370	1 229	22.38	6.15	18.80			
T		332	380	538	5,794	8,565	1,528 11,251	17.45	22.5.1	20.00			
an Yu		10,523	12,463	16.379	196,734	244,617	314,749	18.70	19 63	10.22			
T		785	-1,033	1,654	13,771	16,539	35,936	17.54	16.01	21.78			
				0.015.01-	İ				· · · · ·	-			
Total		2.705.323	2,513,494	2,915,315	47.364.495	29.255.534	46,886,020	17.51	11.64	16.08			

The table which follows gives the average yield of wheat per acre in the principal wheat growing counties for each of the last ten years :---

AVERAGE YIELD OF WHEAT PER ACRE IN WHEAT GROWING COUNTIES, 1917-18 to 1926-27.

an a	Averag	e Yield	of Whe	at per A	cre (in	Bushels) durin	g Year (nded M	arch—
Districts and Counties.		·							;	
•	1918.	1919.	1920.	1921.	1922.	1923.	1924.	1925.	1926.	1927.
Western District-										
Bipon	13.27	10:06	16 ·26	21.74	19.63	19.62	15 · 33	19'37	17.18	20.72
Wimmera District										
Lowan	16.52	15·78	13 • 47	20 . 94	21.53	21.17	17.48	22 · 87	17 • 71	20.50
Borung	22.62	20.01	15.76	23.79	28.05	22.72	23 • 65	26.23	20 . 68	23-60
Kara Kara	17.68	14.39	14 • 10	21 · 25	22·05	19.12	18.10	22.60	15.43	20 • 2 2
Mallee District-										•
Weeah	10.21	6.38	3 • 43	14.28	8.89	8.75	10.49	11.23	7.80	12 - 50
Karkarooc	10.94	7.15	3.29	13.42	10.88	8.14	12.36	11.12	6.92	12-84
Tatchera	12.30	9.44	4 · 60	18.62	13.13	7 · 41	13.01	12 33	6.91	13 47
Northern District-				1						
Gunbower	14.23	8.74	8 96	15 27	15 .76	10.71	12.58	16.72	10.60	13.50
Gladstone	14.17	11.52	12.08	18.72	18·65	14.66	13.07	21.68	9.79	16-98
Bendigo	13.85	11.33	9.30	14.56	17.25	12.59	13.82	18.76	9.76	14.54
Rodney	12.67	10-80	6.85	15.79	15.77	13.65	14.68	20-29	11 . 29	14-36
Moira	11.38	10.70	4.79	17 • 46	16.83	12.34	16.13	21 . 15	11.92	14.58
Total State	14.03	11:40	7.75	17.19	16.80	13.50	15.40	17.51	11.64	16.08

Analysis of Grain Pro-Grain Production. of acres producing a given yield per acre was made for counties typical of the three important wheat growing districts of Victoria, and the resultant classification is shown hereunder:--

CLASSIFICATION OF VICTORIAN WHEAT AREAS, 1926-27.

WIMMERA DISTRICT.

COUNTY OF BORUNG.

(Average yield 23.60 bushels.)

		Ar	ea of Crop.	Production.		
Production per acre.	Farms in Group.	Total.	Proportion of whole.	Average Size.	Total.	Proportion of whole. per cent.
	Ma		per cent.	acres.	bushels.	Dor cont
Under 3 bushels	No.	acres. 275	·1	92	420	-
3 and under 6	11 n	533	·1	48	2,490	
<i>e</i> 0	31	2,591	•6	84	19,231	
0 19	41	5,168	1.2	126	54,510	
10 15	85	17.308	3.9	204	239,063	2.3
15 91	480	111,823	25.4	233	2.078,369	
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	725	186,751	42.4	258	4,465,176	43.0
27 " 33	426	98,875	22.5	232	2,945,413	28.4
33 " 39	84	16.648	3.8	198	576,478	5.6
39 and over	2	77	•	39	3,499	
Total	1,888	440,049	100.0	233	10,384,649	100.0

MALLEE DISTRICT.

COUNTY OF KARKAROOC.

(Average yield 12.84 bushels.)

		А	rea of Crop.		Production.		
Production per acre.	Farms in Group.	Total.	Proportion of whole.	Average Size.	Total.	Proportion of whole.	
	No.	acres.	per cent.	acres.	bushels.	per cent.	
Under 3 bushels	80	17,218	2.5	215	27,105	• 3	
3 and under 6	304	71,726	10.6	236	321,538	3.7	
6 , 9	419	108,742	16.0	260	810,297	9.3	
9 ,, 12	441	118,905	17.5	270	1,234,550	14.2	
12 ,, 15	373	100.143	14.8	268	1,334,694	15.3	
15 ,, 21	613	202,174	29.8	330	3,574,225	41.0	
21 , 27	166	55,736	8.2	336	1,296,052	14.9	
27 ,, 33	14	3,440	•5	246	98,936	1.1	
33 ,, 39	1	400	•1	400	14,592	2	
Total	2,411	678,484	100.0	281	8,711,989	100.0	

CLASSIFICATION OF VICTORIAN WHEAT AREAS, 1926-27 -- continued.

NORTHERN DISTRICT.

COUNTY OF MOIRA.

(Average yield 14.53 bushels.)

				Ar	ea of Crop.		Produc	tion.
	Production per acre.		Farms in Group.	Total.	Proportion of whole.	Average Size.	Total.	Proportion of whole.
								-
			No.	acres.	per cent.	acres.	bushels.	per cent.
Un	der 3 bush	els	62	5,143	2.1	83	8,251	•2
3	and under	6	151	12,176	4.9	81	57,380	1.6
6	"	9	274	26,018	10.5	95	200,163	5.6
9	··	12	323	36,298	14.6	112	382,091	10.6
12	· · · · · · · · · · · · · · · · · · ·	15	333	46,819	18.8	141	624,680	17.3
15	,,	21	574	94,198	37 • 9	164	1,680,424	46.6
21	*•	27	147	25,080	10.1	171	574,545	15.9
27	,,,	33	22	2,467	1.0	112	73,614	2.0
33	,,	39	3	210	•1	70	7,600	•2
	Total	••	1,889	248,409	100.0	132	3,608,748	100.0

In Borung, 42.4 per cent. of the area under wheat yielded from 21 to 27 bushels per acre, and, in Karkarooc and Moira, 29.8 per cent. and 37.9 per cent. respectively, yielded from 15 to 21 bushels.

Varieties of Wheat, ctc., and Manure used. Australian wheat is noted for its hard, white, and dry qualities, and, on account of the whiteness of the flour made used. 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, for the 1927-28 season 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 who supplied the information are given in the appended tables :---

VARIETIES OF WHEAT SOWN IN THE STATE, 1927-28.

Varieties.	to acrea	ge (according age) of total the State.	Varieties,		Percentage (according to acreage) of total area in the State.	
	p	er cent.				r cent.
Federation .	. 38.42	(44-76)	Turvey	••	2.09	$(1 \cdot 70)$
Currawa .	. 9.51	(9.89)	Wannon		$2 \cdot 01$	(1.18)
Ranee	. 5.95	(1.39)	Huf's Imperial	•••	1.96	$(2 \cdot 45)$
Major	. 5.62	(6.49)	Nizam		1.41	(0.33)
Calling 1: (Free)	. 5.47	(1.33)	Dollar		0.26	(0.87)
D	. 4.44	(5.42)	Graham		0.42	(0.45)
D. :- 1	. 3.46	(3.06)	Yanward		0.44	(0.51)
D. ໂ.) ⊡]	3.14	(3.51)	Warden		0.35	(0.48)
¥7 J:11 17:	. 2.77	(2.76)	Other varieties		4.67	(5.32)
T #-	. 2.66	$(2 \cdot 37)$				
01	2.47	(3.16)				
36 3 3771.4.	2.15	(2.57)	Total	••	100.00	(100.00)

Note .--- The figures in parentheses refer to the 1926-27 season.

In all, over 140 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.

PERCENTAGE OF TOTAL AREA, NUMBER OF GROWERS, AND SEED AND MANURE USED, 1927-28.

	Percentage		Weight per acre of-		
District.	(according to acreage) of total area in the State.	Number of Growers.	Seed Sown.	Manure Used.	
	per cent.		lbs.	lbs.	
Central	1.83	1,149	63	104	
North Central	0.97	821	101	95	
Western	2.43	1,092	88	105	
Wimmera	26 • 41	3,792	76	99	
Mallee	43.97	4,591	61	73	
Northern	22·24	5,570	70	86	
North Eastern	1.51	927	75	87	
Gippsland	0.64	487	91	94	
Total State	100.00	18,429	72	89	

The quantities of seed sown and manure used in the whole State were approximately 1,322,500 lbs. and 1,532,000 lbs, respectively. The rate of sowing ranged from $47\frac{1}{2}$ lbs. of seed per acre in the County of Millewa to 101 lbs. in Talbot. and Dalhousie. Manure used varied from 50 lbs. in Millewa to 118 lbs. in Hampden.

wheat standard. 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 61.30 lbs. on the average of the last ten years. The following statement shows the variation in the f.a.q. standard weight of a bushel of Victorian wheat for each season since 1916-17:---

Season ended March—	Weight of Bushel (f.a.q.).	Season	ended March—	Weight of Bushel (f.a.q.).
	lts.			lbs.
1918 1919 1920 1921 1922	$ \begin{array}{c} 60 \\ 62\frac{1}{2} \\ 62 \\ 60\frac{1}{2} \\ 60 \end{array} $	1923 1924 1925 1926 1927		$\begin{array}{c} 61 \\ 61 \\ 61 \\ 62 \\ 1 \\ 61 \\ 2 \\ 61 \\ 3 \\ 61 \\ 3 \end{array}$

F.A.Q. WHEAT STANDARD, 1918 to 1927.

It is estimated that about 12,000,000 bushels of wheat are required locally for food and seed. The stocks of wheat and flour in the State on 31st October, 1925, 1926, and 1927, and on 30th June, 1922, and at the same date in each of the previous eight years, were as follows :--

WHEAT AND FLOUR ON HAND, 1914 to 1927.

		- ¹	Quantity in Bushels.	
Year.		Wheat.	Flour (equivalent in Wheat).	Total.
		·		
1914	•••	8,002,311	940,138	8,942,449
1915	•••	582,448	510,300	1,092,748
1916	• •	42,578,379	519,162	43,097,541
917	••	63,852,078	1,078,875	64,930,953
918		70,031,000	1,658,000	71,689,000
	•••	53,023,000	3.284,000	56,307,000
	• •	11,780,159	4,861,000	16,641,159
	••	14,883,400	800,000	15,683,400
.922	••	5,065,600	883,150	5,948,750
923 924 Not collected	÷ {	••	•••	••
925		1.446.240	2,955,640	4.401.880
926		1,629,124	472,750	2,101,874
927		3,595,800	1,406,600	5,002,400

oats. In 1926-27 the area harvested for oats in Victoria was 303,424 acres, from which a yield of 4,884,006 bushels was obtained, giving an average of 16.10 bushels to the acre. The appended statement shows the harvest results for this crop for each of the last seven seasons, and for periods prior thereto back to 1865:—

Pariod or Vear	(ending in March).	Annual Average.				
renou or rear	(ending in starch).	Area under Crop.	Produce.	Average per Acre.		
1865-75	•• ••	acres. 129,384	bushels. 2,636,747	bushels. 20·38		
1875-85	·	147,343	3,297,468	22.38		
1885-95		210,901	4,649,393	22.05		
1895-1905	•• ••	340,957	6,649,453	19.50		
1905-15	••	390,643	7,342,468	18.79		
1915–20	•• ••	398,232	7,127,504	17.90		
1921	•• ••	443,636	10,907,191	24.59		
1922	••	318,681	6,082,258	19.09		
1923	••	492,356	8,093,459	16.44		
1924	•• ••	520,654	9,366,205	17.99		
1925	••	517,229	9,572,003	18.51		
1926	•• ••	437,696	4,998,165	11.42		
1927	•• ••	303,424	4,884,006	16.10		

OATS GROWN, 1865 TO 1927.

In addition to the area for grain shown for last season there were 959,019 acres of oats cut for hay, so that the total area sown with oats in 1926-27 was 1,262,443 acres. During 1926-27 there were exported from Victoria to oversea countries 95,017 bushels of oats and 6,695 lbs. of oatmeal, etc.

Varieties of Oats. Enquiries in regard to the different kinds of oats sown for the 1927-28 season showed that, of those growers who supplied the information, 91 per cent. planted principally Algerian, and 6 per cent. Mortgage Lifter oats.

Barley. The area under barley in 1926-27 was 88,896 acres, of which 59,935 were under malting, and 28,961 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	Area under Crop.		Produce.		rage per Acre. Other. Total.		
March-	Malting.	Other.	Malting.	Other.	Malting.	Other.	Total.	
1923 1924 1925 1926 1927	acres. 64,648 39,588 42,217 72,244 59,935	acres. 38,125 16,976 21,547 31,151 28,961	bushels. 1,525,744 1,037,144 971,532 1,189,081 1,186,733	bushels. 916,297 418,291 473,291 585,882 733,989		bushels. 24 · 03 24 · 64 21 · 97 18 · 81 25 · 34	bushels. 23 · 76 25 · 73 22 · 66 17 · 17 21 · 61	

CULTIVATION OF BARLEY, 1922-23 to 1926-27.

During 1926-27, 2,000,523 bushels of barley were used locally in the production of 1,943,575 bushels of malt.

Potatoes.

The area planted with potatoes in 1926-27 was 66,185 acres, and the production was 162,909 tons, which represented a yield of 2.46 tons per acre, as compared with 2.54

sented a yield of 2.46 tons per acre, as compared with 2.54 tons in the previous season, 2.27 tons in 1924-25, and 4.02 tons in 1923-24. The following table shows the potato returns for the last thirty-seven years :---

				Annual Average.				
Period o	r Year	(ending in Ju	ne).	Area under Crop.	Produce.	Average per Acre.		
				acres.	tons.	tons.		
1890-1900	. • •	••	••	47,738	155,432	3.26		
1900-10	••	••	••	48,857	142,307	2.91		
1910-20	••		••	60,127	166,677	2.77		
1921	••		••	62,687	171,628	2.74		
1922	•••			63,895	173,660	2.72		
1923		••	••	61,741	148,354	2.40		
1924				59,306	238,520	4.02		
1925				61.295	139.043	2.27		
1926				63,369	160,729	2.54		
1927				66,185	162,909	2.46		

POTATO PRODUCTION, 1890 to 1927.

The estimated value of the potatoes produced last season was $\pounds 671,673$ as against $\pounds 1,309,470$ in 1925–26, $\pounds 682,878$ in 1924-25, $\pounds 701,229$ in 1923–24, and $\pounds 1,040,662$ in 1922–23.

In 1927 the production of hay amounted to 1,387,971 tons, as against 929,068 tons in 1926, 1,492,588 tons in 1925, 1,541,287 tons in 1924, and 1,665,089 tons in 1923. The quantity of straw returned for the season 1926-27 was 23,985 tons as against 31,994 tons for the previous year. The hay returns for decennial

periods from 1890 to 1920, and each of the last seven seasons, are shown in the table which follows :---

				Annual Average.					
Period or	Year (er	nding in Ma	arch).	Area cut for Hay.	Produce.	Average per Acre.			
				acres.	tons.	tons. 1.23			
18901900	••	• •	••	467,668	576,618				
1900– 10	•••			664,387	894,108	1.35			
1910-20				984,797	1,269,767	1 • 29			
1921			•	1,333,397	1,984,854	1.49			
1922				1,159,135	1,548,453	1.34			
1923				1,261,408	1,665,089	1.32			
1924				1,277,606	1,541,287	1.21			
1925				1,120,312	1,492,588	1 33			
1926				1,013,613	929,068	0.92			
1927				1,080,993	1,387,971	1.29			

HAY PRODUCTION, 1890 to 1927.

The estimated value of the hay crop was £4,719,925 for 1927, as compared with £3,497,253 for 1926, £3,639,496 for 1925, £5,229,162 for 1924, and £6,327,338 for 1923. Of the total hay produced in 1927, 1,225,539 tons were oaten, 127,844 tons were wheaten, and 34,588 tons were made from lucerne and other crops; the yields per acre of these varieties of hay were 1.28, 1.26, and 1.67 tons respectively.

Prices of agricultural produce. Information is obtained direct from growers, in February or March of each year, in regard to the prices of the leading agricultural products other than the main crop of potatoes, the price of which is ascertained in June or July.

The following table gives the average price of each product for each of the last ten years :---

_			A	verage Price	in Februar	ry and Marc	h.	
Voe	Vaan			Bar	ley.		Pota	toes.
Year.		Wheat.	Oats.	Malting.	Other.	Hay.	Early Crop.	Main Crop (after March).
		per bushel.	per bushel.	per bushel.	per bushel.	per ton.	per ton.	per ton.
		s. d.	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
1918		4 0	3 11	$4 2\frac{3}{4}$	$3 4\frac{1}{4}$	59 0	79 0	55 0
1919		$\tilde{4}$ $\tilde{9}$	4 54	$5 0\frac{1}{2}$	$3 11\frac{3}{4}$	483 0	210 0	149 0
1920		7 81	$57\frac{1}{4}$	$6 7\frac{3}{4}$	58	134 0	219 0	178 0
1921		7 3	$2 4\frac{1}{2}$	4 01	3 1	53 0	101 0	64 0
1922		4 91	$3 0\frac{3}{4}$	$4 0\frac{1}{4}$	2 11	57 0	94 0	60 0
1923		4 6	36	3 11	3 0	76 0	170 0	136 0
1924		4 3	$3 1\frac{1}{4}$	3 94	$3 2\frac{1}{4}$	72 0	111 0	53 0
1925	••	5 03	1 111	5 34	4 $0^{\bar{1}}_{2}$	48 9	121 0	94 0
1926		$4 6\frac{3}{4}$	2 9	$3 4\frac{3}{4}$	3 0	75 3	194 0	158 0
1927	••	$3 9\frac{1}{4}$	$2 5\frac{1}{4}$	3 0	$126\frac{3}{4}$	64 9	170 0	69 0

PRICES OF PRODUCE, 1918 to 1927.

NOTE.--Prior to 1925, only freight and handling charges were deducted: but, for 1925 to 1927, the cost for bags and seed, and, for 1927, manure also, was deducted from the F.O.B. charges.

other Grops. The area under other than principal crops and the production since March, 1924, are shown in the subjoined table :---

OTHER THAN PRINCIPAL CROPS, 1924-25 to 1926-27.

Crop.	Area.	Production.	Area.	Production.	Area.	D
		1 Touteonoli.	Alca,	rrouucion.	Area.	Production
	1924	1-25.	192	5-26.	102/) 5-27.
	acres.	bushels.	acres.	i bushels.	acres.	bushels.
Maize	23,126	891,987	21,913	768,761		685,407
Rye	1,029	13,000	978	10,788		10,44:
Peas	11,759	256,160	14,094	166.543		198,947
		tons.		tons.	10,101	tons.
Mangel-wurzel	736	10,022	1,046	10,333	690	6,715
Beet, Carrots, Par-						•,• =,•
$\mathbf{snips} \mathbf{and} \mathbf{Turnips}$	238	1,847	624	2,758	286	1,994
Onions	4,504	26,555	5.379	21,728		43,928
Green Forage	99,531	••	107,873		87,241	
Grass and Clover		bushels.	· · · ·	bushels.		bushels.
Seeds	1.424	8,597	1,290	7,330	854	
1 A 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		cwt.	1,-00	cwt.	004	5,876 cwt.
Hops	269	4,240	312	3,934	196	1,169
Tobacco	1,228	3,199	1.179	7,871	1.154	+
Vines-Grapes	42,467	2,142,349	40,712	2,253,884	40,612	3,587,224
) í	800 seed.)(1,200 seed		0,001,241
		17 fibre	1	660 fibre	1 1	
Flax	ג 130 ל	3 tow		80 tow	388	±.
	}	2,600	(**)	00.00	1 300 1	‡
		straw	1 1	••	1 1	7
Gardens and Or.		SULAW) q	
chards	85,358		09 000		00.01.0	
Minor Crops	7.052*	••	82,665	•• .	83,215	••
	2,215,270	••	7,097*	••	8,161*	••
Artificial Grasses		. 1	2,457,136	••	2,569,021	
aroncial Grasses	843,095	••	820,337		835,049	••

* For details see page 537.

† Not available.

1 Not yet treated.

Maize. The area under maize for grain in 1926-27 was 20,046 acres, and the production was 685,407 bushels, which represented a yield of 34 ·19 bushels per acre, as compared with 35 ·08 bushels in 1925-26, 38 · 57 bushels in 1924-25, 50 · 33 bushels in 1923-24, and 34 ·04 bushels in 1922-23. 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 seven seasons and for periods prior thereto back to 1890 :

				Annual Average.					
Period or	Year (er	iding in Ju	ne).	Area under Maize for Grain.	Production.	Produce per Acre.			
1890-1900		· · ·		acres. 8,688	bushels. 452,907	bushels. 52.13			
1900-10				12.082	716.158	59.27			
910-20				20.811	922,461	44.33			
1921	••			24,149	1.065.880	44.14			
922	••	••		23,227	951.960	40.99			
923	••	•••	••	25.846	879,915	34.04			
924			••	29,104	1.464.731	50.33			
1925	••	••		23,126	891,987	38.57			
1926	••	••		21,913	768,761	35.08			
1927	••	••		20,046	685,407	34.19			

MAIZE PRODUCTION, 1890 TO 1927.

On the average of the last five seasons the yield per acre was $39 \cdot 1$ 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.

Rye. The area under rye in 1926-27 was 864 acres, from which 10,443 bushels of grain were obtained. The production was 10,788 bushels in 1925-26, 13,000 bushels in 1924-25, 11,151 bushels in 1923-24, and 15,718 bushels in 1922-23. Rye was grown principally in the counties of Bourke, Dalhousie, Delatite, and Talbot last season. The area under this crop in the four counties mentioned was about 67 per cent. of the total for the whole State.

Peas. The area under peas in 1926-27 was 10,431 acres, and the return, 198,947 bushels, as compared with 14,094 acres and 166,543 bushels for the previous year. Last season peas were grown to some extent in all districts with the exception of the Mallee. The counties from which the largest returns were obtained and the yields of these counties were as follows:--Grant, 50,713 bushels; Buln Buln, 34,317 bushels; Bourke, 32,877 bushels; Mornington, 19,753 bushels; and Tanjil, 9,488 bushels. The production of peas in the five counties mentioned was equal to 74 per cent. of the total for the whole State.

Mangelwurzel. In 1926-27 there were 690 acres under mangel-wurzel, as against 1,046 in 1925-26, 736 in 1924-25, 854 in 1923-24, and 684 in 1922-23. The production last year was 6,715 tons, as compared with an annual average of 9,762 tons for the preceding five-year period. Mangolds are grown principally in the Gippsland, Western, and Central districts.

Beet, carrots, parsnips, and turnips, parsnips, and exclusive of those grown in market gardens, showed a turnips. considerable decrease in area as compared with the previous season. In 1925-27 the extent of land sown was 286 acres, as against 624 in 1925-23, 238 in 1924-25, 538 in 1923-24, and 433 in 1922-23. The produce for last year was 1,994 tons, as compared with 2,758 in 1925-23, 1,847 in 1924-25, 4,222 in 1923-24, and 1,878 in 1922-23.

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 10,109 tons from 1,511 acres; in Grenville, 10,011 tons from 1,744 acres; in Polwarth, 7,024 tons from 1,122 acres; in Bourke, 4,947 tons from 850 acres; in Buln Buln, 4,876 tons from 1,213 acres; in Grant, 3,370 tons from 1,239 acres; and in Mornington, 2,520 tons from 531 acres. The following statement shows the area and yield for each of the last five years :--

	Year ended	March-			Area.	Produce.	
1922-23 1923-24 1924-25 1925-26 1926-27	••	 	 	 •••	acres. 6,954 4,714 4,504 5,379 8,471	tons. 44,409 31,683 26,555 21,728 43,928	(

ONION CULTIVATION, 1922-23 to 1926-27.

The value of onions grown was £110,839 in 1926-27, as compared with £267,793 in 1925-26, £209,803 in 1924-25, £215,444 in 1923-24, and £139,888 in 1922-23.

Green forage. The area devoted to green forage in 1923-27 was 87,241 acres, 107,873 in 1925-26, 99,531 in 1924-25, 107,371 in 1923-24, and 102,451 in 1922-23.

Ensilage. The practice of preserving torage in a green state has existed in Victoria for many years, but only a small number of farmers have adopted it. The returns for the last five seasons are given in the next table :---

	Year ended March		ar ended March— Number of Farms on which made.		Number of Silos (Pits and Stacks).	Materials us ed.	
						tons.	
1923	• • •	•••		103	138	5,674	
1924		••		61	88	3,649	
1925		••		106	149	6,667	
1926				113	150	6.092	
1927		••		94	110	6,132	

ENSILAGE RETURNS, 1922 23 to 1926-27.

 Grass and clover seed.
 The area harvested for grass and clover seed last season was 854 acres, as compared with 1,290 in 1925-26, 1,424 in 1924-25, 1,306 in 1923-24, and 1,468 in 1922-23. The production in 1926-27 was 5,876 bushels, as against 7,330 in 1925-26, 8,597 in 1924-25, 6,466 in 1923-24, and 7,859 in 1922-23.

Hops. The hop-growing industry attained its maximum development in 1883-84, when 1.758 acres yielded 15,717 cwt. In 1926-27 the return from 196 acres was 1,169 cwt. Delatite, Bogong, Heytesbury, and Tanjil were the only counties in which hops were grown last season.

Flax. No flax was sown during the year 1923-24, but the Commonwealth Flax Committee, before winding up, supplied to Drysdale farmers seed for sowing in the 1924-25 season. An area of 130 acres was then sown, followed by 154 acres in 1925-26, and 388 acres in 1926-27. Owing to discontinuance of operations by the local co-operative company, the latter harvest has not yet been treated. Particulars of the crop for each of the last five years are given in the following statement :---

Year ended December-		Area under Crop.	Seed Produced.	Fibre Produced.	Tow Produced.	Straw awaiting Treatment.	
19 22			acres. 590	cwt. 1,725	ewt. 435	cwt. 25	tons.
1923	•••	. •• .	Nil	· ·			••
1924	••	•••	130	800		3	130
1925	••		154	1,200	660	80	••
1926	••		388	*	*	*	*

FLAX,	1922	то	1926.
-------	------	----	-------

* Har vest not yet treated.

NOTE .- For particulars of New Zealand flax, not included in above statement, vide page 537.

In 1926-27 imports into Victoria from countries outside Australia included linseed to the value of $\pounds 44,688$, linseed oil worth $\pounds 38,707$, and fibre worth $\pounds 209,191$.

Tobacco. 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 since 1920-21 increasing areas have been devoted to the industry. The area devoted to this product last year was 1,154 acres, of which 602 were in Delatite, and 419 in Bogong. Particulars relating to the cultivation of tobacco for each of the last five years are as follows :---

CULTIVATION OF TOBACCO, 1922-23 to 1926-27.

Yea	r ended Ju	Area.	Produce.		
· · ·				acres.	cwt. (dry)
1922-23				890	4,151
1923-24	••		• • •	1,047	1,165
1924 25				1.228	3,199
1925 26		••		1.179	7,871
1926-27				1,154	*

* Not available.

During the period 1904-15 the area under vines Production. decreased by 6,712 acres, or by nearly 24 per cent., and the number of growers decreased by 521, or by 23 per cent. Since 1915 there has been a fairly large increase in the area and the number of growers. Vineyards are distributed fairly well over the State, and there are certain districts where the principal industries are connected with vine-growing. The Shire of Mildura produced last season 2,924,862 cwt. of grapes; Swan Hill, 405,164 cwt.; Rutherglen, 121,273 cwt.; and Rodney, 24,380 cwt. At Mildura the crop is principally dried for raisins and currants. The results of five years' operations are given below :---

				P	roduce.			
June-	Number of	f Area.	Grapes		Raisin	s made.	Currants	
	Growers.	e A ser A j	gathered.	Wine made.	Lexias.	Sultanas.	made.	
		·						
		acres.	cwt.	gallons.	ewt.	cwt.	cwt.	
1923	2,775	38,892	1,879,964	1,717,490	67,850	217,670	98,081	
1924	3,047	42,599	2,707,729	2,177,127	71,993	366,834	150,867	
1925	2,999	42,467	2,142,349	1,368,765	70,695	296,304	104,948	
1926	2,876	40,712	2,253,884	1,637,274	54,021	297,485	123,733	
1927	2,832	40,612	3,587,224	2,346,314	75,296	582,418	135,464	

VINE PRODUCTION, 1923 to 1927.

Of the total quantity of grapes gathered in 1927, it is estimated that 417,502 cwt. were used for making wine and spirits, 3,077,038 cwt. for raisins and currants, and 92,684 cwt. for table consumption and export. Of the 582,418 cwt. of sultanas made, 494,971 cwt. were from Mildura, and 84,068 cwt. from Swan Hill.

Raisins are produced in Victoria upon a scale far in excess of the State's requirements. It is estimated that a year's consumption of raisins is about 88,000 cwt.; consequently, about 570,000 cwt. of the production in 1927 were available for interstate or oversea export. A year's consumption of currants is about 30,000 cwt., which would enable approximately 105,000 cwt. of last season's production to be exported to other States or oversea.

Orchards. The total number of persons in the State growing fruit for sale was 7,425 in 1926–27, as against 7,673 in 1925–26, 7,414 in 1924–25, 7,387 in 1923–24, and 7,758 in 1922–23. The area under orchards in each of those vears was 81,301, 80,251, 83,369, 83,469, and 83,880 acres respectively. The orchards are distributed over the whole State. The counties having the largest areas last season were as follows:--Mornington, 14,859 acres; Bourke, 12,187 acres; Evelyn, 11,711 acres; Rodney, 10,119 acres; Moira, 7,838 acres; Talbot, 3,959 acres; and Bendigo, 3,323 acres.

The following is a statement of the number of bearing and notbearing fruit trees and plants for the seasons 1922-23 and 1925-26 :---

4		Ň	umber of Tr	ees, Plants, d	¢с.	
Fruit.		1922-23.		1	1925-26.	· · · · · ·
	Bearing.	Not Bearing.	Total.	Bearing.	Not Bearing.	Total.
Apples	2,302,089	854,643	3,156,732	2,281,817	751,046	3,032,863
Pears	729,775	360.403	1,090,178	803,344	247,341	1,050,685
Quinces	72,316	33.041	105.357	77,950	15,733	93,683
Plums	368,355	153,020	521,375	305.348	64,826	370.174
Prunes	*	*	*	74,118	46,019	120,137
Cherries	182,093	33,802	215,895	112,324	29,228	141,552
Peaches	778,650	341,485	1,120,135	876,635	222,333	1.098.968
Apricots	349,242	130,114	479,356	397,402	67,532	464,934
Nectarines	15,295	1,645	16,940	13,539	3.570	17,109
Oranges	279,146	224,117	503,263	338,290	259,710	598.000
Lemons	100,544	96,207	196,751	130,634	64,881	195,518
Г *	1	90,207	190,751	360		418
()			1	1.597	58	1
Pomelo - Shad-		••	1		5,959	7,550
dock	••		†	350	114	464
Loquats	3,337	1,138	4,475	3,346	1,092	4,438
Medlars	55	27	82	71	15	86
Figs	29,149	7,069	36,218	31,967	6,050	38,017
Guavas	182	92	274	68	67	135
Pomegranates	107	243	350	69	59	128
Persimmons	384	427	811	535	205	740
Total Large						
Fruits	5,210,719	2,237,473	7,448,192	5,449,764	1,785,838	7,235,602
Raspberries	308,647		308,647		351,201	351,201
Loganberries	139,084	••	139,084		147,901	147,901
Strawberries	2,432,038		2,432,038		3,662,153	3,662,153
Gooseberries	185,922	29,418	215,340	196,494	20,114	216,608
Mulberries	901	355	1,256	858	259	1,117
Olives	1,577	208	1,785	1,576	300	1,876
Currants (Red,						
White, and	-			1		
Black)	29,779	6,939	36,718	36,369	7,444	43,813
Passion-fruit	41,148	27,133	68,281	54,245	35,019	89,264
Almonds	21,987	9,792	31,779	23.272	16,287	39,559
Walnuts	5,223	7,019	12,242	7,382	4,481	11,863
Filberts	628	246	874	259	502	761
Chestnuts	692	262	954	462	254	716
Total Nuts	28,530	17,319	45,849	31,375	21,524	52,899

RETURN SHOWING THE NUMBER OF FRUIT TREES, PLANTS, ETC., IN ORCHARDS AND GARDENS WHERE FRUIT WAS GROWN FOR SALE. 1922-23 and 1925-26.

In 1926, a special census was taken to ascertain the number of trees of each variety of each kind of fruit planted in Victoria, in order to facilitate consideration of the Census of Fruit Trees. problems of marketing. The Department of Agriculture, Victoria,

published a detailed statement of each variety in each county in the State, and copies may be had on application thereto.

The results are briefly summarized in the following table :---

Kind and Variety.	Trees of Bearing Age.	Young Trees not Bearing.	Kind and Variety.	Trees of Bearing Age.	Young Trees not Bearing.
	No.	No.		No.	No.
Annles-	щ.	10.	Apricots-	110.	1.0.
Apples— Jonathan	910,146	247,572		195,679	29,486
Rome Beauty	253,012	98,555	Moorpark Oullin's Early	46,412	4,979
London Pippin (Five	200,012	00,000	Mansfield	41,338	6,136
Crown)	183,438	36,636	Others	113,973	26,931
	135,140	57,251		110,010	
Yates Delicious Dunn's (Munro's Favorite)	46,112	75,146	All Varieties	397,402	67,532
Dunn's (Munro's	10,115	10,1±0			
Favorite)	91,761	18,893			1.1
C14	56,303	35,452	Cherries—		
Gravenstein Cleopatra (N.Y. Pippin)	58,011	18,569	Bedford Prolific	21,695	6,804
Cleopatra (N.Y.	00,011	10,000	Early Purple Guigne	15,355	2,647
Pippin)	46.290	12,412	Early Purple Guigne Burgsdorf's Seedling	11,216	3,568
Pippin)	46,290 21,936	29,672	Biggareau Twyford	13,623	1,089
Reinette de Canada	42,801	6,935	Others	50,435	15,120
Statesman	42,801 35,240	12,748			
Rokewood	38,668	6,348	All Varieties	112,324	29,228
King David	35,648	6,304			
Others	327,311	88,553			
	021,011	00,000	Nectarines-		
All Varieties	2,281,817	751,046	Goldmine	9,436	1,580
	2,201,011	.01,010	Others	4,103	1,990
Pears-			All Varieties	13,539	3,570
Williams (Bartlett)	376,609	85,222			1
Beurre Bosc	90 169	32,500			
Packham's Triumph	55 112	46,608	Peaches		1
Kieffer	55,112 51,324	9 104	Pullar's Cling	237,914	31,081
Josephine de Malines	38-891	9,104 17,740	Elberta	65.595	2,771
Others	38,891 201,240	56,167	Brigg's Red May	55.778	11,587
	201,210		Hales' Early	55,778 56,856	10,188
All Varieties	803,344	247,341	Nicholls' Orange	00,000	
			Cling	61,246	2,402 12,590 151,714
		1 1 1 1	Goodman's Choice	44,955	12,590
Oranges			Others	354,291	151.714
Washington Navel	198,363	130,728			
Valencia Late	67,902	70,995	All Varieties	876,635	222,333
Others	54,243	36,120			.
			Plums and Prunes-		
All Varieties	320,508	237,843	Grand Duke	45,431	13,824
			Diamond	40,985	6,820
			Prune d'Agen	23,019	23,071
Mandarins—			Angelina Burdett	28,823	7,261
Emperor	12.029	13,534	Others	175,441	42,996
Others	12,029 5,753	8,333			
		0,000	All Varieties	313.699	93,972
All Varieties	17,782	21,867			
			Plums (Japanese)		1
Lemons-		1	Burbank	22,886	4,153
Lisbon	89,629	37,775	Santa Rosa	11,503	2,918
Eureka	34,153	24,781	Satsuma (Blood)	10,865	3,177
Others	6,852	2,325	Others	20,513	6,625
,					
All Varieties	130,634	64,881	All Varieties	65,767	16,873
			Figs-		1
Grape Fruit—		1	White Genoa	15,750	1,458
Marsh's Seedless	1,017	5,306	White Adriatic	5,610	585
Triumph	239	415	Brown Turkey	3,641	1,657
Others	341	238	Others	6,966	2,350
			1		
All Varieties				31,967	6,050

CENSUS OF FRUIT TREES, 1926.

The area of orchards growing fruit for sale in 1926-27-81,301 acres—showed an increase of 1,050 acres as compared with the area for the previous year. Details of the produce from such orchards in the last five years are given in the subjoined statement :—

ORCHARDS GROWING FRUIT FOR SALE, 1922–23 to 1926–27.

Year	Number	Area of Gardens		LARGE FRUITS GATHERED.								
ended March—	Fruit- growers.	and Orchards.	Apples.	Pears.	Quinces.	Piums.	Prunes.	Cherries.				
1923 1924 1925 1926 1927	7,758 7,387 7,414 7,673 7,425	acres. 83,880 83,469 83,369 80,251 81,301	bushels. 2,089,017 1,663,308 2,233,230 2,063,214 543,106	858,611 910,915 840,113	bushels. 63,837 76,167 81,160 81,365 42,695	258,117 241,818 308,638 203,334	bushels. * * 50,408 37,060	bushels. 92,407 63,662 51,299 69,639 29,817				
			Large Fru	its Gathere	d—contin	ued.						
	Peaches.	Apricots.	Oranges.	Lemons.	Figs.	Nectarines	Passion.	Other.				
1923 1924 1925	bushels, 966,952 938,908 990,683	352,604 350,778	bushels. 259,330 210,595 310,890	bushels. 109,347 95,443 128,889	bushels. 15,313 27,772 25,658	bushels. 14,749 14,649 16,545	bushels. 16,066 15,986 30,866	bushels. 1,431 3,942 1,211				
1926	1,221,582	247,600	286,216	131,154	22,568	15,289	10,495	860				

SMALL FRUITS GATHERED.

925,353 440,423

1927

NUTS GATHERED.

9,274

22,289

6,311

	1								
	Rasp- berries.	Straw- berries.	Goose- berries.	Currants, Black, Red. & White.	Other.	Almonds.	Walnuts.	Filberts.	Chest- nuts.
	ewt.	cwt.	ewt.	cwt.	ewt.	lbs.	lbs.	lbs.	lbs.
1923	2,682		5,243		5,236	74,588		1,031	10,713
1924	2,160	3,831	3,657	283	3,046	76,905	29,665	964	6,190
1925	3,665	5,856	4,281	355	6,980	70,217	23,199	615	14,469
1926	3.548	4.022	4.675	329	5,881	71,480	61.845	201	16,793
1927	1,283	1,877	1,322		1,5491			59	15,495

t

16,474

* Included in Plums. † As the season for citrus fruits ends later than that for other fruits details are not yet available. f blackberries. through 1,364 cwt. of logan berries, and 108 cwt.

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 addition to the fruits shown, large quantities of melons, rhubarb, and tomatoes were produced in the orchards, the following being the quantities returned for 1926-27:-Melons, 7,917 cwt.; rhubarb, 5,331 dozen bundles; and tomatoes, 231,008 bushels. There were also 1,914 acres laid down in gardens growing fruit for private use; the value of the produce from these was estimated at about £9,600.

According to prices received by growers the value of Value of fruit which reaches market was estimated to be £1,172,300 sold.

in 1922-23, £1,193,689 in 1923-24. £1,091,508 in 1924-25, £1,247,700 in 1925-26, and £970,831 in 1926-27. 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 1926-27 was 17,751 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 £887,550. 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.

Dried truit (reclusive of Raisins and Currants). The quantity of dried fruit (weight after drying) was first collected in 1895–96, when 179,460 lbs. were returned. During 1926–27 the quantity produced was 756,324 lbs., which was 14 per cent. less than the quantity for the previous year. The production of the various kinds of

dried fruit, with the exception of raisins and currants, the particulars of which appear on page 532, is shown in the following statement for each of the last five seasons :---

Year ended June—	Apples.	Prunes.	Peaches.	Apricots.	Figs.	Pears.	Nectarines.	Total.
	_lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.	lbs.
1923 1924 1925 1926 1927	5,354 3,104 8,037 4,569 2,840	395,090 638,302 307,377	454,899 168,948 153,235 232,170 107,933	217,624 328,643	6,226 16,945 29,301	132,217	2,953 10,354 8,163	1,435,528 926,162 1,258,358 884,369 756,324

DRIED FRUIT, 1922-23 to 1926-27.

A feature of the returns for the season 1926-27, as compared with those for the previous year, is the decrease in all fruits except prunes and apricots.

Minor 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:—

•			1925-26.		1926-27.
Crop.		Area.	Produce.	Area.	Produce.
Beans Chicory Flowers Garlic	 	acres. 961 528 327 30	19,008 bushels 430 tons (dry) 35 tons	acres. 1,045 540 388 35	18,204 bushels 257 tons (dry) 55 tons
Flax—New Zealand	••	90	†58 tons fibre	90	*
Millet—Broom	••	669	{1,797 cwt. fibre {1,151 cwt. seed	} 1,493	4,487 cwt. fibre
,, Japanese	••	95	550 ,, ,,	25	1 2,847 cwt. seed
Nurseries	••	721		815	
Pumpkins Seeds—Agricultural	and	1,179	5,472 tons	1,590	5,816 tons
Garden		14		79	
Sugar Beet		1,880	$\begin{cases} 21,194 & \text{tons} \\ \text{clean beet, pro-} \\ \text{ducing} & 2,315 \\ \text{tons} & \text{market.} \end{cases}$		$\begin{cases} 9,851 & \text{tons} \\ \text{clean beet, pro-} \\ \text{ducing } 1,177 \\ \text{tons market-} \end{cases}$
Sunflowers	••	63	(able sugar 400 cwt.	ر 37	Lable sugar 390 cwt.
Total	•••	7,097		8,161	••

MINOR CROPS, 1925-26 AND 1926-27.

* Only cut every third year. † Partial failure.

Land in The practice of fallowing has become very popular in recent years. This is no doubt due to the more enlightened methods adopted, especially in wheat farming, where results have justified the introduction of extensive fallowing in conjunction with heavy manuring. The acreage in fallow in the years 1901, 1906, 1911, 1916, 1921, and each of the last five years was as follows :--

Year ended March-		ar ended March— Acres.		Year ended 1	Acres.	
1901 1906	••		602,870	1923		2,186,881
911	••	••	1,049,915 1,434,177	1 924 1925		2,294,297 2,215,270
916 921	••	•••	1,358,343	1926		2,457,136
VAL	••	••	1,935,747	1927	1	2.569.021

LAND IN FALLOW.

9354.-30

Nearly all of the fallowed area is devoted to wheat production. Of the 2,569,021 acres in fallow last season, 797,657 were in the Wimmera, 945,898 in the Mallee, and 599,629 in the Northern District. The total for these three districts represented, therefore, 91 per cent. of the land fallowed in the State.

The increase in the proportion of farmers using manure Manure used. indicates the popularity and the value of this method of treating the soil. Last year the number of farmers who used manure was 41,795, as compared with 37,835 in 1921, 26,159 in 1911, 11,439 in 1901, and 7,318 in 1898. The following table shows the number of farmers using manure, and the quantity used, in 1901, 1906, 1911, and 1916, and each of the last six years:--

					Manure	used	
Year	Year ended March-		Farmers using.	Area used on.	Natural.	Artificial.	
1901 1906 1911 1916 1921 1922 1923 1924 1925 1926	··· ·· ·· ·· ·· ··	· · · · · · · · · · · · · · · · · · ·	$11,439 \\ 23,072 \\ 26,159 \\ 33,165 \\ 37,835 \\ 40,037 \\ 39,749 \\ 39,393 \\ 40,460 \\ 41,795$	acres. 556,777 1,985,148 2,676,408 3,870,742 3,848,184 4,148,780 4,113,640 4,301,558 4,244,191 4,601,239	tons. 153,611 205,906 205,739 181,268 161,683 173,343 163,843 151,611 144,537 142,334	tons. 23,535 60,871 82,581 117,812 150,012 172,897 178,621 184,140 195,542 214,234	

MANURE USED FOR FERTILIZATION, 1901 TO 1926.

Norre.-The average weight of manure used per acre in each district will be found on page 523.

The area on which manure was used represented only 7 per cent. of that under crop in 189S, but since then the proportion manured has rapidly increased. In 1901, it was 19 per cent.; in 1903, 36 per cent.; in 1905, 56 per cent.; in 1909, 66 per cent.; in 1913, 77 per cent.; and in 1926, 97 per cent. During 1926-27 the quantity of fertilizers imported into Victoria from oversea countries was 221,243 tons valued at £528,605. This included 218,998 tons of rock phosphates valued at £496,785, most of which came from the Pacific Islands.

Characteristics This subject is fully dealt with in the Year-Book for of Victorian 1915-16, page 740

Persons employed on Farming, Dairying, and Pastoral Holdings.

Information is obtained by the collectors of agricultural statistics each year as to the number of persons 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, 1922 TO 1926.

Year	Year ended March-		Males.	Females.	Total.
1922 1923 1924 1925 1925	••• •• ••	 	107,872 105,933 103,013 98,059 96,791	48,978 46,218 33,954 19,124 17,619	156,850 152,151 136,967 117,183 114,410

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. Prior to 1925, females who were only partly engaged in work on the holdings were included in the figures given, whereas, in that year, only those wholly employed 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.

In the next return will be found particulars of the rates of wages paid (with rations) upon farms and pastoral holdings during 1926-27. The information has been furnished by the occupiers of holdings.

WAGES, AGRICULTURAL AND PASTORAL, 1926-27.

Occupations.	Range.	Prevailing Rate.
Ploughmen Farm labourers Threshing machine hands Harvest hands Milkers Maize pickers (without rations) Married couples Female servants Shearers, hand (without rations) , machine (without rations). Gardeners, market , orchard Vineyard hands	30s. to 80s. per week 27s. 6d. to 70s. per week 12d. to 18d. per hour 10s. to 16s. per day 25s. to 60s. per week 6d. to 10d. per bag 50s. to 90s. per week 15s. to 40s. per week 35s. to 50s. per 100 sheep 38s. to 60s. per 100 sheep 40s. to 80s. per week 40s. to 80s. per week	45s. per week 41s. per week 15d. per hour 13s. per day 35s. per week 8d. per bag 60s. per week 25s. per week 40s. per 100 sheep 40s. per week 50s. per week 50s. per week

PASTORAL AND DAIRYING INDUSTRIES.

Live Stock. 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 1927.

Year	ended March	_	Horses (including	Catt	le—	Sheep.	Pigs.
			Foals).	Dairy Cows.	Other.		
							number.
1001			number.	number.	number. 525,000	number. 5,780,896	61.259
1861	6 . 6 .	• •	76,536	197,332 212,193	523,000 564.534	10,477,976	180,109
1871	1. S. • • 5	••	209,025	329,198	957.069	10,360,285	241,936
1881	••	••	275,516		1,387,689	12,692,843	282,457
1891	••		436,469	395,192	1,080,772	10,841,790	350,370
1901	••	• •	392,237	521,612	878,792	12,882,665	333,281
1911	••	••	472,080	668,777		12,382,005	175,275
1921	••	••	487,503	620,005	955,154	14.919.653	284,271
1927	••	•••	447,988	673,089	762,672	14,819,000	204,211
			-	Per	Head of Po	pulation.	· 3.
1861			•14	1 .37	1 8 • 97	10·70	•11 ° .
1871			·29	•29	• • 77	14.32	$\cdot 25$
1881			·32	·38	1.11	12.01	·28
1891	•••		.38	.35	1.22	11.13	•25
1901			·33	•43	·90	9.03	·29
1911	••		•36	·51	•67	9.79	$\cdot 25$
1921	•.•		· 32	•41	·63	7.99	·12
1927			• 26	•39	•45	8.72	•17
					Per Squar	e Mile.	
1861			.87	2.25	1 5.97	65.78	•70
1871			2.38	2.41	6.42	119.22	2.02
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	$12 \cdot 30$	$123 \cdot 36$	4.00
1911	••	•	5.37	7.61	10.00	146.59	3.79
1921	••		5.55	7.05	10.87	138.49	1.99
1927		•••	5.10	7.66	8.68	169.77	3.23

LIVE STOCK IN VICTORIA, 1861 TO 1927.

By reducing horses and cattle to an equivalent in sheep on the assumption that one of the former will eat as much as ten, and one of the latter as much as six 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 319 sheep in 1927, as compared with 302 in 1921, 306 in 1911, and 237 in 1881.

Size of Notifings in Joint 1913, 1919. and 1925. Particulars of the size of holdings and cultivation thereon, together with the particulars of the total holdings in which only Crown land was held, are given in the following table for the years 1913, 1919, and 1925 :---

SIZE OF	HOLDINGS AND	CULTIVATION	THEREON.
	1913, 1919,	AND 1925.	,

Privately	-owned	Land.		Crown Land held		Area	under-
Size of Holdings. (In acres.)	Year.	Number of Hold- ings.	Area Occupied.	in conjunc tion with that privately owned.	- Total Area Occupied.	Cultiva- tion.	Pasture, &c.
1 and under $100 \bigg\{$	1913 1919 1925	28,902 31,289	acres. 915,493 942,775 1,063,933	acres. 374,511 347,377 370,024	acres. 1,290,004 1,290,152 1,433,957	acres. 245,498 241,794 291,220	1,048,358
100 , $321 \bigg\{$	1913 1919 1925	$19,930 \\ 21,718$	3,819,680 3,967,377 4,268,016	$\substack{1,216,829\\840,116\\698,212}$	5,036,509 4,807,493 4,966,228	875,525 807,434 932,530	4,160,984 4,000,059
321 " 641	1913 1919 1925	$11,831 \\ 12,397$	5,475,942 5,790,225 6,013,942	1,191,890 1,480,407 872,005	6,667,832 7,270,632 6,885,947	1,424,020 1,490,476 1,842,798	5,243,812 5,780,156
641 " 1,000	1913 1919 1925	5,221 5,709 6,901	4,187,010 4,523,331 5,470,464	1,241,667 1,071,162 616,611	5,428,677 5,594,493 6,087,075	1,075,000 1,105,867 1,644,026	
1,000 ,, 2,500	1913 1919 1925	$\begin{array}{c} 4,544 \\ 5,010 \\ 5,521 \end{array}$	6,748,985 7,291,675 7,958,566	1,852,529 2,300,465 1,345,581	8,601,514 9,592,140 9,304,147	1,546,611 1,379,247 1,836,928	7,054,903 8,212,893 7,467,219
2,500 ,, 5,000{	1913 1919 1925	820 855 899	2,803,419 2,825,855 2,974,753	$1,085,769 \ 716,245 \ 741,294$	3,889,188 3,542,100 3,716,047	352,258 270,426 284,495	3,536,930 3,271,674 3,431,552
5,000 ,, 10,000	$\frac{1913}{1919}\\1925$	267 290 273	1,825,862 1,996,606 1,868,708	342,848 378,877 198,969	2,168,710 2,375,483 2,067,677	111,910 83,014 90,274	2,056,800 2,292,469 1,977,403
10,000 and upwards	$\begin{array}{r} 1913 \\ 1919 \\ 1925 \end{array}$	$151 \\ 152 \\ 104$	2,652,966 2,638,307 1,576,942	$\begin{array}{r} 404,710\ 124,045\ 34,869 \end{array}$	3,057,676 2,762,352 1,611,811	$39,606 \\ 35,979 \\ 17,643$	3,018,070 2,726,373 1,594,168
Total of privately- owned land	1919	72,679	28,429,357 29,976,151 31,195,324	7,258,694	37,234,845	5,670,428 5,414,237 6,939,914	30,469,682 31,820,608 29,132,975
Crown Land not held in conjunction with that privately owned	$1913 \\ 1919 \\ 1925$	1,892 1,651 935	 	1,078,688 899,289 733, 3 35	1,078,688 899,289 733,335	36,151 76,783 36,800	1,042,537 822,506 696,535
Grand Total	1919	74,330 ¦2	28,429,357 29,976,151 31,195,324	8,157,983	38, 134, 134	5,706,579 5,491,020 6,976,714	31,512,219 32,643,114 29,829,510

The number of holdings of privately-owned land of over 10,000 acres was 104 in 1925, as compared with 152 in 1919, 151 in 1913, 175 in 1910, and 195 in 1906, and the aggregate areas comprised therein in the corresponding years were 1,576,942 acres, 2,638,307 acres, 2,652,966 acres, 3,298,227 acres and 4,134,067 acres. The reduction in the period of nineteen years between March, 1906, and March, 1925, was equivalent to 47 per cent. in the number and 62 per cent. in the acreage of such estates. Subdivision of estates of over 10,000 acres was practically at a stand-still during the period between March, 1913, and March, 1919, but, since the latter date, such estates have declined by 32 per cent. in the number and 40 per cent. in the acreage. In all other holdings of the sizes mentioned in the above table, excepting those between 5,000 and 10,000 acres, which declined in both numbers and acreage, between March, 1919, and March, 1925, there were increases in both numbers and acreage in the nineteen years referred to.

Size of holdings and how they were utilized, 1913, 1918, and 1925.

To illustrate the uses to which the land was applied in 1913, 1919, and 1925, various percentages relating to holdings of different sizes, of privately-owned land and Crown land held in conjunction therewith, are given for those years in the succeeding table, which also shows the live stock carried by the holdings, reduced to their equivalent in sheep :---

SIZE OF HOLDINGS AND HOW UTILIZED, 1913, 1919, AND 1925.

	-	Perce	ntage ir to T	each D otal of	ivision		Live Stock G reduced to ec lent in Shee	uiva-
Size of Holdings of Privately-owned Land. (in Acres.)	Year.	Holdings.	Area Occupied.	Area under Cultivation.	Area used for Pasture, &c.	Equivalent in Sheep Grazed.	Total.	Per 100 Acres used for Grazing, &e.
1 and under 100	$\begin{cases} 1913 \\ 1919 \\ 1925 \end{cases}$	39·08 39·77 39·56	3·57 3·46 3·97	4·33 4·47 4·20	3·43 3·29 3·92	7·08 6·50 7·97	1,766,873 1,909,552 2,072,251	169 182 181
100 " 321	$\begin{cases} 1913 \\ 1919 \\ 1925 \end{cases}$	27.66 27.42 27.46	$13.94 \\ 12.91 \\ 13.77$	$15.44 \\ 14.91 \\ 13.44$	$13.66 \\ 12.57 \\ 13.85$	$17.67 \\ 17.40 \\ 19.20$	5,107,256	106 128 124
321 " 641	$\begin{cases} 1913 \\ 1919 \\ 1925 \end{cases}$	16·78 16·28 15·67	18·45 19·53 19·09	$25 \cdot 12 \\ 27 \cdot 53 \\ 26 \cdot 55$	17·21 18·17 17·31	$17.14 \\ 17.48 \\ 17.68 $	5,132,920	82 89 91
6 41 ,, 1,000 .	$\begin{cases} 1913 \\ 1919 \\ 1925 \end{cases}$	7.82 7.85 8.72	$15.02 \\ 15.03 \\ 16.88$	$18.95 \\ 20.43 \\ 23.69$	$14 \cdot 29 \\ 14 \cdot 11 \\ 15 \cdot 25$	$\begin{array}{c} 12 \cdot 15 \\ 12 \cdot 37 \\ 12 \cdot 63 \end{array}$	3,630,165	70 81 74
1,000 ,, 2,500 .	$\begin{cases} 1913 \\ 1919 \\ 1925 \end{cases}$	6.80 6.89 6.98	23 · 80 25 · 76 25 · 79	27·27 25·47 26·47	$23.15 \\ 25.81 \\ 25.63$	20·34 22·28 21·58	6,539,378	72 80 75
2,500 " 5,000 .	$\left\{ \begin{matrix} 1913 \\ 1919 \\ 1925 \end{matrix} \right.$	1.23 1.18 1.14	10.76 9.51 10.30	6·22 5·00 4·10	$11.61 \\ 10.28 \\ 11.78$	9·22 8·84 9·35	1 2,594,808	65 79 71
5,000 ,, 10,000 .	$\cdot \left\{ \begin{smallmatrix} 1913 \\ 1919 \\ 1925 \end{smallmatrix} ight.$	•40 •40 •34	6.38	$1.98 \\ 1.53 \\ 1.30$	6·75 7·20 6·79	6.9 6.8 6.2	5 2,011,066	84 88 82
10,000 and upwards .	$\cdot \left\{ \begin{smallmatrix} 1913 \\ 1919 \\ 1925 \end{smallmatrix} \right.$	•23 •21 •13	7.42	•66		9·4 8·2 5·3	8 2,431,720	78 89 88
Total	$. \begin{bmatrix} 1913\\ 1919\\ 1925 \end{bmatrix}$	100.00	100.00	100.00	100.00	100.0	$0 \begin{cases} 24,957,112\\ 29,356,865\\ 26,013,430 \end{cases}$	82 92 89

In the above table horses and cattle have been reduced to an equivalent in sheep on the assumption that one head of the former will eat as much as ten, and one of the latter as much as six sheep. On this basis every 100 acres under pasture was carrying the equivalent of 89 sheep in 1925, as compared with 92 in 1919, 82 in 1913, and 78 in 1910. Dairying is carried on principally on the small holdings,

and pigs are most numerous where dairying prevails. In 1925, 62 per cent. of the dairy cows and 67 per cent. of the pigs were on holdings of not more than 320 acres.

Particulars of the number of holdings of different sizes and of the cultivation and live stock thereon in March, 1925, are given in greater detail than in the above tables in the Year-Book for 1924-25, pages 537 and 538.

Land occupied in different districts. The following tables show the area of, and the land in occupation, in March, 1927, in districts, and the uses to which the land was applied :---

AREA OF AND LAND IN OCCUPATION IN EACH DISTRICT OF VICTORIA, MARCH, 1927.

(Areas of 1 acre and upwards.)

					Acres Occup	ied.	
Districts.	Area	of of		For	Pasture.	Other	
	Districts.	Occupiers.	Agricul- tural Purposes.	Sown Grasses, Clover, or Lucerne.	Natural Grasses.	Purposes and Unpro- ductive.	Total.
Central North-Central Western Mimmera Mallee Northern North-Eastern Gippsland Total	acres. 4,065,280 2,929,920 8,775,040 7,394,560 10,784,000 6,337,280 7,220,480 8,739,200 56,245,760	17,495 5,672 12,437 6,378 8,470 12,311 5,334 9,083 77,180	445,812 136,883 349,316 1,839,977 2,674,979 1,538,547 148,531 170,149 7,304,194	193,810 25,669 186,763 16,653 6,061 112,293 5,700 405,290 952,239	1,986,209 1,872,410 5,730,910 3,762,309 2,257,745 3,552,008 3,416,882 2,774,035 25,352,507	162,469 102,741 408,699 382,293 724,446 43,011 331,703 888,579 3,043,941	2,788,300 2,137,703 6,675,688 6,001,231 5,663,231 5,245,859 3,902,816 4,238,053 36,652,881
		PERCENTA	E OF TOT	AL OCCUPIE	D IN EACH		[
Central North-Central Western Mallee Northern North-Eastern Gippsland Total	· · · · · · · · · · · · · · · · · · ·	··· ··· ··· ··· ···	15.99 6.40 5.23 30.66 47.23 29.33 3.80 4.01 19.93	6 · 95 1 · 20 2 · 80 0 · 28 0 · 11 2 · 14 0 · 15 9 · 56 2 · 60	71 · 23 87 · 59 85 · 85 62 · 69 39 · 87 67 · 71 87 · 55 65 · 46 69 · 17	5 * 83 4 * 81 6 * 12 6 * 37 12 * 79 0 * 82 8 * 50 20 * 97 8 * 30	100 · 00 100 · 00
	·	PERCENTAG	E IN EACH	DISTRICT	OF TOTAL I	N STATE.	
Central North-Central Western Wimmera Mallee North-Eastern Gippsland Total	··· ·· ·· ·· ··	22.67 7.35 16.12 8.26 10.97 15.95 6.91 11.77	6.11 1.87 4.78 25.20 36.62 21.06 2.03 2.33 100.00	$\begin{array}{c} 20 \cdot 35 \\ 2 \cdot 70 \\ 19 \cdot 61 \\ 1 \cdot 75 \\ 0 \cdot 64 \\ 11 \cdot 79 \\ 0 \cdot 60 \\ 42 \cdot 56 \end{array}$	7.83 7.39 22.60 14.84 8.91 14.01 13.48 10.94	$5 \cdot 34 \\ 3 \cdot 37 \\ 13 \cdot 43 \\ 12 \cdot 56 \\ 23 \cdot 80 \\ 1 \cdot 41 \\ 10 \cdot 90 \\ 29 \cdot 19 $	7.61 5.83 18.21 16.37 15.45 14.31 10.65 11.57
		100.00	100.00	100.00	100.00	100.00	100.00

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, 47 per cent. in the Mallee, 31 per cent. in the Wimmera, and 29 per cent. in the Northern districts are devoted to agriculture, and these divisions supply nearly 83 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 considerable attention is given to the cultivation of grasses, 43 per cent. of all the sown grasses in the State being found in that district.

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, 1927:--

T		Area Occupied for-		Number of—			
Districts.		Agriculture.	Pasture.	Horses.	Cattle.	Sheep.	
Central North-Central Western Wimmera Mallee Northern North-Eastern Gippsland	••• •• •• •• ••	acres. 445,812 136,883 349,316 1,839,977 2,674,979 1,538,547 148,531 170,149	acres. 2,180,019 1,898,079 5,917,673 3,778,961 2,263,806 3,664,301 3,422,582 3,179,325	85,894 21,551 58,255 62,681 64,998 84,871 30,258 39,480	$\begin{array}{c} 227,816\\ 85,419\\ 338,236\\ 41,045\\ 36,134\\ 185,864\\ 213,152\\ 308,095 \end{array}$	1,113,303 1,358,783 4,506,755 2,318,218 941,759 2,567,830 1,144,239 968,766	
Total	•••	7,304,194	26,304,746	447,988	1,435,761	14,919,653	

AREA OCCUPIED AND STOCK THEREON, 1927.

The area occupied does not include 3,043,941 acres which are mostly in an unproductive state. Compared with 1926, sheep increased by 8.6 per cent., while horses decreased by 3.3 per cent., and cattle by 5.2 per cent.

The following return shows the live stock in Victoria in in Victoria, 1923 to 1927. classified in conjunction with holdings and sheep classified in different-sized flocks in March. 1925, are given on page 538 of the Year-Book for 1924-25, and page 532 of this volume :---

Live Stock.	1923.	1924.	1925.	1926.	1927.
Horses (including foals)	494,947	486,075	473,236	463,051	447,(`88
Cattle Dairy Cows	794,898	738,149	760,207	727,940	673,089
Other (including calves)	990,762	853,218	845,347	785,847	762,672 14,919,653
Sheep Pigs	11,765,520 294,962	$\begin{array}{c} 11,059,761 \\ 259,795 \end{array}$	12,649,898 288,509	$\begin{array}{c c} 13,740,500\\ & 339,601 \end{array}$	284,271

LIVE STOCK IN VICTORIA, 1923 to 1927.

Prices of Live Stock. In the subjoined table will be found a statement of the average and the range of prices ruling in Melbourne during the years 1925-26 and 1926-27 for live stock. The information has been extracted from the Melbourne Stock and Station

PRICES IN MELBOURNE OF LI	VE STOCK, 1925–26 AND
1926-27.	

Stock,	. I	Prices in 1925-26.	Prices in 1926-27.
	Average.	Range.	Average. Range.
Horses. Extra heavy draught Medium draught Delivery cart Indian Remounts Saddle and harness Ponies Order cart	$\begin{array}{c} \pounds \ s. \ d. \\ 39 \ 2 \ 6 \\ 28 \ 2 \ 6 \\ 13 \ 15 \ 0 \\ 22 \ 8 \ 0 \\ 4 \ 0 \ 0 \\ 7 \ 0 \ 0 \\ 8 \ 0 \ 0 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Fat Cattle. Bullocks— Extra prime Good Good light and handy weights Cows— Prime	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	12 19 0 to 17 19 0	16 16 0 13 15 0 to 21 19 0 14 18 0 12 14 0 to 18 2 6 13 2 0 10 16 0 to 15 9 0 11 5 6 9 7 6 to 12 17 0
Best Others	$\begin{array}{cccc}12&2&0\\9&4&0\end{array}$	9 19 0 to 14 9 6 7 3 0 to 10 18 0	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$
Dairy Cattle. Best milkers Springers, best	15 16 0 9 14 0	12 17 0 to 18 9 0 7 4 0 to 11 15 0	* *
Fat Sheep. Wethers (cross)— Extra prime Prime Good Ewes (cross)—	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	1 9 2 1 4 8 to 1 15 9 1 6 3 1 2 0 to 1 13 0 1 2 11 0 19 2 to 1 9 8
Extra prime Prime Good Wethers (merino)—	$\begin{array}{ccccccc} 1 & 8 & 8 \\ 1 & 6 & 0 \\ 1 & 3 & 1 \end{array}$	1 0 3 to 2 1 5 0 18 0 to 1 19 0 0 15 5 to 1 16 3	1 2 3 0 17 2 to 1 9 0 0 19 1 0 14 7 to 1 6 3 0 15 3 0 13 3 to 1 3 0
Extra prime Prime Good Ewes (merino) best	$\begin{array}{cccccccc} 1 & 13 & 5 \\ 1 & 10 & 8 \\ 1 & 7 & 3 \\ 1 & 5 & 11 \end{array}$	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Fat Lambs. Extra prime Prime Good Pias.	$\begin{array}{cccccccccccccccccccccccccccccccccccc$		$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$
Back Fatters— Extra heavy prime Extra prime and	10 17 6		9 19 0 8 14 0 to 10 16 0
weighty Baconers— Extra prime Prime	7 8 0 5 11 0 4 10 0	500to6110	7 15 0 6 0 0 to 8 17 6 4 19 0 4 2 6 to 6 0 0 4 3 6 3 12 0 to 4 15 0
Porkers	2 7 0		$\begin{array}{c ccccccccccccccccccccccccccccccccccc$

* Not available.

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

×			Number Slaughtered.				
Year ei	nded Decemb)er	Sheep and Lambs.	Cattle.	Pigs.		
1922 1923 1924 1925 1926	· · · · · · · · · · · · · · · · · · ·	•••	5,863,195 4,078,273 3,591,219 4,194,572 4,528,113	424,199 461,958 499,840 523,920 499,519	308,172 373,609 368,918 391,129 410,062		

STOCK SLAUGHTERED, 1922 TO 1926.

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

PURPOSES FOR WHICH STOCK WERE SLAUGHTERED, 1922 TO 1926.

Year ended Decem-	For Butch	er and Priva	For Export.			
ber-	Sheep.	Cattle.	Pigs.	Sheep.	Cattle.	Pigs.
1922 1923 1924 1925 1926	3,184,411 3,372,722 2,548,327 2,697,822 3,160,485	413,650 449,101 484,244 486,739 483,660	107,022 139,405 139,808 158,187 167,850	2,657,515 691,630 1,035,799 1,480,824 1,346,425	4,251 4,011 7,391 25,608 10,472	2,908

Year ended Decem-	For Prese	erving and S	alting.	For Boiling Down.		
ber	Sheep.	Cattle.	Pigs.	Sheep.	Cattle.	Pigs.
1922 1923 1924 1925 1926	9,763 2,632 4,452 9,725 12,030	2,955 2,519 4,323 7,218 2,857	200,901 232,914 228,869 232,755 239,099	11,506 11,289 2,641 6,201 9,173	3,343 6,327 3,882 4,355 2,530	249 290 241 187 205

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

Of the 4,528,113 sheep and lambs slaughtered in Victoria in 1926, 1,346,425, or 30 per cent., were frozen, as compared with 1,480,824, or 35 per cent., in 1925, 1,035,799, or 29 per cent., in 1924, 691,630, or 17 per cent., in 1923, and 2,657,515, or 45 per cent., in 1922. In 1926-27 the oversea exports included 47,281,544 lbs. of mutton and lamb, valued at $\pm 1,195,500$. Mutton and The soil and climate of Victoria are well suited to the economical production of both mutton and lamb, and, as there is practically no limit to the demand for these products in Europe, the possibilities for those engaged in raising sheep for export are very great, especially as the number of sheep in the world is not keeping pace with the increase in population. The importance of this export trade to Victorian sheep owners is evidenced by the figures in the appended statement showing the numbers of carcasses exported in each of the last thirteen years. In the four years 1915-16 to 1918-19 the quantity exported was small in comparison with earlier years. The

each of the last thirteen years. In the four years 1915-16 to 1918-19 the quantity exported was small in comparison with earlier years. The chief reasons for this were, in 1915-16, a drought in the preceding year, and, in the three following years, the lack of shipping space. In the year 1919-20 the exports were much greater than in any previous year, due mainly to the accumulations of the previous three years. The quantities exported in 1920-21 were below the average, owing to the dry condition which had prevailed in the previous year. After a world-wide fall in values, the season 1922-23 was marked by exceptionally heavy exports of both mutton and lamb at improved prices. In the 1923-24 season the export of mutton practically ceased, while the number of lambs exported was only about 40 per cent. of that for the previous year. The abnormal activity in 1922-23 was, to some extent, responsible for the great reduction in exports in 1923-24. Other reasons were a tendency among owners to retain their flocks in expectation of high prices for wool, and the demand for breeding ewes from New South Wales, where a drought had depleted the flocks. The improvement manifested in 1924-25 and 1925-26 was not maintained in 1926-27.

Year (ended June).			Number of Carcasses Exported.					
			Mutton.	Lamb.	Total.			
1914-15 1915-16 1916-17 1917-18 1918-19 1919-20 1920-21 1921-22 1922-23 1922-23 1923-24 1924-25	· · · · · · · · · · · · · · ·	··· ··· ··· ··· ··· ···	$\begin{array}{c} 653,329\\\\ 52,724\\ 48,743\\ 649,082\\ 2,468,091\\ 372,916\\ 314,564\\ 989,456\\ 12,945\\ 87,767\end{array}$	$\begin{array}{c} 1,056,823\\ 47,546\\ 365,694\\ 147,524\\ 19,889\\ 1,533,411\\ 413,170\\ 872,140\\ 1,668,059\\ 678,685\\ 948,032\\ \end{array}$	1,710,152 $47,546$ $418,418$ $196,267$ $668,971$ $4,001,502$ $786,086$ $1,186,704$ $2,657,515$ $691,630$			
1925-26 1926-27	••		171,803 149,358	1,309,021 1,197,067	$1,035,799\\1,480,824\\1,346,425$			

FROZEN MUTTON AND LAMB EXPORTED.

The average weights of carcasses of mutton and lamb exported from Victoria during the last decade were 48 lbs. and 32 lbs. respectively.

Dairying. The dairying industry is one of the principal sources of the wealth of the community. The value of dairy produce in 1927 was £10,483,760, as compared with £10,364,790 in 1926,

 $\pounds 10,381,175$ in 1925, $\pounds 10,561,940$ in 1924, and $\pounds 10,381,310$ in 1923. 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 :—

Year ended March—		Year ended March—		Year ended March				Cheese made.*	
<u>.</u>					lbs.	lbs.			
1923			62,424	794,898	84,355,939	3,754,958			
1924		· · · · ·	61,685	738,149	86,888,723	7,216,938			
1925			61,549	760,207	100,849,382	6,193,135			
1926			58,933	727,940	81,747,291	5,279,009			
1927			56,935	673,089	81,995,815	5,997,648			

* Year ended 30th June.

Of the 56,935 cowkeepers in 1926-27, 27,284 had less than 5 cows; 10,796 had from 5 to 9; 5,407 had from 10 to 14; 5,925 had from 15 to 24; and 7,523 had 25 and upwards.

Butter and cheese made on farms in the last five years :---

BUTTER AND CHEESE MADE ON FARMS, 1922-23 TO 1926-27.

Year ended June-					Butter.	Cheese.	
					lbs.	lbs.	
1923					5,582,469	418,873	
1924	• •				5,597,128	420,552	
1925					5,395,087	228,779	
1926		••	••		4,734,669	389,893	
1927					3,887,324	516,063	

Butter and cheese made in factories. The quantities of butter, cheese, and concentrated, condensed, and powdered milk, casein, and milk sugar made, and of cream sold, in factories during the last five years were as follows :---

BUTTER, CHEESE, ETC., MADE IN FACTORIES, 1922–23 TO 1926–27.

Year ended June	Butter made.	Cream sold.	Cheese made.	Concentrated, Condensed, and Powdered Milk made	Casein made.	Milk Sugar made.
١	lbs.	gallons.	l lbs.	lbs.	lbs.	ibs.
1923	78,773,470	213,170	3,336,085	38,314,261	2.639.240	410.155
1924	81,291,595	373.236	6,796,386	49,099,632	2,946,346	445,430
1925	95,454,295	495,458	5,964,356	45,693,120	2,716,042	415,753
1926	77.012,622	388,235	4,889,116	43,646,852	1,503,369	152,783
1927	78.108.491	344,605	5,481,585	48,186,040	1,803,049	350,570

The quantities of milk, in gallons, received at factories and creameries were 193,507,110 in 1921–22, 196,171,380 in 1922-23, 206,915,177 in 1923–24, 197,804,300 in 1924–25, 240,114,430 in 1925–26, and 205,441,560 in 1926-27.

Exports of butter and cheese. In 1926-27 there were exported from Victoria to countries outside Australia 34,403,562 lbs. of butter, valued at £2,611,855, all of which was Australian produce, except 56,000 lbs., valued at £3,310, which came from New Zealand. The quantity sent to the United Kingdom was 26,863,815 lbs., valued at £2,012,500. The quantity of cheese exported to oversea countries was 112,854 lbs., and the value thereof, £6,358.

Wooi 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 1926-27 and earlier seasons was as follows :---

Districts.		Wool	Clip, 1926-27.		
	Sheep.		Lambs.	т	otal.
Central North-Central Western Wimmera Mallee Northern Gippsland	lbs. 6,358,31 8,194,74 27,679,22 16,147,33 6,349,43 15,943,82 6,252,02 5,118,72	$\begin{array}{c ccccc} 12 & 555,716 \\ 51 & 1,803,165 \\ 50 & 966,872 \\ 33 & 282,337 \\ 56 & 1,203,122 \\ 12 & 464,258 \end{array}$		lbs. 6,766,899 8,750,458 29,482,410 17,114,202 6,631,770 17,236,944 6,716,280 5,478,193	
$ \begin{array}{c} \begin{array}{c} 1926-27\\ 1925-26\\ 1924-25\\ 1923-24\\ 1922-23 \end{array} \end{array} $	92,043,64 84,101,37 83,932,69 63,806,82 71,088,91	0 6, 9 6, 0 3,	133,520 512,929 819,164 519,735 105,031	90,61 90,75 67,32	77,162 14,299 51,863 26,555 13,950
· · · · · · · · · · · · · · · · · · ·	1923-24.	1924-25.	1925-2	6. 1	926-27.
Wool clip Wool stripped from Vic- torian skins and on Victorian skins ex-	lbs. 67,326,555	lbs. 90,751,863	lbs. 3 90,614,	299 98	lbs. 3,177,162
ported (estimated)	15,186,806	16,036,034	20,646,	515 23	,122,459
Total production	82,513,361	106,787,897	111,260,8	814 121	,299,621
Total value	£7,695,000	£11,444,240	,444,240 £7,082,820		,876,683

VICTORIAN WOOL CLIP AND ESTIMATED TOTAL PRODUCTION.

In 1926-27 there were 11,863,262 sheep and 2,671,435 lambs shorn, as compared with 10,990,842 sheep and 2,899,787 lambs in 1925-26, 9,803,371 sheep and 2,790,054 lambs in 1924-25, 9,463,675 sheep and 1,614,147 lambs in 1923-24, and 9,920,239 sheep and 2,278,303 lambs in 1922-23.

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 :---

			, T	Veight of a Fleed	
	Year.	-	Sheep.	Lambs.	Sheep and Lambs combined.
1922– 2 3 1923–24 1924–25 1925–26 1926–27	· · · · · · · · · · · · · · · · · · ·	 	lbs. 7 · 17 6 · 74 8 · 56 7 · 65 7 · 76	$ lbs. 2 \cdot 25 2 \cdot 18 2 \cdot 44 2 \cdot 25 2 \cdot 30 $	1b ^{\$} . 6 · 25 6 · 08 7 · 21 6 · 52 6 · 75

WEIGHT OF A FLEECE, 1922-23 TO 1926-27.

The production of wool in Victoria, the quantity and value of that used locally for manufacturing purposes, and the balance available for export, in each of the last five years, were as follows :---

WOOL PRODUCTION : HOME CONSUMPTION AND EXPORTABLE BALANCE, 1922-23 to 1926-27.

	Production.		Production. Used in Manufactures.		Available for Export.	
Year.	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
1923-24 1924-25 1925-26	lbs. 102,467,950 82,513,361 106,787,897 111,260,814 121,299,621	£ 6,380,600 7,695,000 11,444,240 7,082,820 7,876,683	lbs. 20,732,809 17,067,647 18,886,458 22,967,529 31,205,206	£ 1,382,187 1,617,871 2,124,727 1,579,018 2,080,347	lbs. \$1,735,141 65,445,714 87,901,439 88,293,285 90,094,415	£ 4,998,413 6,077,129 9,319,513 5,503,802 5,796,336

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, 1924-25 to 1926-27.

Class of Wool,		verage Price per lb.	in—
	1924-25.	1925-26.	1926-27.
	-		
			1
GREASY MERINO.			
P-t Summer (Western D. () ()			
Extra Super (Western District) Super	38d. to 41d.	35d. to 38d.	32d. to 35d.
Cond	31d. to 34d. 25d. to 27d.	28d. to 30d.	27d. to 30d.
A	22d. to 24d.	23d. to 25d.	23d. to 25d.
Waster and Tatestan	16d. to 18d.	19d. to 21d.	19d. to 21d.
Pretos Suman Laurha	28d. to 30d.	15d. to 17d.	15d. to 17d.
Super Lambs	23d. to 30d.	32d. to 34d. 24d. to 27d.	32d. to 34d.
		18d. to 27d.	24d. to 27d.
Average Lambs	13d. to 15d.	18a. to 20a.	18d. to 20d.
Inferior Lambs	7d. to 10d.	8d. to 11d.	15d. to 18d.
	70. 10 100.	8u. to 11u.	8d. to 10d.
GREASY CROSSBRED.			
Extra Super Comebacks	32d. to 34d.	30d. to 32d.	20.4 4. 21.1
Suman Comehaales	27d. to 30d.		29d. to 31d.
Fine Grocehand	21d. to 30d.	26d. to 29d. 20d. to 22d.	25d. to 28d.
Medium Crossbred	17d. to 18d.	16d. to 18d.	20d. to 22d.
Coarse Crossbred and Lincoln	12d. to 14d.	11d. to 12d.	16d. to 18d.
Super Fine Crossbred Lambs	20d. to 22d.	22d. to $24d.$	11d. to 12d.
Good Crossbred Lambs	15d. to 17d.	18d. to 19d.	22d. to 24d.
Coarse and Lincoln Lambs	11d. to 13d.	13d. to 19d.	18d. to 20d. 12d. to 14d.
course and Encour Lamps	110. 00 130.	13a. to 19a.	12 d. to 14 d .
SCOURED.	and the second se	and the second sec	
Extra Super Fleece	50d. to 54d.	45d. to 48d.	45d. to 48d.
Super Fleece	45d. to 47d.	38d, to 42d.	38d. to 42d.
Good Fleece	38d. to 40d.	34d. to 36d.	34d. to 36d.
Average Fleece	29d. to 34d.	25d. to 27d.	25d. to 27d.
	Loui to tru	200. 10 2.0.	200. 00 270.
RECORD PRICES FOR THE SEASON	•		
Greasy Merino Fleece	531d.	42 4 d.	413d.
" Comeback Fleece	50 id.	$34\frac{1}{3}d$.	321d.
" Merino Lambs	1 1051	$33\frac{1}{2}$ d.	46 ³ 4.
" Comeback Lambs	411d.	261d.	4040. 30d.
Sooured Fleece	61d	48 ¹ / ₄ d.	50a. 47d.
			1704

Flocks of sheep in districts. Returns which were collected in March, 1925, give full information in regard to the flocks of sheep in Victoria. The numbers of flocks and of sheep at that time in the different districts were as follows :--

NUMBERS OF FLOCKS AND OF SHEEP IN DISTRICTS, 1925.

District.		Numb	Number of—		Percentage of \rightarrow	
		Flocks.	Sheep.	to a Flock.	Flocks.	Sheep.
Central		2,291	990,194	432	9.66	7.84
North-Central		2.098	1,190,606	567	8.84	9.43
Western		5,003	4,122,779	824	21.08	32.66
Wimmera		4.220	2,125,327	504	17.78	16.84
Mallee		1.849	665,674	360	7.79	5.27
Northern		4.647	1,971,660	424	19.58	15.62
North-Eastern		2,073	865,435	417	8.74	6.86
Gippsland		1,550	691,340	446	6.53	5.48
Total	••	23,731	12,623,015	532	100.00	100.00

The figures do not include 26,883 sheep which were travelling on roads or were located in cities and towns. A comparison with figures based on collections made in 1919 and earlier years appears on page 551 of the Year-Book for 1924-25.

Sizes of

Excluding sheep travelling and those in cities and towns, the following table contains a classification for the whole State of sheep according to sizes of flocks :--

Percentage of-Number of-Size of Flocks. Flocks. Sheep. Flocks. Sheep. 72.42 23.29 2,939,575 Under 500 17,187 • • 15.56 19.96 1,000 3,692 2,519,857 500 and under . . 1,725 2,317,968 7.2718.36 1.000 2,000 . . ,, 2,428,522 851 3.59 19.24 5,000 2,000 • • 207 1,399,428 ·87 11.09 ə,000 10,000 . . ,, 824,643 ·26 6.53 62 10,000 20,000 • • .03 1.537 193,022 20.000 and upwards . . 100.00 100.00 23,731 12,623,015 Total

SHEEP ACCORDING TO SIZES OF FLOCKS, 1925.

The above figures are compared with the corresponding ones for 1919 on page 552 of the *Year-Book* for 1924-25. Six of the 7 largest, 42 of the 62 second largest flocks, and 130 of the 207 flocks of between 5,000 to 10,000 sheep in 1925 were in the Western District.

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 :---

	Cattle.			1		
State, &c.	Horses.		Other.	Sheep.	Pigs.	
And the second second						
Victoria	447.988	673,089	762.672	14,919,653	284,271	
New South Wales	622,009	906,229	1,906,915	55,731,857	332,827	
Federal Capital Terri-						
tory	1,383	516	4,993	198,143	94	
Queensland	571,622	611,227	4,853,518	16,860,772	183,622	
South Australia	234,352	127,292	212,715	7,283,945	79,108	
Northern Territory	27,791	788,	396	6,000	329	
Western Australia	166,463	69,627	757,676	7,458,766	69,798	
Tasmania	36,830	67,457	145,655	1,807,558	38,906	
New Zealand	303,713	1.303.225	1.954.504	25,649,016	520,143	

LIVE STOCK IN AUSTRALASIA.

The returns for 1926-27 show that there were in that Bee-keeping. year 2,968 bee-keepers, who owned 49,483 frame and 4,640 box hives, producing 2,342,746 lbs. and 27,564 lbs. of honey respectively, and 33,238 lbs. of beeswax. The number of bee-keepers owning 20 hives and upwards was 584, as compared with 690 in the previous season. In 1926-27, the quantity of honey produced in the Wimmera district was 872,079 lbs., in the Western district, 678,380 lbs., and in the Gippsland district, 437,894 lbs. The more important particulars of the industry for the last five years are given below :---

Season ended May—		eason ended May— Number of Bee-keepers.		Number of Hives.	Honey produced.	Beeswax produced.	
		:			Ibs.	lbs.	
1923	•••	• •	3,756	52,060	2,285,000	27,182	
924	• • •	• •	3,535	60,760	2,110,713	25,371	
1925		•• .	3,483	71,918	4,054,975	47,117	
926		••	3,799	66,192	2,114,807	28,812	
1927			2,968	54.123	2,370,310	33,238	

BEE-KEEPING, 1922-23 то 1926-27.

State expenditure on rabbit destruction.

Active operations for the destruction of rabbits, &c., on Crown lands were first undertaken by the Government in 1880, and from that date to 30th June, 1927, sums amounting to £1,317,010 had been expended in connexion therewith, including subsidies to Shire Councils for the destruction

of wild animals. The following are the amounts spent since 1879:---

EXPENDITURE ON DESTRUCTION OF RABBITS, ETC.

	£				£
1879-80 to 1888-89	142,963	1921-22	••		40.766
1889–90 to 1898–99	208,638	1922-23	••		47,410
1899–1900 to 1908–09	170,050	1923-24			85,489
1909–10 to 1918–194	283,693	1924-25	••	••	8 4,368
1919-201	36,672	$1925 - 26 \ldots$	••		88,874
1920–21	36,158	1926-27	••	••	9 1,929

In addition to the expenditure of £1,317,010 referred to above, sums have frequently been advanced from Loan Funds for the purchase of wire netting for supply to municipalities and land owners. The amounts of these advances in the last five years were as follows:---£23,731 in 1922-23, £26,275 in 1923-24, £32,399 in 1924-25, £42,628 in 1925-26, and £32,338 in 1926-27. A complete system, administered by an officer called the Chief Inspector under the Vermin Destruction Act, exists for effectually keeping the rabbits under control.

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

RABBITS, HARES, AND WILD-FOWL SOLD AT THE MELBOURNE FISH MARKET, 1922-23 to 1926-27.

Y	Year ended June.		Year ended June. Rabbits.				Hares.	Wild-fowl.	
1000 00				pairs.	brace.	brace.			
1922-23	••	••	••	431,196	21	16,428			
1923–24	••	••		448,656	42	8,148			
1924-25	••	••	· · ·	937,704	74	11.640			
1925-26	••	••		1,916,460	783	14.784			
1926-27	••	•••		1,640,028	78	20,406			

Frozen rabbits, &c., rabbit and hare skins have been exported to oversea 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, 1922-23 to 1926-27.

Year ended June.	Frozen Rabbit	s and Hares.	Rabbit and Hare Skins.		
	Quantity.	Value.	Quantity.	Value.	
1922-23	pairs. 141,312	£ 10,176	lbs. 2,140,915	£ 237.853	
1923-24	80,499	8,477	2,073,613	282,266	
1924-25	. 54,174	5,196	2,020,070	349,956	
1925-26	456,849	53,423	3,513,046	579,000	
1926-27	403,147	44,999	2,211,153	381,334	

FISHERIES.

The 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 1926-27:--

VICTORIAN FISHERIES -- MEN AND BOATS EMPLOYED, 1926-27.

Fishing Stations.	Number of Men.	Bos	its.	Value of Nets and other Plant.	
Č.	or men.	Number.	Value.		
			£	£	
Anderson's Inlet	14	9	666	250	
Barwon Heads and Ocean Grove	9	5	1,150	215	
	5	4	71	46	
Brighton Corner Inlet, Welshpool, Toora, and				10	
Port Franklin	80	60	7,542	3,546	
	27	20	2,425	288	
	17	1 11	472	261	
Frankston	85	42	3,794	1.269	
	117	42 97	8,139	4,109	
Gippsland Lakes	3	97	11	4,109	
Kerang		1			
Lake Boga	1 5		150	20 85	
Lorne			130	36	
Lindsay River	2		230		
Mallacoota	10	6	230	290	
Mentone	12	9		142	
Mordialloc, Chelsea, and Carrum	65	39	3,459	1,068	
Mornington	53	34	2,682	902	
Portarlington and St. Leonards	96	56	4,731	1,284	
Portland	43	31	4,964	652	
Port Albert	76	45	4,110	1,307	
Port Campbell	2	2	120	52	
Port Fairy	40	34	6,400	592	
Port Melbourne	46	29	2,282	1,046	
Queenscliff	123	68	15,687	1,938	
Rainbow	5	4	₩ 80	15	
Sandringham and Black Rock	51	29	4,369	804	
Sorrento, Portsea, and Rye	61	36	4,129	853	
St. Kilda	16	10	564	192	
Torquay	3	3	50	41	
Warrnambool	9	8	482	39	
Werribee	9	5	649	215	
TT De 's	8	ő	61	74	
Western Port (Cowes, Hastings, Grant-		Ŭ			
ville, Flinders, San Remo, and Tooradin)	124	99	12.271	2,673	
	42	31	2,704	567	
Williamstown	42	4	216	19	
Wonthaggi	4	Ť	210	10	
Total	1,263	845	94,928	24,915	

Methourne The quantities and values of fish sold in the Melbourne Fish Market. Fish Market during each of the years 1925-26 and 1926-27 were as shown in the next table :---

FISH SOLD IN THE MELBOURNE FISH MARKET, 1925-26 AND 1926-27.

		1925-26.		1926-27.	
	·	Quantity.	Value.	Quantity.	Value.
Fresh Fish (Victorian) Crayfish Imported Fish (fresh	lbs. doz.	8,720,225 41,745	£ 148,970 45,920	8,417,904 33,507	£ 140,298 32,670
or frozen) Oysters	lbs. bags	3,662,898 13,084	$91,572 \\ 50,745$	$3,987,782 \\ 10,804$	99,695 8,643
Total		• •	337,207		281,306

In addition to the above, 1,347 cwt. of smoked fish, and 2,639 baskets of prawns were sold in this market in 1926-27.

Victorian The quantity and value of fish caught in Victorian fish sold. waters and sold in the Melbourne and Ballarat markets and elsewhere in 1926-27 were as follows :---

Quantity. Value. Markets. Fish. Crayfish. Fish. Crayfish. lbs. doz. £ £ Melbourne 8,417,904 10,140 140,298 . . 9,887 Ballarat 511,838 606 . . 8,530 511 Other 392,193 1,821 6,536 1,593 . . Total 9,321,935 12,567 155,364 11,991 • •

VICTORIAN FISH SOLD IN 1926-27.

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:—

FISH IMPORTED, 1925-26 AND 1926-27.

			1925	5-26.	1926	1926-27.	
			Quantity.	Value.	Quantity.	Value.	
Fish— Fresh or Frozen Smoked Fresh Oysters Potted or Concentrated, &c. Preserved in tins, &c. N.E.I	· · · · · · · · · · · · · · · · · · ·	lbs. cwt. lbs. cwt.	2,867,725 18,783 2,823 7,648,551 2,815	£ 71,243 2,360 2,165 21,869 335,419 8,695	2,810,565 31,019 2,115 8,797,022 2,633	£ 70,421 2,478 1,699 23,306 414,628 8,018	
Total	••			441,751	·	520,550	

The most important item in this table is fish preserved in tins and other air-tight vessels, of which 4,050,918 lbs. came from Canada, 820,546 lbs. from Norway, 1,442,384 lbs. from the United Kingdom, and 1,998,836 lbs. from the United States of America, in 1926-27.

Agriculture in The figures relating to agriculture and live stock in Victoria and Victoria and Great Britain (England, Wales, and Scotland) Great Britain. in 1926 are, for comparative purposes, placed side by side in the table which follows :---

AGRICULTURE AND LIVE STOCK IN VICTORIA AND GREAT BRITAIN, 1926.

					Victoria.	Great Britain.
Area	••	••		acres	56,245,760	56,208,959
Wheat		••	••	bushels	46,886,020	50,773,000
Oats 、	••	••	••	,,	4,884,006	125,440,000
Barley	••	••	••	"	1,920,722	45,920,000
Peas	••	••			198,947	1,986,800
Potatoes			•••	tons	162,909	3,662,000
Turnips and	l swedes	• •	••	,,	1,994*	17,876,000
Mangolds	••	••	••	,,	6,715	7,142,900
Hay	••	• • •		,,	1,387,971	8,121,000
Horses	••	••		No.	447,988	1,307,491
Cattle				,,	1,435,761	7,450,913
Sheep	••			,,	14,919,653	24,061,819
Pigs		••		,,	284,271	2,345,431

* 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 Rights. 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 1926-27 from miners' rights was £2,015.

Leases for the purpose of mining for gold are granted for 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 hydraulic 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 1926-27 was £3,852.

Area The area of Crown and private lands under occupation occupied tor for mining purposes on 31st December, 1926, was 30,334 acres. The subjoined table shows the area being worked for different minerals :---

AREA UNDER OCCUPATION FOR MINING PURPOSES, 31st DECEMBER, 1926 (CROWN LAND AND PRIVATE LAND).

	Nature	of Minera	l, &c.			Area.
N-13						acres.
fold	••	• •	••	••	••	18,559
Coal (ordinary)	••	••	••	••]	3,883
Coal (brown)	••	••	••	••		1,024
Coal (Black and Bro	own)	••	••	••		100
Aluminium	••	••	••			6
Bauxite	••	••	••	••		120
Bluestone	••					46
lay	••					29
Jay and Chalk		••		••		6
lay and Schist			••	••		4
lay and Slate		••	••	••		3
lay and Slum		••	••	••		20
Copper and Silver		••	••	••		20 72
Dolomite and Clay	••	••	••	••	••	
Decomposed Slates	and San	dat on a	••	•• ′	••	1
	anu ban	ustone	••	••		2
Fire Clay	••	••	••	••	••	18
franite	••	••	••	••	•••	25
ypsum	••	••	••	••	•••	716
Iematite and Iron (••	••	••		8
nfusorial Earth, Cla	iy and H	igments	••	••	••	9
aolin	••	••	••	••		35
aolin and Gold	••	••	••	••		20
imestone	••		••		1	91
imestone and Clay		••				27
lagnesite						126
Ianganese						166
fanganese and Cobs	alt			••		19
farble		••	••	••		6
Iolybdenite	••	••	••	•••	••	466
Ochre	••	••	••	••	•• [
Chres, Chalks, and	6.14	••	••	••	••	5
	Gold	••	••	••		5
jil	••	••	••	••	••	1,915
igments	••	••	••	••	••	43
uicksilver	••	••	••	••	••	55
and	••	••	••	••		49
and and Gravel	••	••	••	••		5
ilicate of Alumina	••	••	••	••		51
ilver and Gold	••		••	••		129
ilver and Lead	••		••			196
late .						117
tone						26
ulphates and Oil			••			224
in	••	••	••	••		1,035
in and Gold	••	••	••		•••	
	••	••	••	••		176
Volfram and Tin	••	••	••	••	••	52
ailings Licences	••	· • •	••	••	••	120
ater-right Licences	3	••	••	••	••	524
Tota	,				-	30,334

Mining development. The mining industry has been well fostered by the 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, loan moneys amounting to £520,421 (including £249,399 expended on the State Coal Mine), and 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, 1927.

STATE EXPENDITURE ON MINING, 1922-23 to 1926-27.

Item.	Ex	penditure fi	om Consoli	dated Revei	nue.
	1922-23.	1923-24.	1924-25.	1925-26.	1926-27.
	£	£	£	£	£
Mines Department	27,085	26,176	24,567	23,569	25,687
State Coal Mine	436,753	519,536	458,380	471,530	605,218
Brown Coal Mine	48,886	45,830	*	*	*
Coal Mines Regulation-Sinking					
Fund and Depreciation Fund	22,342	39,628	37,002	41,807	54,555
Diamond drills for prospecting	9,411	10,597	12,476	12,242	12,864
Testing plants	3,148	3,499	3,571	3,120	2,378
Geological and underground	1				
surveys of mines	3,071	3,436	3,591	3,595	3,791
Mining Development—			1		
Advances to companies, &c.,	1				
boring for gold, coal, &c	6,963	6,711	8,739	12,368	10,678
Miscellaneous	1,806	2,107	2,431	2,143	2,065
Total	559,465	657,520	550,757	570,374	717,236

• The control of the Brown Coal Mine was transferred to the Electricity Commissioners on 1st April, 1924.

Yearly grants are also made to Schools of Mines, particulars of which will be found on page 353 of this work. Since 1st July, 1899, £520,421 has been apportioned from loan receipts and expended on mining development; details of this expenditure appear in the next statement :---

LOAN MONEY EXPENDED ON MINING DEVELOPMENT.

Advances to companies-Development of mining	••	62,740
,, ,, Boring for gold and coal, &c.	••	62,532
Construction of roads and tracks for mining purposes	••	57,579
Plant for testing metalliferous material	••	12,357
Construction of races and dams	• •	8,260
Advances to miners for prospecting	••	27,839
Purchase of cyanide process patent rights	••	20,000
Equipping Schools of Mines with mining appliances		9,975
State Coal Mine	••	249, 399
Miscellaneous	• •	9,740
Total	•• .	520,421

£

The advances from loan moneys and revenue to mining companies to 30th June, 1927, for the development of mining, totalled £279,532, of which sum £40,941 had up to that date been repaid, £52,246 realized, and £160,821 written off, leaving £25,524 outstanding. Interest received during 1926-27 amounted to £584, and interest outstanding on 30th June, 1927, to £2.386.

The mineral production of the State (excluding salt) Total is summarized in the subjoined statement, which contains mineral production. particulars of the recorded production of all metals and minerals up to the end of the year 1926 :---

TOTAL MINERAL PRODUCTION TO 31st DECEMBER, 1926.

Metals and Minerals.		Recorded d	luring 1926.	Total Recorded	to end of 1926.
τ		Quantity.	Value.	Quantity.	Value.
Gold	••	Fine ozs. 49,078	208,471	Fine ozs. 71,226,075	302,548,425
Silver		∫ 2,373	307	1,463,808*	222,592
		ι	÷ + .	30,577	7,880
Platinum	••	••	••	311	1,671
,, brown	••	tons 591,001 957,935	657,798 188,899	tons 11,850,304 2,712,724 18,730	8,628,068 652,591 218,590
,, tin		29	5,075	16,924	949,688
	••			104,272++	612,035
	••	••	••	793	5,760
" iron	••	••		5,434	12,540
	•••	••	•••	407	1,949
Wolfram	••	• •	•••	118	11,785
Diamonds	••	• •	••	••	128
	•••	•••	••	••	630
Gypsum	••	10,217	7,613	101,473	76,655
	••	94	281	1,817	5,498
	.	3,153	4,157	31,353	40,719
	••	••	••	8,657	33,137
Pigment clays	••	2,278	1,275	4,431	5,133
Phosphate rock .	•••	12 0	120	15,781	16,764
Molydenite	••	42	7,350	868½†	30,911
	•	••	••	623	1,888
Jarosite (Red Oxide) .	•	60	660	60	660
Bluestone, freestone, granite, &c.‡ Limestone, &c.§	}	÷-	700,200	••	9,254,591
Total	.	•••	1,782,206		323,340,288

* Extracted from gold at the Melbourne Mint. bourne Mint. † Concentrates. § Record from 1900. ‡ From 1866 only.

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

Gold was first found in Victoria in 1849 in the Pyrenees Ranges, but it was not until 1851 that the first discovery of any importance took place. In the latter part of that year the Clunes. Anderson's Creek, Ballarat, and Bendigo fields were succes-

Gold mining.

sively discovered, and over 200,000 ounces of gold were produced. Next year the gold rush took place, and it is estimated that, in 1852, 40,000 men were camped at Ballarat, 25,000 at Castlemaine, and 40,000 at Bendigo. The production of gold in 1852 amounted to 2,286,535 ounces, and in the ten years 1852-1861 it totalled over 25,000,000 ounces. The largest quantity produced in any one year was 3,053,744 ounces in 1856. The annual value of the output for the ten years 1852-1861 averaged over £10,000,000 sterling. The estimated value of the gold produced from 1851 to 1926 was £302,548,425, as shown in the preceding statement.

Gold raised in Victoria.

Period.		Quantity (Gross ozs.).	Period.		Quantity (Fine ozs.).
1851-60		23,334,263	1901-10		7,095,061 2,161,349
1861–70 1871–80		16,276,566 10,156,297	1911–15 1916–20	••	905,561
1881–90 1891–1900	••	7,103,448 7,476,038	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	•••	$421,250 \\ 49,078$

GOLD RAISED IN VICTORIA, 1851 TO 1926.

periods are shown in the next table :---

The quantities of gold raised in Victoria in different

The yield has been on the down grade since 1906, the return for the State for 1926 having been the second lowest since 1851. The quantities raised in the other principal gold-producing States in 1926 were 437,343 ounces in Western Australia, 9,086 ounces in Queensland, and 19,435 ounces in New South Wales. The total production of gold in the world in 1925, as shown in the United States Mint Report, was 19,059,915 ounces.

Mining district gold yields. The yield of gold for the last two years in each mining district of the State, as estimated by the mining registrars, is shown in the following table. The quantities represented by the aggregate figures, which are given in gross ounces, were 141 ounces less than the total output in 1925, and exceeded that for 1926 by 5 ounces:—

DISTRICT YIELDS OF GOLD, ALLUVIAL AND QUARTZ, 1925 and 1926.

Mining District.			1925.			1926.		
		Alluvial.	Quartz.	Total.	Alluvial.	Quartz.	Total.	
Ararat and Stawell Ballarat Beechworth Bendigo Castlemaine Gippsland	· · · · · · · · ·	$\begin{matrix} \text{ozs.} \\ 3,703 \\ 910 \\ 6,631 \\ 337 \\ 1,529 \\ 145 \end{matrix}$	ozs. 60 1,068 10,844 17,347 7,194 121	ozs. 3,763 1,978 17,475 17,684 8,723 266	ozs. 1,492 712 3,384 367 1,110 212	ozs. 35 1,474 15,905 16,415 10,887 1,103	ozs. 1,527 2,186 19,289 16,782 11,997 1,315	
Maryborough	••	193	1,634	1,827	185	738	923	
Total		13,448	38,268	51,716	7,462	46,557	54,019	

Gold-mining dividends. The amount of the dividends declared in each of the last five years by gold-mining companies operating in each mining district of the State was as follows :---

DIVIDENDS PAID BY GOLD MINING COMPANIES IN EACH MINING DISTRICT, 1922 to 1926.

Mining Dis	Mining District.				Amount Distributed.					
			1922.	1923.	1924.	1925.	1926.			
· · · · ·			£	£	£	£	£			
Ararat and Stawell		••				[
Ballarat	••	••		1,635	475		••			
Beechworth	••	••	18,450	9,000			1,000			
Bendigo	••	••	20,250	37,872	13,500	6,000	1,500			
Castlemaine	••	••	17,883	12,459			•••			
Gippsland	••	· • •		••			••			
Maryborough	••	••		••	••		••			
Total	••	•••	56,583	60,966	13,975	6,000	2,500			

Gold miners. The average number of men employed in gold mining is estimated annually by the Mines Department. The figures for the last five years are given below :—

NUMBER OF MEN EMPLOYED IN GOLD MINING, 1922 TO 1926.

Year.		Year. Alluvial Miners. Quartz Mi				
1922	••	••		1,048	2,262	3,310
1923	••		••	770	2,212	2,982
1924	• • •	••	••	816	1,835	2,651
1925		••	••	725	1,628	2,353
1926	••	••	••	550	1,417	1,967

The number of men employed in each mining district in 1926 was as follows:—Ararat and Stawell, 155; Ballarat, 57; Bendigo, 680; Beechworth, 470; Castlemaine, 360; Gippsland, 180; and Maryborough, 65.

Value of machinery on gold-fields. The value of the mining plants employed in alluvial and quartz mining during each of the last five years was as shown hereunder :---

VALUE OF MACHINERY ON GOLD-FIELDS, 1922 TO 1926.

	Yea	ar.		Approximate Value of Machinery Employed in-				
		1 - A		Alluvial Mining.	Quartz Mining.	Total.		
				£	£	£		
1922	••	••		135,295	508,630	643.925		
1923	••	••	••	133,200	486,300	619,500		
924		••	•••	95,777	381.050	476,827		
1925	• • •	••		99,179	331,550	430.729		
1926	• •	•••	••	81,849	301,550	383,399		

A feature of alluvial mining in Victoria for the last breaging and sinicing. Twenty-five years has been the treatment in bulk of lowgrade auriferous alluvial deposits and their overburden by bucket dredges and pump hydraulic sluicing plants on barges. In 1926, the number of pump hydraulic sluices at work was 4, in addition to which 11 jet elevators, 3 gravitation plants, and 1 bucket dredge were operating. Particulars relating to these dredging and sluicing plants for the last five years are as follows:—

	Year.		Number of Plants.	Area Worked.	Quantity of Material Treated.	Gold Obtained.	Tin Obtained.
				acres.	cub. yds.	0Z8.	tons.
1922			32	41	1,736,735	11,939	115
1923		•	24	27	1,294,300	9,017	77
924		••	17	13	1,198,900	5,260	38
925			19	22	1,332,600	7,184	69
926			19	11	539,260	3,554	29

DREDGING AND SLUICING, 1922 TO 1926.

These plants employed 109 men in 1926. The yield of gold in that year per cubic yard of material was 3 2 grains. Since the inception of dredge mining 1,891,095 ounces of gold and 1,677 tons of tin have been won by this system.

cyanidation. The quantity of tailings treated at old lode and alluvial mines by the cyanide process and the yield of gold therefrom are shown in the subjoined table for the last five years :---

	Year.			Number of Plants.	Quantity of Tailings Treated.	Yield of Gold.	Value of Yield.
<u></u>					tons.	ozs.	£
922	••	••	••	12	41,163	5,847	22,654
923	•••	••		14	18,644	3,415	13,445
924		••	· • •	14	12,108	2,052	7,637
925			••	· 14	8,344	971	3,281
1926				7	7,748	1,323	5,028

СУАНДАТІОЛ, 1922 то 1926.

Records show that the total amount of tailings which have been treated by the cyanide and other processes is 16,010,631 tons, and that the gold which has been won thereby amounts to 1,283,052 ounces, which is equal to an average yield of 1 dwt. 14 grs. per ton.

A Sludge Abatement Board, appointed by the Government, is entrusted with the duty of regulating the disposal of mining sludge, and preventing the silting of streams and injury to lands by battery sand and infertile debris.

Government batteries. Batteries for testing small quantities of ore for prospectors have been erected by the Government in various mining districts. The number of these plants and their operations in the last five years were as follows :---

		Year.	••••		Number of Batteries.	Quantity of Ore Treated.	Yield of Gold.
					· · · .		
22						tons.	OZS.
	••	••	••	••	34	1,286	1,424
23	. • •	••	••	••	34	1,000	649
24	••	••	••		33	1,006	668
25	••	••	••		31	895	776
26	••	• •	••		31	476	618

GOVERNMENT BATTERIES, 1922 TO 1926.

Since 1897, the year in which the first battery was erected, 75,567 tons of ore have been crushed for 52,861 ounces of gold.

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. The brown coal beds of Victoria have an approximate 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 2,712,724 tons, valued at

£652,591, of which, 876,468 tons were obtained in 1925, and 957,935 tons in 1926. Of the total output for 1926, 219,376 tons valued at £76,908 were obtained from the State Brown Coal Mine at Morwell, and 734,004 tons valued at £110,600 from the State Mine at Yallourn.

A comprehensive statement of the activities controlled by the State Electricity Commission of Victoria will be found on page 591.

The State coal mine at Wonthaggi, on the Powlett River, was opened in November, 1909. In June, 1911, the control 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, 1926, was 531,869 tons, valued at £585,055. The total output up to the end of 1926 was 7,451,450 tons, valued at £5,795,977. The average number of men employed at the mine throughout the year ended 31st December, 1926, was 1,741.

Victorian coal production and value. The quantity of coal, exclusive of brown coal, raised in Victoria up to the end of 1926 was 11,850,304 tons, valued at £8,628,068. The total quantity raised prior to 1892, the average annual production for different periods from

1892 to 1920, and the production for each of the years 1921 to 1926, together with 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	9 2		
1916-20		••		437,833	15 11		
1921		••		514,859	23 5		
1922				559,284	23 9		
1923	••			476,823	22 0		
1924		•••		518,315	22 0		
1925			• •	534,246	22 4		
1926			- Z.	591,001	22 3		

COAL PRODUCTION AND VALUE PER TON.

* Total production up to date mentioned.

The quantities of coal produced in the other States in 1926 were as follows :--New South Wales, 10,885,766 tons; Queensland, 1,221,059 tons; Western Australia, 474,819 tons; and Tasmania, 90,661 tons.

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

				Gold Mines	•	Coal Mines.			
	Year.		'Miners Employed.	Persons Killed.	Persons Injured.	Miners Employed.	Persons Killed.	Person Injured	
1922	••	••	3,310		4	1,953	••	11	
1923	••		2,982	1	6	2,131	1	11	
1924	••		2,651		2	2,289	3	17	
1925	••		2,353	1	6	2,593	5	20	
1926			1,967	5	14	2,939	2	6	

MINING ACCIDENTS, 1922 TO 1926.

As a result of gold mining accidents during the last five years 7 persons were killed and 32 were injured and rendered unfit for work for a period of at least fourteen days. These numbers were equivalent to annual rates of 0.53 and 2.41 respectively per 1,000 employed. Coal mining accidents during the same period accounted for 11 deaths and 65 injuries resulting in disablement for at least fourteen days, these being equal to yearly rates of 0.92 and 5.46 respectively per 1,000 employees.

Boring for The record of boring operations conducted by the gold, coal, and Mines Department during the last five years is as other minerals. follows :---

GOVERNMENT BORING OPERATIONS, 1922 TO 1926.

			Number		Total			
	Year.		of Machines.	Gold.	Coal.	Other Minerals.	Total.	Depth Bored.
1922			1,7		109	-	100	feet.
1922	••	••	15	6	182	1 .: 1	188	25,200
	• •	••	13	4	67		72	19,670
1924	••	••	14	16	74	2	92	34,300
1925		••	13	10	38	15	63	30,000
1926	••		14	29	45	14	88	20,000

Note-The boring done at the State Coal Mine is not included.

Up to the end of 1926 the quantity of antimony produced in Victoria was 104,272½ tons of concentrates valued at £612,035. The whole of it was obtained at Costerfield. No antimony was obtained in 1926, but, for the previous year, the yield was $120\frac{1}{2}$ tons of concentrates valued at £5,380.

Tin.

The production of tin ore in the State up to the end of 1926 was 16,924 tons, valued at £949,688. In the year 1926 the quantity produced was 29 tons, as against 69 tons in

1925, 38 tons in 1924, 78 tons in 1923, and 115 tons in 1922. Of the tin won during the last five years nearly the whole was obtained in the Beechworth district.

The quantity of gypsum produced in the State in 1926 was 10,217 tons, most of which was obtained at Bolton, Waitchie, and Boort. The output for the previous year was 14,518 tons. Up to the end of 1926 the quantity raised in Victoria was 101,473 tons, valued at £76,655.

The quantity of kaolin produced in 1926 was 3,153 tons, **Kaolin.** and in the previous year, 1,594 tons. Up to the end of 1926 the total output was 31,353 tons, valued at £40,719.

The total value of molybdenite produced in the State Melybenite. up to the end of 1926 was $\pounds 30,911$. In the year 1926 the output was valued at $\pounds 7,350$, as against $\pounds 5,545$ in 1925. The whole of the output was obtained at Everton, near Beechworth.

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

			Qua	Quantity of Stone Operated on-						
Year ender	l June	Number of Quarries.	Bluestone.	Sand- stone.	Granite.	Limestone.	Value of Stone Raised.			
			c. yds.	c. yds.	c. yds.	c. yds.	£ 384,510			
1923	••	106	1,244,262	10,776	1,775	1				
1924	••	105	1,429,719	2,536	2,242	. *	436,175			
1925		117	1,504,093	1,926	2,387	221,171	497,270			
1926		127	1,650,461	6.000	2,444	300,708	587,910			
1927		116	1,941,739	8,368	6,848	308,095	700,200			

QUARRIES, 1922-23 to 1926-27.

*Informatio not available.

In 1926-27 the number of persons employed in quarries was 2,516, and the wages paid amounted to £567,826. These figures include the employees and wages connected with stone-breaking and tar-paving works, most of which are carried on in conjunction with quarries and cannot be separated therefrom.

MANUFACTURING INDUSTRIES.

The earliest year for which there are statistical records Industrial of the factories of the State is 1850, at which date the progress. number of manufacturing establishments is shown to have Subsequently fair and regular progress was made in the been 68. industry until in 1900, the year before Federation, there were 3,097 factories working. The years immediately following Federation were marked by increased industrial activity, which was well maintained in later years. During the last ten years nearly all existing lines of manufacture have shown a notable expansion, and many industries new to the State have been firmly established. Since 1917-18 the number of factories has increased by 37 per cent., the number of persons employed by 37 per cent., the amount of salaries and wages paid by 155 per cent., the value of output by 90 per cent., the value of machinery and plant and premises by 151 per cent., and the horse power of factory machinery by 178 per cent. The difference between the cost of materials used and the value of the output was equivalent to an added value of £356 4s. 7d. per person employed in 1926-27, as compared with £210 17s. 3d. in 1917-18. In 1917-18, 77 per cent. of factories used mechanical power as against 86 per cent. in 1926-27. The increase in the added value relatively to employees, the larger proportion of factories using power, and the higher aggregate power of establishments as a whole are indications of increasing industrial efficiency. The proportion of children employed in factories to total employees was 5 per cent. in 1917-18 and 5 58 per cent. in 1926-27.

Since 1917-18 the number of factories employing over 100 hands has increased by $26 \cdot 5$ per cent., and the number of hands employed by such factories has increased by $38 \cdot 2$ per cent. While factories of this size formed only $3 \cdot 2$ per cent. of the total number in the State in 1926-27, they employed $42 \cdot 8$ per cent. of the total number of hands.

The appended table summarizes the position of the industries at various stages since 1871, but, the figures for the years prior to 1911 are not strictly comparable, for the reason that they have not been compiled upon the same basis.

Year.		Number of Factories.	Number of Persons employed.	Amount of Salaries and Wages paid.	Value of Plant, Machinery, Land, and Buildings.	Value of Output.
1871 1881 1891 1901 1911 1912 1913 1914 1915 1916-17 1917-18	· · · · · · · · · · · · · · · · · · ·	1,740 2,488 3,141 3,249 5,126 5,263 5,613 5,650 5,413 5,445	19,468 43,209 52,225 66,529 111,948 116,108 118,744 118,339 113,834 116,970	£ * * 8,911,019 10,102,244 10,714,336 11,099,940 11,036,345 11,833,517	£ 4,725,125 8,044,296 16,472,859 12,298,500 18,257,889 19,457,795 20,775,738 21,975,646 22,529,072 23,784,289	£ * * * * * * * * * * * * *
1917-18 1918-19 1919-20 1920-21 1921-22 1922-23 1923-24 1924-25 1925-26 1926-27	· · · · · · · · · · · · · · ·	5,627 5,720 6,038 6,532 6,753 7,096 7,289 7,425 7,461 7,620	$118,241 \\ 122,349 \\ 136,522 \\ 140,743 \\ 144,876 \\ 152,625 \\ 156,162 \\ 154,158 \\ 152,959 \\ 161,639 \\ 151,000 \\ 100,$	$\begin{array}{c} 12,502,601\\ 14,080,403\\ 17,702,173\\ 21,377,216\\ 23,846,495\\ 25,547,192\\ 27,472,084\\ 29,057,052\\ 29,329,400\\ 31,822,589 \end{array}$	$\begin{array}{c} 25,460,282\\ 27,318,735\\ 30,804,520\\ 35,492,735\\ 40,992,280\\ 46,423,240\\ 53,196,475\\ 61,031,975\\ 60,396,500\\ 63,850,005 \end{array}$	67,066,715 80,195,677 101,475,363 106,008,294 106,243,181 111,286,343 113,921,927 118,177,398 119,986,439 1127,397,951

GROWTH IN THE MANUFACTURING INDUSTRIES.

* Particulars not available. † 1880.

1880. ‡ 1890.

• § 1900.

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

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 Fac-

tories and Shops Act 1915 (No. 2650) consolidated all Acts passed prior to that date. The general provisions of factory legislation, including "Wages Boards," are fully dealt with in Part "Social Condition " of this work.

Production of different industries, 1926-27. In the year 1902 the classification of industries for statistical purposes, as shown in the next table, was adopted by the Statisticians of Australia. A factory was 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 1926-27 the number of factories in each industry, the power used, the 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 :--

9354.—**31**

FACTORIES-POWER, WORKERS, WAGES, ETC., AND PRODUCTION, 1926-27.

			Av	erage Num Em	ber of Pe ployed.	rsons		Va	lue of—	1 -
	Factories.	ower of	Ma	les.	Fe	males.				
Nature of Industry.	Number of Fac	Actual Horse-power Engines used.	Working Proprietors.	Employees.	Working Proprietors.	Employees.	Wages paid	Fuel and Light used.	Materials used, including Containers.	Artisles Pre- duced or Work Done.
Class I.—Treating Raw Material the product of Pastoral Pursuits, or Vegetable Products, not otherwise classed.		<u>,</u>	2011				£	£	£	£ 274,658
Boiling down Bone milling Tanning Fellmongering Chaffeutting and grain crushing Other	9 12 44 32 138 8	319 801 4,203 1,479 2,203 63	8 12 65 30 115 5	178 105 2,220 539 545 249	•• •• •• ••	$ \begin{array}{c} 3 \\ 19 \\ 2 \\ 15 \\ 2 \end{array} $	53,941 31,666 570,283 139,216 87,622 61,861	11,337 15,902 41,896 28,073 11,987 402	$197,645 \\ 53,774 \\ 1,814,634 \\ 1,678,183 \\ 776,327 \\ 145,854$	274,658 119,786 2,760,910 2,069,151 989,823 237,661
Total	243	9,068	235	3,836	••	41	944,589	109,597	4,666,417	6,451,989
Olass 11.—Oils and Fats, Animal and Vegetable.							0.444	15 440	290,742	429,804
Oil, grease, glue	10	735 768	10 13	208 532	•••	18 160	61,444 145,502	15,442 40,000	646,322	1,111,040
Total	31	1,503	23	740	••	178	206,946	55,442	937,064	1,540,844

Victorian Year-Book, 1926-27.

0.45

Olass III.—Processes relating to Stone, Clay, Glass, &c.		1	.		1		1	-	ļ	1.
Bricks, tiles, pipes and pottery	95	8,576	65	2,508		148	631,362	001 100	1 80 000	
Cement, including cement tiles and	36	8.672	8	1,005	•••	140	250,243	264,432	173,889	1,475,557
pipes		0,012		1,000	••		200,243	197,431	288,637	1,031,748
Glass, including bottles	4	1,565	6	675		15	173.314	60.071	107 000	-
Glass bevelling	29	124	22	296	···,	4	76.409	60,971	107,090	507,787
Marble and stone draming		713	60	418	<u>^</u>	8	123,922	1,314	113,034	227,428
Modelling	48	574	59	616	•••	12		3,886	73,286	251,255
Other'	15	534	10	174		12	157,558	6,609	213,957	469,593
	10	001	10	1/7		1	41,013	28,248	36,241	120,793
Total ., .,	277	20,758	230	5,692	1	194	1,453,821	562,891	1,006,134	4,084,161
Class IV Working in Wood.										
Coonerage	11	361	7	269	1.0	1	83,657	0.010/	01 959	100.070
Saw-milling (forest)	207	4.358	284	2,565	••	13	597,744	2,816	61,353	186,653
Saw-milling, joinery, &c.	336	11.031	268	4,391	••	75	1,111,869	1,218	115,827	999,495
Boyes and Cases	42	1,493	37	388	$\frac{1}{2}$	4	111,494	35,963	1,688,340	3,308,817
Wood conting turning	69	1,242	61	489	2	24	104 004	5,328	215,533	381,139
Other	13	189	19	218		24 37	124,324	5,484	156,273	352,779
other	10	103	10	210	••	. 37	53,493	637	75,880	150,064
Total	678	18,674	676	8,300	4	154	2,082,581	51,446	2,313,206	5,378,947
Class VMetal Works, Machinery, &c.										
Agricultural implement	73	3,911	70	3.616		134	931.404	51.620	891.930	0.000 570
Engineering	315	7,451	358	5,838	4	133	1.551.664	82,694		2,228,570
Railway workshop	21	6,854		7,042	-	6	1,755,202		1,653,951	3,948,285
Ironworks and foundries	117	6,507	125	3,728	••	133	951,571	77,855	1,859,932	4,257,700
Sheet-iron, tin, &c.	118	1,149	116	1,769	-	$\frac{133}{271}$	414,832	$122,850 \\ 15,778$	1,075,029	2,611,695
Brass, copper smithing	101	1,008	112	1,374	••	71	345,704		663,487	1,323,515
Wireworking	27	640	34	357		22	97,116	18,048	314,329	839,517
Electrical apparatus	105	1,100	92	1,275	1	74		3,184	218,638	379,818
Stove, range	23	171	29	257		(生)	307,464	9,835	283,005	747,472
Other	123	2,201	107	1,376	· · · ,	37	71,530	4,008	49,125	157,063
				41A(A	2	01	345,010	23,233	598,179	1,199,273
Total	1,023	30,992	1,043	26,632	7	881	6,771,497	409,105	7,607,605	17,692,908
a the activity of the second	an and		1940 (P.1999)	¥. 1999.3 - 1	कल्क र	a strijstat io	-			h

Production

			Av	erage Numl Emple	ber of Pe	rsons	Value of				
	Factories.	ower of	M	ales.	Fei	males.					
Nature of Industry.	Number of Fac		Working Proprietors.	Employees.	Working Proprietors.	Employees.	Wages paid.	Fuel and Light used.	Materials used, including Containers.	Articles Pro- duced or Work Done.	
Class VI.—Connected with Food on Drink, &c. Bacon curing Butter, cheese Bister, cheese Biscuit Flourmilling Jam, fruit, sauce, &c. Oatmeal, starch, &c. Sugar, confectionery, &c Aerated water, cordial, &c. Malt Brewing Distilling Condiments, coffee, cocoa, &c. Tobacco, &c	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2 6,456 3 4,812 755 755 4 6,073 8 1,860 7 617 10,830 7 617 555 0 5,123 0 508 5 8,51 2 615	$28 \\ 31 \\ \\ 5 \\ 29 \\ 26 \\ 17 \\ 118 \\ 103 \\ 10 \\ 3 \\ 2 \\ 4 \\ 19 \\ 41$	511 1,995 720 764 1,040 1,647 395 2,293 628 2,66 1,147 146 268 1,071 422	··· ·· ·· ·· ·· ·· ·· ·· ·· ·· ··	$\begin{array}{c} 21\\ 294\\ 10\\ 560\\ 25\\ 929\\ 371\\ 2,019\\ 93\\ 4\\ 6\\ 6\\ 142\\ 611\\ 9\end{array}$	£ 151,622 552,659 185,760 212,390 267,873 504,442 135,180 810,001 175,236 75,531 377,393 38,849 81,314 353,842 122,044	£ 20,552 143,344 23,209 23,051 50,068 35,580 18,568 134,736 8,601 18,290 66,509 12,132 8,440 8,422 45,142	£ 1,063,199 6,582,332 1,644,631 729,889 5,017,009 1,489,407 934,124 4,779,147 331,312 491,550 1,143,932 177,079 394,473 1,146,122 197,081	£ 1,425,509 7,813,409 2,032,843 1,220,747 5,789,618 2,427,373 1,362,310 6,607,207 696,393 725,192 2,605,704 338,102 584,899 1,921,004 521,541	
Total	73	2 47,539	436	13,313	32	5,100	4,044,136	616,644	26,121,287	36,071,851	

FACTORIES-POWER, WORKERS, WAGES, ETC., AND PRODUCTION, 1926-27-continued.

Class VII.—Clothing and T Fabrics, and Fibrous Materia	zl.							· · · · · · · · · · · · · · · ·	n na na na na An		
Woollen mill		27	13,995	17	2,955					5	and the second
Clothing, tailoring, &c.		530	10,330	497	2,955		3,745	-,,	151,998	2,299,910	4,581,445
Dressmaking and millinery		505	630	146	313	50	7,033	1,315,336	21,916	1,997,060	3,807,553
Underclothing, shirt		178	1,035	107		359	8,002	1,011,496	14,984	1,910,914	3,374,749
Hat, cap		53	605	49	473	73	6,280	825,842	15,755	2,038,513	3,377,463
Hosiery		176	2.141		545	3	1,148	299,444	10,914	413,813	886 457
Oilskin, waterproof clothing	••	9	53	124	976	- 76	4,942	799,361	28,176	1,675,244	3,164,652
Boot, shoe		204	3,366	266	73	1	238	51,340	934	84.162	167,794
Boot repairing	. • •	272	3,300		6,329	21	5,576	2,140,054	40,565	3,058,257	6,105,072
Fur		55	94	254	259	•••	18	101,738	2,373	74,663	227,636
Sail, tent, rope, twine, &c.	••	29		52	189	13	365	99,188	1,552	361,740	552.188
Other	•••	29 49	1,721	. 32	607		488	188,288	14.483	534,374	930.211
· · · ·		49	284	43	274	5	476	127,076	6,900	212,223	416,567
Total		2,087	24,834	1,594	14,595	601	38,311	7,971,729			·
							00,011	1,971,729	310,550	14,660,873	27,591,787
Class VIII.—Books, Paper, Print Engraving, &c.	ing,		,			-		•			
Printing		445	5.989	527	5,797	14	1 0 70				
Bookbinding, &c.		37	410	33	673	14	1,659	1,914,975	51,393	1,938,372	4,869,350
Papermaking, paper bags, hoxes	&c.	46	2,286	32	804	1	600	225,060	5,550	286,040	643,174
Die sinking, engraving, &c.		20	93	25		3	998	321,604	59,203	573.110	1,243,336
Other		34	317	39	158		7	40,736	1,035	16.423	78,820
			01.7	- 29	255	2	93	81,496	3,121	116,814	256,557
Total	••	582	9,095	656	7,687	20	3,357	2,583,871	120,302	2,930,759	
	-								120,002	2,330,739	7,091,237
Class IX.—Musical Instruments		19	376	8	508	••	16	124,610	2,269	150,304	337,548
lass X.—Arms and Explosives		8	689	1	322	·· ••	214	118,442	17,872	227,946	440,722

			Ave	erage Numb Emplo	er of Per oyed.	BODS		Value	of—	
	tóries.	ower of	Males.		Females.					
Nature of Industry.	Number of Factories:	Actual Horse-power Engines used:	Working Proprietors.	Bmployees.	Working Proprietors.	Employees.	Wages paid.	Fuel and Light used.	Materials used; including Containers.	Articles Pro- duced or Work Done.
i an	Ň	Bn	N A	Å.	ĕ₫.				<u></u>	<u></u>
Class XIVehicles and Fittings,				•			£	£	£	£
Saddlery, Harness, &c. Coachbuilding	235 72 599 26 17	$1,562 \\ 962 \\ 2,237 \\ 35 \\ 66$	273 97 442 27 23	1,561 1,878 3,431 159 162	 	18 48 66 40 11	375,662 496,529 760,938 44,456 38,996	14,084 10,313 31,771 309 630	318,026 636,222 83,948 61,415 52,035	869,997 1,359,157 1,129,738 122,777 108,764
Total	949	4,862	862	7,191		183	1,716,581	57,107	1,151,641	3,590,428
Class X11.—Shipbuilding, Fitting, & c.	13	1,358	10	372	•••	6	92,795	5,686	37,827	167,572
Mass XIII.—Furniture, Bedding, &c. Upholstery, bedding, &c. Cabinet, including billiard table Picture frame Other	72 344 16 64	970 3,511 37 439	48 419 17 57	627 2,943 60 680	3 3	306 93 8 196	185,227 702,910 17,701 171,902	6,399 20,720 342 4,840	412,818 774,070 20,655 321,711	730,156 1,829,102 47,308 593,527
Total	496	4,957	541	4,310	6	603	1,077,740	32,301	1,529,254	3,200,093

FACTORIES-POWER, WORKERS, WAGES, ETC., AND PRODUCTION, 1926-27-continued.

e	Class XIV.—Drugs, By-produ	Chemicals cts.	, and	.				1	1			1	1
(Polishes, &c. Chemicals, drugs, &c.	•••	••	19 53	$203 \\ 2,157$	8	117 701	2	140 696	52,135 261,045	2,083 24,109		
	Fertilizers	•••	••	8 34	2,068 607	24	931 145	₁	6 22	246,219	43,091 2,759	482,549 1,027,516 101,330	1,006,195 1,759,892 195,579
	Total	••	••	114	5,035	50	1,894	3	864	597,554	72,042	1,820,540	3,285,676
C	llass XV.—Surgical Appliances	and Scie	entific 	44	89	35	216	1	17	51,558	1,530	38,681	119,518
đ	lass XVI.—Timepie and Plated-ware	ces, Jewe 	ellery,	117	546	123	797	1	123	214,018	7,598	225,417	547,052
0	lass XVIIHeat, Energy.	Light,	and	<u>-</u>									
G	lectric light as, coke ther	•••	•••	86 33 10	219,626 2,810 3,570	5 2	1,109 955 469	•••	6 4 434	323,286 264,918 177,389	682,482 127,562 32,807	2,001 915,890 776,953	1,768,514 1,967,485 1,330,232
	Total	•••	••	129	226,006	7	2,533	•••	444	765,593	842,851	1,694,844	5,066,231
0	lass XVIII.—Rubbe ware (except Saddlery	r and Lea and Harn	ther-										-
	ancy leather, belting, ubber goods	&c.		61 69	310 8,146	61 57	473 2,759	•••	403 743	155,510 800,029	3,271 112,999	299,066 2,300,674	528,019 4,032,609
	Total	· • •	•• [130	8,456	118	3,232		1,146	955,539	116,270	2,599,740	4,560,628
				. 1		t-	l						

tere a filosofie Alexandro de teres en esta			Av.	erage Numb Emple	oer of Peroyed.	rsons		Value	e of—	
	Factories.	wer of	М	ales.	Fei	nales.				~
Nature of Industry.	°,	Actual Horse-power Engines used.	ng etors.	yees.	ng letors.	yees.	Wages paid.	Fuel and Light used.	Materials used, including Containers.	Articles Pro- duced or Work Done.
	Number	A ctual Engine	Working Proprietors.	Employees.	Working Proprietors.	Employees				
Class XIX Wares, not elsewn included.	ere						£	£	£	£
included. Jmbrella	5 	12 53 90	4 4 2	$\begin{array}{c} 62\\ 38\\ 41\end{array}$	••	1539	31,027 8,875 9,087	276 229 440	75,700 13,839 7,857	129,274 28,733 20,752
Total	18	155	10	141	••	162	48,989	945	97,396	178,759
Grand Total	7,690	414,992	6,658	102,311	676	51,994	31,822,589	3,392,448	69,816,935	127,397,951

FACTORIES-POWER, WORKERS, WAGES, ETC., AND PRODUCTION, 1926-27-continued.

Increase in value of out-put of certain industries, 1921-22 and 926-27.

Most of the more important manufacturing industries in the State have shown a substantial increase in the value of output in the last five years. The output for the years 1921-22 and 1926-27 of a number of leading industries

is shown in the following table, the industries being arranged in order of increase in value :---

Industry.		Value o	of Output.	Increase in 1	Five Years.
		1921-22.	1926-27.	Value.	Per cent.
		£	£	£	
Rubber goods	• •	1,556,224	4,032,609	2,476,385	159.1
Woollen mills		2,482,761	4,581,445	2,098,684	84.5
Motor, &c		1,127,608	2,488,890	1,361,282	120.7
Railway workshops	• •	3,182,559	4,257,700	1,075,141	33.8
Jam, preserves, pickles, &c.	• •	1,538,230	2,427,373	889,143	57.8
Knitting, hosiery		2,297,739	3,164,652	866,913	37.7
Fellmongeries	• •	1,212,620	2,069,151	856,531	70.6
Underclothing, shirts, &c.	••	2,613,300	3,377,463	764,163	29.2
Engineering, ironworks and					1. 10 1
foundries, &c.		5,897,158	6,639,072	741,914	12.6
Butter, cheese, &c.	••	7,115,642	7,813,409	697,767	9.8
Furniture, cabinetmaking	÷ •	1,247,508	1,829,102	581,594	46-6
Cement and cement goods	••	458,474	1,031,748	573,274	125.0
Bricks, tiles, pottery	••	999,383	1,475,557	476,174	47.6
Meat preserving	• •	1,564,475	2,032,843	468,368	29.9
Agricultural implements	••	1,767,843	2,228,570	460,727	26.1
Fertilizers	••	1,302,288	1,759,892	457,604	35.1
Breweries	••	2,200,882	2,605,704	404,822	18.4
Sawmilling, joinery, boxes a	nd				
cases	••	3,649,316	4,042,735	393,419	10.8
Electrical apparatus	••	364,411	747,472	383,061	105.1
Electric light and power	••	1,407,268	1,768,514	361,246	25.7
Upholstery, bedding	••	483,326	840,804	357,478	74.0
Paper, paper bags, &c.	••	900,379	1,243,336	342,957	38.1
Modelling, plaster sheets	••	136,633	469,593	332,960	$243 \cdot 7$
Oatmeal, &c.	••	993,149	1,319,218	326,069	32.8
Confectionery	••	2,289,555	2,605,704	316,149	13.8
Boots and boot repairs Biscuit	••	6,043,172	6,332,708	289,536	4.8
Fur	••	942,440	1,220,747	278,307	29.5
	••	285,796	552,188	266,392	93.2
Dressmaking, millinery Distilleries	••	3,142,365	3,374,749	232,384	7.4
	••	113,645	338,102	224,457	197.5
Devianting of	•••	791,125	1,006,195	215,070	27.2
Bross and common	•••	4,694,295	4,869,350	175,055	3.7
Brass and copper	••	665,649	839,517	173,868	26.1

OUTPUT OF INDUSTRIES, 1921-22 AND 1926-27.

INDIVIDUAL INDUSTRIES.

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

Tanneries, &c. The development of the tanning and fellmongering industry during the past ten years is shown by the particulars contained in the next two tables :—

Year.		Number of Establish- ments.	Horse- power of Engines.	Value of Machinery and Plant in Use.	Persons Employed.	Nnmber of Working Proprietors	Amount of Wages Paid.
1917–18 1918–19 1919–20	••	76 81 86	3,476 4,035 4,631	£ 271,120 370,765 400,110	2,485 2,984 3,384	69 74 85	£ 347,753 455,548 631,920
1920–21	••	80	4,707	436,395	2,851	87	575,182
1921–22		78	5,341	504,355	2,995	93	625,448
1922–23		79	5,530	518,815	3,052	105	658,026
1923–24		80	5,850	557,930	2,929	108	646,015
1924-25	•••	76	5,920	567,315	2,815	99	*661,685
1925-26	••	76	5,975	579,445	2,938	96	*687,475
1926-27	•••	76	5,682	564,530	2,875	95	*709,499

TANNERIES, ETC., 1917-18 to 1926-27.

* Including amounts drawn by working proprietors.

The quantity of bark used in connexion with tanning operations in 1926-27 was 12,446 tons. The output of tanneries and fellmongeries. for each of the last ten years was as follows :---

OUTPUT OF TANNERIES, ETC., 1917-18 to 1926-27.

		umber Tanı fides and Sl		Sheep	Wool Washed	Value of Articles	
Есат.	Cow and Ox.	Calf.	Sheep and other Skins.	Skins Stripped.	(weight after washing).	produced or Work done.	
· · · · · ·		-		number	lbs.	£	
917-18	601,950	217,605	1,418,595	1,641,000	24,560,590	5,061,236	
918-19	670,956	234,548	1,742,888	2,354,487	34,483,316	6,918,270	
9 1 9 - 2 0	738,907	251,973	2,780,017	5,030,438	38,191,912	8,896,091	
920-21	694,322	308,542	1,406,472	2,604,413	14,619,943	4,200,077	
921-22	792,974	512,515	2,042,817	2,214,980	17,453,847	3,953,049	
922-23	780,221	663,813	2,403,940	2,407,830	19,939,785	4,577,664	
923-24	788,942	526,818	2,387,235	971,559	12,885,685	4,675,911	
924-25	783,115	557,354	1,849,575	1,225,616	13,469,200	4.694.042	
925-26	775,972	546,166	1,896,652	1.523,506	15.875.925	4,491,077	
926-27	660,905	645,945	1,487,458	1,602,165	17.387.073	4,830,061	

The value of the leather imported into Victoria from oversea. countries during the year ended 30th June, 1927, was £182,660.

Scap and Particulars in regard to the scap and candle works in the State for the past ten years are given below :---

SOAP AND CANDLE WORKS, 1917-18 to 1926-27.

Year.	Number of Establish-	Value of Machinery	Persons	Amount of Wages	Proc	Value of		
	ments.	and Plant in Use.	Employed.	Paid.	Soap.*	Candles.	Output.	
				· · · ·				
		£		£	cwt.	ewt.	£	
1917-18	17	130,795	769	91,604	228,310	37,290	951,114	
1918-19	15	140,600	681	92,663	206,429	39,680	957,295	
1919-20	16	143,310	738	103,333	243,156	40,908	1,321,112	
1920-21	16	164,110	696	115,749	225,748	32,662	1,134,820	
1921–22	17	174,460	742	139,519	267,858	31,613	1,096,955	
1922-23	19	196,355	769	142,685	296,888	39,519	1,152,270	
1923–24	17	210,270	741	147,124	289,364	34,424	937,148	
1924–25	17	201,400	714	143,779†	295,672	29,415	1,176,919	
19 2 5–26	17	214,125	700	147,161†	-	28,048	1,185,722	
1926-27	18	235,705	705	145,502†		25,359	1,111,040	

* Not including soap made in small soap works not classified as factories, viz, 1,134 cwt. in 1917-18, 1,054 cwt. in 1918-19, 907 cwt. in 1919-20, 906 cwt. in 1920-21, 859 cwt. in 1921-22, 1,346 cwt. in 1922-23, 1,258 cwt. in 1923-24, 736 cwt. in 1924-25, 920 cwt. in 1925-26. and 853 cwt. in 1926-27.

† Including amounts drawn by working proprietors.

The quantity of tallow used in 1926-27 in the manufacture of soap and candles was 195,915 cwt. in factories, and 510 cwt. in minor works.

The imports from oversea countries in 1926-27 included 371,907 lbs. of soap valued at £33,160, and 52,911 lbs. of candles valued at £3,509.

Brickyards, potteries, &c. used in connexion with such works in 1926-27 was £1,065,645 :--

	Number of	Persons Employed.	Amount of Wages Paid		Value of		
Year.	Establish- ments.			Number of Bricks Made.*	Pipes and Tiles.	Pottery.	
			£		£	£	
1917-18	78	1,907	231,090	107,139,000	171,836	73,398	
1918-19	84	2,361	314,452	133,176,000	246,763	121,286	
1919-20	93	2,569	336,295	119,142,000	255,562	97,844	
1920-21	92	2,794	481,352	203,425,000	362,495	177,410	
1921-22	93	2,655	495,288	169,715,000	355,784	185,293	
1922-23	92	3,201	631,454	227,183,000	439,159	203,828	
1923-24	104	3,540	735,719	247,598,000	541,796	241,821	
1924-25	102	3.069	655,034†	201,440,000	427,522	296,551	
1925 - 26	98	2,902	621,631†	190,505,000	423,113	205,874	
1926-27	95	2,721	631,362†	230,914,000	493,627	158,071	

BRICKS, POTTERY, PIPES, AND TILES, 1917-18 to 1926-27.

• In addition, there are bricks made in small brickyards not tabulated as factories. † Incinding amounts drawn by working proprietors.

The estimated value of bricks made in 1926-27 was £793,892, being an increase of £122,147 on the value of those made in the preceding year.

Forest Saw-mills. Detailed information in regard to the forest saw-mills of the State for the ten years 1917-18 to 1926-27 is given in the table which follows :---

		Number	Value of Machinery	Persons	Amount of	Victorian Timber Sawn.		
Year.		of Mills.	and Plant in Use.	Employed.	Wages Paid.	Quantity.	Value.	
			£		£	super ft.	£	
1917-18		162	260,280	2,106	248,940	78,984,000	355,430	
1918-19		187	315,670	2,506	319,547	91,540,000	503,470	
1919-20		203	366,355	2,884	405,335	99,142,000	693,995	
1920-21		246	473,275	3,509	563,627	113,215,000	905,720	
1921-22		239	517,725	3,356	627,432	112,008,000	896,070	
1922-23		227	516,800	3,230	616,680	118,366,000	946,930	
1923-24		241	624,590	3,587	686,419	134,639,000	942,476	
1924-25	•••	234	559,450	3,318		114,705,000	745,582	
1925 - 26		215	642,140	2,955		109,534,000	711,971	
1926-27		207	573,550	2,862	597,744*	115,813,000	914,334	

FOREST SAW-MILLS, 1917-18 to 1926-27.

* Including amounts drawn by working proprietors.

In addition to the forest saw-mills there were 471 other factories working in wood. Particulars relating to these for the year 1926-27 are given on page 571.

Firewood.

The quantity of timber sawn for firewood consumption in the year 1926-27 was 286,363 tons valued at the saw-

mills at £305,166. 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.

Agriculturai and Dairy Machinery Works, Owing to a revision of the classification of Victorian statistics, Dairy Machinery has now been amalgamated with Agricultural Implements, and the main particulars are shown hereunder for the year 1926-27 :--

AGRICULTURAL AND DAIRY MACHINERY WORKS,

1926-27.

	No. of	Persons		Value of—			
	Factories.	Employed.	Wages Paid.	Fuel, &c., Used.	Materials Used.	Output.	
1926-27	73	3,820	£ 931,404*	£ 51,620	£ 891,930	£ 2,228,570	

^{*} Including amounts drawn by working proprietors.

The stripper-harvester, which is a Victorian invention, is one of the principal implements manufactured.

In the following table particulars of bacon and ham Bacon curing. curing establishments are given for the ten years 1917-18

to 1926-27. The value of the machinery, plant, land and buildings in connexion with these establishments was £157,710 in 1917-18 and £319,115 in 1926-27.

Year. Number			Persons	Amount	Pigs	Weight	Value
x car.		Establish- ments.	Employed.	Wages Paid.	Slaughtered for Curing.	of Bacon and Hams Cured.	of Output.
1917-18		1		£	number	lbs.	£
	••	21	455	65,870	197,880	17,908,100	1,084.44(
1918-19		21	503	76,308	201,770	18,343,400	1,107,910
1919-20	••	21	<u>` 549</u>	99,736	182.320	16,675,090	1,384,351
1920-21	••	22	442	90.394	139,881	13,369,107	1,335,186
1921-22	•••	22	477	103,783	163,917	15,583,960	
1922-23		24	494	104.841	186.524		1,366,832
1923 - 24		$\overline{24}$	534	104,841 118.751		17,293,395	1,289,267
1924-25		21	531		217,847	20,458,243	1,602,615
1925-26	•••			129,474*	218,158	20,431,914	1,571,357
	•••	21	546	142,515*	$222,\!487$	19,739,326	1,520,272
192627	••	21	560	151,622*	230,391	19,739,524	1,425,509

BACON CURING, 1917-18 to 1926-27.

Including amounts drawn by working proprietors.

In addition, the following quantities of bacon and hams were returned as having been cured on farms: --2,738,428 lbs. in 1916-17, 5,403,776 lbs. in 1917-18, 3,859,205 lbs. in 1918-19, 2,698,919 lbs. in 1919-20, 1,755,993 lbs. in 1920-21, 1,812,838 lbs. in 1921-22, 1,975,729 lbs. in 1922-23, 2,082,731 lbs. in 1923-24, 1,561,955 lbs. in 1924-25, 1,474,599 lbs. in 1925-26, and 1,212,786 lbs. in 1926-27. The total quantity of bacon and hams cured in 1926-27 was thus 20,952,310 lbs. --a decrease of 261,615 lbs. as compared with 1925-26.

Butter and cheese factories. The number of butter, cheese, and kindred factories in 1926-27 was 182. Of these 148 were making butter, 27 cheese, 4 concentrated milk, 6 condensed milk, 11 powdered milk, 5 casein, and 1 milk sugar. There were also 26

creameries attached to the factories. The following table gives some indication of the value of this industry to the State :---

BUTTER AND CHEESE FACTORIES, 1917-18 to 1926-27.

Year. of		Number of Factories.	Value of Machinery, Plant, Land, and Build- ings.	Persons Employed.	Amount of Wages Paid.	Value of Output.
	-		£		£	£
1917-18	••	181	683,140	1,677	226,050	5,086,238
1918-19	••	180	786,275	1,918	273,335	6,056,342
1919-20	••	181	1,025,325	2,054	338,507	6,365,927
1920-21	•••	184	1,238,745	2,127	414,420	9,194,654
1921-22	••	188	1,395,425	2,351	492,446	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

* Including amounts drawn by working proprietors.

Further particulars relating to butter and cheese factories will be found under the heading of Dairying on page 548.

Meat freezing and preserving works numbered thirteen in 1926-27, and gave employment to 730 hands, the wages amounting to £185,760. The approximate value of machinery, plant, land and buildings in that year was £1,090,430.

The output for each of the last ten years is given in the following table :---

MEAT FREEZING AND PRESERVING, 1917-18 to 1926-27.

				Froz	æn.	· · · · ·
	Year.		Cattle.	Sheep.	Rabbits and Hares.	Poultry.
······	· · · · · · · · · · · · · · · · · · ·		qrs.	number.	number.	number.
1917-18			3,832	196,267	7,403,324	4,620
918-19			8,640	668,971	2,352,212	2,700
1919-20			177,230	4,001,510	5,451,384	2,736
1920-21			49,372	786.086	2,189,378	9,468
1921-22			55,355	1,186,704	908,104	8,856
1922-23			17,006	2,657,515	282,624	5,284
1923-24			16,044	691,630	160,998	6,776
1924-25			25,690	1,035,799	108,338	6,386
1925-26			102,432	1,480,824	913,698	6,906
926-27	••	••	41,890	1,346,425	806,294	1,764
				Prese	rved.	· · · · · · · · · · · · · · · · · · ·
	Year.					
			Beef.	Mutton.	Rabbits and Hares.	Other Meats, &c.
			<u> </u>			
			cwt.	cwt.	cwt.	cwt.
917-18			17,810	28,530	9,530	15,110
918-19	• •		75,790	118,520	9,625	9,850
919-20	••	•••	104.725	60.850	7,580	1.860
920-21	••	•••	3,641	443	1	764
921-22	••		8,808	4.419	29	30
922-23	••		9,500	2,092	16	3,925
923-24	•••		8,098	564	32	1,411
1924-25	••	••	13.895	954	4	1.467
	•••	•••	23,202	2,084		4,327
1925-26	•••	1				

imports and exports of meats. June, 1927 :—

MEATS IMPORTED AND EXPORTED OVERSEA, 1926-27.

$\frac{1}{2} \sum_{i=1}^{n} \frac{1}{2} \sum_{i=1}^{n} \frac{1}$	Imports	h	Exports.	
Meats.	Quantity.	Value.	Quantity.	Value.
	· · · · · · · · ·			
Frozen		£		£
Mutton	••		7,277,691 lbs.	141,998
Lamb			40,003,853 ,,	1,053.502
Reef	86 lbs.	10	4,015,588 ,,	60,949
Pork	202,955 lbs.	8,332	232,675 "	7,785
Rabbits and Hares			403,147 prs.	44,999
Poultry	2,292 lbs.	149	882 "	468
Game	16,553 lbs.	1,243	••	•••
Potted and Concentrated	0.00 (11 - 11	50,201	••	6,738
Preserved in tins	285,415 lbs.	13,678	725,415 lbs.	27,601
Sausage Casings.	5,486 ewt.	114,779	9,872 cwt.	189,127
Not elsewhere included	••	796		6,356
Total value	••	189,188		1,539,523

Flour mills. The value of the machinery, plant, land and buildings used in connexion with flour mills was estimated at £517,510 in 1917-18 and at £1,046,175 in 1926-27. Particulars of the industry for the ten years 1917-18 to 1926-27 are as follows :---

Year.		Number of Mills.	Persons Employed.	Amount of Wages Paid.	Wheat Ground into Flour.	Flour Made.	Value of Total Output.
				£	bushels.	tons.	£
191718	••	55	1,021	155,330	15,034,990	311,450	3.989.510
1918-19		53	1,063	169,233	16,621,290	347,840	4,656,40
1919-20		51	1.064	189,224	16,920,890	353,683	6.082.74
1920-21	••	51	947	191.688	12.387.960	260,032	5.745.50
1921-22	••	45	997	228,195	14,697,290	308,532	5.759.28
1922-23		47	1,089	244,436	16.601.530	352.002	5,415,06
1923-24	••	47	1.114	266.540	18,552,540	382,204	5,495,110
1924-25	••	46	1.064	267.034*	17.165.253	359,597	6,218,24
1925-26		45	1,039	258,112*	15,909,787	336,704	5.995.73
1926-27		44	1.094	267.873*	17,052,350	360.051	5,789,61
1999 - S.							

FLOUR MILLS, 1917–18 to 1926-27.

* Including amounts drawn by working proprietors.

In addition to the flour made, the wheat ground in 1926-27 produced 7,472,640 bushels of bran and 7,415,832 bushels of pollard. Other grain operated on amounted to 31,960 bushels in 1917-18, 40,113 bushels in 1918-19, 39,235 bushels in 1919-20, 40,094 bushels in 1920-21, 65,788 bushels in 1921-22, 44,363 bushels in 1922-23. 34,283 bushels in 1923-24, 59,825 bushels in 1924-25, 47,659 bushels in 1925-26, and 32,158 bushels in 1926-27.

Exports of bread stuffs.

During the year 1926-27, 2,108,965 lbs. of biscuits valued at £66,377, and 149,339 tons of flour valued at £2,123,361, were exported from Victoria to countries beyond Australia.

Jam, pickle, and sauce works.

In 1926-27 there were 58 establishments in which the manufacture of jams, pickles, and sauces was carried on, and the number of persons employed therein was 2,604, of whom 28 were working proprietors. The wages paid amounted to

£504,442, and the value of machinery, plant, land and buildings was £769,680. The quantities of fruit and sugar used and the output for each of the last ten years were as shown below :---

Year.	Fruit Used.	Sugar Used.	Jams and Jellies Made.	Fruit Preserved.	Fruit Pulped.	Sauce Made.	Pickles Made.
	cwt.	cwt.	cwt.	cwt.	cwt.	pints.	pints.
1917-18	497,650	286,860	398,500	115,589	94,810	7,064,520	1,972,320
1918-19	496,690	314,645	495,575	133,230	91,550	4,913,050	2,137,730
1919-20	628,721	262,585	323,452	181,562	225,522	6,546,610	1,874,240
1920-21	465,349	171,706	231,297	61,542	178,786	6,601,330	1,239,250
1921-22	384,214	148,886	157,712	239,656	100,317	6,600,530	1,056,430
1922-23.	450,199	177,334	206,966	221.157	114,615	8,439,440	2.106.950
1923-24.	552,262	191,216	197,850	239.077	208,688	10,696,190	2.361.250
1924-25	537,246	190,675	220,174	282.360	151.416	7,893,760	2,057,480
1925-26	674,793	209,648	236.345	350,363	168,906	9,305,590	2,686.500
1926-27	792,283	246,170	300,822	335,798	110,420	7,385,438	2,615,267

JAM, PICKLE, AND SAUCE WORKS, 1917-18 to 1926-27.

Some of these establishments also candied fruit peel, the quantities being 9,330 cwt. in 1917-18, 8,449 cwt. in 1918-19, 10,466 cwt. in 1919-20, 13,306 cwt. in 1920-21, 10,743 cwt. in 1921-22, 6,831 cwt. in 1922-23, 3,820 cwt. in 1923-24, 7,263 cwt. in 1924-25, 4,973 cwt. in 1925-26 and 4,508 cwt. in 1926-27. The value of the output in 1926-27 of the whole of the establishments whose produce is shown in the above table was £2,427,373.

In 1896 Parliament made available £62,000 to assist in Beet Sugar the establishment of the beet sugar industry at Maffra, Industry. in Gippsland. On receiving a guarantee that 1,500 acres of beet would be sown by local land-holders, a company erected a

large building and plant, and operated for two seasons. Although a good quality of sugar was produced, various climatic, financial, and other difficulties compelled the company to close down the works, and the Government, as chief creditor, took control.

In 1910 a definite campaign to revive the industry was commenced, and the mill was re-opened; since that time it has operated from year to year. Estates were purchased by the Government at Boisdale and Kilmany, and land was allotted to settlers, subject to the proviso that each would grow a certain quantity of beet. The compulsory system of securing acreage was not found satisfactory, and all crops are now grown voluntarily. Recently the financial results have been sufficiently favorable to more than compensate for all losses; the by-products have been found to be of great value to the dairying industry, and the sugar has become a most important item of Gippsland's food supply.

The State Rivers and Water Supply Commission have advanced their irrigation scheme on the Macallister River, which will provide water for the district this season. Under irrigation it is anticipated that the beet supply will increase, and that the industry will expand on more favorable lines than in the past.

The following particulars summarize the results of the industry for the last ten seasons :--

Season.				Area Harvested.	Sugar Beet Harvested.	Sugar Produced.	
		j.		······			
				acres.	tons.	tons.	
1917-18	••	••	· · ·	1,200	14,487	1,650	
1918-19	••	• •		1.009	12,289	1,263	
1919-20				1,080	13.084	1,551	
1920-21	••	••		1,180	7.147	833	
1921-22		••		1,602	16,578	1.872	
1922-23	••	•••		2,045	20.444	2,784	
1923-24	• •	••		1.937	29,512	3,499	
1924-25	••	•.•		1,897	24,468	3.017	
1925-26				1.880	21,194	2,315	
1926-27	••		· • •	2,024	9,851	1,177	

Last season was almost a failure owing to a drought, and the poorest season yet experienced; growers were paid 40s. a ton for their beets. Conditions appear much more favorable for the coming season, and the area under beets has been increased.

Breweries. Particulars regarding breweries for the ten years 1917-18 to 1926-27 are set forth in the next table. Machinery and plant were valued at £435,960 in 1917-18 and at £810,900 in 1926-27, whilst land and buildings were valued at £471,980 and £621,980 respectively in those years. The wages paid in 1926-27 amounted to £377,393.

Year.	Number	Persons	м	aterials Use	Beer and	Value of	
	Breweries.	Employed.	Sugar.	Malt.	Hops.	Stout Made.	Output.
	1 1 1		ewt.	bushels.	lbs.	gallons.	£
1917-18	18	875	109.640	650,500	748,840	21,021,000	1,334,344
1918-19	17	940	112,080	625,770	722,590	20,963,000	1,476,335
1919-20	17	1,016	110,020	720,515	769,765	22,610,000	1,830,548
1920-21	16	1,054	104,140	753,260	736,580	22,257,000	2,098,720
1921-22	15	1,053	107,160	688,090	717,950	22,388,000	2,200,882
1922-23	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	2,594,835
1926-27	10	1,156	121,666	814,298	831,317	26,484,000	2,605,704

BREWERIES, 1917-18 to 1926-27.

The number of distilleries working in 1926-27 was 9, and **Distilleries.** the persons employed numbered 154, of whom two were working proprietors. The estimated value of the machinery, plant, land and buildings was £270,210. The quantities of materials used in manufacture and of spirits distilled in each of the last ten years were as follows :---

DISTILLERIES, 1917-18 to 1926-27.

				Gi. Inter				
Year.			Wine.	Malt.	Other Grain.	Molasses.	Spirits Distilled.	
			gallons.	bushels.	bushels.	lbs.	proof gal	
1917-18		·	1,137,640	376,830		3,962,560	1,150,091	
1918-19			1,206,530	385,690	397	5,604,480	1,185,629	
1919-20	••		1,524,860	180,306	· ·	3,230,080	702,580	
1920-21			1,041,890	125, 414	1,422	2,682,960	572,67	
1921-22		•••	671,162	58,848		1,167,600	390,84	
1922-23	• •		1,100,568	77,717		85,120	473,15	
1923-24			1,114,590	121,691		2,350,880	730,158	
1924-25	•. •	••	1,117,370	92,124		2,727,650	561,15	
1925-26		••	1,849,920	94,784		2,994,880	785,59	
1926 - 27	••		1,874,370	212,022		2,437,920	995,70	

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 :-5,134 gallons in 1917-18, 2,232 gallons in 1918-19, 5,141 gallons in 1919-20, 15,486 gallons in 1920-21, 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, and 11,259 gallons in 1926-27.

Tobacco factories

The number of tobacco, cigar, and cigarette factories licensed in 1926-27 was twenty-eight, of which sixteen were

too small to be classified as ordinary factories and were consequently not included in the statistical tabulation on page 272. In the year mentioned the remaining twelve gave employment to 1,701 persons who were paid £353,842 in wages, and used machinery, plant, land and buildings valued at £419,540. 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 :---

Year.	Unmanufactured Leaf Operated on.		Quantity Manufactured.						
	Australian.	Imported.	Tobacco.	Snuff.	Cigars.	Cigarettes.			
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	lbs. 558,278 405,625 573,932 751,137 535,590 540,322 471,862 427,152 449,575 527,807	$\begin{matrix} \text{lbs.}\\ 4,598,364\\ 5,096,176\\ 5,139,098\\ 5,290,854\\ 5,250,641\\ 5,628,555\\ 4,998,680\\ 5,222,496\\ 5,055,260\\ 4,662,288\end{matrix}$	lbs. 5,479,191 5,842,142 6,164,126 6,443,480 6,345,508 6,709,050 5,833,903 5,998,437 5,879,683 5,520,998	lbs. 313 1,049 426 228 232 231 99 50 100	number. 27,920,180 27,973,908 35,232,399 35,549,722 33,893,695 32,699,019 29,244,981 30,794,864 29,595,805 27,657,963	number. 126,883,970 125,372,900 143,374,400 109,686,950 152,908,600 99,771,650 87,896,350 77,840,200 70,135,500 70,314,868			

TOBACCO FACTORIES, 1917-18 to 1926-27.

mitts.

There were twenty-seven woollen mills working in 1926-27, Wooilen and the number of persons employed therein was 6,717, of whom seventeen were working proprietors. The wages paid amounted to £1,012,566, and the approximate value of the machinery, plant, land and buildings was £3,302,890. The value of the raw materials used during the year was £2,288,556, and that of the goods manufactured in the same period, £4,581,445. The quantities of wool and cotton used and of goods manufactured in each of the last ten years were as follows :---

WOOLLEN MILLS, 1917-18 to 1926-27.

	Quantity	Quantity					
Year. of of Cotton Wool Used.	Tweed and Cloth.	Flannel.	Blankets.	Shawls and Rugs.	- Value of Output.		
	lbs. 4,332,420 4,614,585 7,285,570 7,702,055 8,015,650 9,640,760 7,936,456 8,782,203 10,679,901 14,510,421	lbs. 832,400 513,800 578,542 553,282 586,836 621,490 848,812 544,364 285,482 1,013,077	yards. 1,429,050 1,429,200 2,212,202 2,509,198 1,872,512 1,714,460 1,927,298 1,898,647 3,438,142 4,854,389	yards. 5,411,990 5,047,490 3,667,816 4,035,298 5,759,987 6,622,350 6,095,442 3,594,427 3,618,260 6,213,860	pairs. 214,410 191,130 165,794 224,745 297,700 31±,803 377,354 319,026 250,943 327,113	51,598 71,073 115,443 130,094 93,766	£ 1,036,081 1,126,119 1,976,428 2,397,610 2,482,761 3,264,025 3,561,480 3,433,231 3,976,224 4,581,445

During the period 1917-18 to 1926-27 the value of the output of woollen mills increased by 342 per cent. Steady progress is indicated by the above table, the year 1926-27 having shown a large increase in output of all articles of manufacture.

Boot factories. The development which has taken place in the boot industry in recent years is exhibited in the following tables :---

Year.		Year.		Year.		Year.		Persons Employed.	Value of Machinery, Plant, Land, and Buildings.	Wages Paid.
					£	£				
1917-18	••		231	8,565	577,125	858,874				
1918-19	••		238	8,961	627,770	987.203				
1919-20			264	10,357	716,305	1,252,004				
192021			304	9,212	927,310	1,208,760				
1921 - 22		· · ·]	334	11,714	1,130,425	1,760,589				
1922 - 23			371	12,434	1,338,555	1,922,345				
192324			400	12,434	1,529,615	1,941,075				
1924 - 25			430	12,099	1,748,815	2,054,563*				
1925-26	••		431	12,262	1,764,685	2,088,244*				
1926 - 27	•••		204	12,192	1,470,440	2.140.054*				

BOOT FACTORIES, 1917-18 TO 1926-27.

* Including amounts drawn by working proprietors.

For the year 1926-27 the boot repair factories have been excluded from this classification. To enable a comparison to be made the following figures relating to boot repair establishments are given :---

Year.	Number of Factories.	Persons Employed.	Value of Machinery Piant, Land, and Buildings.	Wages Paid.
1926 - 27	272	536	£414,350	£101,7 3 8

OUTPUT OF BOOT FACTORIES, 1917-18 TO 1926-27.

	Goods Ma	nufactured—			
Year.	Boots and Shoes.	Slippers.*	Value of Materials Used.	Value of Output.	
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	pairs. 6,049,510 6,073,117 6,774,267 5,447,504 7,571,231 7,591,946 7,063,385 7,496,004 7,660,638 8,147,282	pairs. 205,614 243,383 552,652 559,213 903,992 851,289 1,107,257 1,167,581 1,724,418 2,100,228	£ 2,093,803 2,563,423 3,909,570 2,911,852 3,109,863 3,059,769 2,879,194 2,913,105 2,995,490 3,006,256†	£ 3,442,302 4,040,550 5,996,639 4,964,462 6,043,172 6,157,132 5,888,699 5,832,625 6,045,226 6,105,072†	

* Includes canvas shoes and house-boots.

† The value of materials used in boot repairing was £74,663, and the value of output, £379,620.

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

but exclusive of boots and shoes, was £15,517,404 in 1926-27, as compared with £7,674,705 in 1917-18. During the period 1917-18 to 1926-27 the persons employed increased by 21 per cent., the wages paid by 130 per cent., the value of materials used by 151 per cent., and the value of the output by 102 per cent. Particulars of the industry for each of the last ten years are as follows :—

DRESS (EXCLUSIVE OF BOOT) FACTORIES, 1917-18 to 1926-27.

Year. Number of Factories.	Nu	mber of Pe Employed		Amount of Wages	Value of Materials	Value of	
	Males.	Females.	Total.	Paid.	Used.	Output.	
					f	£	£ .
1917-18	1,209	3,730	24,630	28,360	1,788,136	4.512.648	7,674.70
918-19	1,210	3,776	23,505	27.281	1.915.096	5,205,460	8.599.60
1919-20	1,252	4,123	25,490	29,613	2,490,549	6,628,276	11,407,32
920-21	1,346	4,383	25,980	30,363	2,872,171	7.804.264	12,994,01
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

* Including amounts drawn by working proprietors.

Electric light and sower works. (

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

ELECTRIC LIGHT AND POWER WORKS, 1917-18 to 1926-27.

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.	£
1917-18	75	48,526	1,889,550	1,167	183,948	79,486,000	760,117
1918-19	77	48,777	2,135,310	1,149	190,280	83,778,000	835.19
1919-20	78	49,241	2,632,665	1.215	217,995	100,838,000	953,039
1920-21	79	54,189	2,660.945	1,242	283.309	115,105,000	1.131.33
1921-22	84	57.481	3,166,750	1,350	334,805	136,021,000	1.407.26
1922-23	88	72.106	4.042.910	1.451	377.048	157,728,000	1,614,13
1923-24	90	154,622	5,864,065	1.752	462.172	405,108,000	2,176,55
192425	84	205.777	7.900.455	2.011	549.849	413,556,000	2,382,58
1925-26	83	188.342	5.035.460	1.149	338,807	460,710,000	1,648,11
1926-27	86	219,626	5,144,035	1,120	323.286	580,221,000	1.768.514

The decrease in the number of persons and the value of machinery and plant and output in electric supply undertakings for the last two 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.

The particulars relating to the power houses at Newport under the control of the Victorian Railways Commissioners and the State Electricity Commission are included for the last four years in the figures which appear in the above table. This largely accounts for the seeming discrepancy between the quantity and value of the output for the years mentioned. The quantity of electricity generated in these power houses in 1926-27 was 241,534,000 units; the value of this has been estimated at bulk rates by the respective departments.

STATE ELECTRICITY COMMISSION ACTS 1918 AND 1920.

When it was first appointed in 1919, the operations of the State Electricity Commission of Victoria were carried on under the provisions of the *Electricity Commissioners'* Act 1918, which provided for the appointment by the Governor in Council of three Commissioners to administer the Act. By an amending Act of the 24th December, 1920, the name of the Act was changed to the State Electricity Commission Act 1918, and provision was made, inter alia, for the appointment of four Commissioners for a period of seven years, one of whom would devote the whole of his time to the Commission's works as permanent chairman. In addition to the Acts mentioned above, the Commission administers the Electric Light and Power Act 1915, the provisions of which give it control over all electrical undertakings in the State.

The duties of the Commission include the following :---

- (1) To inquire into and report to the Government as to the steps which should be taken to co-ordinate and concentrate all electrical undertakings in Victoria, and to secure the efficient inter-connexion of such undertakings by the adoption of the necessary standards of plant, pressure, &c.
- (2) To encourage and promote the use of electricity for industrial and manufacturing purposes, and to report to the Government on the prospects of establishing new industries in Victoria requiring large quantities of electrical energy.
- (3) To carry out investigations of coal deposits or of water power in connexion with the generation of electricity.

The Commission is vested with the following powers in relation to electrical undertakings :---

- (1) To erect and operate electrical undertakings.
- (2) To supply electricity in bulk to any corporation.
- (3) To supply electricity to any person outside any area in which there is an existing undertaking.

- (4) To carry on any business associated with an electric undertaking.
- (5) To make regulations as to precautions to be adopted in the use of electricity, and to arrange for the licensing of electric wiremen.

Authority is also given to the Commission to establish and operate State Coal Mines.

The Commission has complete control over all officers and employees required for the carrying out of the provisions of the Act.

In accordance with the instructions contained in the Act, the Commission has constructed a coal winning plant and an electric generating station in the neighbourhood of Morwell, for the purpose of utilizing the practically unlimited supplies of brown coal in that area. The scheme provides for the winning of coal on the open cut system by means of mechanical appliances, for the erection of a power station close to the site of the open cut, having an initial capacity of 50,000 kilowatts, with provision for triplication, and for the erection at Yarraville of a receiving station with the necessary switch and transforming gear. Both stations are now complete and in operation, as is also the initial installation of briquetting plant at Yallourn, which produces, approximately, 100,000 tons of brown coal briquettes annually.

The Commission has also installed at Newport a station with an initial capacity of 15,000 kilowatts. This station, which was built mainly to meet the urgent need for electricity pending the completion of the Yallourn plant, is now regarded as a peak load station.

A transmission line has been built from Geelong, stretching through the western and south-western district of Victoria to the city of Warrnambool (a distance of 117 miles), giving supply to the latter town and to the following towns *en route*:—Colac, Camperdown, Terang, Mortlake, Warrion, Beeac, Cobden, Noorat, Alvie, Allansford, Winchelsea, Cororooke, Pomborneit, Kolora, Bellerine, Moolap, Larpent, Nalangil, Ryan's Lane, Wool Wool and Birregurra.

Supply has also been given to the towns of Point Lonsdale, Queenscliff, Portarlington, Drysdale, Ocean Grove, and Barwon Heads, by another transmission line from Geelong.

The energy is generated at the Melbourne Electric Supply Company's Power House at Geelong under an agreement between that body and the Electricity Commission until such time as energy is available from the Commission's main power station at Yallourn.

The Commission is supplying energy in bulk to the Melbourne City Council, the Melbourne Electric Supply Company, the Melbourne Harbor Trust, the municipalities of Box Hill, Brunswick, Coburg, Williamstown, Footscray, Heidelberg, Northcote, Port Melbourne, Preston, Braybrook, and Lilydale, and has built a subsidiary line, operating at 22,000 volts which encircles the eastern half of the outer metropolitan area, passing through and giving service to Ringwood, Dandenong, Frankston, and the Mornington Peninsula. It has also taken over the supply and retail distribution of energy to Dandenong, Werribee, Altona, Sunbury, Glenroy, Pascoe Vale, and Essendon— Flemington. At the 30th June, 1927, the Commission was supplying, either in retail or in bulk, over 100 towns or centres throughout Victoria.

The Commission is empowered to develop hydro-electric resources, and with this object to maintain survey parties constantly in the field for the purpose of obtaining data relative to stream flow, volume, &c.

The building of hydro-power stations at Royston, Rubicon, Rubicon A fifth station, at Rubicon Falls, Lower and Sugarloaf is proceeding. of 400 B.H.P., is complete. It supplies energy for the construction of the scheme, as well as supplying power and light to Thornton and farms in the district. A sixth station, at Snobbs Creek, is included in the scheme, but its construction is being deferred for the present. · All will feed into a common sub-station about eight miles from Sugarloaf. The total capacity of hydraulic turbines to be installed in these stations is 40,250 brake horse-power. All stations will be in operation in 1928. The construction of the transmission line from Sugarloaf to Thomastown, and from Sugarloaf to Albury and Corowa (New South Wales), via Benalla and Wangaratta, is complete, and, pending completion of the hydro-electric plant, supply is given to the north-eastern portions of the State over the transmission line from Yallourn, via Yarraville and Thomastown terminal stations. This line also serves Echuca, Shepparton, Wahgunyah, Yarrawonga, Springhurst, Mooroopna, Tatura, Merrigum, Benalla, Chiltern, Tongala, Rutherglen and Kyabram.

Gasworks. Particulars in regard to gasworks are given below for each of the last ten years, but the figures for the last two years are not comparable with those of preceding years owing to the exclusion of all particulars relating to distribution. Prior to 1925–26 the published figures included both manufacture and distribution.

Year.	Number of Works.	Persons Employed.	Wages Paid.	Coal Used.	Gas Made.	Coke Produced.	Value of Output.
			£	tons.	cubic feet.	tons.	£
1917-18	47	2,089	375.181	318,560	4,505,847,000	200,660	1,263,030
1918-19	46	2,270	420,597	353,584	4,904,351,000	220,287	1,373,603
1919-20	45	2.267	472,855	331.149	4,592,305,000	206,245	1,395,320
1920-21	45	2,213	576,515	+ 339,250	4,499,088,000	216,771	1,608,999
1921-22	45	2,309	609,600	383,092	5,151,380,000	239,755	1,953,936
1922-23	45	2,444	639,954	402,537	5,443,993,000	260,526	1,941,808
1923-24	45	2,561	699,173	410,517	5,407,962,000	259,080	2,098,571
1924-25	45	2,464	668,006	406,868	5,608,313,000	226,436	2,087,358
1925-26	35	933	258,764	422,783	5,801,335,000	273,773	1,433,090
1926-27	33	959	264,918	442,391	5,855,817,000	283,998	1,967,485

GASWORKS, 1917-18 to 1926-27.

Oil was used as well as coal in the manufacture of gas, the number of gallons consumed each year being 396,717 in 1917-18, 355,933 in 1918-19, 343,764 in 1919-20, 360,876 in 1920-21, 600,188 in 1921-22, 248,481 in 1922-23, 223,986 in 1923-24, 175,127 in 1924-25, 114,947 in 1925-26, and 88,601 in 1926-27.

Number and Location of Factories. The facilities afforded in the metropolitan area have had the effect of bringing within that area the more important of the manufacturing industries. The distribution

of factories by classes between the metropolis and the remainder of the State, for 1917-18 and each of the last three years, is exhibited in the following statement :---

	Number of Factories.								
Class of Industry.		Metr	opolis.	. 1	Remainder of State.				
 If the point of an If point of a If point of a 	1917-18	1924-25,	1925-26.	192627.	1917–18	1924-25.	1925-26.	1926+27.	
Treating raw material,									
product of pasteral		2		4	r				
DUISNIES, &C.	85	83	80	83	225	191	187	160	
Treating oils and fats						-01			
animal, vegetable,		. .		1	1		j .	í í	
&e	16	18	20	21	10	9	10	10	
Processes in stone,				1		1			
clay, glass, &c.	95	151	152	168	77	110	112	109	
Working in wood	205	356	364	336	248	349	330	342	
Metal works, machin-								1	
ery, åc.	520	707	721	807	197	216	229	216	
Connected with food	237	0.0	000				448		
and drink, &c Clothing and textile	237	267	268	267	412	454	. 448	465	
fabrics, &c.	1,188	1,627	1,629	1 710	300	373	364	368	
Books, paper, print-	1,100	1,044	1,029	1,719	000	5/5	504	-980	
ing, &c	294	380	39.3	410	157	176	171	172	
Musical instruments,		000	000	410	10,	1.0	111	1.4	
åc.	11	19	19	19	1.1	1	·,		
Arms and explosives	8	8	7	7	4	ĩ			
Vehicles, saddlery,	Ĩ					•	1. · ·		
harness, de.	256	427	449	468	305	419	423	481	
Ship and boat build-	1			1 10				1	
ing and repairing.	11	10	10	11	2	1	1	2	
Furniture, upholstery					i. – :				
and bedding	249	387	390	448	25	38	39	48	
Drugs, chemicals, and			i .		ľ.			1	
by-products	64	93	89	92	39	- 38	28	22	
Surgical and other					1				
scientific appliances	29	35	. 36	40	1	2	3.	4	
Jewellery, time-pieces and plated-ware	-			·					
and plated-ware	87	106	109	112	5	5	5	5	
Heat, light, and power Rubber and Leuther-	55	102	109	26	107	120	107	103	
Ware	41	56	56	1. 100	1			24	
Minor wares, n.e.i.	41	56 75	56	106	3	3	2		
		707	- 64	18	3	12	16	• • • •	
Total	3,510	4,907	4,985	5,158	2,117	2,518	2,476	2.532	
	2010	∞,8 01		0,100	67 E.L.4	4,010	. 2,410	4,004	

NUMBER AND LOCATION OF FACTORIES.

Since 1917-18 the number of factories in the State has increased by 2,063, the greatest numerical increase in the classes being that

of the clothing and textile factories, of which there were 599 more in 1926-27 than in 1917-18.

Employment in Increases in the next statement :---

Class of Industry.	1917-18.	1923-24.	1924-25.	192526.	1926-27.
Treating raw materials, product					
of pastoral pursuits, &c.	3,632	4.276	4,077	4,209	4,112
Treating oils and fats, animal,	0,002				
vegetable, &c	883	920	950	891	941
Processes in stone, clay, glass,					
&c	3,921	6,661	6,181	5,975	6,117
Working in wood	6,948	10,825	10,198	9,685	9,134
Metal works, machinery, &c	16,183	24,978	24,464	25,663	28,563
Connected with food and drink,	1.1.1.1				
åc	17,100	19,199	19,344	18,813	18,881
Clothing and textile fabrics, &c.	40,312	50,248	49,633	50,188	55,101
Books, paper, printing, &c.	8,940	12,098	11,703	11,374	11,720
Musical instruments, &c	229	498	467	529	532
Arms and explosives	1,030	423	428	471	537
Vehicles, saddlery, harness, &c.	4,654	7,028	6,984	7,386	8,236
Ship and boat building and					
repairing	653	392	432	388	388
Furniture, bedding, and uphol-	1				
stery	2,867	4,629	4,782	4,527	5,460
Drugs, chemicals, and by-	1				
products	2,207	2,699	2,774	2,713	2,811
Surgical and other scientific					
appliances	149	195	236	230	269
Jewellery, time-pieces, and plated-					
ware	1.028	1,110	1,069	1,097	1,044
Heat, light, and power	4,146	5,879	6,311	4,186	2,984
Rubber and Leatherware, n.e.i	750	1,071	940	919	4,496
Minor wares, n.e.i.	2,609	3,033	3,185	3,715	313
Total	118,241	156,162	154,158	152,959	161,639
			1		

AVERAGE NUMBER OF PERSONS EMPLOYED IN FACTORIES.

The total increase in the number of hands employed during the period covered by the above table was 43,398, which represented an advance of about 36 per cent. The greatest development had taken place in clothing factories, vehicles, &c., and metal works, which showed increases of 14,789, 3,582, and 12,380 respectively in the number of persons employed in 1926-27 as compared with the number in 1917-18 The apparent increase in rubber and leatherware is due to an alteration in classification by which rubber goods have been transferred from minor wares. An examination of the figures relating to the number factories. of factories in 1917-18 and in 1926-27 shows that percentage increases were more pronounced in the smallest sized factories and in those employing from 51 to 100 and from 21 to 50 hands. In the case of persons employed, the largest percentage increases were in the groups under 4 hands, 51 to 100 hands, and over 100 hands respectively. Particulars of factories of different sizes in 1917-18 and 1926-27 are given in the next two tables :--

FACTORIES ACCORDING TO NUMBER OF HANDS EMPLOYED.

Size of Factory.	Numi	per of Factorie	s.	Average Number of Persons Employed.			
and a state of the state A state of the stat	1917-18.	1926-27.	Increase.	1917–18.	1926-27.	Increase	
		<u>2</u>				1	
Under 4 hands 4 " " 5 to 10 " 11 to 20 " 21 to 50 " 51 to 100 " Over 100 "	1,213 615 1,810 881 669 243 196	2,051 811 2,215 1,125 900 340 248	$\begin{array}{c} \% \\ 69 \cdot 08 \\ 31 \cdot 87 \\ 22 \cdot 37 \\ 27 \cdot 69 \\ 34 \cdot 52 \\ 39 \cdot 92 \\ 26 \cdot 53 \end{array}$	2,738 2,460 12,472 12,804 21,166 16,559 50,042	4,315 3,244 15,465 16,479 28,774 24,177 69,185	% 57·59 31·87 23·99 28·70 35·94 46·00 38·25	
Total	5,627	7,690	36.66	118,241	161,639	36.70	

PROPORTION OF FACTORIES OF DIFFERENT SIZES.

			Percentag	e to Total.	
Size of Factory.	A.	Facto	ries.	Persons	Employed.
and shaff a gran of a start of a		1917-18.	1926-27.	1917-18.	1926-27.
Under 4 hands		21.56	26.7	2.32	0.7
4 "		10.93	10.6	2.32	2.7 2.0
5 to 10 "		32.17	28.8	10.55	9.6
1 to 20 "	•••	15.65	14.6	10.83	10.2
21 to 50 "	•••	11.89	11.7	17.90	17.8
51 to 100 "	••	4.32	4.4	14.00	14.9
Over 100 "	••	3.48	3.2	$42 \cdot 32$	42.8
Total	••	100.00	100.00	100.00	100.00

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

OCCUPATIONS OF PERSONS EMPLOYED IN FACTORIES.

Occupations.	1921-22.	1922-23.	1923-24.	1924-25	1925–26.	1926-27.
Working proprietors Managers, overseers Accountants, clerks	6,904 4,454 6,307	7,296 4,673 6,582	7,500 4,929 6,966	7,255 5,043 6,827	7,254 5,213 6,034	7,334 5,580 6,519
Engine-drivers, firemen Workers in factory or works Outworkers	2,156 119,598 1,476	2,106 126,791 1,228	2,197 129,617 870	2,142 128,706 728	2,065 128,948 736	2,036 137,025 592
Carters, messengers Others	3,115 866	3,316 633	3,378 705	2,766 691	2,394 315 152,959	2,065 488 161.639
Total	144,876	152,625	156,162	154,158	152,959	101,039

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 1917-18 to 1926-27, were as follows:--

EMPLOYMENT OF MALES AND FEMALES IN FACTORIES.

Males.		ales.	Fe	males.	Total.		
Year.	-	Number.	Average per 10,000 of Male Population.	Number.	Average per 10,000 of Female Population.	Number.	Average per 10,000 of Total Population.
1917–18	•••	76,654	1.142	41.587	562	118,241	838
1918-19		81,357	1.188	40,992	550	122,349	855
1919-20		92,101	1,243	44,421	588	136,522	913
1920-21	••	96,379	1,277	44,364	580	140,743	926
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

Males formed 64.8 per cent. in 1917-18 and 67.4 per cent. in 1926-27 of the total persons employed. The increase during the period 1917-18 to 1926-27 in the number of males employed was 32,315, or 42.2 per cent., and in the number of females employed, 11,083, or 26.7 per cent.

Of the total females in factories 80.3 per cent. are engaged in the textile and clothing industries, and 10.6 per cent. in the preparation of food and drink. The extent of female employment in certain industries is shown in the next table :--

	Number	Employed.	
Industry.	Males.	Females.	Females per 100 Males.
	-	-	
Batmeal , &c	412	374	90.77
Biscuit .	769	560	72.82
Jam, pickle, and sauce	1.673	931	55.64
Confectionery	1,927	1,985	103.01
Fobacco, &c	1,090	611	56.05
Woollen mills	2,972	3,745	126.00
Chathing, tailoring, &c.	2,099	7,083	337.44
Dressmaking, millinery	459	8,361	1.821.57
Underclothing, shirts, ties, &c.	580	6,353	1.095.34
Hats, caps, &c	594	1.151	193.77
Hosiery	1.100	5,018	456.18
Waterproof clothing	80	239	298.75
Fur	241	378	156.84
Boots and shoes	6,595	5,597	84 86
Printing, &c.	6.324	1.673	26.45
Bookbinding, &c	706	661	85.12
Paper making, Paper bag, &c.	836	1.001	119-73
Sail, tent, rope, twine	639	488	76.36
Themicals	719	698	97.08
Ammunition	323	214	66.25
Uphodstery, bedding, &c	734	427	58.17
Match	177	433	244.63
Fancy leather	422	384	90.99
Rubber goods	2,816	743	26.38
All other factories	74,682	3,622	4.85
Total	108,969	52,670	48.33

FEMALE EMPLOYMENT IN FACTORIES, 1926-27.

A favorable feature of factory statistics has been in tactories. Of the male and female employees, boys and girls under 16 constituted 4.46 and 7.77 per cent. respectively in 1926-27, as against 4.45 and 5.97 per cent, in 1917-18. The number of children

employed in factories and their proportions to the total employees are given in the subjoined table for the years 1917-18 to 1926-27:---

					Propor	rtion per cent	t. of—
Year.		Boys under 16.	Girls under 16.	Total Children.	Boys to Male Emptoyees.	Girls to Female Employees.	Children to Total Employees
1917–18		3,195	2.447	5,642	4.45	5.97	5.00
1918-19		3,137	2,389	5,526	4.15	5+90	4.73
1919-20		3,721	2,872	6,593	4.04	6 47	4.83
1920-21		3,715	2,798	6,513	4.11	6.39	4.86
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		4.567	4,041	8,608	4.46	7.77	5.58

CHILDREN EMPLOYED IN FACTORIES.

Machinery in factories. 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 1917-18 to 1926-27 :---

Year	•	Number of Factories equipped with Machinery.	Value of Machinery and Plant.	Horse-p ower of Engines.
			£	· · · · · · · · · · · · · · · · · · ·
1917-18 .		4,371	12,612,797	149,095
1918-19 .		4,470	13,645,220	153,408
1919-20 .		4,737	15,846,935	166,803
1920-21 .	• • • •	5,161	18,179,385	182,143
1921-22 .		5,473	21,182,110	191,881
1922-23 .		5,762	23,994,715	216,427
1923-24 .		6,030	28,223,915	314,561
1924-25		6,168	32,563,815	374,064
1925-26 .		6,321	30,549,130	367,318
1926-27		6,637	31,580,350	414,992

MACHINERY IN FACTORIES.

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 first portion, usually under the power which is principally used. The second portion shows the total horse-power of engines used.

		Number of Factories using					
Year.		Steam.	Gas.	Electricity.	Oil.	Water, Wind, or Horses.	Manual Labour.
1917-18 1918-19 1919-20 1920-21 1921-22 1922-23 1923-24 1924-25 1925-26 1925-26	•••	$\begin{array}{c} 896\\ 875\\ 910\\ 941\\ 935\\ 910\\ 885\\ 812\\ 736\\ 678\\ \end{array}$	784 782 761 705 666 655 540 476 413 334	$\begin{array}{c} 2,365\\ 2,481\\ 2,712\\ 3,128\\ 3,474\\ 3,795\\ 4,174\\ 4,448\\ 4,709\\ 5,141\end{array}$	285 297 315 360 364 372 402 403 432 467	41 35 29 27 34 30 29 29 29 31 17	1,256 1,250 1,301 1,371 1,280 1,334 1,259 1,257 1,140 1,053

POWER USED IN FACTORIES, 1917-18 to 1926-27.

ear.	1. ¹ .	Actual Horse-power of Engines.				
·		Steam.	Gas.	Electricity.	Oil.	Total.
-	•••	89,561	19,045	38,246	2,243	149,095
••	••	95,747	19,183	48,814	3,059	153,408 166,803
•		106,882	19,327	62,663	3,009	182,14 3 191,881
•		195,744	18,394	95,340	5,083	216,427 314,561
		235,290 235,872 268,061	17,869 15,422 13,548	117,525 107,812 123,359	5,380 8,212 10,024	374,064 367,318 414,992
	ear.	· · · · · · · · · · · · · · · · · · ·	Steam.	$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	Steam. Gas. Electricity. $89,561$ $19,045$ $38,246$ $91,245$ $18,929$ $40,791$ $95,747$ $19,183$ $48,814$ $103,048$ $19,331$ $56,602$ $106,882$ $19,327$ $62,663$ $112,547$ $18,968$ $81,679$ $195,744$ $18,394$ $95,340$ $233,290$ $17,869$ $117,525$ $235,872$ $15,422$ $107,812$	Steam. Gas. Electricity. Oil. $89,561$ $19,045$ $38,246$ $2,243$ $91,245$ $18,929$ $40,791$ $2,443$ $95,747$ $19,183$ $48,814$ $3,059$ $103,048$ $19,331$ $56,602$ $3,162$ $106,882$ $19,327$ $62,663$ $3,009$ $112,547$ $18,968$ $81,679$ $3,233$ $195,744$ $18,394$ $95,340$ $5,083$ $233,290$ $17,689$ $117,525$ $5,380$ $235,872$ $15,422$ $107,812$ $8,212$

Although steam is the principal motive power, and was used to supply 65 per cent. of the total mechanical power employed in factories in 1926-27, a remarkable development is shown in the use of electricity, which in 1917-18 was used by 2,365, and in 1926-27 by 5,141 factories, the actual horse-power increasing from 38,246 to 123,359 in the same period.

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.

$\begin{tabular}{ c c c c c c c c c c c c c c c c c c c$	Females. £ 2,170,144	Wages paid.
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$		
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	2,340,213 2,948,132 3,9948,132 3,991,553 4,353,680 4,453,982 4,464,463 5,194,577 \pounds s. d. 55,100 160 19 070 175 82 511 94 165 997 71 94 165 1907 100 194 100 194 1000 100 100	14,080,403 17,702,173 21,377,216 23,846,495 25,547,192 27,472,084 29,057,052 29,329,400 31,822,589 £ s. d. 110 15 4

* These figures are based on numbers of persons employed and the wages, etc., paid to all persons employed, excluding working proprietors.

The particulars appearing in the above table reveal continued increases from year to year in the average earnings of all groups. In the average wage of all employees, the largest increase was from the year 1919-20 to 1920-21. The figures for the year 1926-27 show an advance of £3 17s. 8d. in the average wage paid per employee.

The average wage for 1926–27 (£193 14s. 1d.) 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 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.

9354.-32

the cost of production and the value of the output in the cost of production each class of manufacturing industry during the year 1926-27 are given in the subjoined statement :---

Cost of-Fuel, Value of Class of Industry. Light, Salaries Output. Raw and Wages Materials and Power Paid. Used. Used. £ £ £ £ Treating raw material, product 6.451.9894,666,417 109,597 944.589 of pastoral pursuits, &c. Treating oils and fats, animal, 937.064 55.442206,946 1,540,844 vegetable, &c. Processes in stone, clay, glass, 1,453,821 4.084,161 562.891 1,006,134 &c. 2,082,581 5,378,947 51,446 Working in wood 2,313,206 6,771,497 17,692,908 7,607,605 409,105 Metal works, machinery, &c. Connected with food and drink, 36,071,851 26.121.287 616.644 4.044.136 &c. Clothing and textile fabrics, 310,550 7,971,729 27,591,787 14,660,873 &c. 120,302 2,583,871 7,091,237 Books, paper, printing, &c. .. 2,930,759 337,548 2,269 124,610 Musical instruments, &c. 150,304 . . 440,722 17,872 118.442 227.946 Arms and explosives - -3,590,428 57,107 1,716,581 Vehicles, saddlery, harness, &c. 1,151,641 Ship and boat building and 37,827 5.68692.795167,572repairing Furniture. upholstery, and 1,077,740 3.200.093 1,529,254 32,301 bedding . . Drugs, chemicals, and by-3,285,676 1.820.540 72.042597,554 products Surgical and other scientific 38,681 1,530 51.558 119,518 instruments Jewellery, time-pieces, \mathbf{and} 547,052 plated-ware 225,417 7,598 214,018 • • 765,593 842,851 5,066,231 Heat, light, and power 1,694,844 116.270 955,539 4,560,628 2,599,740 Rubber and leatherware, n.e.i. 178,759 945 48.98997,396 Minor wares, n.e.i. .. 3,392,448 31,822,589 127,397,951 Total 69,816,935

FACTORY COSTS AND OUTPUT, 1926-27.

The difference between the sum of the first three 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, 1926-27.

	Percent	age of Cost of Pro	s, &c., to To oduction.	tal Value
Class of Industry.	Materials.	Fuel, Light, &c.	Wages.	All other Expendi- ture, Interest, and Profit.
Treating raw material, product of	%	%	%	%
pastoral pursuits, &c Treating oils and fats, animal, vege-	72.3	1.7	14.7	11.3
table, &c.	60.8	3.6	13.4	$22 \cdot 2$
Processes in stone, clay, glass, &c.	24.6	13.8	35.6	26.0
working in wood	43.0	1.0	38.7	17.3
Metal works, machinery, &c.	43.0	$\overline{2}\cdot \overline{3}$	38.3	16.4
Connected with food and drink, &c	$72 \cdot 4$	1.7	$11 \cdot 2$	14.7
Clothing and textile fabrics, &c.	$53 \cdot 1$	1.1	28.9	16.9
Books, paper, printing, &c.	41.3	1.7	36.4	20.6
Musical instruments, &c.	44.5	0.7	36.9	17.9
Arms and explosives	51.7	4.0	26.9	17.4
Vehicles, saddlery, harness, &c.	$32 \cdot 1$	1.6	47.8	18.5
Ship and boat building and repairing	$22 \cdot 6$	3.4	55.4	18.6
Furniture, upholstery, and bedding	47.8	1.0	33.7	17.5
Drugs, chemicals, and by products	55.4	$2 \cdot 2$	18.2	24.2
Surgical and other scientific instru-				
ments .	$32 \cdot 4$	1.3	43.1	$23 \cdot 2$
Jewellery, time-pieces, and plated-			-0	20 2
ware	41.2	1.4	39.1	18.3
Heat, light, and power	33.4	16.7	15.1	34.8
Rubber and Leatherware, n.e.i.	57.0	2.5	21.0	19.5
Minor wares, n.e.i.	$54 \cdot 5$	•5	27.4	17.6
Total	54.8	2.7	25.0	17.5

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 brickworks, &c., the sum paid in wages represents 36 per cent. and the cost of raw materials 25 per cent. of the value of the finished article, whilst in the industries connected with food and drink the expenditure on wages amounts to 11 per cent. and that on raw materials to 72 per cent. of the value of the output. Gest of In the next table the cost of production, the value of production, the output of factories, and the balance available for 1917-18 to profit and miscellaneous expenses are compared for the years 1917-18 to 1926-27 :--

			Cost of P	roduction.		
Year.		Materials.	Fuel, Light, and Power.	Salaries and Wages.	All other Expenditure, Interest, and Profit.	Total Value of Output.
1917-18 1918-19 1919-20 1920-21 1921-22 1922-23 1923-24 1924-25 1925-26 1926-27	••• •• •• •• •• •• •• ••	£ 42,133,636 52,098,737 65,563,104 65,401,425 60,352,561 62,658,163 62,217,874 65,205,233 67,164,445 69,816,935	£ 1,248,186 1,457,124 1,723,220 2,184,096 2,329,760 2,443,681 2,803,239 2,964,635 3,156,382 3,392,448	£ 12,502,601 14,080,403 17,702,173 21,377,216 23,846,495 25,547,192 27,472,084 29,057,052 29,329,400 31,822,589	£ 11,182,292 12,559,413 16,486,866 17,045,557 19,714,365 20,637,307 21,428,730 20,950,478 20,336,212 22,365,979	£ 67,066,715 80,195,677 101,475,363 106,008,294 106,243,181 111,286,343 113,921,927 118,177,398 119,986,439 127,397,951

COST OF PRODUCTION AND VALUE OF OUTPUT OF FACTORIES, 1917-18 to 1926-27.

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

PROPORTION OF OUTLAY TO OUTPUT OF FACTORIES, 1917-18 to 1926-27.

]	Proportion of O	utlay to Out	put.	
Year.	Materials.	Fuel, Light, and Power.	Salaries and Wages.	Other Expenditure, Interest, and Profit.	Total.
$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{r} 64.6\\ 61.7\\ 56.8\\ 56.3\\ 54.6\\ 55.2\\ 56.0\\ 54.8\end{array} $	$ \begin{array}{c} & & & \\ & & & 1 \cdot 9 \\ & 1 \cdot 8 \\ & 1 \cdot 7 \\ & 2 \cdot 0 \\ & 2 \cdot 2 \\ & 2 \cdot 2 \\ & 2 \cdot 2 \\ & 2 \cdot 5 \\ & 2 \cdot 5 \\ & 2 \cdot 5 \\ & 2 \cdot 6 \\ & 2 \cdot 7 \\ \end{array} $	$\begin{array}{c} 9''_{6} \\ 18 \cdot 6 \\ 17 \cdot 5 \\ 17 \cdot 4 \\ 20 \cdot 2 \\ 22 \cdot 4 \\ 23 \cdot 0 \\ 24 \cdot 1 \\ 24 \cdot 6 \\ 24 \cdot 4 \\ 25 \cdot 0 \end{array}$	$\begin{array}{c} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \$	% 100 • 0 100 • 0

The apparent decrease for 1924-25, 1925-26, and 1926-27 in the percentage available for profit and miscellaneous expenses, as shown in the last table, is due to the fact that the amount of salaries and wages includes for those years the sums drawn regularly by working proprietors amounting respectively to $\pounds 1,612,911$, $\pounds 1,671,647$, and $\pounds 1,933,032$.

The ratio of salaries and wages to the value of the output of factories was $24 \cdot 2$ per cent. on the average of the last five years, as against 19.5 per cent. in the period 1917-18 to 1921-22. The cost of materials was $55 \cdot 4$ per cent. of the value of output in the period 1922-23 to 1926-27, as compared with 61.9 per cent. in the years 1917-18 to 1921-22. The proportionate outlay on fuel, light, and power was 1.9 per cent. in the former and 2.5 per cent. in the latter period. The balance available for miscellaneous expenses, rent, interest, and manufacturers' profit was £17 17s. 11d. in every £100 of the total output value in the period 1922-23 to 1926-27, as compared with £16 4s. 0d. in the preceding five-year period.

Capital Invested in manifacturing plant and promises. 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 1926-27:---

Class of Industry.	Value of Machinery and Plant.	Value of Land and Buildings.
Treating raw material, product of pastoral pursuits, &c. Treating oils and fats, animal, vegetable, &c. Processes in stone, clay, glass, &c. Working in wood Metal works, machinery, &c. Connected with food and drink, &c. Clothing and textile fabrics, &c. Books, paper, printing, &c. Musical instruments, &c. Arms and explosives. Vehicles, saddlery, harness, &c. Ship and boat building and repairing Furniture, upholstery, and bedding Drugs, chemicals, and by-products Surgical and other scientific instruments Jewellery, time-pieces, and plated-ware Heat, light, and power Rubber and Leatherware, n.e.i.	£ 728,080 309,425 1,378,705 1,242,460 3,805,465 5,864,050 4,445,195 2,793,080 42,115 280,970 666,950 103,635 286,925 826,100 21,695 63,245 7,856,720 839,460	£ 917,570 243,765 1,198,425 1,144,400 4,352,135 5,851,870 6,934,000 2,678,165 171,670 4,37,340 2,417,105 172,870 1,117,775 710,055 79,050 257,615 2,746,220
Minor wares, n.e.i.	26,075	777,960 61,665
Total	31,580,350	32,269,655

MACHINERY, PLANT, LAND AND BUILDINGS USED IN MANUFACTURING INDUSTRIES, 1926-27.

The capital invested in plant, buildings, &c., used in connexion with three classes of industries—food and drink; clothing and textile fabrics; and heat, light and power—amounted, in the year under review, to £33,698,055, 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 1917-18 to 1926-27 :---

MACHINERY, PLANT, LAND AND BUILDINGS USED IN MANUFACTURING INDUSTRIES, 1917-18 to 1926-27.

	Year.					Value of Machinery and Plant.	Value of Land and Buildings.
			. <u></u>			£	£
1917-18			••			12,612,797	12,847,485
1918-19						13,645,220	13,673,515
1919-20						15,846,935	14,957,585
1920-21			••		· • ·	18,179,385	17,313,350
1921-22						21,182,110	19,810,170
1922-23		••				23,994,715	22,428,525
1923-24	••		••			28,223,915	24,972,560
	••	••	• •	••		32,563,815	28,468,160
1924 - 25	••	••	••	••	••		29.847.370
1925-26	••	••		••	••	30,549,130	
1926 - 27	••	••	••	••	••;	31,580,350	32,269,655

It will be seen from these figures that the values of machinery and plant and land and buildings increased by 151 per cent. between 1917-18 and 1926-27.

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.

The large increase shown in the number of accidents since 1919 is mainly attributable to an amendment of the law, which made compulsory the reporting of accidents. Previously, only those of a serious nature were reported.

Year.			Number of Employees.	Number of Accidents.	Percentage of Accidents to Number of Employees.	
1917			97,561	442	•453	
1918			104.242	459	•440	
1919			116,369	362	.311	
1920			116,846	862	•737	
1921			117.633	830	•705	
1922			126,630	787	·621	
1923			128,915	· 1,034	·802	
1923	••	••	129,147	1,052	·814	
1924	••	•••	128,013	996	•778	
1925	••		135,510	1,252	· 924	

ACCIDENTS IN FACTORIES, 1917 TO 1926.

The foregoing tables do not include particulars relating to Manufactures Penal work of various kinds done by the Penal Department at Department Pentridge and the Royal Victorian Institute for the Blind. and Blind Institute, At the former establishment the manufacture of wire netting, clothing, brushware, boots, mats, blankets, flannel, underclothing, bread, and printing are carried on. The estimated value of the output for 1926-27 was £58,837, and of the materials used, £46,036. The articles produced are used principally by Government Depart-The work carried on by the latter is the manufacture of ments. brooms, brushware, wickerware, and coir mats and matting, and gives employment to 144 persons (124 males and 20 females). The value of the work turned out for the period under review was £30,219.

Value of Victorian 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

VALUE OF VICTORIAN PRODUCTION, 1922-23 to 1926-27.

			Value in—		
Produce.	1922-23.	1923-24.	1924-25.	1925-26.	1926-27.
Cultivation.	£	£	£	£	£
Wheat	$\begin{array}{c} 8,031,875\\ 1,416,355\\ 298,792\\ 137,445\\ 205,814\\ 75,553\\ 3,537\\ 1,040,662\\ 189,888\\ 11,800\\ 6,327,338\\ 76,644\\ 512,255\\ 35,600\\ 9\\ 71,793\\ 132,308\\ 555,059\\ \end{array}$	8,189,069 1,455,331 195,545 66,665 223,276 71,173 3,880 701,229 215,444 15,032 5,229,162 66,677 536,855 41,880 45,589 27,420 122,775	$\begin{array}{c} 11,993,546\\ 934,538\\ 258,263\\ 95,743\\ 137,948\\ 53,227\\ 3,886\\ 662,878\\ 200,803\\ 12,340\\ 3,639,496\\ 66,920\\ 497,655\\ 497,655\\ 49,120\\ 45,372\\ 57,867\\ 733,919 \end{array}$	684,320 202,206 87,960 172,822 58,522 2,749 1,309,470 267,793	0 653,201 192,349 103,390 152,055 58,488 2,350 671,678 110,839 15,161 15,161 4,7719,925 47,970 436,205 57,700
Currants Wine Hops Other Crops Fruit grown for sale in orchards and gardens Fruit in private orphorada gard	171,642 171,749 23,195 81,447 1,172,325	57,027 217,713 29,772 104,066 1,193,689	110,099 153,986 53,000 78,848 1,091,508	$\begin{array}{c} 93,972\\ 93,972\\ 177,871\\ 54,193\\ 125,788\\ 1,247,723\\ \end{array}$	182,536 254,184 16,074 109,022
orchards and gar- dens Market Gardens Less Deductions	10,670 493,780 	10,505 810,600 	9,945 731,000 3,535,135	12,070 830,450 - 3,283,560	9,570 887,550 - 4,822,130
Total	21,197,026	19,660,374	18,165,772	13,702,818	15,744,992

Exclusive of area under sown grasses.

VALUE OF VICTORIAN PRODUCTION, 1922-23 TO 1926-27-continued.

Produce.		1	Value in—		
	1922-23.	1923– 24.	1924-25.	1925-26.	1926-27.
Dairying and Pastoral.	£	£	£	£	£
Milk consumed in natural state	1,995,280	2,130,845	1,784,590	2,333,000	2,326,800
Butter made	6,660,600	6,491,310	6,618,240	6,182,120	6,233,400
Cheese made Cream made (not for	163,180	253,795	204,890	227,660	270,620
butter)	127,530	177,090	190,540	184,850	154,880
trated, and Powdered Milk	1,434,720	1,509,400	1,582,915	1,437,660	1,498,060
Cattle	3,384,270	1,413,310	3,538,240	3,707,000	2,330,830
Pigs Sheep (without wool)	1,280,040 3,752,260	1,507,600 2,600,450	1,588,620 4,390,880	1,720,740 3,316,660	1, 3 43, 7 50 2,585,770
Wool	6,380,600	7,695,000	11,440,240	7,082,820	7,876,683
Less Deductions		••	-1,723,178	-1,771,800	-2,340,426
Total	25,178,480	23,778,300	29,615,977	24,420,210	22,280,367
Mining.					
Gold Coal	453,962 695,430	405,245 563,289	285,316 610,671	200,958 762,521	208,778 846,697
Stone from Quarries (in- cluding limestone) Other Metals and	468,468	518,064	530,820	666,765	700,200
Minerals	48,021	45,829	41,848	37,284	124,567
Total	1,665,881	1,532,427	1,468,655	1,667,528	1,880,242
Forest Produce.					
Timber (Forest Saw-			FAR 500	711.970	863,493
mills only) Firewood (estimated)	946,930 927,860	942,480 1,033,700	745,580 1,053,870	1,071,000	888,400
Bark for Tanning	136,830		132,985	129,490	136,906
Total	2,011 ,620	2,106,840	1,932,385	1,912,460	1,888,799
Miscellaneous.					
Honey and Beeswax Poultry production (es-	40,122	45,559	78,981		47,282
timated)	4,315,810		4,443,200		4,819,500 508,340
Rabbits and Hares Fish	266,478 160,151				167,461
Total	4,782,561	·		5,442,610	5,542,583
Total Value of Primary Products	54,835,568	52,183, 895	56,272,940	47,145,626	47,336,988
Manufacturing— Added Value*	46,355,804	49,141,526	45,271,348	3 46,006,461	51,005,430
Grand Total	101,191,372	101,325,421	101,544,294	93,152,087	98,342,413

• 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.

The figures for the last three years in the above table under the headings "Cultivation" and "Dairying and Pastoral" are not strictly comparable with those of previous years owing to certain deductions

(in addition to freight and handling charges) having been made consisting chiefly of cost of bags, cases, seed, manure, spraying material, and produce used in the production of crops in the former, and of hay, bran and pollard, green fodder, and root crops used as fodder in the case of the latter.

Similarly the basis for the calculation of added value in manufacturing has been altered since the year 1923-24. Added value is now obtained by deducting from the total value of output the cost of materials used, fuel and light, tools replaced, repairs to plant, &c., whereas prior to 1924-25 the value of materials used was the only deduction. This explains the apparent decrease under this head for 1924-25.

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

		Value o	f Produce per	head in	
Produce.	1922-23.	1923-24.	1924-25.	1925-26.	1926-27.
Cultivation Dairying and Pastoral Mining	$\begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	£ s. d. 10 19 3 17 17 5 0 17 9 1 3 4 3 1 5	$\begin{array}{c} \pounds \ s. \ d. \\ 8 \ 2 \ 9 \\ 14 \ 10 \ 0 \\ 0 \ 19 \ 10 \\ 1 \ 2 \ 8 \\ 3 \ 4 \ 8 \end{array}$	£ s. d. 9 4 0 13 0 4 1 1 11 1 2 1 3 4 9
Total Primary Production Manufactures	34 9 8 29 3 0	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\begin{array}{rrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrrr$	$\begin{array}{c} 27 & 19 & 11 \\ 27 & 6 & 5 \end{array}$	27 13 1 29 15 11
Grand Total	63 12 8	62 6 9	61 5 7	55 6 4	57 9 0

VALUE OF PRODUCTION PER HEAD OF POPULATION, 1922-23 to 1926-27.