

## CHAPTER XVIII.

## FARMYARD, DAIRY, AND BEE PRODUCTS.

## § 1. Introductory.

1. **General.**—The introduction of cattle into Australia, and the early history of the dairying industry are referred to in some detail in earlier issues of this work (see Official Year Book No. 6, p. 430). It may here be noted that the original stock has been crossed with specially imported stud cattle, while further judicious crossing of strains has resulted in an increased and improved milk supply. In Australia, dairy cattle thrive in the open throughout the year, local climatic conditions demanding no protection other than tree plantations for shelter, and rugging in the coldest weather. Indigenous and imported grasses furnish food during the greater part of the year, and winter fodder, when necessary, is given to the cattle in the fields. With the adoption of scientific methods in the treatment of animals and pasturages and in the processes of manufacture, coupled with effective State supervision, the dairying industry has shown rapid expansion.

2. **Official Supervision of Industry.**—Dairy experts, under the supervision of the various State Agricultural Departments, give instruction in approved methods of production, and inspect animals, buildings, and marketable produce. A high standard of cleanliness, both of personnel and *matériel*, prevails. Financial assistance of a temporary nature is also given, advances made being generally repaid with promptitude.

The export trade is regulated by the terms of the Commonwealth Commerce Act 1905 and regulations thereunder. The provisions of this Act are set out in detail in Official Year Book No. 6, pp. 431-2. It will be sufficient to note here that the true trade description, &c., must be marked on all produce intended for export, while official inspection ensures the maintenance of purity and quality. Upon request of the exporter the goods are certificated by the inspector.

3. **Mixed Farming.**—Dairying is not now, as formerly, wholly confined to farmers, since many graziers in a large way of business have lately given it their attention. In non-coastal regions it is generally carried on in conjunction with agriculture and sheep-raising, sufficient fodder being grown to carry the cattle through the winter months. Local wants are thus met, and in many places remote from the metropolis well-equipped factories have been established.

4. **Factory System.**—Cream separation and butter-making are often carried on together under the co-operative system. The creation of large central butter factories, supplied by numerous separating establishments or "creameries," has resulted in a considerable reduction in the cost of manufacture, since improved appliances such as refrigerators may be profitably worked at the larger establishments. The product is also of a more uniform quality. The number of farmers who adhere to hand processes is rapidly diminishing. Formerly the average quantity of milk used per pound of hand-made butter was about 3 gallons, but separator butter requires only  $2\frac{1}{4}$  gallons.

5. **Butter and Cheese Factories.**—The factories in Australia for the manufacture of butter, cheese, and condensed milk numbered 579 in 1926–27. These were distributed in the various States as follows:—New South Wales, 167; Victoria, 182; Queensland, 125; South Australia, 58; Western Australia, 11; and Tasmania, 36.

## § 2. Dairy Cattle and Dairy Products.

1. **Dairy Herds.**—The dairy herds of Australia were severely depleted during the drought of 1914–15, when the number was reduced to 1,684,393. Following that year substantial increases have taken place, and the number recorded in 1926 represents a gain of nearly 600,000 in the past decade. In New South Wales, Victoria, South Australia, and Tasmania the proportion of dairy cattle on all cattle is high. In Queensland, the Northern Territory, and Western Australia there is a greatly preponderating number of other cattle, dairying not being firmly established in the tropical regions of the Continent. In Southern Queensland, however, the industry has developed remarkably during the past decennium, and the progress attained in that area has been largely responsible for the Australian increases since 1916. The returns for 1926 include for the first time heifers intended for milking and being within three months of calving. Details were not collected for Victoria and Tasmania, but the total of such heifers in the other States amounted to 121,060.

### CATTLE AND DAIRY CATTLE.—NUMBER, 1922 TO 1926.

State.		1922.	1923.	1924.	1925.	1926.
New South Wales	{ All Cattle ..	3,244,905	2,932,437	2,871,196	2,931,818	2,813,144
	{ Dairy Cows ..	796,957	784,824	834,557	840,930	885,238
Victoria	{ All Cattle ..	1,785,660	1,591,367	1,605,554	1,513,787	1,435,761
	{ Dairy Cows ..	794,898	738,149	780,207	727,940	673,089
Queensland	{ All Cattle ..	6,955,463	6,390,514	6,454,653	6,436,645	5,464,845
	{ Dairy Cows ..	563,683	512,529	584,886	551,426	611,227
South Australia	{ All Cattle ..	425,811	413,272	400,423	373,597	340,007
	{ Dairy Cows ..	135,450	136,438	133,619	127,670	127,292
Western Australia	{ All Cattle ..	939,596	953,764	891,564	835,911	827,303
	{ Dairy Cows ..	58,387	61,832	60,882	63,008	69,627
Tasmania	{ All Cattle ..	218,197	220,351	225,740	222,373	219,112
	{ Dairy Cows ..	69,991	70,497	70,073	70,382	67,457
Northern Territory	{ All Cattle ..	760,766	843,718	855,285	970,342	863,597
	{ Dairy Cows ..	(a)	(a)	(a)	(a)	(r)
Federal Capital Territory	{ All Cattle ..	6,275	6,085	5,058	5,312	5,309
	{ Dairy Cows ..	443	375	413	646	815
Australia	{ All Cattle ..	14,336,673	13,357,508	13,309,473	13,279,785	11,963,278
	{ Dairy Cows ..	2,419,809	2,304,644	2,444,637	2,382,002	2,434,745

(a) Not available.

2. **Milk.**—The annual quantity of milk produced per dairy cow varies greatly with breed, locality and season, reaching as high as 1,000 gallons, but averaging for the whole of Australia for all dairy cows and for all seasons prior to 1916 considerably under 300 gallons per annum. Of late years an improvement in the grade of dairy cattle has taken place, and the 300 gallon mark has been exceeded on each of the last three seasons, the yield of 363 gallons in 1924 constituting a record. The best yields over a series of years appear to be in Victoria, South Australia and New South Wales, while Queensland and Tasmania in normal years are above Western Australia. In the following table the annual average yields per cow for the last five years are based on the number of dairy cows which were in milk during any part of the year. The average given is considerably below that for cows which were yielding during the greater part of the year. The highest averages were, of course, obtained in those States which have most extensively adopted scientific methods of dairying, such as systematic breeding, culling of herds, milk testing, etc.

MILK PRODUCTION, 1922 TO 1926-27.

Heading.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Fed. Cap. Ter.	Australia. (b)
<b>1922—</b>								
Dairy Cows (a) . . No.	806,268	757,186	558,945	133,252	50,108	69,293	425	2,381,480
Production 1,000 gals.	228,864	249,322	134,032	42,084	11,932	21,000	108	685,310
Aver. per cow . . gals.	281	329	240	316	213	303	248	288
<b>1923—</b>								
Dairy Cows (a) . . No.	790,890	766,524	538,106	135,944	60,110	70,244	409	2,362,227
Production 1,000 gals.	225,395	260,953	104,204	47,621	13,048	21,200	111	672,532
Aver. per cow . . gals.	285	340	194	350	217	302	271	285
<b>1924—</b>								
Dairy Cows (a) . . No.	809,691	749,178	548,707	135,029	61,357	70,285	394	2,374,641
Production 1,000 gals.	316,810	294,765	170,074	45,428	13,363	21,840	116	862,394
Aver. per cow . . gals.	391	393	310	336	218	311	294	363
<b>1925-26—(c)</b>								
Dairy Cows (a) . . No.	837,744	744,074	568,156	130,644	61,945	70,227	530	2,413,320
Production 1,000 gals.	289,861	255,120	153,386	41,386	14,823	18,684	199	773,459
Aver. per cow . . gals.	346	343	270	317	239	266	375	320
<b>1926-27 (c)</b>								
Dairy Cows (a) . . No.	837,373	700,515	553,472	123,066	63,768	68,920	730	2,347,844
Production 1,000 gals.	277,917	253,437	136,416	40,434	15,553	21,009	198	749,964
Aver. per cow . . gals.	332	369	246	329	244	305	271	319

(a) Mean for the year. (b) Exclusive of Northern Territory. (c) Year ended 30th June.

3. Butter and Cheese.—Although the quantity of dairy production is largely affected by the nature of the seasons, an important advance in the output of butter has taken place in the past decade. During that period the average annual production increased from 180,000,000 lb. for the quinquennium 1912-1916, to 260,000,000 lb. for the latest five years under review. Victoria was responsible for the largest share of the increased butter output in Australia, being pressed closely by Queensland, where marked development has taken place during recent years, while an important contribution to the general progress was also made by New South Wales. The maximum output of butter in Australia was recorded in 1924, when, as the result of a specially favourable season, 313,952,291 lb. were manufactured.

The manufacture of cheese is also largely dependent upon seasonal conditions. The average for the last decennium is, however, much greater than that for the previous one. The production in 1921 of 32,653,003 lb. is the highest yet recorded, followed very closely by the 31,442,292 lb. returned for 1924. Owing to less favourable conditions, the production in 1926-27 fell to 26,679,197 lb.

The development in dairy production since 1896, and in the exports of butter from 1901 onwards are shown in the graphs on page 658. Particulars for the past five years are as follows:—

BUTTER AND CHEESE PRODUCTION, 1922 TO 1926-27.

State.	1922.	1923.	1924.	1925-26.	1926-27.
<b>BUTTER.</b>					
	lb.	lb.	lb.	lb.	lb.
New South Wales . . . . .	a73,705,349	a72,666,613	a117,195,871	106,953,339	95,832,624
Victoria . . . . .	a84,355,940	a86,888,725	a100,849,382	81,747,291	81,995,815
Queensland . . . . .	53,785,599	40,659,634	a70,406,492	63,001,073	51,402,693
South Australia . . . . .	a14,846,632	a17,244,389	a16,066,694	13,882,850	13,416,904
Western Australia . . . . .	2,766,533	3,005,491	2,962,630	2,591,818	3,829,728
Tasmania . . . . .	5,716,708	a6,183,521	a6,455,746	5,122,992	6,032,597
Federal Capital Territory . . . . .	18,248	17,480	15,476	14,322	20,753
<b>Australia . . . . .</b>	<b>234,995,009</b>	<b>226,665,853</b>	<b>313,952,291</b>	<b>273,313,685</b>	<b>252,531,059</b>
<b>CHEESE.</b>					
	lb.	lb.	lb.	lb.	lb.
New South Wales . . . . .	a5,198,905	a5,012,656	a7,705,596	6,462,535	6,735,960
Victoria . . . . .	a3,754,960	a7,218,938	a6,193,135	5,279,009	5,997,648
Queensland . . . . .	10,560,316	7,221,355	a12,643,883	12,580,942	9,260,043
South Australia . . . . .	a3,261,565	a3,679,552	a3,743,628	3,636,278	3,708,730
Western Australia . . . . .	212	4,365	4,055	3,818	5,172
Tasmania . . . . .	934,601	a1,345,661	a1,152,015	836,738	971,644
<b>Australia . . . . .</b>	<b>23,710,559</b>	<b>25,380,525</b>	<b>31,442,292</b>	<b>28,799,320</b>	<b>26,679,197</b>

(a) For year ended 30th June of year following.

4. Concentrated Milk.—“ Condensed ” or “ concentrated ” milk represents milk the bulk of which is reduced by evaporation. The industry is of comparatively recent growth, the quantity of milk treated in 1901 being negligible, but production increased annually until in 1911 the output nearly doubled that of the previous year. Thenceforward rapid progress was made, the greatest development taking place in Victoria, where the industry is most largely established. There is still an import of milk, but the exports in each year far outweigh the quantity imported. No condensed or concentrated milk is made in South Australia, Western Australia, or Tasmania. In New South Wales, Victoria, and Queensland the returns for the last five years were as follows :—

**CONDENSED, CONCENTRATED, OR POWDERED MILK MADE, 1922 TO 1926-27.**

Year.	N.S.W.	Victoria.	Queensland.	Australia.
	lb.	lb.	lb.	lb.
1922 .. ..	a3,544,565	a38,314,260	9,601,914	51,460,739
1923 .. ..	a7,158,537	a49,099,632	8,131,648	64,389,817
1924-25 .. ..	5,804,191	45,693,120	10,511,919	62,009,230
1925-26 .. ..	5,745,454	43,646,852	8,831,623	58,223,929
1926-27 .. ..	b	48,186,040	b	c59,180,891

(a) For year ended 30th June of year following. (b) Not available for publication.  
(c) Including New South Wales and Queensland.

5. Oversea Trade in Butter, Cheese, and Milk.—The following tables give the imports, exports, and net exports of butter, cheese, and milk. In each of the five years dealt with the exports of butter, cheese, and condensed milk exceeded the imports.

**BUTTER, CHEESE, AND MILK, IMPORTS AND EXPORTS.—AUSTRALIA, 1922-23 TO 1926-27.**

Products.	1922-23.	1923-24.	1924-25.	1925-26.	1926-27.
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**IMPORTS.**

Butter .. ..	lb. 2,955,934	2,368,102	19,717	2,991,243	7,160,864
.. ..	£ 237,149	191,828	1,340	246,703	519,672
Cheese .. ..	lb. 499,125	1,422,148	356,717	1,487,023	1,789,766
.. ..	£ 27,345	71,379	87,448	111,827	133,600
Milk—concentrated and preserved(a)lb.	417,054	373,866	367,073	348,178	647,122
.. ..	£ 28,371	26,652	32,359	20,398	34,115

**EXPORTS.**

Butter .. ..	lb. 79,571,151	65,984,020	145,281,326	97,899,824	76,767,844
.. ..	£ 6,133,864	4,919,664	10,006,081	7,006,830	5,465,347
Cheese .. ..	lb. 5,454,466	3,831,269	10,397,392	6,884,347	3,663,175
.. ..	£ 231,907	142,820	365,764	271,973	133,266
Milk—concentrated and preserved(a)lb.	21,234,027	17,765,480	29,172,996	25,968,328	17,759,929
.. ..	£ 1,328,762	1,080,088	1,694,634	1,476,422	1,081,266

**NET EXPORTS.(b)**

Butter .. ..	lb. 76,615,217	63,615,918	145,261,609	94,908,581	69,606,980
.. ..	£ 5,896,715	4,727,836	10,004,741	6,760,127	4,945,675
Cheese .. ..	lb. 4,955,341	2,409,121	10,040,675	5,397,324	1,873,409
.. ..	£ 204,562	71,441	328,316	160,146	- 334
Milk—concentrated and preserved(a)lb.	20,816,973	17,391,614	28,805,923	25,560,150	17,112,807
.. ..	£ 1,300,391	1,053,436	1,662,275	1,456,024	1,047,141

NOTE.—The minus sign (-) indicates net imports.

(a) See definition above. (b) Excess of exports over imports.

6. **Local Consumption of Butter and Cheese.**—The total production of butter and cheese, with the subtraction or addition of the net export or import for the corresponding period gives approximately the quantity available for consumption in Australia. The figures for the past five years are as follows :—

**BUTTER AND CHEESE.—LOCAL CONSUMPTION, 1922 TO 1926-27.**

Products.	1922.	1923.	1924.	1925-26.	1926-27.
	lb.	lb.	lb.	lb.	lb.
Butter .. Total ..	158,379,792	163,049,935	168,690,682	178,405,104	182,924,079
.. Per head of population ..	28.12	28.36	28.72	29.77	29.94
Cheese .. Total ..	18,755,218	22,971,404	21,401,617	23,401,996	24,805,788
.. Per head of population ..	3.33	4.00	3.64	3.91	4.06

The quantity available for consumption in 1926-27 averaged 30 lb. of butter and 4 lb. of cheese, or a total of 34 lb. per head of population, an amount probably unsurpassed anywhere. The consumption of butter and cheese in the United Kingdom in normal times is given as about 22½ lb. per head per annum.

**§ 3. Pigs and Pig Products.**

1. **Pigs.**—The number of pigs in Australia from 1922 to 1926 is shown below :—

**PIGS.—NUMBER, 1922 TO 1926.**

State.	1922.	1923.	1924.	1925.	1926.
New South Wales (a) ..	340,579	322,762	339,378	382,331	332,827
Victoria ..	294,962	259,795	288,509	339,601	284,271
Queensland ..	160,617	132,243	156,163	199,598	183,662
South Australia ..	(a) 75,520	(a) 73,414	80,988	90,794	79,108
Western Australia ..	67,561	61,478	66,375	74,316	69,793
Tasmania ..	46,056	47,101	47,305	41,009	38,906
Northern Territory ..	361	647	1,000	382	343
Federal Cap. Territory (a)	274	434	291	343	94
Australia ..	985,930	897,874	980,009	1,128,374	989,009

(a) As on 30th June of year following.

For many years the number of pigs in Australia has fluctuated considerably. There was a heavy falling off in 1915, followed by substantial increases during the next two years, the number in 1917, viz., 1,169,365, being the highest recorded in Australia. From 1917 onwards the numbers declined for a time, but during the past five years they have remained fairly constant at about one million. The number of pigs per head of population, and the number per square mile, will be found in the tables of live stock, page 636.

2. **Bacon and Ham.**—(i) *Production.* The production of bacon and ham is increasing fairly rapidly, the averages for the past three quinquennia being 51,000,000, 60,000,000, and 69,000,000 lb. respectively. No increase in the volume of exports has taken place, the extra production being needed to supply the local demand, which is expanding with the population and the increasing consumption per head.

## BACON AND HAM.—PRODUCTION, 1922 TO 1926-27.

State.	1922.	1923.	1924.	1925-26.	1926-27.
	lb.	lb.	lb.	lb.	lb.
New South Wales ..	a19,234,681	a19,044,294	a21,068,976	22,949,531	24,600,275
Victoria ..	a19,269,125	a22,540,973	a21,993,869	21,213,925	20,952,310
Queensland ..	15,130,545	16,219,969	a15,640,561	18,326,728	18,288,690
South Australia ..	a5,002,199	a5,095,970	a5,374,457	5,600,760	5,165,670
Western Australia (b)	2,050,220	2,420,585	2,797,151	2,960,139	2,678,830
Tasmania ..	1,778,015	a2,271,141	a2,428,966	2,314,756	1,946,323
Federal Cap. Territory	a11,185	a7,815	a7,820	8,840	2,790
Total ..	62,475,970	67,600,747	69,311,800	73,374,679	73,634,888

(a) For year ended 30th June of year following.

(b) A portion only from pigs slaughtered in the State; balance imported and subsequently cured.

(ii) *Local Consumption.* From about 1904 onwards the production of bacon and ham has been sufficient to meet the local demand, and provide a small surplus for export. The total home consumption and the average per head of population for the last five years are given hereunder:—

## BACON AND HAM.—LOCAL CONSUMPTION, 1922 TO 1926-27.

Particulars.	1922.	1923.	1924.	1925-26.	1926-27.
	lb.	lb.	lb.	lb.	lb.
Total ..	60,753,826	66,372,107	67,969,350	72,205,137	72,175,870
Per head of population ..	10.78	11.54	11.57	12.05	11.81

3. *Oversea Trade in Pig Products.*—The oversea trade in pigs and pig products for the last five years is shown in the following table:—

## PIG PRODUCTS.—AUSTRALIAN TRADE, 1922-23 TO 1926-27.

Particulars.	1922-23.	1923-24.	1924-25.	1925-26.	1926-27.
PIGS.					
Imports ..	No. 31	13	10	6	8
..	£ 596	376	150	250	223
Exports ..	No. 67	38	65	320	418
..	£ 510	288	676	1,951	2,506
Net Exports ..	No. 36	25	55	314	410
..	£ -86	-88	526	1,701	2,283
BACON AND HAM.					
Imports ..	lb. 149,270	320,030	322,106	509,101	374,814
..	£ 8,414	19,005	18,492	33,773	23,101
Exports ..	lb. 1,871,414	1,548,670	1,664,556	1,678,643	1,833,832
..	£ 168,414	132,581	124,891	139,864	147,886
Net Exports ..	lb. 1,722,144	1,228,640	1,342,450	1,169,542	1,459,018
..	£ 160,000	113,576	106,399	106,091	124,785

NOTE.—The minus sign (—) signifies net imports.

PIG PRODUCTS.—AUSTRALIAN TRADE, 1922-23 TO 1926-27—*continued.*

Particulars.	1922-23.	1923-24.	1924-25.	1925-26.	1926-27.
<b>LARD.</b>					
Imports .. .. lb.	505,827	574,733	112,084	244,517	575,293
" .. .. £	12,905	17,181	4,080	8,787	17,169
Exports .. .. lb.	1,358,291	651,530	1,523,530	1,953,796	1,334,421
" .. .. £	38,491	24,027	42,744	56,630	38,839
Net Exports .. lb.	852,464	76,797	1,411,446	1,709,279	759,128
" .. .. £	25,586	6,846	38,664	47,843	21,670
<b>FROZEN PORK.</b>					
Imports .. .. lb.	370,094	1,679,278	962,639	466,425	733,179
" .. .. £	14,486	63,908	35,695	20,066	31,657
Exports .. .. lb.	144,796	53,142	61,393	90,106	481,330
" .. .. £	6,282	2,099	2,749	3,647	16,608
Net Exports .. lb.	-225,298	-1,626,136	-901,246	-376,319	-251,849
" .. .. £	-8,204	-61,809	-32,946	-16,419	-15,049

NOTE.—The minus sign (—) signifies net imports.

The output of pig products in Australia is usually sufficient to meet local requirements, and provide a small surplus for export. During the last five years the value of the average annual net export amounted to £122,274, the bulk of the shipments consisting of bacon, ham and lard.

§ 4. Total Dairy Production.

The total dairy production of Australia in 1926-27 is shown below :—

TOTAL DAIRY PRODUCTION.—AUSTRALIA, 1926-27.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Fed. Cap. Ter.	Total.
<b>MILK.</b>								
Used for—	gallons.	gallons.	gallons.	gallons.	gallons.	gallons.	gallons.	gallons.
Butter ..	213,772,701	186,981,320	109,722,923	28,562,815	48,297,435	14,110,369	60,871	561,508,434
Cheese ..	6,861,603	5,957,300		3,627,364	(b)	964,814		
Condensing and concentrating ..	2,900,812	18,091,390	14,494,869					52,898,152
Other purposes ..	54,382,327	47,406,650	12,198,601	8,243,373	7,255,230	5,933,817	137,686	135,557,664
<b>Total ..</b>	<b>277,917,443</b>	<b>258,436,660</b>	<b>136,416,393</b>	<b>40,433,552</b>	<b>15,552,665</b>	<b>21,009,000</b>	<b>198,557</b>	<b>749,964,270</b>
<b>BUTTER.</b>								
In Factories On Dairy and other Farms ..	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.
	91,028,869	78,108,461	49,654,847	9,857,791	2,464,352	4,268,936	..	234,783,286
	4,803,755	3,887,324	2,347,786	3,559,113	1,365,376	1,763,661	20,758	17,747,779
<b>Total ..</b>	<b>95,832,624</b>	<b>81,995,815</b>	<b>51,402,633</b>	<b>13,416,904</b>	<b>3,829,728</b>	<b>6,032,597</b>	<b>20,758</b>	<b>252,531,059</b>

(a) Including milk used for making cheese. (b) Not available for publication.

TOTAL DAIRY PRODUCTION.—AUSTRALIA, 1926-27—*continued.*

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Fed. Cap. Ter.	Total.
<b>CHEESE.</b>								
In Factories On Dairy and other Farms ..	lb. 6,628,000	lb. 5,481,585	lb. 9,243,279	lb. 3,708,730	lb. (b)	lb. 739,812	lb. ..	lb. 25,801,406
	107,960	516,063	16,764	..	5,172	231,832	..	877,791
Total ..	6,735,960	5,997,648	9,260,043	3,708,730	5,172	971,644	..	26,679,197
<b>CONDENSED, CONCENTRATED, OR POWDERED MILK.</b>								
In Factories	lb. (b)	lb. 43,186,040	lb. (b)	lb. ..	lb. ..	lb. ..	lb. ..	lb. c 59,180,891
<b>BACON AND HAM.</b>								
In Factories On Dairy and other Farms ..	lb. 23,275,890	lb. 19,739,524	lb. 17,971,692	lb. 4,608,542	lb. 2,514,651	lb. 1,271,810	lb. ..	lb. 69,382,109
	1,324,385	1,212,786	316,998	557,128	164,179	674,513	2,790	4,252,779
Total ..	24,600,275	20,952,310	18,288,690	5,165,670	2,678,830	1,946,323	2,790	73,634,888

(a) A portion only from pigs slaughtered in the State, the balance being imported and subsequently cured. (b) Figures not available for publication. (c) Including New South Wales and Queensland.

Particulars in regard to the production of other milk products are not available for all the States, but the following articles were made in Victoria during 1926-27:—Casein, 1,803,049 lb.; and milk sugar, 350,570 lb.

### § 5. Poultry Farming.

1. **General.**—Poultry stocks are largely maintained by farmers, and production therefrom furnishes a considerable addition to the annual agricultural or dairying returns. During recent years, however, poultry-keeping has assumed an independent position among rural industries, while it is also carried on in conjunction with pig-farming. Special poultry farms have been instituted for scientific breeding, poultry experts give lectures and instruction, and egg-laying competitions are conducted. Poultry for consumption is extensively reared, and the egg-producing qualities of the birds have been greatly improved by careful breeding. Co-operative egg-collecting circles have been formed in some districts; eggs are also delivered with the milk and cream to the local butter factories, and thence forwarded to market.

2. **Poultry Products.**—There is some difficulty in obtaining complete figures for the yield of poultry products. The following values relate to poultry and eggs:—

#### POULTRY AND EGGS.—VALUE OF PRODUCTION, 1922-23 TO 1926-27.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania. (a)	Australia.
	£	£	£	£	£	£	£
1922-23 ..	2,894,000	4,315,810	417,052	1,066,137	240,423	300,000	9,233,422
1923-24 ..	2,443,160	4,587,560	364,681	1,088,105	252,527	300,000	9,036,033
1924-25 ..	2,727,000	4,326,295	530,782	1,148,322	286,350	300,000	9,318,749
1925-26 ..	3,446,000	4,515,400	621,876	1,094,205	305,888	300,000	10,283,369
1926-27 ..	3,807,500	4,819,500	500,237	1,046,056	330,903	300,000	10,804,196

(a) Estimated.



3. **Oversea Trade in Poultry Products.**—The Australian oversea trade in poultry products is confined to eggs, which are mainly consigned from New South Wales to the United Kingdom. Other States are participating in this trade to an increasing extent, the value of the shipments dispatched in 1926-27 amounting to nearly one quarter of a million sterling. The exports of frozen poultry expanded during the three years ended 1922-23, but since that year the shipments have not been maintained. The oversea trade during the past five years was as follows:—

**POULTRY PRODUCTS, TRADE.—AUSTRALIA, 1922-23 TO 1926-27.**

Particulars.	1922-23.	1923-24.	1924-25.	1925-26.	1926-27.
<b>LIVE POULTRY.</b>					
Imports .. .. No.	791	881	459	384	281
" .. .. £	1,534	3,981	1,084	1,475	1,604
Exports .. .. No.	2,872	2,234	2,057	3,418	1,847
" .. .. £	2,682	1,707	1,527	2,311	1,311
Net Exports .. No.	2,081	1,353	1,598	3,034	1,566
" .. .. £	1,148	-2,274	443	836	-293
<b>FROZEN POULTRY.</b>					
Imports .. .. lb.	4,784	5,438	11,591	12,367	12,340
" .. .. £	228	269	752	741	749
Exports .. .. pair	34,399	10,882	10,898	22,381	19,880
" .. .. £	42,951	11,270	14,141	25,242	30,259
Net Exports .. .. (a)	(a)	(a)	(a)	(a)	(a)
" .. .. £	42,723	11,001	13,389	24,501	29,510
<b>Eggs.</b>					
Imports .. .. doz.	26,750	28,123	30,051	29,652	24,182
" .. .. £	1,591	1,707	1,796	2,003	1,507
Exports .. .. doz.	1,236,033	655,620	692,015	1,531,744	3,151,990
" .. .. £	102,946	52,743	53,538	116,681	233,672
Net Exports .. .. doz.	1,209,283	627,497	661,964	1,502,092	3,127,808
" .. .. £	101,355	51,036	51,742	114,678	232,165
<b>EGG-CONTENTS.</b>					
Imports .. .. lb.	33,672	34,418	32,105	21,495	39,675
" .. .. £	5,250	7,845	7,190	4,313	6,382
Exports .. .. lb.	(a)	(a)	(a)	(a)	(a)
" .. .. £	38	212	144	95	97
Net Exports .. .. lb.	(a)	(a)	(a)	(a)	(a)
" .. .. £	-5,212	-7,633	-7,046	-4,218	-6,285

NOTE.—The minus — signifies net imports. (a) Quantity not available.

**§ 6. Bee Farming.**

1. **General.**—As in the case with poultry-farming, bee-farming is frequently carried on in connexion with agriculture or dairying. The returns of honey from productive hives during 1926-27 gave an average of 61 lb. per hive, while the average quantity of wax was 0.83 lb. per hive.

2. Production of Honey and Beeswax.—The number of hives and the production of honey and beeswax during the year 1926-27 are given in the following table :—

## BEE-HIVES, HONEY, AND BEESWAX, 1926-27.

State.	Bee Hives.			Honey Produced.		Beeswax Produced.	
	Pro- ductive.	Unpro- ductive.	Total.	Quantity.	Value.	Quantity.	Value.
	No.	No.	No.	lb.	£	lb.	£
New South Wales ..	31,203	7,724	38,927	1,510,420	27,680	22,532	1,891
Victoria ..	32,551	21,572	54,123	2,370,310	49,379	33,238	2,908
Queensland ..	11,263	4,789	16,052	461,009	7,851	8,785	579
South Australia ..	24,176	4,483	28,659	1,918,195	21,979	22,368	1,375
Western Australia ..	9,708	2,208	11,916	553,238	9,469	5,190	370
Tasmania ..	3,588	2,053	5,641	75,876	1,880	1,224	40
Fed. Cap. Territory..	107	8	115	12,120	220	104	9
<b>Australia ..</b>	<b>112,596</b>	<b>42,837</b>	<b>155,433</b>	<b>6,901,168</b>	<b>118,458</b>	<b>93,441</b>	<b>7,172</b>

The table hereunder gives the production of honey and beeswax for the latest available five years :—

## HONEY AND BEESWAX PRODUCTION, 1922-23 TO 1926-27.

Season.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	Fed. Cap. Ter.	Australia.
<b>HONEY.</b>								
	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.
1922-23	1,235,905	2,285,000	580,057	1,863,026	330,869	71,030	3,175	6,369,062
1923-24	590,800	2,110,713	505,346	721,640	395,047	133,330	180	4,457,056
1924-25	3,088,560	4,054,975	691,136	2,764,389	378,889	95,476	1,600	11,075,015
1925-26	2,234,495	2,114,807	801,587	1,360,916	311,492	116,392	600	6,940,289
1926-27	1,510,420	2,370,310	461,009	1,918,195	553,238	75,876	12,120	6,901,168
<b>BEESWAX.</b>								
	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.
1922-23	28,244	27,182	8,895	19,111	5,391	1,473	198	90,494
1923-24	12,701	25,371	7,405	11,216	5,637	1,596	2	63,928
1924-25	40,043	47,117	9,883	27,837	6,844	1,666	65	133,455
1925-26	38,171	28,812	11,888	11,772	3,737	1,566	100	96,046
1926-27	22,532	33,238	8,785	22,368	5,190	1,224	104	93,441

The quantity of honey and beeswax produced naturally varies from year to year according to the condition of the seasons. During the last five years New South Wales has produced 8,660,170 lb. of honey and 141,691 lb. of beeswax, while the Victorian figures amounted to 12,935,805 lb. and 161,720 lb. respectively for honey and beeswax. These two States together accounted for 56.23 per cent. of the total production of honey, and 59.68 per cent. of the beeswax. Next in order of importance were South Australia, Queensland, and Western Australia.

3. Oversea Trade in Bee Products.—In normal years the local production of honey exceeds Australian requirements, and a small quantity is available for export. During the past five years the value of the exports amounted to only £21,498, or an annual average of £4,300, owing to the decrease in production. The more general use of frame hives has affected the production of wax, and as a result the quantity imported has exceeded that exported during each of the past five years.

BEE PRODUCTS.—IMPORTS, EXPORTS, ETC., AUSTRALIA, 1922-23 TO 1926-27.

Particulars.	1922-23.	1923-24.	1924-25.	1925-26.	1926-27.
<b>HONEY.</b>					
Imports .. .. lb.	811	772	1,008	4,684	657
„ .. .. £	24	22	33	211	20
Exports .. .. lb.	57,638	41,584	137,116	113,401	402,745
„ .. .. £	2,718	2,060	3,807	3,756	9,157
Net Exports .. lb.	56,827	40,812	136,108	108,717	402,088
„ .. .. £	2,694	2,038	3,774	3,545	9,137
<b>BEE SWAX.</b>					
Imports .. .. lb.	238,368	76,478	109,816	22,937	75,104
„ .. .. £	13,817	4,759	8,288	2,195	6,951
Exports .. .. lb.	671	2,046	1,956	1,577	326
„ .. .. £	61	149	187	131	29
Net Exports .. lb.	-237,697	-74,432	-107,860	-21,360	-74,778
„ .. .. £	-13,756	-4,610	-8,101	-2,064	-6,922

NOTE.—The minus sign (—) signifies net imports.

§ 7. Value of Farmyard, Dairy, and Bee Products.

The value of the farmyard, dairy and bee products raised in Australia in 1926-27 was as follows:—

FARMYARD, DAIRY, AND BEE PRODUCTS.—VALUE, 1926-27.

Products.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	N.T.	Fed. Cap. Ter.	Australia.
	£	£	£	£	£	£	£	£	£
Milk, consumed as such ..	3,096,771	2,699,545	694,643	469,414	413,145	337,898	..	7,840	7,719,256
Butter ..	7,465,966	6,233,484	4,176,462	1,069,461	298,848	446,808	..	1,617	19,692,646
Cheese ..	294,481	270,695	405,121	137,861	6,113	37,385	..	..	1,151,656
Condensed and concentrated milk	61,576,110	61,498,055	042,604	..	..	..	..	..	..
Bacon and ham	..	1,242,285	..	327,897	166,977	102,217	..	144	5,856,289
Pork ..	498,868	458,012	192,994	159,572	158,541	58,905	819	1,837	1,529,548
Lard ..	24,333	30,827	28,035	8,199	4,295	5,049	..	..	100,738
Poultry and eggs	3,807,500	4,819,500	500,237	1,046,056	330,903	300,000	..	(a)	10,804,196
Honey and wax	29,571	52,287	8,430	23,354	9,839	1,920	..	229	125,630
Total ..	16,793,600	17,304,690	6,948,526	3,241,814	1,388,661	1,290,182	819	11,667	46,979,959

(a) Included with New South Wales.

(b) Includes other Milk Products made.

(c) Includes casein £43,715, and milk sugar £13,903.

### § 8. Exports of Australian Farmyard, Dairy, and Bee Products.

The quantities and values of Australian farmyard, dairy, and bee products exported during each of the last five years are shown below :—

#### AUSTRALIAN FARMYARD, DAIRY AND BEE PRODUCTS.—EXPORTS, 1922-23 TO 1926-27.

Particulars.	1922-23.	1923-24.	1924-25.	1925-26.	1926-27.
<b>QUANTITY.</b>					
Beeswax .. .. . lb.	581	1,902	782	1,577	326
Butter .. .. . "	78,975,387	65,440,852	145,281,322	97,899,824	76,516,497
Cheese .. .. . "	5,454,415	3,787,714	10,353,950	6,872,761	3,643,832
Egg albumen and yolk .. .. . "	(a)	(a)	(a)	(a)	(a)
Eggs .. .. . doz.	1,236,033	655,215	691,740	1,531,744	3,151,965
Feathers, undressed .. .. . "	(a)	(a)	(a)	(a)	(a)
Honey .. .. . lb.	57,638	41,584	137,116	113,401	402,745
Lard .. .. . "	1,357,372	645,930	1,523,530	1,953,796	1,315,831
<b>Meats—</b>					
Bacon and Ham .. .. . "	1,871,414	1,548,670	1,664,556	1,678,643	1,833,468
Frozen Poultry .. .. . pair	34,399	10,882	10,898	22,381	19,980
Frozen Pork .. .. . lb.	137,946	53,142	61,393	88,058	481,330
Milk, concentrated and preserved .. .. . "	21,135,137	17,762,106	29,165,694	23,626,795	17,752,506
Pigs, living .. .. . No.	67	38	65	320	413
Poultry, living .. .. . "	2,858	2,174	2,057	3,418	1,838
<b>VALUE.</b>					
	£	£	£	£	£
Beeswax .. .. . "	51	137	69	131	29
Butter .. .. . "	6,082,414	4,874,921	10,006,081	7,006,830	5,447,224
Cheese .. .. . "	231,898	140,715	363,757	270,712	131,168
Egg albumen and yolk .. .. . "	32	210	95	95	56
Eggs .. .. . "	102,946	52,715	53,518	116,681	233,670
Feathers, undressed .. .. . "	1,247	303	1,112	1,089	774
Honey .. .. . "	2,718	2,080	3,807	3,756	9,157
Lard .. .. . "	38,447	23,809	42,744	56,630	37,995
<b>Meats—</b>					
Bacon and Ham .. .. . "	158,414	132,581	124,891	139,864	147,861
Frozen Poultry .. .. . "	42,951	11,270	14,141	25,242	30,259
Frozen Pork .. .. . "	6,063	2,099	2,749	3,579	16,608
Milk, concentrated and preserved .. .. . "	1,325,883	1,079,943	1,694,230	1,261,417	1,080,963
Pigs, living .. .. . "	510	288	676	1,951	2,506
Poultry, living .. .. . "	2,640	1,649	1,527	2,311	1,281
<b>Total .. .. . "</b>	<b>7,996,214</b>	<b>6,322,700</b>	<b>12,309,302</b>	<b>8,890,288</b>	<b>7,139,551</b>

(a) Quantity not available.

### § 9. British Imports of Dairy Products.

1. Quantities and Values.—The following table gives the quantities and values of the principal dairy products imported into the United Kingdom during the years 1922 to 1926 :—

#### DAIRY PRODUCTS.—IMPORTS, UNITED KINGDOM, 1922 TO 1926.

Products.	1922.	1923.	1924.	1925.	1926.
Butter .. .. . cwt.	4,268,561	5,095,511	5,287,244	5,853,245	5,818,840
" .. .. . £	37,315,536	44,234,534	49,647,492	53,204,417	48,283,312
Cheese .. .. . cwt.	2,659,345	2,838,546	2,887,413	3,093,702	3,014,055
" .. .. . £	12,437,818	15,200,707	13,552,406	15,696,800	13,940,648
Milk, concentrated and preserved .. .. . cwt.	2,059,050	2,366,532	2,333,701	2,413,350	2,556,530
" .. .. . £	6,588,155	6,716,648	6,183,530	5,756,372	5,420,167
Bacon and ham .. .. . cwt.	7,365,394	9,540,241	9,509,399	9,002,312	8,666,487
" .. .. . £	44,115,900	46,536,807	45,059,619	50,774,719	50,146,958
Pork (a) .. .. . cwt.	292,358	475,963	238,206	262,998	303,234
" .. .. . £	1,102,304	1,898,233	952,057	1,133,648	1,396,714

(a) Frozen, chilled, and salted.

2. *Butter.*—(i) *Imports.* Australia has for many years supplied a large proportion of the butter imported into the United Kingdom. The quantity shipped in 1926 amounted to 752,088 cwt., or nearly 13 per cent. of the total importation. The Australian contribution was valued at £5,759,695, and was exceeded only by that shipped from Denmark and New Zealand.

## BUTTER IMPORTS.—UNITED KINGDOM, 1926.

Country from which Imported.	Quantity.	Value.	Country from which Imported.	Quantity.	Value.
	Cwt.	£		Cwt.	£
Denmark ..	1,906,495	17,166,480	Poland (including Dantzig) ..	14,094	108,009
New Zealand ..	1,153,896	9,607,459	United States of America ..	4,654	36,350
<b>Australia ..</b>	<b>752,088</b>	<b>5,759,695</b>	Norway ..	2,552	24,429
Argentine Republic	514,197	3,862,998	Union of South Africa ..	514	4,638
Irish Free State ..	496,245	3,835,067	British Possessions, n.e.i. ..	1,223	6,700
Soviet Republics	262,291	1,924,185	Foreign Countries, n.e.i. ..	7,014	49,930
Finland ..	186,591	1,556,870			
Sweden ..	154,072	1,327,190	Total ..	5,818,840	48,283,312
Netherlands ..	150,442	1,330,281			
Canada ..	63,609	502,811			
Latvia ..	60,211	474,131			
Estonia ..	58,681	466,940			
France ..	29,971	239,149			

(ii) *London Prices.* The average price of the best quality Australian butter in London during the past ten years is shown in the following table:—

## AUSTRALIAN BUTTER.—LONDON PRICES, 1916 TO 1927.

Year.	Average Top Price per cwt.	Year.	Average Top Price per Cwt.
	s. d.		s. d.
1916	169 6	1922	183 0
1917	(a) 206 0	1923	184 6
1918	(b) 252 0	1924	189 6
1919	(b) 252 0	1925	184 0
1920	(b) 299 9	1926	169 6
1921	234 0	1927	169 6

(a) Proclaimed price.

(b) Flat rate for all imported butter.

Under contract the British Government purchased the surplus output of Australian butter during the period from 1st July, 1918, to 31st July, 1920. The price paid was 175s. per cwt. for butter scoring 90 points, a shilling per cwt. being added or deducted as the grading score exceeded or fell below that standard. On the 1st August, 1920, the contract was extended for a further period, the price of butter having been increased to 240s. per cwt., subsequently raised to 272s., and the grading price being likewise increased to 1s. 6d. per cwt. This contract terminated on the 31st March, 1921, butter thenceforward being sold in open market.

3. *Cheese.*—The value of cheese imported into the United Kingdom in 1926 was £13,940,648, of which £7,053,025 was received from New Zealand, and £4,657,201 from Canada. Small experimental shipments from Australia were made in 1908 and following years, fair prices being realized. The value of the imports from Australia during 1926 amounted to £224,290.

4. *Bacon and Ham.*—Of a total import of bacon and ham valued in 1926 at £50,146,958, the United Kingdom received imports to the value of £21,692,157 from Denmark, £12,545,647 from the United States, and £6,057,983 from Canada. The import from Australia was small, experimental shipments only having been made during recent years.

5. *Pork.*—The value of the United Kingdom imports of pork (frozen and salted only) was £1,396,714 in 1926. There was only a small importation from Australia, the bulk of the supplies being forwarded from the United States, New Zealand, Canada, China, Argentine Republic and Denmark.

6. *Other Products.*—There was practically no shipment to the United Kingdom from Australia of beeswax, poultry, game, lard, or honey, but frozen rabbits to the value of £438,063, and eggs to the value of £312,912 were received from Australia in 1926.