

## 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 600 in 1924–25. These were distributed in the various States as follows:—New South Wales, 183; Victoria, 186; Queensland, 128; South Australia, 62; Western Australia, 8; and Tasmania, 33.

## § 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, particularly since 1919, and the number recorded in 1924 represents a gain of more than 400,000 in the past decade. In New South Wales, Victoria, South Australia, and Tasmania the proportion of dairy cattle to 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 1914. The figures for the Northern Territory are rough estimates only:—

CATTLE AND DAIRY CATTLE.—NUMBER, 1920 TO 1924.

State.		1920.	1921.	1922.	1923.	1924.
New South Wales	{ All Cattle ..	3,367,880	3,538,240	3,244,905	2,932,437	2,871,196
	{ Dairy Cows ..	757,534	815,579	796,957	784,824	834,557
Victoria	{ All Cattle ..	1,575,159	1,750,369	1,785,660	1,591,367	1,605,554
	{ Dairy Cows ..	620,005	719,473	794,898	738,149	760,207
Queensland	{ All Cattle ..	6,455,067	7,047,370	6,955,463	6,396,514	6,454,653
	{ Dairy Cows ..	448,634	554,208	563,683	512,529	584,886
South Australia	{ All Cattle ..	376,399	419,197	425,811	413,272	400,423
	{ Dairy Cows ..	117,536	131,054	135,450	136,438	133,619
Western Australia	{ All Cattle ..	849,803	893,108	939,596	953,764	891,564
	{ Dairy Cows ..	47,719	53,828	58,387	61,832	60,882
Tasmania	{ All Cattle ..	208,202	216,704	218,197	220,351	225,740
	{ Dairy Cows ..	63,681	68,595	69,991	70,497	70,073
Northern Territory	{ All Cattle ..	659,840	568,031	760,766	843,718	855,285
	{ Dairy Cows ..	70	70	(a)	(a)	(a)
Federal Capital Territory	{ All Cattle ..	7,387	8,290	6,275	6,085	5,058
	{ Dairy Cows ..	459	414	443	375	413
Australia	{ All Cattle ..	13,499,737	14,441,309	14,336,673	13,357,508	13,309,473
	{ Dairy Cows ..	2,055,638	2,343,221	2,419,809	2,304,644	2,444,637

(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. Recently there has been an improvement in the grade of dairy cattle, and the 300 gallon mark has been exceeded on three occasions during the past quinquennium, 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, 1920 TO 1924.

Heading.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	Fed. Cap. Ter.	Australia. (b)
1920—								
Dairy Cows (a) . . No.	727,337	621,829	410,890	112,259	45,356	63,877	469	1,982,017
Production 1,000 gals.	250,098	204,522	104,659	34,957	10,234	19,000	105	623,275
Aver. per cow . . gals.	344	329	255	309	226	297	223	314
1921—								
Dairy Cows (a) . . No.	786,557	669,739	501,421	124,295	50,773	66,138	437	2,199,360
Production 1,000 gals.	285,166	245,181	151,081	41,398	11,329	21,000	105	755,260
Aver. per cow . . gals.	363	366	301	333	223	318	240	343
1922—								
Dairy Cows (a) . . No.	806,268	757,186	558,945	133,252	56,108	69,293	428	2,381,480
Production 1,000 gals.	226,864	249,322	134,032	42,054	11,932	21,000	106	685,310
Aver. per cow . . gals.	281	329	240	316	213	303	248	288
1923—								
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
1924—								
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	45,426	13,363	21,840	116	862,394
Aver. per cow . . gals.	391	393	310	336	218	311	294	363

(a) Mean for the year.

(b) Exclusive of Northern Territory.

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 197,000,000 lb. for the quinquennium 1910–1914, to 250,000,000 lb. for the latest five years under review. The marked development of dairying in Queensland, where the butter production has nearly doubled since 1914, was largely responsible for the increased butter output in Australia, although Victoria and New South Wales made important contributions to the general progress. 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 has steadily increased throughout Australia during recent years, the production in 1921 of 32,653,003 lb. being the highest yet recorded, followed very closely by the 31,442,292 lb. returned for 1924. The output of cheese has grown from 16 to 26 million lb. during the past ten years, or more than 60 per cent.

The development in dairy production since 1896, and in the exports of butter from 1901 onwards are shown in the graphs on page 612. Particulars for the past five years are as follows:—

## BUTTER AND CHEESE PRODUCTION, 1920 TO 1924.

State.	1920.	1921.	1922.	1923.	1924.
BUTTER.					
	lb.	lb.	lb.	lb.	lb.
New South Wales . . . . .	a84,259,641	a100,652,620	a73,705,349	a72,666,613	a117,195,871
Victoria . . . . .	a64,938,458	a82,981,570	a84,355,940	a86,888,725	a100,849,382
Queensland . . . . .	40,751,373	60,923,194	53,785,599	40,659,634	a70,406,492
South Australia . . . . .	a11,897,279	a14,565,599	a14,646,632	a17,244,389	a16,066,694
Western Australia . . . . .	2,212,311	2,658,153	2,766,533	3,005,491	2,962,630
Tasmania . . . . .	4,014,402	5,270,243	5,716,708	a6,183,521	a6,455,746
Federal Capital Territory . . . . .	a8,400	a19,961	18,248	17,480	15,476
Australia . . . . .	208,081,864	267,071,340	234,995,009	226,665,853	313,952,291
CHEESE.					
	lb.	lb.	lb.	lb.	lb.
New South Wales . . . . .	a6,407,209	a7,367,057	a5,198,905	a5,912,656	a7,705,596
Victoria . . . . .	a3,636,571	a5,675,909	a3,754,960	a7,216,936	a6,193,135
Queensland . . . . .	11,512,262	15,200,527	10,560,316	7,221,355	a12,643,863
South Australia . . . . .	a1,804,696	a3,392,400	a3,261,565	a3,679,552	a3,743,628
Western Australia . . . . .	354	1,073	212	4,365	4,055
Tasmania . . . . .	799,432	1,016,037	934,601	a1,345,601	a1,152,015
Australia . . . . .	24,160,524	32,653,003	23,710,559	25,880,625	31,442,292

(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, 1920 TO 1924.**

Year.	N.S.W.(a)	Victoria.(a)	Queensland.	Australia.
	lb.	lb.	lb.	lb.
1920 .. .. .	14,938,147	42,643,871	13,362,464	70,944,482
1921 .. .. .	6,860,466	48,354,210	15,168,652	70,383,328
1922 .. .. .	3,544,565	38,314,260	9,601,914	51,460,739
1923 .. .. .	7,158,537	49,099,632	8,131,648	64,389,817
1924 .. .. .	5,804,191	45,693,120	10,511,919	62,009,230

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

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,  
1920-21 TO 1924-25.**

Products.	1920-21.	1921-22.	1922-23.	1923-24.	1924-25.
<b>IMPORTS.</b>					
Butter .. .. . lb.	33,762	732,336	2,955,934	2,368,102	19,717
" .. .. . £	2,997	59,982	237,149	191,828	1,340
Cheese .. .. . lb.	72,110	85,601	499,125	1,422,148	356,717
" .. .. . £	8,371	7,518	27,345	71,379	37,448
Milk—concentrated and preserved(a)lb.	603,565	130,592	417,054	373,866	367,073
" .. .. . £	30,883	14,658	28,371	26,652	32,359
<b>EXPORTS.</b>					
Butter .. .. . lb.	92,420,995	127,579,797	79,571,151	65,984,020	145,281,326
" .. .. . £	11,067,104	7,928,558	6,133,864	4,919,664	10,006,081
Cheese .. .. . lb.	9,531,310	12,671,029	5,454,466	3,831,269	10,397,392
" .. .. . £	514,252	438,372	231,907	142,820	365,764
Milk—concentrated and preserved(a)lb.	37,381,955	36,705,320	21,234,027	17,765,480	29,172,996
" .. .. . £	2,189,167	2,132,580	1,328,762	1,080,088	1,694,634

**NET EXPORTS.(b)**

Butter .. .. . lb.	92,387,233	126,847,461	76,615,217	63,615,918	145,261,609
" .. .. . £	11,064,107	7,928,576	5,896,715	4,727,836	10,004,741
Cheese .. .. . lb.	9,459,200	12,585,428	4,955,341	2,409,121	10,040,675
" .. .. . £	505,881	430,854	204,562	71,441	328,316
Milk—concentrated and preserved(a)lb.	36,778,390	36,574,728	20,816,973	17,391,614	28,805,923
" .. .. . £	2,158,284	2,117,922	1,300,391	1,053,436	1,662,275

(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, 1920 TO 1924.**

Products.	1920.	1921.	1922.	1923.	1924.
	lb.	lb.	lb.	lb.	lb.
Butter .. Total ..	115,694,631	139,491,543	158,379,792	163,049,935	168,690,682
„ .. Per head of population ..	21.38	25.32	28.12	28.36	28.72
Cheese .. Total ..	14,701,324	19,981,974	18,755,218	22,971,404	21,401,617
„ .. Per head of population ..	2.72	3.63	3.33	4.00	3.64

The quantity available for consumption in 1924 averaged 28½ lb. of butter and 3.6 lb. of cheese, or a total of 32½ 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 1920 to 1924 is shown below :—

**PIGS.—NUMBER, 1920 TO 1924.**

State.	1920.	1921.	1922.	1923.	1924.
New South Wales (b) ..	305,967	383,326	340,579	322,762	339,378
Victoria (a) ..	175,275	230,770	294,962	259,795	288,509
Queensland ..	104,370	145,083	160,617	132,243	156,163
South Australia ..	(b) 78,395	(b) 87,667	(b) 75,520	(b) 73,414	80,988
Western Australia ..	60,581	63,001	67,561	61,478	66,375
Tasmania (a) ..	38,116	49,743	46,056	47,101	47,305
Northern Territory ..	1,416	452	361	647	1,000
Federal Cap. Territory (b)	286	343	274	434	291
Australia ..	764,406	960,385	985,930	897,874	980,009

(a) As on 1st March of year following.

(b) 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 1916 and 1917, 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 four years they have remained fairly constant at nearly 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 601.

2. **Bacon and Ham.**—(i) *Production.* During the past five years the production of bacon and ham has fluctuated between the record quantity of 69,311,800 lb. manufactured in 1924, and 50,250,487 lb. in 1920, the average for the period amounting to 61,650,693 lb., which is far in excess of any previous five-yearly average.

## BACON AND HAM.—PRODUCTION, 1920 TO 1924.

State.	1920.	1921.	1922.	1923.	1924.
	lb.	lb.	lb.	lb.	lb.
New South Wales (a)	16,249,762	20,413,330	19,234,681	19,044,294	21,068,976
Victoria (a)	15,139,100	17,396,798	19,269,125	22,540,973	21,993,869
Queensland	11,337,050	12,386,417	15,130,545	16,219,969	15,640,561
South Australia (a)	4,172,372	5,089,424	5,002,199	5,095,970	5,374,457
Western Australia (b)	2,077,662	1,962,621	2,050,220	2,420,585	2,797,151
Tasmania	1,267,061	1,356,329	1,778,015	2,271,141	2,428,966
Federal Cap. Territory	7,480	9,540	11,185	7,815	7,820
Total	50,250,487	58,614,459	62,475,970	67,600,747	69,311,800

(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 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, 1920 TO 1924.

Particulars.	1920.	1921.	1922.	1923.	1924.
	lb.	lb.	lb.	lb.	lb.
Total	47,151,519	55,926,806	60,753,826	66,372,107	67,969,350
Per head of population	8.71	10.15	10.78	11.54	11.57

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, 1920-21 TO 1924-25.

Particulars.	1920-21.	1921-22.	1922-23.	1923-24.	1924-25.
Pigs.					
Imports	No. 11	31	31	13	10
"	£ 65	194	596	376	150
Exports	No. 166	119	67	38	65
"	£ 1,199	990	510	288	676
Net Exports	No. 155	88	36	25	55
"	£ 1,134	796	-86	-88	526
BACON AND HAM.					
Imports	lb. 14,610	25,292	149,270	320,030	322,106
"	£ 1,479	1,610	8,414	19,005	18,492
Exports	lb. 3,113,578	2,712,945	1,871,414	1,548,670	1,664,556
"	£ 323,280	223,067	158,414	132,581	124,891
Net Exports	lb. 3,098,968	2,687,653	1,722,144	1,228,640	1,342,450
"	£ 321,801	221,457	150,000	113,576	106,399

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

PIG PRODUCTS.—AUSTRALIAN TRADE, 1920-21 TO 1924-25—*continued.*

Particulars.	1920-21.	1921-22.	1922-23.	1923-24.	1924-25.
<b>LARD.</b>					
Imports .. .. lb.	42,795	115,659	505,827	574,733	112,084
£	1,825	3,625	12,905	17,181	4,080
Exports .. .. lb.	3,118,105	2,909,658	1,358,291	651,530	1,523,530
£	153,084	88,753	38,491	24,027	42,744
Net Exports .. lb.	3,075,310	2,793,999	852,464	76,797	1,411,446
£	151,259	85,128	25,586	6,846	38,664
<b>FROZEN PORK.</b>					
Imports .. .. lb.	..	..	370,094	1,679,278	962,639
£	..	..	14,486	63,908	35,695
Exports .. .. lb.	163,303	152,584	144,796	53,142	61,393
£	9,370	7,414	6,282	2,099	2,749
Net Exports .. lb.	163,303	152,584	-225,298	-1,626,136	-901,246
£	9,370	7,414	-8,204	-61,809	-32,946

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 £227,365, the bulk of the shipments consisting of bacon, ham and lard.

## § 4. Total Dairy Production.

The total dairy production of Australia in 1924-25 is shown below :—

## TOTAL DAIRY PRODUCTION.—AUSTRALIA, 1924-25.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust. (a)	Tasmania.	Fed. Cap. Ter.	Total.
<b>MILK.</b>								
Used for—	gallons.	gallons.	gallons.	gallons.	gallons.	gallons.	gallons.	gallons.
Butter ..	251,996,370	226,979,340	143,088,224	33,749,539	6,844,365	14,604,188	54,345	677,316,371
Cheese ..	8,015,363	7,131,470	12,462,873	3,578,648	5,298	1,135,220	..	32,328,872
Condensing and concentrat- ing ..	2,010,155	12,961,290	2,657,981	..	..	..	..	17,629,426
Other pur- poses ..	54,788,442	47,692,770	11,864,622	8,098,206	6,513,083	6,100,592	61,325	135,119,040
Total ..	316,810,330	294,764,870	170,073,700	45,420,393	13,362,746	21,840,000	115,670	862,393,709
<b>BUTTER.</b>								
In Factories	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.
On Dairy	112,504,674	95,454,295	67,915,838	12,432,843	1,060,242	4,590,505	..	294,558,397
and other								
Farms ..	4,691,197	5,395,087	2,490,654	3,633,851	1,302,388	1,865,241	15,476	19,393,894
Total ..	117,195,871	100,849,382	70,406,492	16,066,694	2,962,630	6,455,746	15,476	313,952,291

(a) For year ended 31st December, 1924.

TOTAL DAIRY PRODUCTION.—AUSTRALIA, 1924-25—*continued*.

Particulars.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust. (a)	Tasmania.	Fed. Cap. Ter.	Total.
CHEESE.								
In Factories	lb. 7,602,232	lb. 5,964,356	lb. 12,638,700	lb. 3,743,388	lb. ..	lb. 692,416	lb. ..	lb. 30,641,092
On Dairy and other Farms ..	103,364	228,779	5,163	240	4,055	459,599	..	801,200
Total ..	7,705,596	6,193,135	12,643,863	3,743,628	4,055	1,152,015	..	31,442,292

## CONDENSED, CONCENTRATED, OR POWDERED MILK.

In Factories	lb. 5,804,191	lb. 45,693,120	lb. 10,511,919	lb. ..	lb. ..	lb. ..	lb. ..	lb. 62,009,230
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## BACON AND HAM.

In Factories	lb. 19,764,983	lb. 20,431,914	lb. 15,334,549	lb. 4,785,763	lb. 62,607,998	lb. 1,677,471	lb. ..	lb. 64,602,678
On Dairy and other Farms ..	1,303,993	1,561,955	306,012	588,694	189,153	751,495	7,820	4,709,122
Total ..	21,068,976	21,993,869	15,640,561	5,374,457	2,797,151	2,428,966	7,820	69,311,800

(a) For year ended 31st December, 1924. (b) A portion only from pigs slaughtered in the State, the balance being imported and subsequently cured.

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 1924-25:—Casein, 2,716,042 lb.; milk sugar, 415,753 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, and poultry experts give lectures and instruction. 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, 1920-21 TO 1924-25.

Year.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania. (a)	Australia.
	£	£	£	£	£	£	£
1920-21 ..	3,196,000	4,545,620	449,827	1,164,999	189,658	300,000	9,846,104
1921-22 ..	2,650,000	4,406,750	429,983	1,027,634	208,429	300,000	9,022,796
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

(a) Estimated.



3. **Oversea Trade in Poultry Products.**—The Australian oversea trade in poultry products is limited to a small annual consignment of eggs from New South Wales to the United Kingdom. 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, 1920-21 TO 1924-25.**

Particulars.	1920-21.	1921-22.	1922-23.	1923-24.	1924-25.
<b>LIVE POULTRY.</b>					
Imports .. .. No.	484	663	791	881	459
" .. .. £	850	1,170	1,534	3,981	1,084
Exports .. .. No.	2,886	2,626	2,872	2,234	2,057
" .. .. £	2,741	3,272	2,682	1,707	1,527
Net Exports .. No.	2,402	1,963	2,081	1,353	1,598
" .. .. £	1,891	2,102	1,148	2,274	443

<b>FROZEN POULTRY.</b>					
Imports .. .. lb.	4,087	2,712	4,784	5,438	11,591
" .. .. £	328	178	228	269	752
Exports .. .. pair	22,376	50,367	34,399	10,882	10,898
" .. .. £	29,963	50,205	42,951	11,270	14,141
Net Exports .. (a)	(a)	(a)	(a)	(a)	(a)
" .. .. £	29,635	50,027	42,723	11,001	13,389

<b>EGGS.</b>					
Imports .. .. doz.	27,452	33,558	26,750	28,123	30,051
" .. .. £	1,802	1,994	1,591	1,707	1,796
Exports .. .. doz.	413,602	808,849	1,236,033	655,620	692,015
" .. .. £	53,932	75,857	102,946	52,743	53,538
Net Exports .. doz.	386,150	775,291	1,209,283	627,497	661,964
" .. .. £	52,130	73,863	101,355	51,036	51,742

<b>EGG-CONTENTS.</b>					
Imports .. .. lb.	23,898	26,590	33,672	34,418	32,105
" .. .. £	4,446	4,091	5,250	7,845	7,190
Exports .. .. lb.	(a)	(a)	(a)	(a)	(a)
" .. .. £	27,298	12,116	38	212	144
Net Exports .. lb.	(a)	(a)	(a)	(a)	(a)
" .. .. £	22,852	8,025	-5,212	-7,633	-7,046

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 1924-25 gave an average of 74 lb. per hive, while the average quantity of wax was 0.89 lb. per hive.

2. **Production of Honey and Beeswax.**—The number of hives and the production of honey and beeswax during the year 1924–25 are given in the following table :—

**BEE-HIVES, HONEY, AND BEESWAX, 1924–25.**

State.	Bee Hives.			Honey Produced.		Beeswax Produced.	
	Pro- ductive.	Unpro- ductive.	Total.	Quantity.	Value.	Quantity.	Value.
	No.	No.	No.	lb.	£	lb.	£
New South Wales ..	34,675	5,431	40,106	3,088,550	57,910	40,043	2,586
Victoria ..	55,616	16,302	71,918	4,054,975	84,479	47,117	3,337
Queensland ..	11,588	3,595	15,183	691,136	12,388	9,883	566
South Australia ..	32,725	5,317	38,042	2,764,389	46,073	27,837	1,624
Western Australia ..	10,193	3,028	13,221	378,889	7,584	6,844	476
Tasmania ..	4,822	3,060	7,882	95,476	3,580	1,666	70
Fed. Cap. Territory..	17	..	17	1,600	30	65	4
Australia ..	149,636	36,733	186,369	11,075,015	212,044	133,455	8,663

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

**HONEY AND BEESWAX PRODUCTION, 1920–21 TO 1924–25.**

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.
1920–21	1,441,617	1,724,942	426,662	1,821,811	149,226	85,125	1,760	5,651,143
1921–22	2,986,574	2,712,675	598,357	791,324	196,440	82,920	2,500	7,370,790
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	3,088,550	4,054,975	691,136	2,764,389	378,889	95,476	1,600	11,075,015
<b>BEESWAX.</b>								
	lb.	lb.	lb.	lb.	lb.	lb.	lb.	lb.
1920–21	23,234	24,222	7,501	17,501	3,849	1,788	86	78,181
1921–22	28,255	32,737	8,231	9,108	3,980	1,976	130	84,417
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

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 9,343,446 lb. of honey and 132,477 lb. of beeswax, while the Victorian figures amounted to 12,888,305 lb. and 156,629 lb. respectively for honey and beeswax. These two States together accounted for 63½ per cent. of the total production of honey, and 64 per cent. of the beeswax. Next in order of importance were South Australia, Queensland, and Western Australia.

3. **Oversesa 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 £18,361, or an annual average of £3,672, owing to the decrease in production. Australian honey exhibited at the Franco-British Exhibition in London in 1908 obtained the highest award. 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, 1920-21 TO 1924-25.

Particulars.	1920-21.	1921-22.	1922-23.	1923-24.	1924-25.
<b>HONEY.</b>					
Imports .. .. lb.	201,548	13,572	811	772	1,008
£	5,838	399	24	22	33
Exports .. .. lb.	97,541	94,471	57,638	41,584	137,116
£	5,328	4,448	2,718	2,060	3,807
Net Exports .. lb.	104,007	80,899	56,827	40,812	136,108
£	510	4,049	2,694	2,038	3,774
<b>BEEWAX.</b>					
Imports .. .. lb.	28,235	223,441	238,368	76,478	109,816
£	2,452	12,786	13,817	4,759	8,288
Exports .. .. lb.	7,535	2,259	671	2,046	1,956
£	810	154	61	149	187
Net Exports .. lb.	20,700	221,182	237,697	74,432	107,860
£	1,642	12,632	13,756	4,610	8,101

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 1924-25 was as follows :—

### FARMYARD, DAIRY, AND BEE PRODUCTS.—VALUE, 1924-25.

Products.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	N.T.	Fed. Cap. Ter.	Australia.
	£	£	£	£	£	£	£	£	£
Milk, consumed as such .. ..	2,602,451	2,265,407	563,570	384,665	309,371	289,778	..	2,912	6,418,154
Butter .. ..	7,243,268	6,610,704	4,862,726	1,106,782	222,499	432,586	..	956	20,485,521
Cheese .. ..	200,404	204,865	406,638	119,556	129	39,112	..	..	1,090,764
Condensed and concentrated milk ..	b 244,574	c 1,582,915	b 292,641	..	..	..	..	..	2,120,130
Bacon and ham ..	1,025,060	1,464,093	713,475	335,822	179,288	127,354	..	380	3,845,478
Pork .. ..	409,947	455,477	192,989	152,304	134,825	111,576	756	..	1,457,874
Lard .. ..	22,457	33,471	24,810	8,227	4,869	3,810	..	8	97,652
Livestock .. ..	16,716	71,785	17,940	15,148	12,242	153	530	..	134,514
Poultry and eggs ..	2,727,000	4,326,295	530,782	1,148,322	286,350	300,000	..	(a)	9,318,749
Honey and wax ..	60,496	87,816	12,954	47,697	8,060	3,650	..	34	220,707
Total .. ..	14,612,439	17,108,828	7,678,525	3,318,523	1,157,633	1,308,019	1,286	4,290	45,189,543

(a) Included with New South Wales.  
£63,517, and milk sugar £15,827.

(b) Includes other Milk Products made.

(c) Includes casein

## § 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,  
1920-21 TO 1924-25.**

Particulars.	1920-21.	1921-22.	1922-23.	1923-24.	1924-25.
QUANTITY.					
Beeswax .. .. . lb.	5,838	830	581	1,902	782
Butter .. .. . „	92,420,995	127,347,428	78,975,387	65,440,852	145,281,326
Cheese .. .. . „	9,530,221	12,670,782	5,454,415	3,787,714	10,353,950
Egg albumen and yolk .. .. . doz.	(a)	(a)	(a)	(a)	(a)
Eggs .. .. . „	413,477	807,359	1,236,033	655,215	691,740
Feathers, undressed .. .. . „	(a)	(a)	(a)	(a)	(a)
Honey .. .. . lb.	97,541	94,471	57,638	41,584	137,116
Lard .. .. . „	3,118,105	2,908,595	1,357,372	645,930	1,523,530
Meats—					
Bacon and Ham .. .. . „	3,113,488	2,712,911	1,871,414	1,548,670	1,664,556
Frozen Poultry .. .. . pair	22,376	50,367	34,399	10,882	10,898
Frozen Pork .. .. . lb.	163,309	152,584	137,946	53,142	61,393
Milk, concentrated and preserved .. .. . „	37,281,554	36,673,109	21,135,137	17,762,106	29,165,694
Pigs, living .. .. . No.	166	119	67	38	65
Poultry, living .. .. . „	2,880	2,624	2,858	2,174	2,057
VALUE.					
Beeswax .. .. . „	£ 628	£ 77	£ 51	£ 137	£ 69
Butter .. .. . „	11,067,104	7,968,078	6,082,414	4,874,921	10,006,081
Cheese .. .. . „	514,128	438,350	231,898	140,715	363,757
Egg albumen and yolk .. .. . „	27,055	12,061	32	210	..
Eggs .. .. . „	53,920	75,764	102,946	52,715	53,518
Feathers, undressed .. .. . „	1,133	956	1,247	303	1,112
Honey .. .. . „	5,328	4,448	2,718	2,060	3,807
Lard .. .. . „	153,084	88,694	38,447	23,809	42,744
Meats—					
Bacon and Ham .. .. . „	323,253	223,065	158,414	132,581	124,891
Frozen Poultry .. .. . „	29,963	50,205	42,951	11,270	14,141
Frozen pork .. .. . „	9,370	7,414	6,063	2,099	2,749
Milk, concentrated and preserved .. .. . „	2,184,761	2,131,279	1,325,883	1,079,943	1,694,230
Pigs, living .. .. . „	1,199	990	510	288	676
Poultry, living .. .. . „	2,731	3,268	2,640	1,649	1,527
Total .. .. . „	14,373,657	11,004,649	7,996,214	6,322,700	12,309,302

(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 1920 to 1924 :—

**DAIRY PRODUCTS.—IMPORTS, UNITED KINGDOM, 1920 TO 1924.**

Products.	1920.	1921.	1922.	1923.	1924.
Butter .. .. . cwt.	1,702,203	3,523,976	4,268,561	5,095,511	5,287,244
„ .. .. . „	24,518,748	42,339,947	37,315,536	44,234,534	49,647,492
Cheese .. .. . cwt.	2,750,260	2,817,465	2,659,345	2,838,546	2,887,413
„ .. .. . „	20,633,946	17,446,521	12,437,818	15,260,707	13,552,406
Milk, concentrated and preserved .. .. . cwt.	2,127,199	2,350,610	2,059,050	2,366,532	2,333,701
„ .. .. . „	13,083,697	11,303,566	6,588,155	6,716,648	6,183,530
Bacon and ham .. .. . cwt.	5,935,981	6,804,875	7,365,394	9,540,241	9,509,399
Pork (a) .. .. . cwt.	53,339,250	51,745,149	44,115,900	46,536,807	45,050,619
„ .. .. . „	485,181	372,055	292,358	475,963	238,206
„ .. .. . „	3,443,332	1,863,027	1,102,304	1,898,233	952,057

(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 1924 amounted to 657,481 cwt., or about 12½ per cent. of the total importation. The Australian contribution was valued at £5,648,639, and was exceeded only by that shipped from Denmark and New Zealand.

#### BUTTER IMPORTS.—UNITED KINGDOM, 1924.

Country from which Imported.	Quantity.	Value.	Country from which Imported.	Quantity.	Value.
	Cwt.	£		Cwt.	£
Denmark ..	1,734,134	18,118,126	Latvia ..	32,251	282,309
New Zealand ..	1,081,959	9,956,812	Estonia ..	22,335	205,895
<b>Australia ..</b>	<b>657,481</b>	<b>5,648,639</b>	France ..	13,739	121,679
Argentine Republic	538,504	4,423,262	Norway ..	4,644	46,428
Irish Free State ..	461,367	4,111,403	British Possessions,		
Soviet Republics	282,585	2,338,450	n.e.i. ..	4,877	34,191
Finland ..	134,919	1,299,898	Foreign Countries,		
Canada ..	131,374	1,269,186	n.e.i. ..	2,292	20,801
Netherlands ..	92,114	840,107			
Sweden ..	57,654	587,844	Total ..	5,287,244	49,647,49½
United States of America ..	35,015	342,462			

(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, 1915 TO 1925.

Year.	Average Top Price per cwt.	Year.	Average Top Price per Cwt.
	s. d.		s. d.
1915	144 6	1921	234 0
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		

(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 1924 was £13,552,406, of which nearly £7 million worth was received from New Zealand, and £5 million worth 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 has increased from £24,568 in 1913 to £208,630 in 1924.

4. **Bacon and Ham.**—Of a total import of bacon and ham valued in 1924 at £45,059,619, the United Kingdom received imports to the value of £20,317,556 from Denmark, £14,045,261 from the United States, and £5,484,194 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 £952,057 in 1924. There was no importation from Australia, the bulk of the supplies being forwarded from the United States, 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 £299,676, and eggs to the value of £73,105 were received from Australia in 1924.