SECTION IX.

FARMYARD AND DAIRY PRODUCTION.

§ 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 previous issues of this work (see Official Year Book No. 6, pp. 430 et seq.). 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 pasturage and in the process of manufacture, coupled with effective State supervision, the dairying industry has shewn 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 true trade description, etc., 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 handmade butter was about 3 gallons, but separator butter requires less than 2\frac{1}{2} gallons.

5. Butter and Cheese Factories.—The establishments in the Commonwealth wherethe manufacture of butter, cheese, and condensed milk was carried on, numbered 531 in 1913. These were distributed as regards the various States as follows:—New South Wales, 170; Victoria, 197; Queensland, 88; South Australia, 48; Western Australia, 3; Tasmania, 25.

§ 2. Milk, Butter, and Cheese.

1. Dairy Herds.—Since the drought year 1902 there has been a general increase in the number of dairy cows. In New South Wales, Victoria, South Australia, and Tasmania—as will be seen from the table of cattle and dairy cattle given below—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 last decade. In the tables which follow in this section, the returns for the Northern Territory and the Federal Territory are, unless shewn separately, included in South Australia and New South Wales respectively, the dairy products from the newly-acquired Commonwealth territories being small. Prior to 1913 the figures for the Northern Territory were unreliable:—

CATTLE AND	DAIRY	CATTLE.	COMMONWEALTH.	1909 to	1913.

	tate.			1909.	1910.	1911.	1912.	1913.
New South Wales		All Cattle Dairy Cows		3,027,727 755,879	3.140,307 826,443	3,185,824 855,926	3,033,726 852,040	2,815,113 821,923
Victoria		All Cattle Dairy Cows	•••	1,549,640	1,547,569	1,647,127 699,555	1,508,089 655,939	1,528,553 656,080
Queensland	•••	All Cattle Dairy Cows		4 511 500	5,131,699 365,444	5,073,201 357,095	5,210,891 375,660	5.322,083 391,439
South Australia	•••	All Cattle Dairy Cows		344,034 110,757	384,862 119,628	393,566 121,803	383,418 114,734	352,905 107,879
Western Australia	•••	All Cattle Dairy Cows		793,217 29,176	825,040 30,785	843,638 27,740	806,294 27,310	834,265 30,680
Tasmania	•••	All Cattle Dairy Cows	•••	199,945 50,996	201,854 52,966	217,406 56,858	222,181 60,160	205,743 59,380
Northern Territory	•••	All Cattle Dairy Cows		414,046 464	513,383 556	459,780	405,552 300	417,643 70
Federal Territory	•••	All Cattle Dairy Cows		*	*	8,412 1,192	7,108 742	7,627 744
Commonwealth		All Cattle		11,040,391	11.744.714	11.828.954	11.577,259	11.483.882
	•••	Dairy Cows		1,906,174	2,064,599	2,120,469	2,086,885	2,068,195

^{*} Included under New South Wales.

2. Milk.—The annual quantity of milk produced per dairy cow varies greatly with locality and season, probably reaching as high as 500 gallons, but averaging for the whole of Australia, for all dairy cows and for all seasons, something under 300 gallons per annum. The best yields over a series of years appear to be in Victoria, New South Wales, and South Australia, while Western Australia and Tasmania are below Queensland. In the following table the annual average yields per cow for the last five years are taken from the number of dairy cows which were, during any part of the year, milking. The average given is considerably below that for cows which were yielding during the greater part of the year. It will be seen that the highest averages obtain in those States which have adopted more scientific methods of dairying, such as systematic breeding, culling of herds, milk testing, etc.

PRODUCTION OF MILK, COMMONWEALTH, 1909 to 1913.

Heading.	N.S.W.*	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	C'wealth.
1909—							
Dairy cows No	755,879	625,063	333,839	111,221	29,176	50,996	1.906,174
Production of milk gals Aver, yield per cow gals	201 183 337	162 994 658	70 642 888	29,778,032			481,092,361
Aver, yield per cow gal	266	261	212	268	168	227	252
1910						-2.	
Dairy cows No	000 440	000 505	005 444	100 104	20 405	F0.000	0 004 500
Production of milk gal: Aver. yield per cow gal:	826,443	668,777	365,444	120,184 34,672,756			2,064,599 572,998,277
Aver. yield per cow gal	285	294	240	288	166	251	278
1911—	200	254	240	200	100	201	210
Dairy Cows No	857,118	699,555	357,095	121,803	27,740	56,858	2.120.169
Production of milk gal	3. 237.623.000						594,726,964
Aver, yield per cow gal		340	200	230	181	250	280
1912-	1					1	
Dairy Cows No	. 852,782	655,939					
Production of milk gal							555,524,508
Aver. yield per cow gal	3. 264	304	221	240	191	250	266
1913—							1
Dairy Cows No							
Production of milk gal						11 557,309	
Aver, yield per cow gal	3. 282	331	231	256	181	195	282

^{*}Including figures for Federal Territory, which in 1911 were 1192 dairy cows; 153,090 gallons of milk averaging 128 gallons per cow; in 1912, 742 dairy cows; 106,647 gallons of milk, averaging 144 gallons per cow; and in 1913, 744 dairy cows; 89,410 gallons of milk averaging 120 gallons per cow. † Estimated. ‡ Exclusive of Northern Territory.

3. Butter and Cheese.—The butter output shews, in general, a tolerably steady increase since the drought year 1902, the most marked development being in Queensland. The production of butter reached its highest figures in 1911, the next highest yields being in 1913 and 1910. The year 1913 marks the highest cheese production, the return being upwards of 20 per cent. advance on that of 1910, the next highest record. In both butter and cheese a decrease took place in some of the States in 1907 and 1908, due to the dryness of the season. There was a recovery in 1909. For the five years from 1909 to 1913 the figures are:—

PRODUCTION OF BUTTER AND CHEESE, COMMONWEALTH, 1909 to 1913.

State.	1909.	1910.	1911.	1912.	1913.
		BUTTER.			
New South Wales* Victoria Queensland South Australia Western Australia Tasmania † Commonwealth	 1bs. 62,865,608 55,166,555 24,592,711 8,482,168 414,453 2,751,757 154,273,252	1bs. 76,624,630 70,603,787 31,255,333 10,717,486 641,491 3,365,982	1bs. 83,204,568 86,500,474 27,858,535 9,694,666 498,047 3,817,455	1bs. 76,609,528 67,655,834 30,307,339 8,394,557 448,799 3,778,104	1bs. 77,779,197 73,381,567 35,1199,387 8,036,274 518,566 3,843,247
		CHEESE.			
New South Wales Victoria Queensland South Australia Western Australia Tasmaniat	 1bs. 4,775,268 5,025,834 3,662,497 1,578,378 1,570 731,290	1bs. 5,191,089 4,530,893 4,146,661 1,796,281 3,306 868,781	1bs. 5,460,652 4,549,843 3,718,257 1,526,930 900 630,130	1bs. 5,454,685 4,176,778 3,947,615 1,958,027 623,386	1bs. 6,620,648 4,856,321 5,395,050 2,216,985 654,411
Commonwealth	 15,774,837	16,537,011	15,886,712	16,160,491	19,743,416

^{*}Including Federal Territory, where 27,630 lbs. of butter were produced in 1911; 16,561 lbs. in 1912; and 12,494 lbs. in 1913.
† Estimated.

4. Concentrated Milk.—"Condensed" or "concentrated" milk denotes milk the bulk of which is reduced by evaporation, no sweetening agent being added. When a sweetening agent is added it is called "preserved" milk. Small quantities of such milk were made prior to 1911, in which year the output for the Commonwealth was nearly doubled. In 1912 there was a further notable increase, the figures for Victoria for that and the following year shewing a marked expansion. There is still a considerable import of milk, as will be seen from the tables hereunder; but in 1912, for the first time, the balance of trade was in favour of exports. No condensed or concentrated milk is made in South Australia, Western Australia, or Tasmania. In New South Wales, Victoria, and Queensland the following quantities are returned for the last five years:—

CONDENSED AND CONCENTRATED MILK MADE, 1909 to 1913.

Y	ear,		N.S.W.	Victoria.	Queensland.	Commonwealth.
1909		-	Ibs. 2,400,687	Ibs. 3,487,312	Ibs. 7,038,202	lbs. 12,926,201
1910	•••		1,940,481	2,707,110	7,843,670	12,491,261
1911		•••	3,058,497	13,697,691	6,227,519	22,983,707
1912	•••		3,636,519	18,500,011	7,923,381	30,059,911
1913	•••		3,682,812	20,942,620	8,059,051	32,684,483

5. Oversea Trade in Milk, Butter, and Cheese.—The tables following give the imports, exports, and net exports or imports of butter, cheese, and milk. In each of the five years exports of butter exceeded imports; in two the cheese import was heavier than the export; and this was also the case with milk.

IMPORTS, EXPORTS, AND NET EXPORTS OF BUTTER, CHEESE, AND MILK, COMMONWEALTH, 1909 to 1913.

IMPORTS.

Products.						1909.	1910.	1911.	1912.	1913.
Butter					lbs.	80,111	71,695	22,607	44,142	13,844
Cheese		•••			lbs.	4,078 367,504	3,570 303,155	1,081 318,891	1,989 443,847	565 364,699
Milk—co	ncenti	ated an	d preser	ved*	1bs.	14,720 7,439,232	13,772 8,543,158	14,461 4,166,117	19,988 1,215,351	17,334 1,150,715
,,	**	"	**		£	145,736	135,297	74,278	25,949	26,579

EXPORTS.

Butter					lbs.	55,700,987 2,402,619	87,928,151 3,952,808	101,722,136 4,637,362	66,685,056 3,342,642	75,802,303 3,565,282
Cheese		•••			lbs. £	203,477 5,771	921,583 22,178	1,159,363 27,243	146,022 5,760	1,609,452 42,421
Milk—co	ncent "	rated ar	_	rved*	lbs. £	360,821 7,852	517,634 10,289	1,260,323 21,990	1,821,583 37,876	2,875,030 75,165

NET EXPORTS.†

							1	1	1	
Butter					lbs.	55,620,876	87,856,456		66,640,914	75,788,459
**		•••	•••		£	2,398,541				3,564,717
Cheese		•••	•••		1bs.[-	164,027	618,428			1,244,753
					£		8,406			25,087
Milk	concentra	ted ar	id preserv	red.*	lbs.		- 8,025,524			1,724,315
**	**	**	,,		£ -	- 137,884	- 125,008	- 52,288	11,927	48,586
					1		ì	1		

^{*} See definition above.

^{† -} signifies net imports.

6. Local Consumption of Butter and Cheese.—The total production of butter and cheese, with the net export or import subtracted or added, gives approximately the quantity available for consumption in the Commonwealth. In the period considered hereunder, 1910, 1911, and 1913 were the years in which the local supply of cheese was adequate:—

BUTTER AND CHEESE FOR LOCAL CONSUMPTION, 1909 to 1913.

	Product.	1909.	1910.	1911.	1912	1913.
Butter Cheese	 Total Per head of mean population Total Total Per head of mean population	23.1 15,938,864	lbs. 105,569,150 24.2 15,918,853 3.7	24.5	25.9	lbs. 122,969,779 25.6 18,498,662 4.8

The quantity available for consumption in 1913 averaged 25.6 lbs. of butter and 4.8 lbs. of cheese per head of mean population, an amount probably unsurpassed anywhere. The consumption of butter and cheese in the United Kingdom is given as about 20 lbs. per head.

§ 3. Pigs, Bacon, etc.

1. Pigs.—Great attention has been paid, both privately and by the various State Governments, to the improvement of marketable qualities in pigs. The number of pigs in the Commonwealth from 1909 to 1913 is shewn below:—

NUMBER OF PIGS, COMMONWEALTH, 1909 to 1913.

State.	1909.	1910.	1911.	1912.	1913.
New South Wales Victoria	237,849 217,921	321,632 333,281	370,700 348,069	293,450 240,072	287,896 221,277
Queensland South Australia Western Australia	124,803 80,410 47,062	152,212 96,386 57,628	173,902 93,130 55,635	143,695 69,832 47,351	140,045 64,119 47,966
Tasmania Northern Territory	55,705 1,387	63,715 996	67,392 1,500	49,152 1,500	37,990 1,018
Federal Territory	<u> </u>	T	393	203	194
Commonwealth	765,137	1,025,850	1,110,721	845,255	800,505

[†] Included in New South Wales.

Prior to 1911 the number of pigs was highest in 1904, when for the first time it was over a million; prior to 1899 it had never reached 900,000. An examination of the returns shews remarkable fluctuations. There was a general decrease in 1906 and the two following years. Recovery began in 1909, and continued through 1910 and 1911; but 1912 and 1913 shew a heavy fall. The number of pigs per head of population, and the number per square mile, will be found in the tables of live stock, pages 277 and 278.

2. Bacon and Ham.—From 1905 to 1908 the production of bacon and ham in the Commonwealth shewed little annual variation. In 1909 there was a considerable falling-off, but a large increase has taken place in subsequent years.

PRODUCTION OF BACON AND HAM, COMMONWEALTH, 1909 to 1913.

State.	1909.	1910.	1911.	1912.	1913.
New South Wales* Victoria Queensland South Australia	 3,348,050	1bs. 12,620,067 16,438,837 10,758,963 3,741,942	1bs. 16,102,827 19,546,772 11,667,654 4,311,497	1bs. 16,526,376 20,043,706 12,437,019 3,771,064	1bs. 15,192,263 19,289,258 13,709,716 3,265,773
Western Australia Tasmania† Commonwealth	 120,623 1,526,115 ———————————————————————————————————	121,154 1,468,789 45,149,752	97,136 1,538,766 53.264,652	114,950 1,299,060 54.192,175	100,143 1,116,535

^{*}Including Federal Territory, where 22,670 lbs. of bacon and ham were produced in 1911; 15,196 lbs. in 1912; and 11,885 lbs. in 1913. † Estimated prior to 1913.

3. Oversea Trade in Pig Products.—The oversea trade in pigs and pig products is shewn in the following tables:—

IMPORTS, EXPORTS, AND NET EXPORTS OF BACON AND HAM, FROZEN PORK, PIGS, AND LARD, COMMONWEALTH, 1909 to 1913.

Pa	rticulars.			1909.	1910	1911	1912.	1913.
	•		В	ACON ANI	Э НАМ.			
Imports	•••		lbs.	244,903	204,488	201,309	294,130	126,692
-,,			£	9,384	8,687	8,566		6,301
Exports			lbs.		1,605,699	2,340,612	2,174,114	1,866,894
	•••		£	18,979	57,060	74,178		74,718
Net Exports	•••		lbs.	158,898	1,401,211	2,139,303	1,879,984	1,740,202
,, -	•••	•••	£	9,595	48,373	65,612	56,541	68,417
]	FROZEN I	Ровк.			
Imports			lbs.	109,620	106,757		79,052	
,,			£	3,301	3,227		2,592	l
Exports			lbs.	394,559	741,410	1,641,013	897,929	215,175
-,,	•••		£	9,318	17,087	33,639	16,661	5,259
Net Exports			lbs.	284,939	634,653	1,641,013	818,877	215,175
,,	•••	•••	£	6,017	13,860	33,639	14,069	5,259
				Pigs	3.	<u>.</u>		,
Imports			No.	31	50	35	14	20
,,			£	1,177	799	539		54
Exports			No.	229	303	385		440
	•••		£	460	477	748		1,336
Net Exports*			No.	198	253	350	,,	420
	•••		£	717	-322	209		1,282

^{* -} signifies net imports.

IMPORTS, EXPORTS, AND NET EXPORTS OF BACON AND HAM, FROZEN PORK, PIGS, AND LARD, COMMONWEALTH, 1909 to 1913—Continued.

Pa	rticulars.			1909.	1910.	1911.	1912.	1913.				
LARD.												
Imports			lbs.	358,213	198,897	387,626	794,961	884,81				
,,			£	9,148	5,573	9,870	22,096	23,90				
Exports			lbs.	1,618,995	3,112,190	3,399,386	2,092,422	4,299,98				
·,, ···			£	28,948	62,664	57,861	37,063	85,194				
Net Exports			lbs.	1,260,782	2,913,293	3,011,760	1,297,461	3,415,17				
,,			£	19,800	57,091	47,991	14,967	61,29				

From 1901 to 1903 there was a considerable net import of bacon and ham, but for the following years there was a large net export. The local production of frozen pork and lard was for each of the years shewn more than sufficient for the local demand. The net export of pig products was considerably greater in 1910 and 1911 than in previous years. There was a decline in 1912, and a further falling off in 1913.

4. Local Consumption of Bacon and Ham.—From 1904 to 1913 the production of bacon and ham was sufficient to meet the local demand, and there was a surplus for export, but in 1901, 1902, and 1903 this was otherwise, and considerable quantities were imported.

BACON AND HAM AVAILABLE FOR LOCAL CONSUMPTION, 1909 to 1913.

Consumption.	1909.	1910.	1911.	1912. •	1913.
Dan band of more namelation	1bs.	1bs.	1bs.	1bs.	1bs.
	37,616,069	43,748,541	51,125,349	52,312,191	50,933,486
	8.8	10.0	11.4	11.3	10.6

5. Total Dairy Production.—The total dairy production of the Commonwealth in 1913 is shewn below:—

TOTAL DAIRY PRODUCTION, COMMONWEALTH, 1913.

Where Produced.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	C'wealth.
-			MILK.				·
On Dairy & other Farms	gallons. 231,592,000 *	gallons. 216,947,170	gallons. 90,545,516	gallons. 27,593,023	gallons. 5,550,197	gallons. 11,557,309	gallons. 583,785,215
		В	UTTER.				
In Factories On Dairy & other Farms		lbs. 67,701,897 5,679,670	lbs. 33,122,143 2,077,244	lbs. 4,415,074 3,621,200	lbs. 146,953 371,613	1bs. 2,754,855 1,088,392	Ibs. 181,386,305 17,371,933
Total	77,779,197*	73,381,567	35,199,387	8,036,274	518,566	3,843,247	198,758,238

TOTAL DAIRY PRODUCTION, COMMONWEALTH, 1913-Continued.

Where Produced.	N.S.W.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tas.	C'wealth.
		С	HEESE.				
In Factories On Dairy & other Farms	1bs. 3,451,710 3,168,938*	lbs. 2,847,951 2,008,370	lbs. 5,261,882 133,168	lbs. 2,214,865 2,120	lbs. 	1bs. 442,897 211,514	lbs. 14,219,305 5,524,110
Total	6,620,648	4,856,321	5,395,050	2,216,985		654,411	19,743,415
	CONDEN	SED OR (CONCENT	RATED 1	lik.		
In Factories	lbs. 3,682,812	lbs. 20,942,620	lbs. 8,059,051				1bs. 32,684,483
		BACON	AND H	M.			
In Factories On Dairy & other Farms	lbs. 12,874,666 2,317,597*	1bs. 16,345,955 2,943,303	lbs. 12,840,736 868,980	1bs. 2,520,035 745,738	1bs. 100,143	1bs. 784,559 331,976	lbs 45,365,951 7,307,737
Total	15,192,263*	19,289,258	13,709,716	3,265,773	100,143	1,116,535	52,673,688

^{*} Including Federal Territory, where there was produced 89,410 gallons of milk; also 12,494 lbs. of butter on farms; also 11,885 lbs. of bacon and hams (on farms). † Exclusive of Northern Territory, for which no returns are available.

§ 4. Poultry Farming.

- 1: Development of the Industry.—Poultry stocks are usually maintained by farmers and furnish a considerable addition to the annual agricultural or dairying returns. During recent years the poultry industry has assumed an independent position among rural industries. It is also carried on in conjunction with pig farming. Special poultry farms have been instituted for scientific breeding. Poultry experts engaged by the State Governments give lectures and instruction. Poultry for consumption is extensively reared, and the egg-producing qualities of the birds have also 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. Production of Poultry.—Figures for the yield of poultry products are difficult to obtain. The following values are returned:—

ESTIMATED VALUE OF POULTRY AND EGGS, COMMONWEALTH, 1909-10 to 1913-14.

Year.	n.s.w.	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania.	C'wealth.
1910-11 1911-12 1912-13	£ 1,309,000 1,170,000 1,200,000; 1,434,000; 1,579,600;	1,825,010	£ 185,000 204,000 195,000 188,000 219,400	£ 431,575 496,311 533,941 541,489 569,254	£ 160,562 168,251 175,890 183,689 223,713	\$227,000 \$230,000 \$230,000	£ 3,656,137† 3,857,562 3,953,331 4,402,188 4,528,667

3. Oversea Trade in Poultry Products.—The imports and exports of eggs shew a considerable balance on the side of imports in each of the years 1901 to 1906 and during the last five years. In 1907 the export greatly exceeded the import, and in 1908 the imports were greater in quantity, but less in value, than the exports. The figures for frozen poultry indicate a considerable oversea export.

IMPORTS, EXPORTS, AND NET EXPORTS OF EGGS AND LIVE AND FROZEN POULTRY, COMMONWEALTH, 1909 to 1913.

Partic	culars.		1909.	1910.	1911.	1912.	1913.
			Eogs.		•		
Imports	•••	doz.	38,931 1,007	39,330 1,111	40,969 1,209	45,160 1,464	53,577 1,748
Exports		doz.	10,527	3,853 326	5,734 1,124	6,211 518	4,872 377
Net exports*	•••	doz. £	- 28,404 - 294	—35,477 — 785	 35,235 85	38,949 946	- 48,705 - 1,371
			LIVE POUI	TRY.	·	l	
Imports	•••	No.	1,862	1,274	2,398	1,720	1,725
Exports	•••	£ No.	944 4,708	663 3,251	964 2,218	1,460 3,859	913 2,480
Net exports*	•••	£ No.	1,475 2,846	1,057 1,977	1,068 - 180	1,231 2,139	1,074 755
" "		£	531	394	104	229	161
		F1	ROZEN PO	ULTRY.			
Imports	•••	1bs.	3,565	4,811	5,653	2,102	10,328
Exports	•••	£ pair	. 100 5,828	7,680	257 16,869	23,390	$\frac{475}{25,520}$
Net exports	•••	£	3,127	4,171	7,470	10,144	10,979 15,192
" "		£	3,027	4,040	7,213	10,080	10,504

^{* —} signifies net imports.

§ 5. Bee Farming.

1. The Bee-farming Industry.—Bee farming, like poultry farming, has ordinarily been an adjunct to agricultural or dairying industries, and can hardly yet be said to have been organised as a distinct industry. The annual returns of honey from the hives range between 20 lbs. and 60 lbs. per hive.

The value of the export of honey from Australia was only £2675 in 1909, £2439 in 1910, £4414 in 1911, £1924 in 1912, and £4094 in 1913. It is believed that this export could be considerably increased. Australian honey exhibited in the Franco-British Exhibition in London in 1908, obtained the highest award, thus evidencing the purity of its flavour.

2. Production of Honey and Beeswax.—The particulars of honey and beeswax production are as given below:—

[†] Quantity not available.

NUMBER OF HIVES AND PRODUCTION OF HONEY AND BEESWAX, SEASON 1913-14.

State.	1	Bee Hives.		Honey Pr	oduced.	Beeswax Produced.		
	Productive	oductive Un- productive Total. Quantity. Value. Quan		Quantity.	Value.			
New South Wales Victoria Queensland South Australia Western Australia Tasmania Federal Territory	No. 43,895 41,397 13,862 19,808	No. 10,968 14,168 2,599 7,909 1,910 2,946 61	No. 54,863 55,565 16,461 27,717 7,873 10,110 156	1bs. 1,862,471 1,961,746 754,760 876,395 156,162 180,472 4,364	£ 27,440 26,565 9,042 12,781 1,952 3,008 60	1bs. 39,060 37,323 12,059 11,607 3,910 4,630 184	£ 2,490 2,449 648 677 228 289 10	
Commonwealth	132,184	40,561	172,745	5,796,370	80,848	108,773	6,791	

QUANTITY OF HONEY AND BEESWAX PRODUCED, 1909-10 to 1913-14.

Season.	N. S. Wales	Victoria.	Q'land.	S. Aust.	W. Aust.	Tasmania	Fed.Ter.	C'wealth.
				HONEY.				
1909-10 1910-11 1911-12 1912-13 1913-14	2,765,618 3,394,489 2,390,355	lbs. 1,611,284 2,308,405 1,635,260 3,277,590 1,961,746	1bs. 548,171 517,565 574,973 581,228 754,760	lbs. 812,487 996,376 760,094 1.446,364 876,395	416,823 292,515	lbs. * * * * 180,472	38,764 19,645 4,364	lbs. 5,447,6171 6,926,4711 6,820,4031 8,007,6971 5,796,370
			E	BEESWAX				
1909-10 1910-11 1911-12 1912-13 1913-14	72,617 66,686	22,369 34,695 28,405 45,354 37,323	11,849 11,798 11,419 11,744 12,059	10,059 10,608 9,745 18,054 11,607	9,841 7,215 13,730 6,073 3,910	* * * * 4,630	 672 467 184	107,124† 136,933† 130,657† 130,959† 108,773

^{*} Not available. † Exclusive of Tasmania.

The quantity of honey and beeswax produced from year to year varies considerably according to the climatic conditions of the seasons. During the past five years New South Wales has been the largest producer, accounting for nearly 38 per cent. of the total honey produced in the Commonwealth, and 46 per cent. of the beeswax; Victoria, the next in importance, produced about 33 per cent. of the honey, and 27 per cent. of the beeswax, South Australia, Queensland, and Western Australia coming next in the order named.

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3. Oversea Trade in Bee Products.—Both honey and beeswax are produced in the Commonwealth in sufficient quantities to supply all local requirements, and a considerable quantity of each is sent oversea.

IMPORTS, EXPORTS, AND NET EXPORTS OF HONEY AND BEESWAX, COMMONWEALTH, 1909 to 1913.

	Particu	ılars.			1909.	1910.	1911.	1912	1913.
				н	ONEY.	·			
Imports				lbs.	9,842 249	872 23	2,477 93	5,024 89	636
Exports		•••		lbs.	168,953	182,083	353,367	135,318	284,322
Net Exports	•••	···		£ lbs.	2,675 $159,111$	2,439 $181,211$	4,414 350,890	1,924 $130,294$	4,094 283,686
"	•••	•••	•••	£	2,426	2,416	4,321	1,835	4,075
				BE	ESWAX.				
Imports	•••	•••		lbs.	19,041	7,821	8,335	7,212	6,059
Exports	•••	•••	•••	£ lbs.	1,112 35,540	505 26,408	564 12,691	536 9,453	480 10,45
-,,	•••	•••	•••	£	2,064	1,587	751	581	65'
Net Exports	•••	•••	•••	lbs. £	16,499 952	18,587 1,082	4,356 187	2,241	4,39 17

§ 6. Summary of Australian Farmyard and Dairy Products.

The value of the principal farmyard and dairy products raised in the Commonwealth in 1913 was:—

VALUE OF THE PRINCIPAL FARMYARD AND DAIRY PRODUCTS IN THE COMMONWEALTH DURING THE YEAR 1913.

Produce.	n.s.w.	Victoria.	Q'land.	S. Aust.	W. Aus.	Tas.	N. T.	Fed. Ter.	C'wealth.
3.533	£	£	£	£	£	£	£	£	£
Milk,cons'm'd									
as such	938,900	900,200	239,000	191,900	109,000	57,500	1,200	1,100	2,438,800
Butter	3,461,200	3,341,900	1,582,100	416,150	29,000	186,550	(a)	600	9,017,500
Cheese	174,400	126,700	140,550	53,060		13,620	(a)		508,330
O'densd & con-				'					, , , , , ,
cen'ted milk	52,734	386,300	187,536						626,570
Bacon & ham	511,400	810,600	447,380	131,690	3,350	41,075		400	1,945,895
Poultry & eggs	1,578,000	1,706,700	219,400	569,254	223,713	230,000		1,600	4,528,667
Honey & wax	29,930	29,014	9,690	13,458	2,180	3,297		70	
		<u>i ·</u>		1	l	1			

§ 7. Summary of Australian Farmyard and Dairy Products Exported, 1909 to 1913.

The quantities and values of Australian farmyard and dairy products exported from the Commonwealth during each of the last five years are shewn below:—

~QUANTITIES OF AUSTRALIAN FARMYARD AND DAIRY PRODUCTS EXPORTED FROM THE COMMONWEALTH DURING EACH OF THE YEARS 1909 to 1913.

	P	roduc	ts.		1909.	1910.	1911.	1912.	1913.
Beeswax				 lbs.	35,540	26,408	12,671	9,347	10.455
Butter		•••		 ,,	55,644,925	87,894,943	101,722,136		75,795,642
Cheese	***		•••	 **	193,204	911,760	1,149,134	136.452	1,602,609
Egg album	en and y	olk –			*	*	*	*	*
Eggs				 doz.	10,359	3,753	5,542	6,163	4,872
Feathers, u	ndresse	d			*	*	*		*
Honey				 lbs.	168,953	182,023	353,367	135,318	284,322
Lard		•••	•••	 **	1,617,442	3,105,307	3,399,209	2,090,477	4,279,440
Meats—					/	1			
Bacon an	d ham			 ,,	396,342	1,604,362	2,338,299	2,172,880	1,846,966
Frozen pe	oultry			 pair	5,828	7,660	16,869	23,390	25,520
	ork	,		 lbs.	394,559	741,410	1,641,013		215,175
Milk, conce		& pres	served	 **	169,310	266,904	1,017,072	1,646,414	2,779,963
Pigs, living		,	•••	 No.	229	303	385	609	440
Poultry, liv	ing			 ,,	4,708	3,251	2,198	3,849	2.480

^{*} Quantity not available.

VALUE OF AUSTRALIAN FARMYARD AND DAIRY PRODUCTS EXPORTED FROM THE COMMONWEALTH DURING THE YEARS 1909 to 1913.

	F	roducts.				1909. 1910.	1910.	1911.	1912.	1913.
						£	£	£	£	£
3eeswax			•••			2,064	1,587	749	575	657
Butter			•••			2,399,693	3,951,131	4,637,362	3,342,320	3,564,92
Cheese			•••			5,337	21,730	26,754	5,303	42,030
Egg albume	en and yo	lk				4	724	651		1
Eggs						706	320	437	516	37'
eathers, u	ndressed		•••			2,244	2,021	2,971	2,926	1.57
Ioney		•••	•••		•••	2,675	2,435	4,414	1,924	4,09
ard			•••	3		28,876	62,474	57,854	37,007	84,73
Meats-						,			•	
Bacon an	d ham					18,682	56,995	74,065	68,439	73,98
Frozen po	oultry	•••				3,127	4,171	7,470	10,144	10,97
	ork					9,318	17,087	33,639	16,661	5,25
Milk, conce	ntrated a	nd preser	rved	•••	•••	3,319	4,865	16,675	34,317	72,95
igs, living			***			460	477	748	1,025	1,33
Poultry, liv	ing	•••	•••	•••	•••	1,475	1,057	1,038	1,209	1,07
Tota	al					2,477,980	4,127,074	4.864.827	3,522,366	3,863,97

§ 8. British Imports of Dairy Products.

1. Value of Britain's Imports of Dairy Products.—Great Britain has paid annually since 1909, £24,000,000 for imported butter, the value of the imports in 1909, 1910, 1911, 1912, and 1913 being £22,425,000, £24,493,000, £24,600,000, £24,354,000, and £24,084,000, respectively; for imported cheese the amounts in the years named were respectively £6,830,000, £6,810,000, £7,140,000, £7,414,000, and £7,035,000; for bacon and ham, £16,914,000, £15,918,000, £17,391,000, £17,276,000, and £20,497,000, respectively; and for pork, £1,336,000, £1,500,000, £1,413,000, £1,101,000, and £1,665,000, respectively.

2. Butter.—Australia in 1911 stood second, and in 1912 and 1913 third, in the value of butter imported into the United Kingdom; but the import of other Australian dairy products was inconsiderable.

Country from which Imported.		Quantity.	Value.	Country from which Imported.	Quantity.	Value.
Denmark Russia Australia New Zealand Sweden France Netherlands		Cwt. 1,706,759 751,414 594,552 251,663 332,331 248,579 153,172	£ 10,657,589 3,831,366 3,210,733 1,351,285 2,047,634 1,505,442 921,738	Argentine Republic Norway Other Countries	20,132	£ 394,529 119,808 43,534 24,083,658

IMPORT OF BUTTER INTO THE UNITED KINGDOM, 1913.

In October, 1907, a falling-off of imports of Australian butter into Great Britain was noticed, with the result that, three months later, there was a heavy shortage, accompanied by rapidly rising prices, until a limit was reached with 156s. per cwt., the highest recorded for Australasian butter. After a short period of high values in February, 1908, prices steadied at 116s., and then gradually fell to 104s. in the middle of May, when European grass-fed butter was ready for the British market. In January, 1910, the average price was 111s. After a fall in 1911, 134s. was reached in the middle of January, 1912. These high values were followed by a rapid decline. Higher prices were again in evidence as 1913 advanced, 128s. being obtained for best unsalted butter in October and November of that year. Prices in London during the last five years have been considerably higher than the average of any previous year since the Australian export trade was instituted twenty years ago. A marked approach to Danish values has lately been made in the prices of Australian butter.

- 3. Cheese.—The value of the British cheese import in 1913 was £7,035,000, of which over four million pounds' worth was received from Canada. Small experimental shipments from Australia were made in 1908 and following years, a fair price being realised. In 1913, the value of the import from Australia was £24,600.
- 4. Bacon and Ham.—Of a total import of bacon and ham valued in 1913 at £20,497,000, Great Britain received imports to the value of £8,870,000 from Denmark; £8,838,000 from the United States; and £1,200,000 from Canada. The British import from Australia was small, but experimental shipments have been made during recent years.
- 5. Pork.—The total value of British imports of pork (including refrigerated, frozen and salted) was £1,665,000 in 1913. Of this the value of Australian produce was nil, whilst from the Netherlands, pork valued at £1,269,000 was imported into Great Britain.
- 6. Other Products.—There is practically no British import from Australia of honey, beeswax, poultry, game, lard, or eggs, but frozen rabbits to the value of £571,000 were received from the Commonwealth in 1913.

§ 9. Graphical Representation of Dairy Production.

Two graphs shewing respectively the increase in dairy production and in the exports of butter will be found on page 292.