SECTION IX.

FARMYARD AND DAIRY PRODUCTION.

§ 1. Introductory.

1. General.—The live stock which accompanied Captain Phillip in 1788 included one bull, four cows, one calf and seven pigs, these being established at Farm Cove when Port Jackson was settled. The greater part of the early shipments of cattle were slaughtered to relieve the necessity of early colonists in the famines, which several times threatened the existence of the young community. The existing herds have sprung not only from the original stud, but have been steadily improved by the introduction of stud cattle and pigs, continually increasing attention being paid thereto, especially perhaps of late years. Stock-raising with regard to the special requirements of dairying, etc., has in fact been properly considered only in recent times. The technical advances made in the manufacture of butter, cheese, etc., in Europe, and the necessity of having regard thereto in connection with the export trade of Australia, demanded in Australian stock-raising a judicious crossing of strains with a view to increasing the essential contents in the milk for the production of butter or cheese; the eradication of grasses of little or no use, and the planting in lieu thereof of leguminosæ, grasses and other plants, so as to amplify the nutrient qualities of the natural herbage, which, however, it may be said, is very often The importation of British and other cattle for breeding purposes is ordinarily excellent. under private enterprise. Government supervision has at times been found necessary in order to prevent the introduction of diseases and pests, with the result that there is but little disease among Australian herds. Recently some of the States Governments have made considerable importations for stud purposes. Permanent structures for the shelter of dairy herds, etc., as a rule are not required anywhere in the Commonwealth. State nurseries, however, supply to settlers, gratis, trees for making shelter belts, and these are found to be sufficient. Owing to the mildness of the Australian climate the heavy expenses for housing, stall-feeding, etc., are unnecessary. Where winter fodder must be grown it is given to the cattle in the fields, and consists mostly of lucerne, oats, maize, barley, and rye. Ensilage is highly recommended by dairy experts, and, when necessary, increasing use is made thereof. Continued expansion of the dairying industry, and particularly its extension into non-coastal districts, will involve a more general use of the silo.

Australian grasses are particularly suitable for dairy cattle, since they possess milkproducing, as well as fattening, properties. The area of land devoted to green food and permanent artificially-sown grasses is constantly increasing, its produce being, for the most part, devoted to the depasturing of dairy herds. The opinion, long held, that only heavily-grassed country with good rainfall, was profitable for dairying has been controverted by experience, it being shewn that more lightly clad regions yield good milk results.

2. State Supervision of Industry.—Each of the State agricultural departments exercises considerable supervision in regard to the industry. Dairy experts are employed to give instruction in approved methods of production, to examine animals, to inspect the buildings used for milking and separating, and to examine the marketable produce. A high standard of dairy hygiene, cleanliness of *personnel* and *materiel*, and purity of the article and freedom from adulteration have also been insisted upon under State laws.

3. Mixed Farming and Value of Dairy Production.—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 removed from the metropolis well-equipped factories have been established.

The mode of estimating the value of dairy production presents certain features which demand special attention. "Market values" and so-called "farm values" have been used. The question of value will be considered in a later section of the Year Book.

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 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 steadily diminishing. Formerly the average quantity of milk used per pound of handmade butter was about 3 gallons, but separator butter requires only about 2.6 gallons.

5. Butter and Cheese Factories .--- The establishments in the Commonwealth, where the manufacture of butter, butterine, margarine, and cheese was carried on, numbered 550 in 1906. These were distributed as regards the various States as follows:--New South Wales, 178; Victoria, 222: Queensland, 70; South Australia, 55; Western Australia, 5; Tasmania, 20.

§ 2. Milk, Butter and Cheese.

1. Dairy Herds.-Since the drought year 1902, there has been in each State, almost without exception, a yearly increase in the number of dairy cows. In New South Wales, Victoria, South Australia proper, 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 of South Australia, and Western Australia, there is a greatly preponderating number of other cattle, dairying not having been established in the tropical regions of the Continent :---

State.		1901.	1902.	1903.	1904.	1905.	1906.
New South Wales*	All Cattle	2.047.454	1.741.226	1,880,578	2,149,129	2.337.973	2,549,944
new bould males	Dairy Cows		351.287	523,438	591,936	644.164	713,049
Victoria	All Cattle	1.625.532 †	1,648,680 +	1,671,828 +	1.694.976	1.737.690	1.804.323
	Dairy Cows	483,650	510,546	515,179	632,493	649,100	701,309
Queensland	All Cattle	3,772,707	2,543,471	2,481,717	2,722,340	2,963,695	3,413,919
	Dairy Cows	136,000 ‡		119,000 ‡	144,000 1	172,000 ‡	215,000
South Australia	All Cattle	225,256	213,343	244,610	272,459	300,721	325,724
	Dairy Cows	74,995	75,011	83,348	88,156	93,069	97,843
Northern Territory	All Cattle	255,521	305,820	291,970	247,920	346,910	354,871
	Dairy Cows	894	627	902	670	756	680
Western Australia	All Cattle	398,547	437,136	497,617	561,490	631,825	690,011
- • ·	Dairy Cows	34,111	24,324	27,232	27,724	35,011	34,822
Tasmania	All Cattle	168,661	177,566	185,938	201,206	206,211	211,117
	Dairy Cows	40,933	33,316	45,018	50,230	49,618	49,132
Commonwealth'	All Cattle	8,493,678	7,067,242	7,254,258	7,849,520	8,525,025	9,343,409
	Dairy Cows	1,188,418	1,103,911	1,314,117	1,535,209	1,643,718	1,811,835

CATTLE AND DAIRY CATTLE, AUSTRALIAN COMMONWEALTH, 1901-6.

⁺ Statistics not collected : figures supplied by interpolation.
⁻ Statistics not collected : figures estimated.
⁻ In New South Wales, up to 1902 the figures include only the cows actually in milk at the time-the returns were taken. The figures for subsequent years are made up as follows :--

Year.	Milch Cows.	Cows at Present Dry.	Heifers within 3 M'ths of Calving.	Total Dairy Cows.
1903	362,429	$\begin{array}{c} 117,679\\ 131,595\\ 154,655\\ 172,888\end{array}$	43,330	523,438
1904	424,936		35,405	591,936
1905	442,950		46,559	644,164
1906	494,820		45,341	713,049

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, only about 250 gallons per annum. The best yields appear to be in New South Wales, Victoria, and Tasmania, while Western Australia is something below Queensland and South Australia. Tables giving estimated yields in New South Wales and Victoria are appended, but it is to be noted that the figures are subject to considerable uncertainty.

		1901.	1902.	1903.	1904.	1905.
Dairy cows in milk Production of milk Average yield per cow	gallons gallons	122,750,500	351,287 105,742,900 301	362,429 129,966,100 359	424,936 158,650,800 373	442,950 162,918,600 368

airy cows in milk coduction of milk verage yield per cow	 V	gallons . gallons	417,835 122,750,500 294		362,429 129,966,1/0 359		442,950 162,918,600 368
		Ме	an of last	line, 339.			
	VICTO	RIA.—YIE	ELD OF	MILK, 19	901 то 19	05.	

-	1901.	1902.	1903.	1904.	1905.
Cows whose milk was recorded Milk return from cows whose record was kept gallons Average per cow gallons		118,065 32,343,292 274	95,158 31,995,901 336	90,046 31,932,259 329	75,727 24,838,030 328

Mean, S	318.
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3. Butter and Cheese.—The butter output shews, on the whole, a tolerably steady increase in all the States excepting Tasmania, since 1902, the most marked development being in Queensland. Though the increases were not so great as was the case with butter, the production of cheese also reached its highest figure in 1906. For the six years from 1901 to 1906 the figures are :—

PRODUCTION	\mathbf{OF}	BUTTER	AND	CHEESE,	AUSTRALIAN	COMMONWEALTH,
		•	1	1901 TO 190)6.	

Year.	New South Wales.	Victoria.	Queens- land.	South Australia.	W.Aust.	Tas- mania.*	Total for C'wealth.†
BUTTER. 1901 1902 1903 1904 1905 1906	$\begin{array}{c} 29,950,977\\ 38,727,107\\ 53,591,243\\ 53,040,250\\ 58,977,189\end{array}$	158.46,857,57239,227,75446,685,72761,002,84157,606,82168,088,168	1bs.9,741,8824,851,3627,717,32517,538,47320,319,97622,746,593	1bs.4,954,5234,521,2465,995,7566,836,1708,226,8058,873,632	1bs. 336,440 321,462 351,885 441,103 423,270 380,157	$1bs. \\723,771 \\699,526 \\854,442 \\845,378 \\1,281,604 \\904,930$	1bs. 101,671,066 79,572,327 100,332,242 140,255,208 140,898,726 159,870,662
1906 CHEESB. 1901 1902 1903 1904 1905 1906	3,838,835 4,148,038 4,748,176 4,923,621 4,625,980 5,280,245	3,974,668 3,849,561 5,681,515 4,747,851 4,297,350 4,877,593	$\begin{array}{c} 2,436,912\\ 952,013\\ 1,479,651\\ 2,607,475\\ 2,682,089\\ 2,921,140\end{array}$	$\begin{array}{c} 1,053,160\\ 705,969\\ 972,584\\ 851,800\\ 1,174,867\\ 1,398,785\end{array}$	$\begin{array}{c} 3,578 \\ 1,592 \\ 8,039 \\ 350 \\ 4,831 \\ 1,314 \end{array}$	268,539 348,614 533,709 204,160 369,913 190,481	$\begin{array}{c} 11,575,692\\ 10,005,787\\ 13,423,674\\ 12,635,257\\ 13,155,030\\ 14,778,658\end{array}$

* Tasmanian statistics of the production of butter and cheese relate only to the quantities made in factories.

 \dagger The totals for the Commonwealth here given are exclusive of Tasmanian butter and cheese made elsewhere than in factories.

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 have been made, but the industry is at present by no means a large one. In New South Wales and Victoria the following quantities are returned under the respective heads "Condensed or Concentrated Milk made" and "Concentrated Milk made":— °

MILK, BUTTER, AND CHEESE.

NEW SOUTH WALES AND VICTORIA.—CONDENSED OR CONCENTRATED MILK MADE, 1901 TO 1906.

	Year.								
State.	1901.	1902.	1903.	1904.	1905.	1906.			
N. S. Wales lbs. Victoria gallons				$1,171,872 \\ 226,810$	1,169,977 232,310	1,033,446 309,138			

5. Oversea Trade in Milk, Butter, and Cheese.—The tables following give the import, export, or net export or import of butter, cheese, and milk. In each of the six years exports of butter exceeded imports; in only one did this occur with regard to cheese, and in none with regard to milk.

IMPORTS, EXPORTS, AND NET IMPORTS OF BUTTER, CHEESE AND MILK AUSTRALIAN COMMONWEALTH, 1901 to 1906.

IMPORTS.

Products.		1901.	1902.	3903.	1904.	1905.	1906.		
Butter Cheese	···· ····	 	lbs. £ lbs. £	$1,342,338 \\ 61,581 \\ 2,777,464 \\ 66,006$	6,901,779 357,244 2,318,110 59,674	1.887,148 88,754 1,141,300 33,071	43,873 1,636 375,642 12,349	592,201 25,509 384,718 12,494	70,143 3,133 304,951 11,533
Milk—co preserv "		ted ar "	nd lbs.	10,778,775 190,836	13,331,341 241,199	13,664,776 238,632	11,196,926 197,254	10,943,788 196,471	10,672,265 189,316

EXPORTS	•
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Butter	••• •••		lbs.	34,607,397 1,451,168	9,661,925 472,772	$32,124,709 \\ 1,267,411 \\ 243,176$	64,807,962 2,461,450	56,477,536 2,354,399	75,802,856 3,240,063
Cheese			lbs.		253,615		514,576	193,608	252,115
			£	7,982	7,623	7,077	11,216	5,291	6,832
Milk-co	ncentr	ated an	d						
preserv	red ¹		lbs.	1,059,169	876,909	709,549	659.937	495,089	311,540
	.,		£	17,582	15,360	14,183	11,857	9,319	6,375
					l .		f i		

NET EXPORTS.²

)	1			1	1
Butter		•••	lbs. 33,265,059	2,760,146	30,237,561	64,764,089	55,885,335	75,732,713
,,			£ 1,389,587		1,178,657	2,459,814	2,328,890	3,236,930
Cheese			lbs 2,484,083		- 898,124	1 100,001	- 191,110	- 52,836
			£ 58,024	52,051	- 25,994	- 1,133	— 7,203	- 4,701
Milk-co	ncentra	ated and						
preser	ved'		lbs 9,719,606			-10,536.989		-10,360,725
,,			£ - 173,254	- 225,839	- 224,449	- 185,397	- 187,152	- 182,941
			<u> </u>	1	<u> </u>	1	<u>}</u>	1

1. See definition on page 363. 2. - Signifies net imports.

The large quantities of milk imported for local use indicate room for development in the preserving industry.

6. Interstate Trade in Milk, Butter and Cheese.—The extent of interstate trade in dairy products, naturally of considerable magnitude, is worthy of statistical presentation. That for butter, cheese and milk is as follows:—

MILK, BUTTER, AND CHEESE.

State		Imports fro States of the	om other C'wealth.	Exports to ot of the Comm	her States onwealth.	Net Interstate Exports.		
State.		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	
·····		•	BUTI	ER.				
		lbs.	£	lbs.	£	lbs.	£	
New South Wales		2,930,232	121,308	1,159,709	48,676	-1,770,523	-72,632	
Victoria		1,055,071	43,373	9,209,810	434,323	8,154,739	390,950	
Queensland		45,161	1,330	1,822,431	73,929	1,777,270	72,599	
South Australia		1,060,974	48,756	1,386,559	58,980	325,585	10,224	
Western Australia	••••	7,190,501	340,368	2,239	111	-7,188,262	-340,257	
Tasmania	•••	1,730,689	79,055	431,880	18,171	1,298,809	60,884	
			Снеі	ESE.	<u> </u>	1		
		l lbs.	£	lbs.	£	lbs.	L £	
New South Wales		359,396	8,856	446,479	11,257	87,083	2,40	
Victoria		345,741	8,153	1,150,594	28,093	804,853	19,94	
Queensland		116,210	2,988	372,410	8,957	256,200	5,96	
South Australia		149,205	3,627	155,791	3,786	6,586	15	
Western Australia		1,140,121	27,835	335	25	-1,139,786	- 27,81	
Tasmania		141 020	3,667	126,322	3,008	- 14,936	- 65	
		l	Į		L			

INTERSTATE TRADE IN BUTTER AND CHEESE, 1906.

1.— Signifies net imports.

It will be observed from the column of net exports that Victoria occupies the leading position as supplier, and Western Australia the chief position as interstate importer of these products.

INTERSTATE TRADE IN MILK AND CREAM, 1906.

IN LEE	NOT A	LE INADI	2 114 19	III/K ANL	UTATINA	m, 1500.	
State.		Imports fro States the Common	of	Exports to States the Common	of	Net Inter Export	
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
		MILK A	ND CRE	AM-FRES	н.		
New South Wales Victoria Queensland South Australia Western Australia Tasmania	· · · · · · · · · · ·	Gallons. 24,268 58,998 	£ 404 9,883 	Gallons. 58,998 20,955 3,313 	£ 9,883 349 55 	Gallons. 34,730 38,043 3,313 	£ 9,479 9,534 55
	М	ILK AND C	REAM-	CONCENTE	ATED."		
New South Wales Victoria Queensland South Australia Western Australia Tasmania	···· ···· ····	lbs 14,676 25,912 2,916 430,631 131,061	£ 341 478 92 6,786 2,143	1bs. 72,806 530,362 600 1,428	£ 1,355 8,453 9 23	$\begin{array}{r} {}^{\rm lbs.} \\ 58,130 \\ 504,450 \\ - 2,916 \\ \\ - 430,031 \\ - 129,633 \end{array}$	$ \begin{array}{r} & \pounds \\ 1,014 \\ 7,975 \\ & 92 \\ \\ & 6,777 \\ & 2,120 \end{array} $
······		MILK AND	CREAM	-PRESER	VED. ²		
New South Wales Victoria Queensland South Australia Western Australia Tasmania		lbs. 1,208,299 76,700 126,322 370,396 734,282 146,422	£ 24,178 1,560 2,577 7,880 13,240 2,880	lbs. 193,035 1,279,138 600,382 567,253 14,861 7,752	$\begin{array}{c} \pounds \\ 3,780 \\ 25,084 \\ 11,556 \\ 11,398 \\ 325 \\ 172 \end{array}$	474,060 196,857 - 719,421	$ \begin{array}{r} \pounds \\ - 20,398 \\ 23,524 \\ 8,979 \\ 3,518 \\ - 12,915 \\ - 2,708 \\ \end{array} $

1.-- Signifies net imports.

2. See definition on page 363.

PIGS, BACON, ETC.

The remarks relating to the positions of Victoria and Western Australia in the case of butter and cheese apply also to concentrated and preserved milk and cream. New South Wales is a large importer of preserved milk from other States of the Commonwealth.

7. 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 consumption in the Commonwealth. In the period considered 1904 was the only year in which the local supply of cheese was adequate:—

Product.	1901.	1902.	1903.	1904.	1905.	1906.
	lbs. 68,406,007 14,059,775		lbs. 70,094,681 14,321,798			

BUTTER AND CHEESE LOCALLY CONSUMED, 1901 TO 1906.

The consumption in 1906 was, therefore, equal to 20.6 lbs. of butter and 3.6 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 19 lbs. per head, and is therefore only equal to about four-fifths of that of the Commonwealth.

§ 3. Pigs, Bacon, etc.

1. **Pigs.**—The pigs in Australasia numbered 43 in 1792; 4017 in 1800; 8992 in 1810; 33,906 in 1821; 66,086 in 1842; and 121,035 in 1851. The figures for the States in subsequent census years, and in the last five years, were :—

NUMBER OF PIGS, AUSTRALIAN COMMONWEALTH, 1861 TO 1906.

State.	1861.	1871.	1881.	1891.	1901.	1902.	1903.	1904.	1905.	1906.
New South Wales Victoria Queensland South Australia Western Australia Tasmania	43,480 7,465 69,286 11,984		239,926		334,295*	318,220*	221,592 302,145* 117,553 89,331 50,209 56,538	330,666 286,070 185,141 112,584 70,299 77,943	$\begin{array}{r} 310,702\\ 273,682\\ 164.087\\ 119,005\\ 74,567\\ 72,810\end{array}$	$243,370 \\ 220,452 \\ 138,282 \\ 112,277 \\ 56,203 \\ 42,985 $
Commonwealth	319,147	586,017	703,188	345,888	931,309	777,289	837,368	1,062,703	1,014,853	813,569

* Statistics not collected. Figures supplied by interpolation.

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. That year, the two immediately following, and 1904 and 1905, mark the highest totals. An examination of the States' returns shews remarkable fluctuations. It will be noticed that in no State was the number as high in 1906 as in the preceding year.

2. Bacon and Ham.—Though the Tasmanian production of bacon and ham shews a falling-off, the output for the Commonwealth has increased in the last three years. In the three principal dairying States, particularly in Queensland, the returns indicate very satisfactory progress.

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PIGS, BACON, ETC.

Year.	New South Wales.	Victoria.	Queensland:	South Australia.	Western Australia.	Tas- mania.*	Total for Common- wealth.†
	lbs.	/ lbs.	lbs.		lbs.	lbs.	lbs.
1901	11,080,891	15,011,616	7,064,714	1	333,393	530,015	34,020,629
1902	8,995,856	14,438,370	6.512,952	1 1	246,827	414,340	30,608,345
1903	7,864,771	12,504,851	4,145,900	1	178,557	401,417	25,095,496
1904	10,680,532	14,851,944	6,514,852	t t	250,264	574,781	32,872,373
1905	11,652,440	16,433,665	10,500,335	t t	401,447	446,714	39,434,601
1906	11,843,595	18,051,166	10,846,959	t	272,494	151,700	41,165,914
				1	ŕ	, í	

PRODUCTION OF BACON AND HAM, AUSTRALIAN COMMONWEALTH, 1901 то 1906.

• Tasmanian statistics of the production of bacon and ham relate only to quantities made in factories. • The totals for the Commonwealth here given are exclusive of Tasmanian bacon and ham made elsewhere than in factories, and also of all South Australian bacon and ham. ‡ Information not available.

8. 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, AUSTRALIAN COMMONWEALTH, 1901 TO 1906.

		1901.	1 902.	1903.	1904.	1905.	1906.
····		· · · · · · · · · · · · · · · · · · ·	BACON	AND HAM	•	· · · · ·	
Imports		905,164	730,699	626,791	371,354	162,715	194,059
,,	.£	29,516	27,738	24,152	13,425	5,807	7,171
Exports	. lbs.	286,699	204,266	231,570	382,580	492,076	532,851
,,	. £	10,424	8,106	9,756	12,596	15,262	18,467
Net Exports1	lbs	-618,465	-526,433	-395,221	11,226	329,361	338,792
	.£	- 19,092	- 19,632	- 14,396	- 829	9,455	11,296
·			FROZ	EN PORK.		·	· · · · · · · · · · · · · · · · · · ·
Imports	. 1bs.	106	211,678.	2,467,782	211,803	154,052	139,363
	. 103. . £	100	6,840	65,136	4,287	4,039	3,717
Exports	••	303,899	647,920	277,310	521,331	2,824,016	3,472,224
Exports	. 103. . £	5,971	14,654	7,174	9,346	47,596	60,936
Net Exports ¹		303,793		-2,190,472	309,528	2,669,964	3,332,861
,,	. £	5,969	7,814	-57,962	5,059	43,557	57,219
			/]	PIGS.	·!	l	·
·····				1		1	1
Imports	. No.	39	50	21	73	64	24
-,, ··	. £	765	513	121	832	814	1,269
	. No.	164	31	77	247	322	220
- ,,	. £	234	119	106	276	399	268
Net Exports1	No.	125	- 19	56	174	258	196
"	. £	- 531	- 394	— 15	- 556	- 415	1,006
			I	ARD.	· · · · · · · · · · · · · · · · · · ·	!	·
Imports	. 1bs.	79,956	461,046	698,793	89,652	45,702	64,561
Luporos	. 10s. . £	1,716	12,459	17,703	1,736	924	1,294
Exports		93,929	64,430	426,507	952,088	1,064,562	551,268
water of the second sec	. 10s. . £	93,929 1,791	1,361	420,307	15,311	1,004,502 16,163	8,373
,,		13,973	-396.616	-272,286	862,436	1,018,860	486.707
				41 A. 400	004.±00	1,010,000	= =00,101
Net Exports	108. P	75	- 11,098	- 9,933	13,575	15,239	7,079

1. - Signifies net imports.

PIGS, BACON, ETC.

4. Interstate Trade in Pig Products.—The interstate trade in pigs, bacon and hams, frozen pork, lard, etc., in 1906 was as follows:—

· · · · · · · · · · · · · · · · · · ·			i				
State.		Imports fro States of the		Exports to of of the Comm	her States ionwealth.	Net Interstat	e Exports.'
Buate.		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.
			E	YIGS.	•		
		No.	£	No.	£	No.	£
New South Wales	•••	1,250	1,620	4,469	5,308	3,219	3,688
Victoria	•••	4,453	5,215	216	570	- 4,237	- 4,645
Queensland	•••	11	62	1	2	- 10	- 60
South Australia	•••	7	47	1,152	1,458	1,145	1,411
Western Australia		115	395			- 115	- 395
Tasmania	•••	3	2	1	3	- 2	1
		•	BACON	AND HAMS	<u>. </u>		<u> </u>
		lbs.	£	lbs.	£	lbs.	£
New South Wales		2,821,452	91,665	492,883	13,137	-2,328,569	- 78,528
Victoria		205,431	5,414	4,358,223	138,986	4,152,792	133,572
Queensland		160,832	4,644	2,480,225	79,838	2,319,393	75,194
South Australia		58,577	2,005	467,457	14,120	408,880	12,115
Western Australia		3,800,966	122,253	1,734	65	- 3,799,232	-122,188
Tasmania		773,673	20,736	20,409	571	- 753,264	-20,165
		<u> </u>	FROZ	EN PORK.	11		1
		lbs.	£	lbs.	£	lbs.	E E
New South Wales		76,488	$\tilde{1,236}$	183,432	3,499	106,944	2,269
Victoria	•••	1,648	1,200	114,544	1,934	112,896	1,913
Queensland	•••	115,327	2,282	68,709	1,406	- 46,618	- 876
South Australia	•••			00,703	1 1		
Western Australia	•••	179.000	3,300	•••		— 173,222	- 3,300
Tasmania	•••	173,222	3,500				1 -
Tasmama	•••					•••	
		LARD A	ND REFI	NED ANIM		,	
<u> </u>		lbs.	£	lbs.	£	lbs.	1 £
New South Wales		501,164	9,512	172,911	3,186	— 328,253	- 6,326
Victoria		275,482	4,265	423,002	7,874	147,520	3,609
Queensland		46,775	797	636,706	11,846	589,931	11,049
South Australia		66,924	1,365	399,808	6,572	332,884	5,207
		48,428	9,930	100	18	- 548,328	- 9,912
Western Australia							
Western Australia Tasmania	••••	194,562	3,642	808	15	- 193,754	- 3,627

INTERSTATE TRADE IN PIG PRODUCTS, 1906.

1. - Signifies net imports.

5. Local Consumption of Bacon and Ham.--From 1904 to 1906 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 LOCALLY CONSUMED, 1901 TO 1906.

Year.	1901.	1902.	1903.	1904.	1905.	1906.
Consumption ¹ lbs.	34,639,094	31,134,778	25,490,717	32,861,147	39,105,240	40,82 7 ,122

1. This excludes South Australia, for which no figures of production were available.

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POULTRY FARMING.

§ 4. Poultry Farming.

1. Development of the Industry.—Until recently, poultry farming as a well organised industry could scarcely be said to exist, although in metropolitan and suburban districts poultry has of course long been kept for the table and egg supplies. The aggregate output, though considerable, represented relatively little value beyond the cost of production, owing to imperfect management. Many farmers also, both wheat-growers and dairymen, have maintained a large poultry stock, erecting poultry yards constructed on modern principles, and feeding from the stubble fields and waste grain with a minimum expenditure in tending. This brought about a considerable addition to the net agricultural or dairying return. The poultry industry during recent years has assumed an independent position among rural industries, notwithstanding that large numbers of poultry runs on wheat and dairy farms are still maintained; poultry farming is also carried on in conjunction with pig farming. In special poultry farms, breeding on scientific principles and a proper arrangement of the runs is secured, and feeding and reproduction are technically attended to, and proper shelter is provided either by means of trees or sheds. Poultry experts are engaged by the State Governments to instruct in matters that will amplify the returns. Poultry for consumption are extensively reared, and the egg-producing qualities of the birds have also been greatly improved by careful breeding.

2. Oversea Trade in Poultry Products.—The imports and exports of eggs shew a considerable balance on the side of imports, in each of the six years tabulated. The introduction of valuable poultry for breeding is evidenced by the fact that although the exports in 1903, 1904 and 1905 exceeded the imports in number, the imports were of greater value. The figures for frozen poultry shew that a considerable oversea trade is carried on :—

•	1901.	1902.	1903.	1904.	1905.	1906.
•		E	LGGS.	, 		
mports dozen		$1\dot{3}6,163 \\ 4,077$	$161,099 \\ 3,748$	$249,379 \\ 4,437$	84,517 1,943	$83,925 \\ 2,184$
Exports dozen	65,924	84,133 4,078	46,973 2,292	29,841 1,245	23,041 1,199	38,090
Net exports ¹ dozen		-52,030	-114,126 - 1,456	-219,538 -3,192	-61,476 - 744	-45,835 - 466
•	1	LIVE	POULTRY.	1	·	·
Imports No.	" 1,462	² 1,305	577 1,167	$1,454 \\ 2,079$	1,417 1,984	3,220 1,747
Exports No. ,, £ Net Exports ¹ No.	470	1,190	1,388 371 811	2,062 1,086 608	4,000 1,863 2,583	$ \begin{array}{r} 2,806 \\ 1,767 \\ - 414 \end{array} $
	- 992	— 115	- 796	- 993	- 121	20
		FROZE	N POULTRY	•		
imports lb.	ی 209	2 5,270	23,601 963	15,833 673	22,628 899	8,949 331
Exports pair	26,738	41,283	53,123 10,364	9,936 3,509	46,987 11,765	34,655 9,506
Net Exports' pair ,, , £		36,013	9,401	² 2,836	10,866	9,175

IMPORTS, EXPORTS AND NET EXPORTS OF EGGS AND LIVE AND FROZEN POULTRY, AUSTRALIAN COMMONWEALTH, 1901 TO 1906.

1. — Signifies net imports.

2. Quantity not available.

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BEE FARMING.

3. Interstate Trade in Poultry Products.—South Australia is the largest supplier to the other States of the Commonwealth of poultry products generally, but Victoria has the largest Interstate market for frozen poultry.

State	Imports fr States Commor	of the	Exports States Common	of the	Net Interstate Exports.'			
	Quantity.	Value.	Quantity.	Value.	Quantity.	Value.		
	***	LIVE	POULTRY.	·		<u> </u>		
	No.	£	No.	£	No.	£		
New South Wales	13,318	3,123	1,850	920	- 11,468	-2,20		
Victoria	690	395	930	499	240	10		
Queensland	829	444	325	84	- 504	- 36		
South Australia	196	65	13,384	3,324	13,188	3,25		
Western Australia	1,239	676	52	17	- 1,187	- 65		
Tasmania	594	• 428	325	287	- 269	- 14		
		FROZEN	POULTRY		·			
	lbs.	£	lbs.	i £	lbs.	£		
New South Wales	44,150	1,604	21,438	720	- 22,712	- 88		
Victoria	4,453	133	121,779	4,383	117,326	4,25		
Queensland	56	2	3,411	129	3,355	12		
South Australia	65	2	6,205	195	6,140	19		
Western Australia	104,983	3,713			104,983	- 3,71		
Tasmania		•••	874	27	874	2		
			EGGS.	<u> </u>		1		
	Dozen.	£	Dozen.	£	1 Dozen.	£		
New South Wales	1,091,994	38,869	46,968	1,822	-1,045,026	-37,04		
Victoria	390,583	12,294	92,909	3,597	- 297,674	- 8,69		
Queensland	762	74	217,896	6,942	217,134	6,86		
South Australia	1,686	104	2,760,731	106,264	2,759,045	106,16		
Western Australia	1,562,755	64,495			-1,562,755	- 64,49		
Tasmania	70,981	2,806	257	17	- 70,724	- 2,78		
			1		1	1		

INTERSTATE TRADE IN POULTRY AND POULTRY PRODUCTS, 1906.

1.- 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 returns collected shew that, while production varies greatly, there is on the whole a steady improvement, to which the large increase in the Western Australian product since 1902 has largely contributed. The annual average returns of honey from the hives range between 20 lbs. and 600 lbs. per hive.

2. Honey and Beeswax.—The particulars of honey production, available only for three States, are as given below :—

NUMBER OF HIVES AND PRODUCTION OF HONEY AND BEESWAX, 1901 TO 1907.

				1901.	1902.	1903.	1904.	1905.	1906.	1907.
N.S.W.		Hives	No: lbs.	58,954 2,397,698	53,089 2,259,177	46,243 1,815,480	58,330 2,147,295	64,730 3,023,468	48,632 1,841,236	1.907.74
,, ,,	•••	Honey Beeswax	lbs.		51,735	37,207	49,589	58,610	- 39,620	34,69
Victoria		Hives	No.			32,126	40,759	49,120	41,780	48,00
"	••••	Honey Beeswax	lbs. lbs.	957,020 15,269	572,477 13,530	1,199,331 23.061	833,968 18,979	1,906,188 28,653	1,209,144 21.844	2,965,29 46,78
W.Ä.		Hives	No.	3,880	4,939	7,109	8,705	12,837	12,825	
"	•••	Honey Beeswax	lbs. lbs.	138,787 3,158	42,082 2,978	262,968 3,478	179,271 4,533	287,498 6,211	555,079 9,303	382,58 8,30

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BEE FARMING.

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.

	1901.	1902.	1903.	1904.	1905.	1906.
	•	H	ONEY.	·	<u> </u>	
Imports lbs. " " £ Exports lbs. " " £ Net Exports lbs. " " £	71 2 189,048 2,543 188,977 2,541	$415 \\ 12 \\ 85,774 \\ 1,644 \\ 85,359 \\ 1,632$	205 5 21,995 446 21,790 441	1,233 10 77,452 875 76,219 ' 865	$12,036 \\ 138 \\ 112,039 \\ 1,333 \\ 100,003 \\ 1,195$	2,618 27 58,297 1,001 55,679 974
i		BE	ESWAX.	<u> </u>	<u>.</u>	· · · · · · · ·
Imports lbs. " £ Exports lbs. " £ Net exports lbs. " £	$11,301 \\ 413 \\ 64,139 \\ 3,439 \\ 52,838 \\ 3,026$	3,135 180 68,570 3,135 65,435 2,955	12,851 652 63,421 3,375 50,570 2,723	$12,520 \\ 694 \\ 39,795 \\ 2,144 \\ 27,275 \\ 1,450$	$9,767 \\593 \\86,720 \\4,863 \\76,953 \\4,270$	13,72578730,5701,76816,845981

IMPORTS, EXPORTS, AND NET EXPORTS OF HONEY AND BEESWAX, AUSTRALIAN COMMONWEALTH, 1901 TO 1906.

4. Interstate Trade in Bee Products.—The interstate trade in honey and beeswax in 1906 is given below:—

	INTERSTATE	TRADE	IN	BEE	PRODUCTS.	1906.
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State.		Imports from other States of the C'wealth.		Exports to ot of the Comm	her States onwealth.	Net Interstate Exports.'		
		Quantity.	Value.	Quantity.	Value.	Quantity.	Value.	
······································			HONE	Y.			·	
		lbs.	£	l lbs.	£	lbs.	£	
New South Wales		326,875	3,844	50,761	654	-276,114	-3,190	
Victoria		264,035	3,132	131,557	2,322	-132,478	- 810	
Queensland		2,522	45	78,849	909	76,327	864	
South Australia		5,266	64	494,643	5,962	489,377	5,898	
Western Australia		73,343	1,479	5,260	62	- 68,083	-1,417	
Tasmania		89,149	1,347	120	2	— 89,029	-1,345	
			BEESW	AX.		<u> </u>	<u> </u>	
		lbs.	£	lbs.	£	lbs.	£	
New South Wales		3,433	185	637	33	- 2,796	- 152	
Victoria		3,299	174	569	35	- 2,730	— 139	
Queensland		41	3	2,514	138	2,473	135	
South Australia		169	10	1,619	94	1,450	84	
Western Australia		1,029	65	112	6	- 917	- 59	
Tasmania		134	10	2,654	141	2,520	131	

1. — Signifies net imports.

§ 6. Graphical Representation.

Two graphs shewing respectively the increase in dairy production and in the exports of butter will be found on page 296.