



Commonwealth Bureau of Census and Statistics.

CANBERRA.

OFFICIAL STATISTICS, COMMONWEALTH OF AUSTRALIA.

MANUFACTURING INDUSTRIES,

1944-45.

No. 24. BACON CURING.

PREPARED UNDER INSTRUCTIONS FROM THE
RIGHT HONORABLE THE TREASURER.

BY

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PREFACE

BACON CURING

1. GENERAL: The publication of these surveys which cover 32 industries is being resumed following a period of suspension during the war. The previous issue respecting Bacon Curing related to the year 1939-40. All Manufacturing Industry Summaries for 1944-45 have now been issued with the following exceptions:- Nos. 23 Pickles, Sauces, Condiments etc., 26. Breweries, 31. Electric Light and Power Works, 32. Gas Works.

2. CLASSIFICATION OF FACTORIES: The classification of factories in Australia is based on the nature of the product. Where two or more distinct types of industrial activity are carried on in one establishment, factory proprietors are requested to furnish separate returns for each activity. In some instances, however, this is not practicable, and in such cases there is no alternative but to classify the factory according to its predominant activity. This difficulty is most acute in the Metal Trades industries (e.g. Engineering firms also producing Agricultural Implements Stoves and Ovens, and/or Brass and Copper products), but it is also to be found in factories concerned with the treatment or manufacture of Skins, Leather, Clothing, Wood products and some other articles. In consequence, and to an extent which will vary with individual industries, the figures may include the subsidiary but extraneous activities of those establishments included in the industry, while they will exclude relevant activities which are subsidiary to the predominant activity of establishments classified to some other industry. This qualification is not important in the case of Bacon Curing, the industry with which this summary is concerned.

3. BASIS OF THE STATISTICS: The scope of the factory statistics is fully explained in Part I of the annual Production Bulletin.

Briefly, a "factory" is taken to be an industrial establishment in which four or more hands are employed or in which power other than hand is used.

All persons employed in the manufacturing activities of the factory are counted as factory employees. The figures relating to employment, therefore, exclude all those engaged in selling and distribution, such as salesmen, travellers, collectors, carters engaged solely on outward delivery, and retailing storemen. The figures do include, however, proprietors who work in their own factories as well as "out-workers".

The value of output is the wholesale selling value of the factory of goods made or processed during the year, including by-products. In addition it includes the value of other work done, such as repair work, assembling and making up for customers.

The value of production is the value of output minus the cost of raw materials, containers, power, fuel, light, lubricants, water, tools replaced, and repairs to plant, and represents the value added in the process of manufacture within the factories. As full details of the costs of production are not collected, the amount of profit resulting from operations cannot be ascertained. The value of production therefore is the source from which such items as wages, interest, depreciation, taxation, insurance, advertising and other sundry charges are met.

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BACON CURING.

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1. **SUMMARY OF STATISTICS:** The following table furnishes a summary of the principal statistics of the factories engaged in Bacon Curing in Australia for the period 1934-35 to 1944-45:-

TABLE I. BACON CURING : AUSTRALIA.

Year	Number of Factories	Persons Employed (a)	Salaries and Wages Paid (b)	Power, Fuel and Light etc Used	Value of other Materials etc. used (c)	Value of Production	Value of Output.
	No.	No.	£'000	£'000	£'000	£'000	£'000
1934-35	78	1,841	399	66	2,781	883	3,730
1935-36	78	2,008	433	73	3,200	868	4,141
1936-37	78	1,966	434	72	3,246	803	4,121
1937-38	77	2,025	455	73	3,466	949	4,490
1938-39	76	2,047	480	77	3,768	865	4,710
1939-40	79	2,249	530	83	4,400	963	5,450
1940-41	77	2,323	571	90	4,871	1,104	6,065
1941-42	78	2,344	631	93	5,064	1,146	6,303
1942-43	80	2,449	683	105	6,445	1,371	7,921
1943-44	82	2,561	736	116	7,945	1,289	9,350
1944-45	87	3,010	899	134	10,155	1,976	12,265

(a) Includes Working Proprietors. (b) Excludes amounts drawn by Working Proprietors.

(c) Includes cost of containers, packing etc., tools replaced and repairs to plant.

In the following table particulars of the Industry are given for each State during the year 1944-45:-

TABLE II. BACON CURING : STATES, 1944-45.

PARTICULARS.	N.S.W.	VICT.	QLD.	S.A.	W.A.	TAS.	AUST.
	No.	No.	No.	No.	No.	No.	No.
Number of Factories	30	20	7	12	7	11	87
Number Employed (a)							
Males	614	660	805	244	262	67	2,652
Females	67	59	94	43	93	2	358
Total	681	719	899	287	355	69	3,010
Value of -	£	£	£	£	£	£	£
Salaries and Wages Paid (b)	217,321	211,272	259,003	92,779	99,653	18,977	699,005
Power, Fuel and light etc. used.	25,113	33,645	26,887	27,604	17,622	3,075	133,946
Materials etc. used	2,876,096	2,451,054	2,843,894	2,455,547	1,211,259	226,299	10,154,751
Production	675,778	386,190	567,037	115,873	172,383	58,649	1,976,110
Output	3,577,589	2,570,889	3,437,816	989,024	1,401,264	266,223	12,264,807
Land and Buildings	230,835	244,541	204,168	107,062	52,928	26,914	866,468
Plant and Machinery	67,501	104,825	114,436	38,563	31,630	9,409	366,584
	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
H.P. of Engines Ordinarily in use	1,491	3,373	2,396	1,248	828	242	9,580

(a) Includes Working Proprietors. (b) Excludes amounts drawn by Working Proprietors.

2. **AVERAGE SALARIES, OUTPUT AND PRODUCTION:** Particulars of the average salary and wage paid together with the average values per employee of output and production are shown in the following table for each of the years 1934-35 to 1944-45.

TABLE III. AVERAGE SALARIES AND WAGES PAID, OUTPUT ETC. PER EMPLOYEE: AUSTRALIA.

Year	Salaries and Wages per Employee (a)	Value of Output per Person Engaged (b)	Value of Production per Person Engaged (b)	Ratio percent of Salaries and Wages to value of Production.
	£	£	£	%
1934-35	221	2,026	480	45.21
1935-36	219	2,062	432	49.88
1936-37	222	2,073	404	54.06
1937-38	229	2,217	469	47.94
1938-39	237	2,301	422	55.47
1939-40	239	2,423	428	55.87

TABLE III. (CONTINUED) AVERAGE SALARIES AND WAGES PAID, OUTPUT ETC. PER
EMPLOYEE: AUSTRALIA.

Year	Salaries and Wages per Employee (a)	Value of Output per Person Engaged (b)	Value of Production per person Engaged (b)	Ratio per cent of Salaries and Wages to value of Production.
1940-41	£ 249	£ 2,611	£ 475	51.76
1941-42	272	2,661	479	56.10
1942-43	282	3,234	560	49.79
1943-44	292	3,651	503	57.13
1944-45	302	4,075	657	45.49

(a) Excludes Working Proprietors and amounts drawn by them. (b) Includes Working Proprietors.

3. MATERIALS USED AND ARTICLES PRODUCED: Particulars of the materials used and articles produced in Bacon Factories during 1943-44 and 1944-45 are shown in the following table. The quantities and values shown here are those furnished by the establishments included in this summary only. The figures do not include similar materials used and articles produced in establishments not classified as Bacon Curing Factories.

TABLE IV. BACON FACTORIES: AUSTRALIA.

PARTICULARS.	Unit of Qty	1943-44		1944-45	
		Quantity	Value	Quantity	Value
<u>Materials used:</u>			£		£
Total Pigs killed-	No.	1,175,668	6,516,614	1,376,028	8,296,306
- on own account					
- on commission	No.	8,807	(a)	15,586	(a)
Pork & Green Bacon					
Purchased (own account)	lb.	2,707,294	112,567	9,186,231	386,496
Pork & Green Bacon supplied (commission)	lb.	7,892,473	(a)	9,427,449	(a)
Sugar used	ton	357	11,629	367	11,992
Other Materials	-	-	1,038,317	-	1,046,123
<u>Total Materials Used:</u>	-	-	7,679,127	-	9,744,917
<u>Articles produced:</u>					
Bacon & Ham made from Pigs-					
- on commission	lb.	994,419	(a)	915,177	(a)
- own account	lb.	88,497,043	5,649,850	111,742,587	7,798,791
Bacon & Ham from Pork & Green Bacon --					
- own account	lb.	1,916,987	125,561	(c) 1,512,457	107,964
- on commission	lb.	7,089,657	(a)	8,456,902	(a)
Green Bacon & Ham made-					
- own account and commission	lb.	6,502,900	385,663	9,570,917	477,377
Pork - for consumption	lb.	4,348,256	181,102	5,716,672	254,151
- for sale	lb.	(b)	(b)	2,242,196	121,552
- for export	lb.	5,924,321	263,120	5,029,172	249,189
Lard	lb.	5,291,773	145,704	7,818,698	223,599
Tallow-Raw	cwt.	32,919	27,896	40,714	38,229
Refined	cwt.	13,818	13,666	11,150	12,545
Pig Casings	cwt.	1,377	35,701	1,953	36,526
Small Goods	-	-	751,232	-	770,599
Other articles (including work done)	-	-	1,570,842	-	2,174,285
<u>Total Value of Output:</u>	-	-	9,350,357	-	12,264,807

(a) Quantity only collected.

(b) Not available for publication values included in other Articles Produced.

(c) Incomplete. Unrecorded production is included with Bacon and Ham made from Pigs - own account.

For comparative purposes, the following table sets out particulars of the numbers of pigs killed or cured and the quantities of Bacon and Ham and Lard made in Australia for the years 1934-35 - 1944-45.

TABLE V. BACON FACTORIES: AUSTRALIA, 1934-35 to 1944-45

Year	Pigs Cured	Bacon and Ham Cured		Lard Made		Value of other Products
		Quantity '000 lb.	Value £	Quantity '000 lb.	Value £	
1934-35	(a) 878,736	67,313	2,676,595	3,440	74,471	979,155
1935-36	(a) 990,731	74,279	2,886,904	3,569	88,138	1,166,105
1936-37	851,754	69,649	2,943,214	3,417	94,632	1,063,621
1937-38	797,473	68,037	3,203,600	3,201	69,638	1,196,738
1938-39	797,437	72,636	3,497,661	3,113	78,219	1,113,969
1939-40	802,217	76,647	3,748,007	3,301	71,874	1,630,156
1940-41	931,720	87,010	4,259,005	3,631	80,078	1,725,597
1941-42	967,820	91,927	4,987,765	3,798	88,937	1,226,731
1942-43	1,071,616	101,017	6,388,622	4,151	111,216	1,421,058
1943-44	1,000,165	98,498	(b) 5,975,411	5,292	145,704	3,229,242
1944-45	1,247,364	122,630	(b) 7,906,755	7,619	223,599	4,113,453

(a) Pigs killed (b) Excludes value of Commission work.

4. EMPLOYMENT: The number of employees in Table I, II, and VII has been adjusted to represent the average employment over the whole year in those cases where short time was worked. In the following table the factories have been classified according to the average number employed during the actual period worked for the years 1938-39 and 1941-42 to 1944-45.

TABLE VI. FACTORIES CLASSIFIED ACCORDING TO HANDS EMPLOYED: AUSTRALIA.

Number of Persons Employed in each Factory.	1938-39		1941-42		1942-43		1943-44		1944-45	
	No. of Factories	No. Employed	No. of Factories	No. Employed	No. of Factories	No. Employed	No. of Factories	No. Employed	No. of Factories	No. Employed
Under 4	13	22	13	28	12	26	13	29	15	36
4	3	12	3	12	3	12	3	12	1	4
5 to 10	15	96	16	118	23	162	20	139	22	157
11 to 20	21	296	15	226	14	217	17	263	16	256
21 to 50	11	328	13	354	12	356	13	423	14	478
51 to 100	9	673	10	717	11	819	9	620	12	834
Over 100	4	623	6	934	5	873	7	1077	7	1293
TOTAL	76	2,052	78	2,369	60	2,465	82	2,563	87	3,056
Average number employed per Factory.	27		31		31		31		35	

Further details of employment in the Bacon Curing Industry are furnished in the next three tables. In the first the employees have been classified according to the nature of their employment during the years 1938-39, 1940-41 to 1944-45.

TABLE VII. PERSONS EMPLOYED CLASSIFIED ACCORDING TO GRADE OF OCCUPATION: AUSTRALIA.

Grade of Occupation	1938-39	1940-41	1941-42	1942-43	1943-44	1944-45
MALES -	No.	No.	No.	No.	No.	No.
Working Proprietors	25	30	30	32	38	30
Manager & Overseers	62	91	90	84	96	115
Clerical Staff	134	136	112	110	109	123
Engine Drivers & Firemen	131	117	112	113	126	126
Workers, Skilled & Unskilled	1531	1766	1778	1852	1916	2223
Other (Carters & Messengers)	44	37	33	35	29	35
TOTAL MALES	1947	2197	2155	2226	2314	2652
FEMALES -						
Clerical Staff	63	81	92	95	94	105
Workers, Skilled & Unskilled	36	45	104	128	150	252
Others	1	-	-	-	-3	1
TOTAL FEMALES	100	126	196	223	247	358
TOTAL PERSONS	2047	2323	2351	2449	2561	3010

The next table shows the actual number of persons employed (excluding Working Proprietors) on the pay-day nearest to the 15th of each month for the years 1943-44 and 1944-45.

TABLE VIII. PERSONS EMPLOYED ON A DAY NEAREST TO THE 15th OF EACH MONTH:

AUSTRALIA
(Working Proprietors Excluded)

Month	1943-44			1944-45		
	Males	Females	Total	Males	Females	Total
	No.	No.	No.	No.	No.	No.
July	2217	233	2450	2537	344	2881
August	2212	235	2447	2553	328	2881
September	2161	232	2393	2566	356	2926
October	2168	218	2406	2573	337	2910
November	2181	239	2420	2636	371	3009
December	2207	241	2446	2669	366	3035
January	2217	240	2457	2719	355	3074
February	2276	241	2517	2723	357	3060
March	2325	256	2583	2711	362	3073
April	2365	251	2616	2705	362	3067
May	2450	261	2731	2739	364	3103
June	2454	276	2730	2693	361	3054

A classification of the number of employees according to age and sex on or about the 15th June for the years 1939 to 1945 is shown in the next table:-

TABLE IX. DISTRIBUTION OF EMPLOYEES ACCORDING TO AGE AND SEX: AUSTRALIA.

JUNE	Males				Females				Persons			
	Under 16 yrs	16 & under 21 yrs	Adults	Total	Under 16 yrs	16 & under 21 yrs	Adults	Total	Under 16 yrs	16 & under 21 yrs	Adults	Total
1939	46	262	1637	1947	7	38	51	96	55	300	1688	2043
1940	70	294	1794	2158	8	49	53	110	78	343	1847	2268
1941	99	344	1832	2275	18	57	73	148	117	401	1905	2423
1942	133	244	1847	2224	33	107	123	263	166	351	1970	2487
1943	105	265	1662	2232	31	93	107	231	136	356	1969	2463
1944	82	340	2032	2454	25	154	97	276	107	494	2129	2730
1945	62	346	2265	2693	15	165	181	361	97	511	2446	3054

5. POWER EQUIPMENT: Statistics of the power equipment of the factories included in this group are given in the next table. The details given include the rated horsepower of engines ordinarily in use together with those in reserve or idle for the years 1938-39, 1943-44 and 1944-45:-

TABLE X. TYPES AND RATED HORSEPOWER OF ENGINES: AUSTRALIA.

Class of Engine	Rated H.P. of Engines					
	Ordinarily in Use			In Reserve or Idle		
	1938-39	1943-44	1944-45	1938-39	1943-44	1944-45
Steam-Reciprocating	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Turbine	2,435	617	569	329	618	607
Internal Combustion-	615	615	615	5	-	-
Gas	331	166	168	53	50	105
Petrol or Other Light Oils	23	22	66	8	23	22
Heavy Oils	1,005	550	632	45	499	459
Water	-	-	-	-	-	-
Total Prime Movers	4,409	1972	2,050	440	1,190	1,193
Motors driven by electricity-						
Purchased	4,980	7249	7,530	284	264	265
Own Generation	1,775	459	455	-	92	92
Total Electricity	6,755	7708	7,985	284	376	357
TOTAL POWER USED(a):	9,389	9221	9,580	724	1566	1550

(a) Without Duplication.

6. CONSUMPTION OF POWER, FUEL AND LIGHT: Details of the quantities and values of the various items of power, fuel and light used in Bacon Curing Factories are shown in the following table for the years 1938-39, 1943-44 and 1944-45.

TABLE XI. POWER, FUEL AND LIGHT, ETC. USED : AUSTRALIA

Particulars	Unit of Quantity	Quantity			Value		
		1938-39	1943-44	1944-45	1938-39	1943-44	1944-45
Power, Fuel and Light-					£	£	£
Coal-Black	ton	18,146	15,321	16,924	24,405	25,681	28,093
Brown	"	750	1,015	1,245	1,156	1,692	2,076
Coke	"	1,016	696	949	1,650	2,228	2,223
Wood	"	19,294	16,720	21,257	11,160	19,241	21,155
Fuel Oil	gal	137,840	95,869	108,395	4039	5,664	5,444
Electricity	-	(a)	(a)	(a)	22,692	41,082	46,443
Gas	-	(a)	(a)	(a)	139	1,192	1,309
Other (Charcoal, etc.)	-	(a)	(a)	(a)	1,459	7,731	14,622
Water & Lubricating Oil used	-	(a)	(a)	(a)	10,064	11,708	12,581
TOTAL:		(a)	(a)	(a)	76,944	116,261	132,946

(a) Value only available.

7. **VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY.** Particulars of the book values of premises occupied and plant used in Bacon Curing Factories at the 30th June for each of the seven years ended 1945 are shown in the next table. Details of the values of additions and replacements made and depreciation allowed during the same period are also shown. It should be noted that the amounts shown are those recorded by factories which were operating during each year and that changes in their number, as well as other factors, affect comparison from year to year.

TABLE XII. VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY : AUSTRALIA

Year	Book Value as at 30th June(a)		Additions and Replacements made during yr.		Depreciation allowed during year	
	Land and Buildings	Plant and Machinery	Land and Buildings	Plant and Machinery	Land and Buildings	Plant and Machinery
1938-39	£ 750,396	£ 356,678	£ 30,900	£ 29,047	£ 14,359	£ 26,557
1939-40	780,990	372,932	47,635	41,292	14,743	25,678
1940-41	790,994	374,121	34,121	33,343	15,926	26,715
1941-42	786,526	362,027	26,145	30,615	14,856	27,656
1942-43	808,104	355,234	14,466	29,554	20,692	29,556
1943-44	833,519	349,808	23,437	21,835	16,217	29,451
1944-45	866,466	366,564	15,436	43,536	17,707	35,229

(a) Includes estimated value of rented premises and machinery.

8. **EXTERNAL TRADE:** The value of imports and exports of Bacon and Hams are given in the following table for the years 1934-35 to 1944-45.

TABLE XIII. IMPORTS AND EXPORTS OF BACON AND HAMS : AUSTRALIA

YEAR	IMPORTS		EXPORTS	
	Quantity lb.	Value £A	Quantity lb.	Value £A
1934-35	11,712	774	1,562,498	98,825
1935-36	5,168	313	1,701,575	109,760
1936-37	2,760	209	1,752,518	112,680
1937-38	7,212	604	1,675,969	117,654
1938-39	9,681	597	1,729,053	119,994
1939-40	737	61	4,247,554	274,822
1940-41	428	31	6,677,246	439,684
1941-42	(a)185,652	(a)13,027	5,764,260	395,031
1942-43	549	50	(b)4,909,426	406,290
1943-44	13	1	14,954,984	1,172,784
1944-45	48	9	11,045,954	906,545

(a) 185,591 lb valued at £A 13,022 reimported.

(b) Prior to 1942-43, the export of Bacon and Hams preserved in tins was not included.

9. Minimum Weekly Rates of Wage: The following table shows the weekly minimum rates of wage in force at 30th June, 1945. These have been prescribed by Commonwealth and State Industrial Tribunals. Where no rate is shown it indicates that the particular occupation is not specifically provided for in the award or determination. In all cases the number of hours constituting a full week's work is 44.

TABLE XIV. BACON-CURING (CAPITAL CITIES)

Minimum Weekly Rates of Wage as at 30th June, 1945

Occupation	New South Wales (S)	Victoria (C)	Queensland (S)	South Australia (C)	Western Australia (S)	Tasmania (S)
	s. d.	s. d.	s. d.	s. d.	s. d.	s. d.
Slaughterman ..	129. 0	136. 0	139.11	131. 0	127.11	126. 6
Curers -						
Leading Hand ..	139. 0	136. 0	137. 5	131. 0	127.11	118. 6
1st Assistant ..	123. 0	123. 6	120. 6	118. 6	118. 5	111. 0
2nd Assistant ..	113. 0	118. 6	109. 6	113. 6	113. 5	-
Cutters up ..	125. 0	123. 6	131. 6	118. 6	120.11	118. 6
Trimmers ..	117. 0	123. 6	119. 4	118. 6	114. 5 & 118. 5	111. 0
Rollers ..	117. 0	123. 6	119. 4	118. 6	114. 5 & 118. 5	111. 0
Baggers ..	-	114. 0	125. 6	109. 0	114. 5	111. 0
Lardmen ..	109. 6	114. 0 & 123. 6	125. 6	109. 0 & 110. 6	118. 5	111. 0
Smokers ..	119. 0	123. 6	131. 6	118. 6	127.11	118. 6
Scalders ..	125. 0	123. 6	129. 0	118. 6	120.11	111. 0
Juniors - Males -		(a)		(a)		
15 years of age ..	45.10		40. 7		-	-
16 " " " ..	50.10		49. 4		-	-
17 " " " ..	61. 0		50. 6		-	-
18 " " " ..	70. 5		75. 0		-	-
19 " " " ..	79. 3		-		-	-
20 " " " ..	88. 3		-		-	-

(C) denotes Commonwealth Court Award. (S) denotes State Award.

(a) Rates vary according to experience.

NOTE: Weekly Rates of wage ranging from 28/3d. under 16 years of age to 61/6d. over 21 years are prescribed for Female employees in the Queensland Award.

(Roland Wilson)

COMMONWEALTH STATISTICIAN

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS,

CANBERRA. A.C.T. 26TH FEBRUARY, 1947.