



Commonwealth Bureau of Census and Statistics.

CANBERRA.

OFFICIAL STATISTICS, COMMONWEALTH OF AUSTRALIA.

MANUFACTURING INDUSTRIES,

1946-47.

No. 24. BACON CURING.

PREPARED UNDER INSTRUCTIONS FROM THE
RIGHT HONORABLE THE TREASURER.

BY

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BACON CURING

PREFACE

1. GENERAL: The Industries included in this series are listed on the back of the cover page. They include those listed for the same series for 1945-46 together with the following additions for 1946-47, viz. Aerated Waters and Cordials and Meat and Fish Preserving.

All Summaries have now been issued with the exception of the following viz. No's. 26. Breweries, 31. Brooms and Brushes, 33. Gas Works, 37. Aerated Waters and Cordials, 38. Meat and Fish Preserving.

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 1 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 include, however, proprietors who work in their own factories as well as "out-workers".

The value of output is the wholesale selling value at 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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13TH DECEMBER, 1948.

BACON CURING

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 year 1938-39 and 1943-44 to 1946-47.

TABLE I. BACON CURING : AUSTRALIA

Year	Number of Fact-ories	Persons Employed (a)	Salaries & 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
1938-39	76	2,047	480	77	3,768	865	4,710
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
1945-46	87	2,879	879	126	9,410	1,628	11,164
1946-47	90	2,766	891	127	8,915	1,494	10,536

(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 1946-47:-

TABLE II. BACON CURING : STATES, 1946-47

PARTICULARS	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.	AUSTRALIA
	No.	No.	No.	No.	No.	No.	No.
Number of Factories	33	20	8	13	6	10	90
Number Employed (a)							
Males	535	658	705	302	265	66	2,531
Females	62	67	50	24	30	2	235
Total	597	725	755	326	295	68	2,766
Value of Salaries and Wages Paid (b)	£. 196,763	£. 228,359	£. 247,154	£. 102,095	£. 97,378	£. 19,605	£. 891,354
Power, Fuel and Light etc. Used	25,274	34,697	26,868	19,207	18,334	2,811	127,191
Materials etc. Used	2,119,033	2,085,351	2,201,500	1,066,017	1,201,109	242,429	8,915,439
Production	394,132	347,914	436,514	116,685	163,542	34,575	1,493,362
Output	2,538,499	2,467,962	2,664,882	1,201,909	1,382,985	279,815	10,536,992
Land and Buildings	240,154	244,082	212,328	123,496	51,804	29,967	901,831
Plant and Machinery	81,697	100,211	129,489	56,045	33,044	3,393	408,879
H.P. of Engines Ordinarily in use	H.P. 2,064	H.P. 3,759	H.P. 2,500	H.P. 1,355	H.P. 940	H.P. 266	H.P. 10,884

(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 and the ratio of salaries and wages to the value of production are shown in the following table for the years 1938-39 and 1943-44 to 1946-47.

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 per cent of Salaries and Wages to Value of Production
	£.	£.	£.	%
1938-39	237	2,301	422	55.47
1943-44	292	3,651	503	57.13
1944-45	302	4,075	657	45.49
1945-46	309	3,878	565	54.01
1946-47	326	3,809	540	59.69

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

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3. MATERIALS USED AND ARTICLES PRODUCED: Particulars of the materials used and articles produced in Bacon Factories during 1945-46 and 1946-47 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. MATERIALS USED AND ARTICLES PRODUCED IN BACON FACTORIES : AUSTRALIA

Particulars	Unit of Qty.	1945-46		1946-47	
		Quantity	Value	Quantity	Value
<u>Materials used:</u>			£.		£.
<u>Pigs killed</u>					
For Bacon and Ham	No.	8,995	(a)	17,519	(a)
Cured on Commission	"	1,031,074	6,525,572	977,479	6,353,478
Cured on Own Account	"				
For Pork (on own account and on commission)	"	141,242	(e) 836,883	80,798	(e) 420,970
For Small Goods	"	81,087	530,470	60,114	465,527
Condemned	"	8,616	(a)	7,803	(a)
Total Pigs killed -					
- on own account	No.	1,260,137	7,892,925	1,125,731	7,239,975
- on commission	No.	10,277	(a)	17,982	(a)
Pork and Green Bacon					
Purchased (own account)	lb.	4,137,361	189,043	5,181,459	263,196
Pork and Green Bacon					
Supplied (commission)	lb.	7,619,352	(a)	8,247,457	(a)
Sugar used	ton.	310	10,320	191	6,472
Other Materials	-	(b)	942,891	(b)	1,004,841
<u>Total Materials Used:</u>	-	(b)	9,035,179	(b)	8,514,484
<u>Articles Produced:</u>					
Bacon & Ham made from Pigs -					
- own account	lb.	98,219,518	6,744,378	95,352,064	6,758,515
- on commission	lb.	908,505	(a)	1,552,869	(a)
Bacon & Ham from Pork and Green Bacon -					
- own account	lb.	(c) 386,740	28,126	(c) 667,968	47,632
- on commission	lb.	6,858,873	(a)	7,490,916	(a)
Green Bacon and Ham made -					
- own account and on commission	lb.	8,106,405	425,306	5,977,219	340,072
Pork - for consumption	lb.	11,437,089	532,763	4,155,158	195,501
- for sale	lb.	2,138,805	166,500	2,358,902	159,634
- for export	lb.	(d)	(d)	(d)	(d)
Lard	lb.	6,136,776	167,900	5,589,678	170,859
Tallow-Raw	cwt.	32,796	39,337	34,002	42,718
-Refined	cwt.	6,563	7,612	6,246	8,603
Pig Casings	cwt.	2,022	37,428	2,005	44,212
Small Goods	-	(b)	652,669	(b)	1,392,538
Bristles	-	(b)	15,869	(b)	1,147
Canned Meats (all kinds)	lb.	8,802,358	736,936	8,172,198	553,344
Edible Fats-Dripping	lb.	545,316	9,322	693,397	16,807
Meat - Meal	cwt.	8,484	4,563	(d)	(d)
Fertilizers - Blood & Bone etc.	"	30,303	7,418	25,236	9,238
Other Articles (including work done)	-	(b)	1,527,422	(b)	795,172
<u>Total Value of Output:</u>	-	(b)	11,163,547	(b)	10,535,992

(a) Quantity only collected.

(b) Value only available.

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

(d) Not available for publication, value included in other Articles Produced.

(e) Excludes value of work done on commission.

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The preceding table does not include details of similar materials used and articles produced in establishments not classified as Bacon Curing factories. In Table V, particulars of some of the principal items, specified above, produced in other works, are shown for the year 1946-47.

TABLE V. Principal Items Produced in Other Works : Australia 1946-47

Item	Unit of Quantity	Industry	Production	
			Quantity	Value
Pork - for consumption	lb.	Meat and Fish Preserving	2,571,531	112,070
- for export	"	"	2,579,468	122,795
Lard	"	Boiling Down	125,391	2,640
		Meat & Fish Pres.	46,144	1,518
		Ice & Refrigerating	1,500	47
Tallow - Raw	cwt.	Mainly Boiling Down Works	608,882	1,004,134
- Refined	"	"	267,467	448,704
Pig Casings	"	Mainly Sausage Skins	2,340	54,760
Small Goods	"	Meat and Fish Pres.	(a)	321,073
Canned Meats - (all kinds)	lb.	Mainly Meat & Fish Preserving	106,701,810	6,255,476
Edible Fats - Dripping	"	Mainly Boiling Down	20,465,489	353,484
Meat - Meal (b)	cwt.	"	605,639	331,130
Fertilizers - Blood & Bone	"	Mainly Boiling Down	511,639	200,758
		Meat and Fish Preserving		

(a) Value only available.

(b) Includes figures for Bacon Curing Industry.

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 1938-39 and 1943-44 to 1946-47.

TABLE VI. BACON FACTORIES : AUSTRALIA

Year	Pigs Cured	Bacon and Ham made		Lard Made		Value of Other Products
		Quantity	Value	Quantity	Value	
	No.	'000 lb.	£.	'000 lb.	£.	£.
1938-39	797,437	72,636	3,497,861	3,113	78,219	1,113,969
1943-44	1,000,165	98,498	45,975,411	5,292	145,704	3,229,242
1944-45	1,246,304	122,630	47,906,755	7,819	223,599	4,134,453
1945-46	1,045,520	106,374	46,772,504	6,137	167,900	4,223,145
1946-47	(b) 991,523	(c) 104,870	46,975,785	5,590	170,859	3,389,348

(a) Excludes Value of Commission work. (b) Number cured in 1947-48, 976,628.

(c) Bacon and Ham made in 1947-48, 96,449,805 lb.

4. **EMPLOYMENT:** The number of employees in Table I, II and VIII 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 1943-44 to 1946-47.

TABLE VII. FACTORIES CLASSIFIED ACCORDING TO HANDS EMPLOYED : AUSTRALIA

	1938-39		1943-44		1944-45		1945-46		1946-47	
Number of Persons Employed in each Factory	No. of Fact-ories	No. of Employ-ees	No. of Fact-ories	No. of Employ-ees	No. of Fact-ories	No. of Employ-ees	No. of Fact-ories	No. of Employ-ees	No. of Fact-ories	No. of Employ-ees
Under 4	13	22	13	29	15	36	15	36	14	30
4	3	12	3	12	1	4	1	4	4	16
5 to 10	15	98	20	139	22	157	20	143	23	175
11 to 20	21	296	17	263	16	256	15	220	16	252
21 to 50	11	328	13	423	14	478	19	568	17	533
51 to 100	9	673	9	620	12	834	10	693	9	633
Over 100	4	623	7	1,077	7	1,295	7	1,218	7	1,142
TOTAL	76	2,052	82	2,563	87	3,068	87	2,882	90	2,781
Average No. employed per Factory	27		31		35		35		31	

Further details of employment in the Daon Curing Industry are furnished in the next four tables.

In Table VIII the numbers of persons employed are shown for the years 1938-39 and 1943-44 to 1946-47 according to the nature of their employment but because of the change in classification which operated from 1945-46 comparison between 1945-46 and 1946-47 and earlier years is not wholly effective.

TABLE VIII. MALES & FEMALES EMPLOYED ACCORDING TO GRADE OF OCCUPATION :
AUSTRALIA

Grade of Occupation	1938-39	1943-44	1944-45	1945-46	1946-47
<u>Males</u>	No.	No.	No.	No.	No.
Working Proprietors	25	38	30	30	32
Managerial & Clerical Staff incl. Salaried					
Managers and Working Directors				211	213
Chemists, Draftsmen and other Laboratory and Research Staff	1,878	2,247	2,587	2	2
Foremen and Overseers				79	107
Workers in Factory (Skilled & Unskilled)				2,240	2,156
Carters (Excl. Delivery only) Messengers and Persons Working Regularly at Home	44	29	35	23	21
<u>TOTAL MALES</u>	1,947	2,314	2,652	2,585	2,531
<u>Females</u>					
Working Proprietors	-	-	-	-	1
Managerial and Clerical Staff including Salaried Managers and Working Directors	99	244	357	96	91
Foremen and Overseers				1	2
Workers in Factory (Skilled and Unskilled)				197	141
Other (Carters and Messengers etc.)	1	3	1	-	-
<u>TOTAL FEMALES</u>	100	247	358	294	235
<u>TOTAL PERSONS</u>	2,047	2,561	3,010	2,879	2,766

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 1945-46 and 1946-47.

TABLE IX. PERSONS EMPLOYED ON PAY-DAY NEAREST TO THE 15TH OF EACH MONTH: AUSTRALIA
(Working proprietors excluded)

	1945-46			1946-47		
	Males	Females	Total	Males	Females	Total
July	2,573	349	2,922	2,589	242	2,831
August	2,617	344	2,961	2,556	252	2,808
September	2,588	337	2,925	2,541	256	2,797
October	2,513	323	2,836	2,541	264	2,805
November	2,569	317	2,886	2,498	250	2,748
December	2,628	296	2,924	2,519	250	2,769
January	2,630	289	2,919	2,415	217	2,632
February	2,672	274	2,946	2,413	187	2,600
March	2,506	266	2,772	2,403	200	2,603
April	2,324	256	2,580	2,444	224	2,668
May	2,416	246	2,662	2,474	229	2,703
June	2,533	245	2,778	2,445	221	2,666

The numbers of persons employed on or about the 15th June, 1947 are distributed according to age and sex in Table X. Owing to the change in classification which operated from 1945-46, it is not possible to give a comparison in single year groups, viz., 16-20 years, for previous years, but the comparison on the old basis has been retained in Table XI.

TABLE X. DISTRIBUTION OF EMPLOYEES ACCORDING TO AGE & SEX: AUSTRALIA
JUNE, 1947
(Excludes Working Proprietors)

Sex	Under 15 years	16 years	17 years	18 years	19 years	20 years	21 years & over	Total
Males	33	41	62	47	55	54	2,153	2,445
Females	6	15	15	23	17	17	128	221
Persons	39	56	77	70	72	71	2,281	2,666

BACON CURING (CONTD.)TABLE XI. 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	48	262	1,637	1,947	7	38	51	96	55	300	1,688	2,043
1944	82	340	2,032	2,454	25	154	97	276	107	494	2,129	2,730
1945	82	346	2,265	2,693	15	165	181	361	97	511	2,446	3,054
1946	30	237	2,266	2,533	9	96	140	245	39	333	2,406	2,778
1947	33	259	2,153	2,445	6	87	128	221	39	346	2,281	2,666

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 horse-power of engines ordinarily in use together with those in reserve or idle.

TABLE XII. TYPES AND RATED HORSEPOWER OF ENGINES : AUSTRALIA

Class of Engine	Rated H.P. of Engines					
	Ordinarily in Use			In Reserve or Idle		
	1938-39	1945-46	1946-47	1938-39	1945-46	1946-47
Steam-Reciprocating	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Turbine	2,435	1,025	1,058	329	508	706
Internal Combustion -	615	615	615	5	-	-
Gas	331	183	276	53	120	105
Petrol or Other Light Oils	23	24	29	8	28	47
Heavy Oils	1,005	665	799	45	477	569
Water	-	-	-	-	-	-
Total Prime Movers	4,409	2,512	2,777	440	1,133	1,427
Motors driven by electricity -						
Purchased	4,980	7,604	8,107	284	275	339
Own Generation	1,775	455	574	-	-	-
Total Electricity	6,755	8,059	8,681	284	275	339
TOTAL POWER USED (a)	9,389	10,116	10,884	724	1,408	1,766

(a) Without Duplication.

6. POWER, FUEL AND LIGHT ETC. USED. 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, 1945-46 and 1946-47.

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

Particulars	Unit of Qty.	Quantity			Value		
		1938-39	1945-46	1946-47	1938-39	1945-46	1946-47
Power, Fuel and Light -					£.	£.	£.
Coal - Black	ton	18,148	14,129	15,813	24,405	23,625	27,623
Brown	"	750	-	-	1,156	-	-
Brown Coal Briquettes	"	(a)	1,472	1,329	(a)	2,384	2,124
Coke	"	1,018	798	870	1,650	1,831	2,063
Wood	"	19,294	20,937	22,592	11,160	21,514	22,777
Fuel Oil	gal.	137,840	106,788	108,083	4,039	5,175	4,949
Tar Fuel	"	(b)	(b)	60,000	-	-	960
Electricity	-	(b)	(b)	(b)	22,892	49,130	46,028
Gas	-	(b)	(b)	(b)	139	1,600	1,590
Other (Charcoal, etc.)	-	(b)	(b)	(b)	1,459	8,689	4,924
Water & Lubricating Oil	-	(b)	(b)	(b)	10,064	12,227	14,153
TOTAL		(b)	(b)	(b)	76,964	126,175	127,191

(a) Included with Brown Coal. (b) Value only available.

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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 years 1938-39 and 1943-44 to 1946-47 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 XIV. VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY:AUSTRALIA

Year	Book Value as at 30th June (a)		Additions and Replacements made during year		Depreciation Allowed during year	
	Land and Buildings	Plant and Machinery	Land and Buildings	Plant and Machinery	Land and Buildings	Plant and Machinery
	£.	£.	£.	£.	£.	£.
1938-39	750,398	356,678	30,900	29,047	14,359	28,867
1943-44	833,519	349,808	23,437	21,835	16,217	29,451
1944-45	866,468	366,584	15,438	43,538	17,707	35,229
1945-46	889,775	394,961	35,356	55,858	15,965	36,516
1946-47	901,831	408,379	20,021	37,620	14,188	37,993

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

8. EXTERNAL TRADE: The value of imports and exports of Bacon and Ham are given in the following table for the years 1938-39 and 1943-44 to 1946-47.

TABLE XV. IMPORTS AND EXPORTS OF BACON AND HAM :AUSTRALIA

Year	IMPORTS		EXPORTS	
	Quantity	Value	Quantity	Value
	lb.	£A.	lb.	£A.
1938-39	9,681	544	1,739,053	119,994
1943-44	13	1	14,954,984	1,172,784
1944-45	48	8	11,045,954	905,545
1945-46	106	16	18,856,610	1,700,266
1946-47	63	12	14,674,450	1,404,610

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9. MINIMUM WEEKLY RATES OF WAGE: The following table shows in respect of Bacon Curing Factories the weekly minimum rates of wage in operation at 30th June, 1947 as 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 was 44.

TABLE XVI. MINIMUM WEEKLY RATES OF WAGE AS AT 30TH JUNE, 1947
(CAPITAL CITIES)

Occupation	New South Wales (S)	Victoria (C)	Q'd. (S)	S. Aust. (C)	W. Aust. (S)	Tasmania (S)
	(a)					
Slaughterman ..	141. 0	146. 0	157. 5	143. 0	135. 1	139. 6
Curer -						
Leading Hand ..	151. 0	146. 0	155. 0	143. 0	135. 1	131. 6
1st Assistant ..	135. 0	133. 6	135. 6	130. 6	125. 7	..
2nd Assistant ..	125. 0	128. 6	123. 6	125. 6	..	..
Cutter up ..	137. 0	133. 6	140. 8	130. 6	128. 1	..
Trimmer ..	118. 0	133. 6	133. 0	130. 6	121. 7	..
Roller ..	..	133. 6	133. 0	130. 6	..	..
Dagger ..	..	124. 0	140. 0	121. 0	121. 7	..
Lardman ..	121. 6	124. 0 and 133. 6	140. 0	121. 0 and 130. 6	125. 7	..
Smoker ..	131. 0	124. 0	145. 11	121. 0	..	..
Scalder ..	136. 0	124. 0	146. 0	121. 0	128. 1	..
All Others ..	..	118. 6	130. 9	115. 6	..	124. 0
Junior - Males -		(b)		(b)		(b)
15 years of age ..	..	..	49. 0	..	37. 6	..
16 " " " ..	56. 10	..	56. 4	..	48. 2	..
17 " " " ..	66. 8	..	65. 6	..	64. 3	..
18 " " " ..	77. 6	..	82. 0	..	74. 11	..
19 " " " ..	89. 4	..	..	..	96. 5	..
20 " " " ..	97. 11	..	..	..	107. 1	..

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

(a) Rates for County of Cumberland.

(b) Rates vary according to experience.

NOTE: Weekly rates of wage ranging from 39/4 under 17 years of age to 72/1d. over 21 years are prescribed for Female employees in the Queensland Award.

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CANBERRA. A. C. T. 13TH DECEMBER, 1948.