

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

CANBERRA

OFFICIAL STATISTIC, COMMONWEALTH OF AUSTRALIA

MANUFACTURING INDUSTRIES

1950 - 51

NO. 17. BISCUITS

Prepared under instructions from
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MANUFACTURING INDUSTRIES : AUSTRALIA, 1950-51

PREFACE.

1. REVISIONS: The Bulletins in the series for 1950-51 are listed on the back of the cover of this Bulletin and incorporate the same range of industries as the 1949-50 series with the following variations:-

- (a) The Metal and Machinery etc. Industries have been re grouped and are presented as - Basic Metal Industries (Bulletin No. 7) and Metal Fabricating Industries (Bulletin No. 8).
- (b) Single Bulletins are now being issued to cover:-
 - (i) The Clothing Industry, to include Hosiery and Knitted Goods (Bulletin No. 15).
 - (ii) The Jam, Fruit and Vegetable Canning, and the Pickles, Sauces and Condiments Industries (Bulletin No. 19).
- (c) Many of the Bulletins have been renumbered.

Where a number of Industries are combined in one Bulletin the introductory paragraph on Page 2 specifies the industries so included.

2. CLASSIFICATION OF FACTORIES: For purposes of industry classification, factories in Australia are classified according to the nature of their product. Where two or more distinct types of industrial activity are carried on in one establishment, a separate return is obtained, wherever practicable, for each activity in order to allow classification on this basis. In cases where this is not practicable, factories are classified according to predominant activity and these cases are enumerated most frequently in the Metal Trades, (e.g. General Engineering firms also producing Agricultural Implements or Stoves etc.), and to a lesser degree in factories concerned with Skins, Leather, Clothing and Wool products.

Each of the summaries in the "Manufacturing Industries" series, relates as far as possible to the operations of factories classified to the industry specified. Sometimes articles normally produced in the industry covered by a particular Bulletin are also produced, as subsidiary production, in other industries, and, wherever possible, quantity tables have been extended to show details of production separately for the industry under review and the total in all industries.

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

Briefly, a "factory" is taken to be a manufacturing establishment in which four or more persons 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 of manufactured goods, 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 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 added to raw materials by the process of manufacture. It is calculated by deducting from the value of factory output the value (at the factory) of the materials used, containers and packing, power, fuel and light used, tools replaced and materials used in repairs to plant (but not depreciation charges). The value of production is the source from which such items as wages, interest, depreciation, profits, taxation, advertising and other surpluses are met. As full details of costs of production are not collected, the amount of profit resulting from factory operations cannot be ascertained from the figures contained herein.

S. R. CARVER
ACTING COMMONWEALTH STATISTICIAN

MANUFACTURING INDUSTRIES : AUSTRALIA, 1950-51.

BISCUITS

1. SUMMARY OF STATISTICS: The following table furnishes a summary of the principal statistics of the factories engaged in the manufacture of Biscuits in Australia for the years 1938-39, 1945-46 and 1948-49 to 1950-51.

TABLE I : BISCUITS : AUSTRALIA

Year	Number of Factories (1)	Persons Employed (a) (2)	Salaries and Wages Paid (b) (3)	Power, Fuel and Light, etc. Used (4)	Value of Materials etc. Used (c) (5)	Value of Production (d) (6)	Value of Output (7)
	No.	No.	£'000	£'000	£'000	£'000	£'000
1938-39	36	4,572	603	73	1,511	1,205	2,789
1945-46	41	3,593	834	90	1,748	1,689	3,527
1948-49	61	4,283	1,356	136	2,674	2,567	5,377
1949-50	70	4,981	1,744	179	3,555	3,061	6,795
1950-51	68	5,360	2,256	240	3,938	3,854	8,032

- (a) Average over whole year; includes Working Proprietors.
 (b) Excludes amounts drawn by Working Proprietors.
 (c) Includes value of containers, packing, etc. replacements of tools and repairs to plant.
 (d) Value of production equals column (7) less total of columns (4) and (5).

In the following table particulars of the Industry are given for each State during the year 1950-51.

TABLE II : BISCUITS : AUSTRALIA, 1950-51.

Particulars	H.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.	AUSTRALIA
No. of Factories	24	21	8	8	4	3	68
No. Employed (a) -							
Males	1,096	740	102	144	(c)	(c)	2,262
Females	1,478	807	207	245	(c)	(c)	3,096
Total	2,574	1,547	309	389	(c)	(c)	5,360
Value of -	£.	£.	£.	£.	£.	£.	£.
Salaries and Wages Paid (b)	1,112,469	688,809	95,885	149,223	(c)	(c)	2,256,000
Power, Fuel and Light etc. used ..	114,824	70,501	12,142	19,486	(c)	(c)	239,694
Materials, etc. used	1,815,479	1,137,190	325,960	207,175	(c)	(c)	3,937,810
Production (d) ..	2,016,961	1,161,579	175,601	216,801	(c)	(c)	3,854,138
Output	3,947,264	2,369,270	513,703	443,462	(c)	(c)	8,031,642
Land and Buildings	926,891	492,522	45,725	114,017	(c)	(c)	1,686,181
Plant and Machinery	619,698	457,403	81,756	92,013	(c)	(c)	1,355,223
H.P. of Engines	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Ordinarily in use	4,331	2,160	464	401	(c)	(c)	8,126

- (a) Average over whole year; includes Working Proprietors.
 (b) Excludes amounts drawn by Working Proprietors.
 (c) Not available for publication; included in the total for Australia.
 (d) See note (d) to Table I.

2. AVERAGE SALARIES, OUTPUT AND PRODUCTION: Particulars of the average salary and wage paid, together with the average values of output and production per person engaged and the ratio of salaries and wages to value for production are shown in the following table for the years 1938-39, 1945-46 and 1948-49 to 1950-51.

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 of Salaries and Wages to Value of Production
	£.	£.	£.	%
1938-39	132	610	264	50.01
1945-46	233	982	470	49.36
1948-49	321	1,255	599	53.20
1949-50	353	1,364	614	56.97
1950-51	425	1,498	719	58.53

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

(b) Includes Working Proprietors.

3. MATERIALS USED AND ARTICLES PRODUCED: Particulars of principal materials used and articles produced in Biscuit Factories and Bakeries for the year 1950-51 are shown in the following table. Otherwise the details given in this Summary refer solely to establishments classified as Biscuit Factories.

TABLE IV : PRINCIPAL MATERIALS USED AND ARTICLES PRODUCED : BISCUIT FACTORIES AND BAKERIES : AUSTRALIA : 1950-51.

Particulars	Unit of Quantity	Biscuit Factories		Bakeries	
		Quantity	Value (£)	Quantity	Value (£)
<u>Materials Used -</u>					
Flour	Ton (2000 lb.)	45,262	851,929	493,393	9,331,458
Sugar	Ton (2240 lb.)	11,696	505,793	20,341	910,888
Wheatmeal	cwt	24,249	22,299	360,179	375,558
				<u>All Factories (incl. Biscuit Factories and Bakeries)</u>	
<u>Articles Produced</u>					
Biscuits	lb.	15,854,521	7,279,158	130,116,247	7,540,707
Ice Cream Cones and Wafers	"	3,887,318	321,076	4,459,449	390,279
Cakes, Pastry, Pies and Pudding	-	(a)	343,334	(a)	14,458,868
Bread	2lb. loaf	-	-	622,894,906	19,142,643
Dog Biscuits	lb.	793,710	28,998	4,213,007	106,614

(a) Value only collected.

Particulars of the total production of biscuits in all Australian factories are shown in the following table for the years 1938-39 to 1951-52 and for each month of 1951-52.

**TABLE V : BISCUITS MADE IN ALL FACTORIES :
AUSTRALIA**

Year	Quantity '000 lb.	Value £A.	Month	Quantity (a) '000 lb.
1938-39	73,726	2,609,230	1951 - July	13,149
1939-40	76,661	2,759,404		August
1940-41	84,791	3,070,524	September	12,396
1941-42	111,930	3,907,208	October	13,127
1942-43	147,946	4,635,054	November	13,430
1943-44	128,089	4,547,730	December	9,620
1944-45	108,421	4,034,108	1952 - January	8,630
1945-46	84,453	3,197,117		February
1946-47	88,705	3,462,440	March	13,121
1947-48	96,677	4,172,829	April	12,741
1948-49	107,083	5,332,002	May	13,080
1949-50	117,904	6,301,364	June	12,423
1950-51	130,116	7,540,707	Year 1951-52	149,999
1951-52	(a) 149,999	(b)		

(a) Subject to revision.

(b) Not yet available.

4. **EMPLOYMENT:** The number of employees shown in Tables 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, 1945-46 and 1948-49 to 1950-51.

**TABLE VI : BISCUIT FACTORIES CLASSIFIED ACCORDING TO PERSONS EMPLOYED :
AUSTRALIA**

No. of Persons Employed in each Factory	1938-39		1945-46		1948-49		1949-50		1950-51	
	No. of Fac- tories	No. of Em- ployed	No. of Fac- tories	No. of Em- ployed	No. of Fac- tories	No. of Em- ployed	No. of Fac- tories	No. of Em- ployed	No. of Fac- tories	No. of Em- ployed
Under 4	4	11	-	-	-	1	2	3	3	6
4	2	8	2	8	1	-	2	8	4	16
5 to 10	6	45	7	54	14	102	17	134	14	98
11 to 20	5	77	9	147	16	239	16	259	19	273
21 to 50	4	130	8	253	14	450	13	395	8	300
51 to 100	6	504	6	468	6	524	6	442	6	477
101 to 200	9	3,805	4	561	4	517	8	983	8	1,009
201 to 300										
301 & over			3	1,653	6	2,487	6	2,858	6	3,201
TOTALs:	36	4,580	41	3,616	61	4,320	70	5,082	68	5,380
Average No. Employed Per Factory		127		88		71		73		79

Further details of employment in the Biscuit Industry are furnished in the two tables following. In Table VII, the numbers of males and females employed are shown for the years 1938-39, 1949-50 and 1950-51 according to the nature of their employment, but because of the change in classification which operated from 1945-46 comparison between 1938-39 and later years shown is not wholly effective.

**TABLE VII : PERSONS EMPLOYED CLASSIFIED ACCORDING TO OCCUPATIONAL STATUS :
AUSTRALIA**

Occupational Status	Males			Females		
	1938-39	1949-50	1950-51	1938-39	1949-50	1950-51
Working Proprietors						
Managerial & Clerical Staff, incl.	16	38	39	2	7	8
Salaried Managers and Working Directors	1,807	206	222	2,646	197	213
Chemists, Draftsmen & Other Laboratory and Research Staff						
Foremen and Overseers		17	20		2	2
Workers in Factory (Skilled & Unskilled)		117	112		82	90
Carters (excl. Delivery only) Messengers & Persons Working Regularly at Home		1,776	1,861		2,531	2,784
	101	7	8	-	1	1
TOTALs:	1,924	2,141	2,262	2,648	2,820	3,096

The number of persons employed in Biscuit Factories on or about the 15th June, for the years 1939, 1946 and 1949 to 1951 are distributed according to age and sex in Table VIII.

TABLE VIII : DISTRIBUTION OF EMPLOYEES ACCORDING TO AGE AND SEX : AUSTRALIA
(Excluding Working Proprietors)

June	Under 16 years	16 years	17 years	18 years	19 years	20 years	Total 16 to 20 years	21 years and over	Total all Ages
M A L E S									
1939	277	(a)	(a)	(a)	(a)	(a)	617	967	1,861
1946	100	106	95	76	48	38	353	1,414	1,867
1949	82	93	99	72	53	50	367	1,561	2,010
1950	66	93	90	63	50	39	335	1,854	2,255
1951(b)	101	79	83	66	63	33	324	1,910	2,335
F E M A L E S									
1939	466	(a)	(a)	(a)	(a)	(a)	1,265	903	2,634
1946	52	72	97	94	120	111	494	1,134	1,680
1949	66	90	117	147	113	129	596	1,859	2,521
1950	78	101	107	156	137	141	642	2,408	3,128
1951(b)	82	97	108	135	131	87	558	2,547	3,187

(a) Details not collected. (b) Last pay day of month.

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 IX : TYPES AND RATED HORSE - POWER OF ENGINES : AUSTRALIA

Class of Engine	Rated Horse-Power of Engines					
	Ordinarily in Use			In Reserve or Idle		
	1938-39	1949-50	1950-51	1938-39	1949-50	1950-51
Steam - Reciprocating ..	1,842	1,008	1,008	11	11	11
Turbine ..	-	700	650	-	-	-
Internal Combustion -						
Gas	-	-	-	-	-	-
Petrol or Other Light Oils ..	-	57	560	-	16	16
Heavy Oils	125	80	30	95	-	4
Water	-	-	-	-	-	-
Total Prime Movers:	1,967	1,845	2,248	106	27	31
Motors driven by electricity -						
Purchased	3,088	5,536	5,878	58	646	830
Own Generation	(a)1,942	(a)2,340	(a)2,512	181	-	-
Total Electricity:	5,030	7,876	8,390	239	646	830
TOTAL POWER USED:	5,055	7,381	8,126	345	673	861

(a) These motors are driven by electricity generated by Prime Movers shown above, and are excluded from statistics of total power used, to avoid 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 Biscuit Factories for the years 1938-39, 1949-50 and 1950-51 are shown in the following table: -

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

Particulars	Unit of Quantity	Quantity			Value (£)		
		1938-39	1949-50	1950-51	1938-39	1949-50	1950-51
<u>Power, Fuel and Light -</u>							
Coal - Black ..	Ton	8,683	6,749	7,576	10,932	16,832	24,114
Brown ..	"	1,880	340	-	2,417	510	-
Brown Coal Briquettes	"	(a)	50	85	(a)	125	261
Coke ..	"	5,062	2,452	2,422	8,279	9,140	11,860
Wood ..	"	5,656	7,205	6,973	2,973	10,996	11,837
Fuel Oil ..	Gallon	66,490	273,886	332,213	1,609	16,121	23,234
Electricity ..	-	(b)	(b)	(b)	11,083	23,968	31,941
Gas ..	-	(b)	(b)	(b)	30,438	90,821	119,271
Other (Charcoal, etc.)	-	(b)	(b)	(b)	5	3,347	8,625
Water and Lubricating Oil used ..	-	(b)	(b)	(b)	5,322	7,708	8,541
TOTAL:		(b)	(b)	(b)	73,065	179,568	239,694

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

7. VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY: Particulars of the book values of premises occupied and plant used in Biscuit Factories at the 30th June for the years 1938-39, 1945-46 and 1948-49 to 1950-51 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 XI - VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY, ETC. : AUSTRALIA
(£)

Year	Book Values as at 30th June (a)		Additions & 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	691,706	528,344	10,253	89,088	6,638	48,307
1945 - 46	927,536	450,222	64,147	85,184	4,945	58,156
1948 - 49	1,205,857	705,623	95,720	152,524	5,750	77,040
1949 - 50	1,261,798	920,335	94,511	346,522	9,650	144,838
1950 - 51	1,606,161	1,355,223	210,718	460,962	10,240	141,363

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

8. EXTERNAL TRADE: The quantities and values of imports and exports of Biscuits are given in the following table for the years 1938-39, 1945-46 and 1948-49 to 1950-51.

TABLE XII : IMPORTS AND EXPORTS OF BISCUITS : AUSTRALIA.

Year	Imports		Exports	
	Quantity	Value	Quantity	Value
	lb.	£A.f.o.b.	lb.	£A.f.o.b.
1938-39	350,686	16,213	1,893,357	67,325
1945-46	2,364	303	17,098,432	619,914
1948-49	121,763	14,619	1,603,584	82,737
1949-50	224,066	24,359	1,853,273	101,288
1950-51	322,219	41,198	2,510,383	136,512

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CANBERRA. A.C.T. 27th OCTOBER, 1952.