

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS, CANBERRA
AUSTRALIA

MANUFACTURING INDUSTRIES
1952-53

NO. 17. BISCUITS

Prepared under Instructions from
THE RIGHT HONORABLE THE TREASURER,

by

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MANUFACTURING INDUSTRIES : 1952-53

PREFACE

1. GENERAL: The Bulletins in the series for 1952-53 are listed on the back of the cover of this Bulletin and incorporate the same range of industries as the 1951-52 series.

Where a number of industries are combined in one Bulletin the introductory paragraph on Page 3 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 encountered 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 Wood 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 Secondary Industries Bulletin.

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 sundry charges 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

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 1950-51 to 1952-53.

TABLE 1 : BISCUITS : AUSTRALIA

Year	Number of Factories	Persons Employed (a)	Salaries and Wages Paid (b)	Power, Fuel and Light, etc. Used (4)	Value of Materials etc. Used (c) (5)	Value of Pro- duction (d) (6)	Value of Output (7)
	(1)	(2)	(3)	(4)	(5)	(6)	(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	1,743	1,689	2,777
1950-51	68	5,360	2,256	240	3,938	3,854	8,032
1951-52	66	5,634	3,013	353	5,275	5,358	10,986
1952-53	62	5,206	3,198	394	6,441	6,042	12,877

(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 1952-53.

TABLE 2 : BISCUITS : AUSTRALIA, 1952-53.

Particulars	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.	AUSTRALIA
No. of Factories	21	20	7	6	6	2	62
No. Employed (a) -							
Males	1,008	749	132	136	(b)	(b)	2,251
Females	1,398	719	255	220	(b)	(b)	2,955
Total	2,406	1,468	387	358	(b)	(b)	5,206
Value of -	£.	£.	£.	£.	£.	£.	£.
Salaries and Wages							
Paid (a) ..	1,548,764	908,083	200,491	222,191	(b)	(b)	3,197,549
Power, Fuel and Light etc. used ..	191,332	114,818	22,582	26,471	(b)	(b)	393,380
Materials, etc. used	3,052,521	1,654,577	636,762	360,416	(b)	(b)	6,441,113
Production (d) ..	3,051,916	1,744,728	494,844	302,676	(b)	(b)	6,042,232
Output	6,295,769	3,514,123	1,154,188	709,563	(b)	(b)	12,876,734
Land and Buildings	1,072,233	843,282	118,820	256,871	(b)	(b)	2,521,912
Plant and Machinery	1,011,138	650,852	156,903	194,197	(b)	(b)	2,164,690
H.P. of Engines	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Ordinarily in use	5,108	2,629	728	881	(b)	(b)	10,257

(a) Average over whole year; includes Working Proprietors.

(b) Not available for publication; included in the total for
Australia.

(c) Excludes amounts drawn by Working Proprietors.

(d) See note (d) to Table 1.

4.

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 of production are shown in the following table for the years 1938-39, 1945-46 and 1950-51 to 1952-53.

TABLE 3 : BISCUIT FACTORIES - 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
1950-51	425	1,496	719	58.53
1951-52	539	1,950	951	56.23
1952-53	618	2,473	1,161	52.92

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

(b) Includes Working Proprietors.

3. MATERIALS USED AND ARTICLES PRODUCED: Particulars of principal materials used in Biscuit Factories and Bakeries and articles produced in Biscuit and all Factories for the year 1952-53 are shown in the following table.

TABLE 4 : PRINCIPAL MATERIALS USED AND ARTICLES PRODUCED : BISCUIT FACTORIES AND BAKERIES : AUSTRALIA : 1952-53

Particulars	Unit of Quantity	Biscuit Factories		Bakeries	
		Quantity	Value (£)	Quantity	Value (£)
<u>Materials Used -</u>					
Flour	Ton (2000 lb.)	48,520	1,345,437	528,882	14,244,092
Sugar	Ton (2240 lb.)	13,027	893,709	19,555	1,367,493
Wheatmeal ..	cwt	26,133	37,241	414,624	603,811
				All Factories (incl. Biscuit Factories and Bakeries)	
<u>Articles Produced</u>					
Biscuits	'000 lb.	143,110	12,076,029	147,988	12,466,694
Ice Cream Cones and Wafers	'000 lb.	2,174	287,797	2,713	353,026
Cakes, Pastry, Pies and Pudding	-	(a)	352,672	(a)	18,018,026
Bread	'000 2 lb. loaves	-	-	680,694	29,714,281
Dog Biscuits ..	lb.	688,018	31,088	4,889,125	166,786

(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 1945-46 and 1948-49 to 1953-54 and for each month of 1953-54.

TABLE 5 : BISCUITS (a) MADE IN ALL FACTORIES : AUSTRALIA

Year	Quantity '000 lb.	Value £.	Month	Quantity (a) '000 lb.
1938-39	73,726	2,609,230	1953 - July	13,976
1939-40	76,661	2,759,404	August	12,266
1940-41	84,791	3,070,524	September	12,376
1941-42	111,930	3,907,208	October	14,469
1942-43	147,946	4,635,054	November	12,684
1943-44	122,522	4,547,730	December	12,523
1944-45	108,421	4,034,108	1954 - January	9,835
1945-46	84,453	3,197,117	February	11,031
1948-49	107,088	5,332,264	March	13,450
1949-50	117,904	6,301,884	April	13,090
1950-51	130,116	7,540,707	May	12,625
1951-52	149,747	10,411,556	June	14,999
1952-53	147,988	12,466,694		
1953-54	(b) 150,324	(c)	Year 1953-54	150,324

(a) Excluding Ice Cream Cones and Wafers. (b) Subject to revision. (c) Not yet available.

4. **EMPLOYMENT:** The number of employees shown in Tables 1, 2 and 7 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 1950-51 to 1952-53.

TABLE 6 : BISCUIT FACTORIES CLASSIFIED ACCORDING TO PERSONS EMPLOYED : AUSTRALIA

No. of Persons Employed in each Factory	1938-39		1945-46		1950-51		1951-52		1952-53	
	No. of Fac- tories	No. Em- ployed	No. of Fac- tories	No. Em- ployed	No. of Fac- tories	No. Em- ployed	No. of Fac- tories	No. Em- ployed	No. of Fac- tories	No. Em- ployed
Under 4	4	11	-	-	3	6	1	1	7	15
4	2	8	2	8	4	16	6	24	4	16
5 to 10	6	45	7	54	14	98	17	133	15	96
11 to 20	5	77	9	147	19	273	16	236	11	169
21 to 50	4	130	8	253	8	300	7	254	8	249
51 to 100	6	504	6	468	6	477	5	390	3	186
101 to 200	)		4	561	8	1,009	7	999	6	808
201 to 300	)	3,805	2	472	)				3	721
301 & over	)		3	1,653	)	3,201	7	3,610	5	2,923
TOTAL:	36	4,580	41	3,616	68	5,380	66	5,647	62	5,213
Average No. Employed per Factory		127		88		79		86		84

Further details of employment in the Biscuit Industry are furnished in the following two tables. In Table 7, the numbers of males and females employed are shown for the years 1938-39, 1951-52 and 1952-53 according to the nature of their employment, but because of the change in classification of occupational status adopted in 1945-46, group comparison between 1938-39 and later years shown is not possible.

TABLE 7 : BISCUIT FACTORIES - PERSONS EMPLOYED CLASSIFIED ACCORDING TO OCCUPATIONAL STATUS : AUSTRALIA

Occupational Status	Males			Females		
	1938-39	1951-52	1952-53	1938-39	1951-52	1952-53
Working Proprietors	16	38	31	2	10	5
Managerial & Clerical Staff, incl. ..						
Salaried Managers and Working Directors	1,807	233	226	2,646	248	255
Chemist, Draftsmen & Other Laboratory and Research Staff		22	27		2	2
Foremen and Overseers		124	124		84	79
Workers in Factory (Skilled & Unskilled)		2,006	1,839		2,859	2,613
Caters (excl. Delivery only) Messengers & Persons Working Regularly at Home	101	7	4	-	1	1
TOTAL:	1,924	2,430	2,251	2,648	3,204	2,951

The number of persons employed in Biscuit Factories on or about the 15th June, for the years 1939, 1946 and 1951 to 1953 are distributed according to age and sex in Table 8.

TABLE 8 - BISCUIT FACTORIES : 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
<u>MALES</u>									
1939	277	(a)	(a)	(a)	(a)	(a)	617	967	1,861
1946	100	106	85	76	48	38	353	1,414	1,867
1951(b)	101	79	83	66	63	33	324	1,910	2,335
1952(b)	117	129	117	113	104	83	546	1,706	2,369
1953(b)	74	79	66	74	67	45	331	1,815	2,220
<u>FEMALES</u>									
1939	466	(a)	(a)	(a)	(a)	(a)	1,265	903	2,634
1946	52	72	97	94	120	111	494	1,134	1,680
1951(b)	82	97	108	135	131	87	558	2,547	3,187
1952(b)	135	199	178	185	155	150	867	2,127	3,129
1953(b)	137	137	167	154	137	111	706	2,041	2,884

(a) Details not collected. (b) At last pay day in June.

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 9 - BISCUIT FACTORIES : 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	1951-52	1952-53	1938-39	1951-52	1952-53
Steam - Reciprocating	1,842	1,333	1,333	11	11	75
Turbine	-	800	800	-	-	-
Internal Combustion -						
Gas	-	-	-	-	-	-
Petrol or Other Light Oils	-	720	735	-	121	141
Heavy Oils	125	80	-	95	370	170
Water	-	-	-	-	-	-
<u>Total Prime Movers:</u>	1,967	2,933	2,868	106	502	386
Motors driven by electricity-						
Purchased	3,088	6,757	7,389	58	861	825
Own Generation ..	(a) 1,942	(a) 2,487	(a) 2,747	181	-	-
<u>Total Electricity:</u>	5,030	9,244	10,136	239	861	825
<u>TOTAL POWER USED:</u>	5,055	9,690	10,257	345	1,363	1,211

(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, 1951-52 and 1952-53 are shown in the following table: -

TABLE 10 : BISCUIT FACTORIES : POWER, FUEL AND LIGHT ETC. USED : AUSTRALIA

Particulars	Unit of Quantity	Quantity			Value (£)		
		1938-39	1951-52	1952-53	1938-39	1951-52	1952-53
Power, Fuel and Light -							
Coal - Black ..	ton	8,683	8,220	8,353	10,932	41,212	49,623
Brown ..	"	1,880	318	100	2,417	419	240
Brown Coal Briquettes	"	(a)	-	-	(a)	-	-
Coke	"	5,062	2,353	2,183	8,279	14,978	17,086
Wood	"	5,656	6,358	5,976	2,973	13,129	15,541
Fuel Oil	gallon	66,490	301,685	337,608	1,609	26,986	30,265
Electricity ..	-	(b)	(b)	(b)	11,083	41,776	49,491
Gas	-	(b)	(b)	(b)	30,438	203,756	216,883
Other (Charcoal, etc.)	-	(b)	(b)	(b)	5	727	2,152
Water and Lubricating Oil used	-	(b)	(b)	(b)	5,329	10,193	12,108
TOTAL:		(b)	(b)	(b)	73,065	353,176	393,389

(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 1950-51 to 1952-53 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 are operating during each year and that changes in their number, as well as other factors, affect comparison from year to year.

TABLE 11 : BISCUIT FACTORIES : 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	460,222	64,147	85,184	4,946	58,156
1950-51	1,686,181	1,355,223	210,718	460,962	10,240	141,363
1951-52	1,972,108	1,696,070	314,164	537,052	10,595	185,029
1952-53	2,521,912	2,164,690	497,099	641,577	12,235	137,777

(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 1950-51 to 1952-53.

TABLE 12 : IMPORTS AND EXPORTS OF BISCUITS : AUSTRALIA

Year	Imports		Exports	
	Quantity	Value	Quantity	Value
	lb.	£A.	lb.	£A.
1938-39	350,686	16,213	1,893,357	67,325
1945-46	2,364	303	17,098,432	619,914
1950-51	322,219	41,198	2,510,383	136,512
1951-52	686,708	93,389	2,604,546	166,954
1952-53	107,676	14,733	2,735,644	237,232

NOTE: - Values in Australian currency f.o.b., port of shipment.

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13TH AUGUST, 1954