

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS, CANBERRA.

AUSTRALIA

MANUFACTURING INDUSTRIES

1952-53

NO. 18 CONFECTIONERY

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 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 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.

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MANUFACTURING INDUSTRIES, AUSTRALIA : 1952-53
CONFECTIONERY

3.

IT SHOULD BE NOTED THAT THE PARTICULARS OF FACTORY OPERATIONS GIVEN IN THIS SUMMARY EXCLUDE SIX FACTORIES OPERATING IN TASMANIA, EXCEPT IN TABLES 4 AND 5 WHERE THEY REFER TO AUSTRALIA AS A WHOLE AND INCLUDE THESE FACTORIES.

1. **SUMMARY OF STATISTICS:** The following table furnishes a summary of the principal statistics of the factories engaged in the manufacture of Confectionery in Australia for the years 1938-39, 1945-46 and 1950-51 to 1952-53.

TABLE 1 : CONFECTIONERY : AUSTRALIA (a)

Year	Number of Factories	Persons Employed	Salaries and Wages Paid (c)	Power, Fuel and Light, etc. Used	Value of Materials etc. Used	Value of Production (e)	Value of Output
	(1)	(b) (2)	(3)	(4)	(d) (5)	(6)	(7)
	No.	No.	£'000	£'000	£'000	£'000	£'000
1938-39	148	7,256	1,041	107	3,102	2,418	5,627
1945-46	198	5,965	1,389	139	4,669	3,314	8,122
1950-51	250	7,801	3,431	299	10,371	6,809	17,479
1951-52	250	7,361	4,006	371	11,997	7,801	20,169
1952-53	256	6,873	4,084	436	12,554	7,910	20,900

(a) Excludes Tasmania (see introductory note). (b) Average over whole year; includes Working Proprietors. (c) Excludes amounts drawn by Working Proprietors. (d) Includes also value of containers, packing, etc., replacements of tools and repairs to plant. (e) Value of Production equals (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 : CONFECTIONERY : STATES (a) 1952-53

Particulars	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	AUSTRALIA
Number of Factories	99	103	22	24	8	256
Number Employed (b) -						
Males ..	1,525	1,414	129	163	141	3,372
Females ..	1,413	1,522	192	187	187	3,501
Total ..	2,938	2,936	321	350	328	6,873
Value of -	£	£	£	£	£	£
Salaries and Wages Paid (c)	1,878,470	1,748,876	126,445	182,387	148,012	4,007,190
Power, Fuel and Light, etc. used ..	214,945	166,387	14,328	22,541	17,958	436,159
Materials, etc. used ..	6,231,536	5,042,129	458,651	425,550	396,014	12,553,880
Production (d) ..	4,211,860	2,976,792	204,859	254,500	261,562	7,909,573
Output ..	10,658,341	8,185,308	677,838	702,591	675,534	20,899,612
Land and Buildings ..	1,111,006	954,738	134,052	220,884	89,692	2,510,372
Plant and Machinery ..	1,352,500	1,236,736	82,905	110,284	89,640	2,872,065
	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
H.P. of Engines ordinarily in use ..	13,164	10,202	761	1,402	473	26,002

(a) Excludes Tasmania. (b) Average over whole year; includes Working Proprietors. (c) Excludes amounts drawn by Working Proprietors. (d) See note. (e) to Table 1.

2. **AVERAGE SALARIES, OUTPUT AND PRODUCTION:** Particulars of the average salary and wage paid, together with the average value of output and production per person engaged and the ratio of salaries and wages to the value of production, are shown in the following table for the years 1938-39, 1945-46 and 1950-51 to 1952-53.

TABLE 3 : CONFECTIONERY FACTORIES : AVERAGE SALARIES AND WAGES PAID OUTPUT, ETC. PER EMPLOYEE : AUSTRALIA (a)

Year	Salaries and Wages per Employee (b)	Value of Output per Person Engaged (c)	Value of Production per Person Engaged (c)	Ratio of Salaries and Wages to Value of Production
	£.	£.	£.	%.
1938-39	146	776	332	43.04
1945-46	239	1,362	556	41.93
1950-51	452	2,241	873	50.39
1951-52	561	2,740	1,060	51.35
1952-53	614	3,241	1,151	51.64

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

4.

3. MATERIALS USED AND ARTICLES PRODUCED: Particulars of the principal materials used and articles produced in Confectionery factories for the years 1951-52 and 1952-53 are shown in the following table. Some of the products of Confectionery factories are also produced in other works, and where this occurs, the total production from all Australian factories has been given. Details for the six Tasmanian factories are included in this and the following table.

TABLE 4 : PRINCIPAL MATERIALS USED AND ARTICLES PRODUCED IN CONFECTIONERY FACTORIES:
AUSTRALIA (a)

Particulars	Unit of Qty.	1951-52		1952-53	
		Quantity	Value (£)	Quantity	Value (£)
<u>MATERIALS USED:</u>					
Sugar ..	ton	46,247	2,457,250	45,210	3,051,429
Icing Sugar - Own Manufacture ..	"	4,988	(b)	4,645	(b)
Purchased ..	"	1,825	117,750	1,261	99,699
Flour (Ton 2,000 lb.)	"	1,624	39,570	2,100	54,644
Milk - Whole - Liquid	gal.	179,994	18,537	251,044	26,622
Condensed	cwt.	63,564	361,585	57,306	401,424
Powdered	"	24,582	214,037	26,717	309,756
Concentrated	lb.	6,963,600	222,280	6,188,471	259,962
Skim - Concentrated	cwt.	(c)	(c)	-	-
Powdered	"	16,927	107,841	6,092	32,472
Cream ..	gal.	2,429	2,746	3,629	4,533
Butter ..	cwt.	5,501	79,797	4,394	87,677
Glucose ..	"	204,181	906,710	201,777	989,547
Cocoa - Beans ..	lb.	19,111,641	2,852,601	16,411,514	2,365,091
Butter ..	"	3,636,138	1,204,436	3,933,228	1,251,152
Cake ..	"	12,276	3,571	12,753	3,458
Chocolate ..	"	3,180,912	487,348	3,312,973	559,918
<u>ARTICLES PRODUCED:</u>					
Confectionery - Chocolate -					
(1)Sold for further manufacturing Purposes	lb.	4,261,722	629,777	5,503,938	817,298
(2)Moulded in solid bars, with or without fruit, nuts, etc.	"	25,887,498	5,045,304	23,088,317	4,840,931
(3)Moulded in blocks or bars with soft or hard centres	"	10,136,051	1,651,855	9,400,040	1,885,834
(4)Other Chocolate Confectionery	"	25,252,505	4,848,739	(a)26,157,291	(d)5,267,642
Other Confectionery without Chocolate ..	"	(d)78,735,113	(d)8,851,607	(d)77,123,270	(d)9,499,939
Cocoa Powder & Drinking Chocolate ..	"	(d)5,447,926	(d) 619,272	(d)4,216,709	(d) 576,808
Icing Sugar Made - Consumed in own works	ton.	(d) 5,033	(b)	(d) 4,645	(b)
For Sale or addition to stocks ..	"	(d) 23,892	(d)1,627,091	(d)21,027	(d)1,671,665

- (a) Includes Tasmania
(b) Quantity only collected.
(c) Not available for publication
(d) Includes Production in other works.

In the following table comparative details are given of the total Australian factory production of some of the principal items of confectionery for the years 1938-39, 1945-46 and 1950-51 to 1953-54.

TABLE 5 : CONFECTIONERY : PRINCIPAL ITEMS OF PRODUCTION IN ALL FACTORIES :

AUSTRALIA (a)							
Year	Confectionery				Cocoa and		Iceing Sugar Made Quantity Tons
	With Chocolate Basis		Without Chocolate		Chocolate (Potable)		
	Quantity	Value	Quantity	Value	Quantity	Value	
	'000 lb.	£'000	'000 lb.	£'000	'000 lb.	£'000	
1938-39	43,515	2,771	58,147	2,868	3,063	94	9,431
1945-46	60,122	4,350	63,480	3,478	6,876	437	21,541
1950-51	(b) 69,122	(b) 10,819	73,429	6,959	4,520	391	28,310
1951-52	(b) 61,276	(b) 11,546	78,735	8,852	5,448	619	28,925
1952-53	(b) 58,646	(b) 11,994	77,123	9,500	4,217	577	25,672
1953-54 (c)	(b) 62,335	(d)	75,589	(d)	(d)	(d)	(d)

(a) Includes Tasmania. (b) Excludes that sold for further manufacturing purposes.
(c) Preliminary; subject to revision. (d) 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 : CONFECTIONERY FACTORIES CLASSIFIED ACCORDING TO PERSONS EMPLOYED :

AUSTRALIA (a)										
Number of Per- sons 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	27	58	39	79	66	138	68	134	80	156
4	12	48	15	60	18	72	26	104	26	104
5 to 10	35	250	50	331	65	441	60	417	63	460
11 to 20	31	454	42	589	42	623	38	554	30	441
21 to 50	22	713	31	1,013	32	1,086	31	973	32	977
51 to 100	9	642	11	750	12	849	13	879	13	877
101 to 200	12	5,122	4	553	8	1,082	6	713	4	476
201 to 300			2	500	7	3,528	5	1,230	5	1,197
301 to 500			2	772			3	2,380	3	2,203
501 and over			2	1,352			3			
TOTAL:	148	7,287	198	5,999	250	7,319	250	7,384	256	6,891
Average Number Employed per Factory	49		30		31		30		27	

(a) Excludes Tasmania

Further details of employment in the Confectionery Industry are furnished in the two tables following. 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 : CONFECTIONERY FACTORIES - PERSONS EMPLOYED CLASSIFIED ACCORDING TO OCCUPATIONAL STATUS : AUSTRALIA (a)

Occupational Status	Males			Females		
	1938-39	1951-52	1952-53	1938-39	1951-52	1952-53
Working Proprietors ..	115	180	189	12	35	30
Managerial & Clerical Staff, Incl. Salaried Managers and Working Directors ..	2,690	328	307	4,313	334	307
Chemists, Draftsmen and other Laboratory and Research Staff ..		43	39		5	4
Foreman and Overseers ..		207	206		77	89
Workers in Factory (Skilled and Unskilled) ..		2,786	2,619		3,348	3,067
Others (Carters, Messengers, etc.) ..	125	16	12	1	2	4
TOTAL:	2,930	3,560	3,372	4,326	3,801	3,501

(a) Excludes Tasmania.

6.

The numbers of persons employed on or about the 15th June for the years 1938, 1946 and 1951 to 1953 are distributed according to age and sex in Table 8.

TABLE 8 : CONFECTIONERY FACTORIES : DISTRIBUTION OF EMPLOYEES ACCORDING TO AGE AND SEX : AUSTRALIA (a)
(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
MALES									
1939	167	(b)	(b)	(b)	(b)	(b)	728	2,084	2,979
1946	65	96	58	54	32	41	281	2,621	2,967
1951(c)	38	42	43	45	55	57	242	3,326	3,606
1952(c)	61	47	53	45	57	41	243	3,078	3,382
1953(c)	46	66	58	69	55	52	300	2,975	3,321
FEMALES									
1939	693	(b)	(b)	(b)	(b)	(b)	2,020	1,918	4,631
1946	93	134	155	181	151	152	773	2,399	3,265
1951(c)	68	102	112	140	194	161	709	3,262	4,039
1952(c)	120	131	156	147	147	165	716	2,803	3,669
1953(c)	99	163	197	189	167	162	878	2,670	3,647

(a) Excludes Tasmania. (b) Details not collected. (c) 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 : CONFECTIONERY FACTORIES : TYPES AND RATED HORSE-POWER OF ENGINES:
AUSTRALIA (a)

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 ..	190	121	171	50	150	150
Turbine ..	2,200	1,250	1,250	-	-	-
Internal Combustion -						
Gas ..	120	-	-	-	-	-
Petrol or Other Light						
Oils ..	-	328	89	200	214	356
Heavy Oils ..	-	1,772	812	-	268	1,256
Water ..	-	-	-	-	-	-
Total, Prime Movers:	2,510	3,471	2,322	250	632	1,762
Motors driven by electricity -						
Purchased ..	13,644	23,416	23,680	849	1,899	776
Own Generation ..	-	(b)150	-	-	-	-
Total, Electricity:	13,644	23,566	23,680	849	1,899	776
TOTAL POWER USED:	16,154	26,887	26,002	1,099	2,531	2,538

(a) Excludes Tasmania. (b) 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. CONSUMPTION OF POWER, FUEL AND LIGHT: Details of the quantities and values of the various items of power, fuel and light used in Confectionery factories, are shown in the following table for the years 1938-39, 1951-52 and 1952-53.

TABLE 10 : CONFECTIONERY FACTORIES : POWER, FUEL AND LIGHT, ETC. USED : AUSTRALIA (a)

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	12,689	12,665	8,841	19,211	48,714	43,731
Brown ..	"	1,296	4,170	3,049	2,072	6,554	5,578
Brown Coal Briquettes ..	"	(b)	4	145	(b)	15	475
Coke ..	"	2,437	560	728	3,609	3,083	4,464
Wood ..	"	2,158	3,642	3,975	1,549	8,592	11,366
Fuel Oil ..	gallon	70,246	1,170,282	1,272,227	1,797	91,151	100,601
Tar (Fuel) ..	"	(c)	-	-	(d)	-	-
Electricity ..	-	(e)	(e)	(e)	59,237	161,738	209,806
Gas ..	-	(e)	(e)	(e)	9,677	24,515	29,373
Other(Charcoal, etc.) ..	-	(e)	(e)	(e)	1,024	7,513	10,994
Water and Lubricating Oil Used ..	-	(e)	(e)	(e)	8,693	19,059	19,771
TOTAL:	-	(e)	(e)	(e)	106,869	370,934	436,159

(a) Excludes Tasmania. (b) Included with Brown Coal. (c) Not available.
(d) Included with other (Charcoal, etc.). (e) Value only available.

7. VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY: Particulars of the book values of premises occupied and plant used in Confectionery factories at the 30th June for the years 1938-39, 1945-46 and 1950-51 to 1952-53 are shown in the next table. In addition, details of the values of additions and replacements made and depreciation allowed during the same periods are also shown.

It should be noted 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, affects comparison from year to year.

TABLE 11 : CONFECTIONERY FACTORIES : VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY

AUSTRALIA (a)
(£)

Year	Book Value as at 30th June (b)		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	1,423,406	1,363,619	15,847	79,224	4,472	66,956
1945-46	1,556,321	1,142,484	14,624	66,897	8,953	113,564
1950-51	2,318,691	2,421,154	245,394	635,102	13,681	259,929
1951-52	2,427,676	2,703,635	96,213	633,282	17,391	216,469
1952-53	2,510,372	2,872,065	57,130	485,826	17,121	234,879

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

8. EXTERNAL TRADE: The quantities and values of imports and exports of Confectionery 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 CONFECTIONERY : AUSTRALIA

Year	Imports		Exports	
	Quantity lb.	Value £.	Quantity lb.	Value £.
1938-39	1,371,027	69,641	(a) 1,248,003	(a) 102,332
1945-46	6,742	10,053	(a) 5,658,087	(a) 355,357
1950-51	1,192,134	184,260	11,577,460	716,430
1951-52	1,742,570	299,346	7,611,800	613,234
1952-53	204,079	43,024	7,861,114	581,776

(a) Includes Cake, Cakes and Puddings.

Note - Values in Australian currency, f.o.b. Port of Shipment.

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