

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

CANBERRA, AUSTRALIA

MANUFACTURING INDUSTRIES

1961-62

NO. 18 CONFECTIONERY

Prepared Under Instructions from

THE RIGHT HONORABLE THE TREASURER,

by

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EXPLANATORY NOTES

GENERAL: The range of bulletins in this series for 1961-62 is the same as for 1960-61, and a complete list is shown inside the back cover of this bulletin.

Where a number of industries are combined in one bulletin, the introductory paragraph on page 3 specifies the industries so included.

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. 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, generally, to the operations of factories classified to the industry specified. However, figures in the tables showing details of articles produced represent total recorded production of the articles listed, and include quantities produced, as subsidiary production, in industries otherwise classified.

BASIS OF THE STATISTICS. The scope of the factory statistics is fully explained in the annual Secondary Industries Bulletin.

Briefly, a "factory" is defined as an establishment in which four or more persons are employed or where power (other than manual) is used in any manufacturing process. The figures do not include details relating to small establishments not classified for statistical purposes as factories.

All persons employed in the manufacturing activities of the factory are counted as factory employees. The figures relating to employment, therefore, include working proprietors as well as "out-workers", but 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 value of materials used includes the value, in the usual sense, of the materials used, stores used, containers, tools replaced and materials used in repairs to plant. In general, it does not include the value of customers' articles or materials repaired, assembled or treated by the factory.

The value of power fuel etc. used includes the cost of light, lubricants and water used.

The value of output is the selling value at the factory (exclusive of all delivery costs and chargee and excise duties, but inclusive of bounty and subsidy payments to the manufacturer of the finished article) of all goods made during the year. 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, in addition to wages and salaries, such items as interest, depreciation, profits, taxation, advertising and other sundry charges are met. As details of these other costs of production are not collected, the amounts of profit resulting from factory operations cannot be ascertained from the figures contained herein.

MANUFACTURING INDUSTRIES, AUSTRALIA : 1961-62

CONFECTIONERY

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 1957-58 to 1961-62.

TABLE 1. - CONFECTIONERY : AUSTRALIA

Year	Factories	Persons Employed	Salaries and Wages Paid	Power, Fuel and Light etc. Used	Value of Materials etc. Used	Value of Production	Value of Output
	(1)	(2)	(3)	(4)	(5)	(6)	(7)
	Number	Number	£'000	£'000	£'000	£'000	£'000
1957-58(a)	217	6,789	4,982	529	16,052	9,771	26,352
1958-59(a)	209	6,704	5,038	537	16,841	10,586	27,964
1959-60(a)	214	6,765	5,493	555	17,674	11,139	29,368
1960-61(a)	209	6,890	5,666	592	17,883	12,391	30,866
1961-62	197	7,978	7,138	725	22,478	14,830	38,033

(a) Excludes Tasmania. (b) Average over whole year; includes Working Proprietors. (c) Excludes amounts drawn by Working Proprietors. (d) Includes water and lubricating oil. (e) Includes also value of containers, packing, etc., replacements of tools and repairs to plant. (f) Value of production equals column (7) less totals of columns (4) and (5). (g) Value of goods produced.

In the following table particulars are given for each State during the year 1961-62.

TABLE 2. - CONFECTIONERY : STATES 1961-62

Particulars	N.S.W.	Vic.	Q'ld.	S.A.	W.A.	Tam.	Aust.
	No.	No.	No.	No.	No.	No.	No.
Factories	78	76	17	16	6	4	197
Persons Employed -							
Males	1,412	1,413	59	130	113	703	3,830
Females	1,418	1,721	111	212	146	540	4,148
TOTAL:	2,830	3,134	170	342	259	1,243	7,978
Salaries and Wages Paid	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Value of -	2,583	2,742	100	525	196	1,292	7,138
Power, Fuel and Light, etc. used	279	280	9	26	20	111	725
Materials, etc. used	8,598	7,833	385	594	584	4,524	22,478
Production	6,860	4,573	202	411	365	2,419	14,830
Output	15,697	12,686	596	1,031	969	7,054	38,033
Land and Buildings (a)	3,339	2,541	127	363	98	1,166	7,634
Plant and Machinery (a)	2,458	2,852	65	165	94	2,001	7,635
H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
H.P. of Engines ordinarily in use	14,651	15,708	452	1,499	529	6,109	38,948

(a) Depreciated or book value at end of year.

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 1957-58 to 1961-62.

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

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
	£	£	£	%
1957-58(a)	752	3,882	1,439	50.98
1958-59(a)	769	4,171	1,579	47.59
1959-60(a)	831	4,341	1,647	49.31
1960-61(a)	839	4,480	1,798	45.73
1961-62	910	4,767	1,859	48.14

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

3. **MATERIALS USED AND ARTICLES PRODUCED:** Particulars of the principal materials used and articles produced in Confectionery factories for the years 1960-61 and 1961-62 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.

TABLE 4. - PRINCIPAL MATERIALS USED AND ARTICLES PRODUCED IN CONFECTIONERY FACTORIES

AUSTRALIA

Particulars	Unit of Qty.	1960-61		1961-62	
		Quantity	Value (£)	Quantity	Value (£)
MATERIALS USED:					
Sugar	ton	56,612	4,663,311	55,399	4,839,192
Icing Sugar -					
Own manufacture	"	10,575	(a)	11,057	(a)
Purchased	"	1,262	122,275	1,544	147,948
Flour (Ton 2,000 lb.)	"	2,889	111,681	2,683	104,564
Milk - whole - fresh	gal.	12,048	3,203	14,155	3,674
condensed/					
concentrated	owt.	121,127	699,992	136,700	753,808
powdered	"	37,940	471,760	32,183	389,059
skim - powdered	"	21,459	105,702	18,056	81,924
condensed/					
concentrated	"	1,634	8,617	496	2,243
liquid	gal.	21,056	2,269	(b)	(b)
Butter	owt.	7,889	198,210	4,716	120,540
Glucose	"	223,349	1,123,563	244,299	1,144,187
Cocoa-Beans	lb.	25,448,739	3,439,236	26,020,779	2,982,915
Butter	"	5,123,991	1,399,972	5,137,123	1,320,764
Cake	"	206,055	28,683	262,925	39,735
Powder	"	149,430	34,073	163,452	22,515
Chocolate	"	4,889,216	836,795	5,155,356	844,671
ARTICLES PRODUCED:					
Confectionery -					
Chocolate -					
(1) Sold for further manufacturing purposes	lb.	12,488,170	1,751,052	13,038,031	1,657,944
(2) Moulded in solid bars, with or without fruit, nuts, etc.	"	28,111,707	6,848,161	27,179,881	6,423,025
(3) Moulded in blocks or bars with soft or hard centres	"	7,925,517	1,874,318	7,500,648	1,743,149
(4) Confectionery bars, chocolate enrobed	"	12,113,510	2,496,688	12,955,020	2,575,831
(5) Chocolates (mixtures and straight lines) incl. bulk, standard and fancy packing	"	25,343,919	6,773,151	24,630,040	6,412,277
(6) Other chocolate confectionery	"	5,821,292	1,183,444	4,751,863	1,002,282
Total Chocolate Confectionery (Items (2) to (6))		79,316,341	19,175,762	77,047,482	18,361,564
Other confectionery without chocolate	"	94,673,958	13,095,495	(d)97,563,263	(d)13,618,002
Cocoa powder and drinking chocolate	"	8,599,698	1,153,527	8,425,209	1,026,146
(a) Quantity only collected. (b) Not available for publication. (c) Includes production in other works. (d) For 1961-62 the following dissection is available:-					
				lb.	£
Weight-out lines (e.g. Bulk Sugar Confection)				45,409,396	5,285,093
Packet lines (incl. Tins, Roll Packs and Fancy Packs)				25,953,404	4,254,515
Novelty lines (incl. Count Lines)				12,429,310	1,451,088
Other (incl. Chewing Gum)				13,771,153	2,627,306

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 1957-58 to 1961-62.

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

Year	Confectionery				Cocoa Powder and Drinking Chocolate	
	With Chocolate Basis (a)		Without Chocolate		Quantity	Value
	Quantity	Value	Quantity	Value		
	'000 lb.	£'000	'000 lb.	£'000	'000 lb.	£'000
1957-58	63,796	14,483	88,881	12,019	7,605	1,220
1958-59	66,305	15,992	92,457	12,488	8,506	1,384
1959-60	73,275	17,355	95,536	13,227	8,340	1,206
1960-61	79,316	19,176	94,674	13,095	8,600	1,154
1961-62	77,017	19,643	97,563	13,618	8,425	1,026

(a) Excludes that sold for further manufacturing purposes.

4. **EMPLOYMENT:** The number of employees shown in Tables 1, 2 and 7 has been adjusted to show 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 1957-58 to 1961-62.

TABLE 6. - CONFECTIONERY FACTORIES CLASSIFIED ACCORDING TO PERSONS EMPLOYED :

Number of Persons Employed in each Factory	AUSTRALIA									
	1957-58(a)		1958-59(a)		1959-60(a)		1960-61(a)		1961-62	
	No. of Factories	No. of Employees	No. of Factories	No. of Employees	No. of Factories	No. of Employees	No. of Factories	No. of Employees	No. of Factories	No. of Employees
Under 4	61	109	61	113	66	123	61	113	59	114
4	20	80	14	56	12	48	17	68	15	60
5 to 10	52	360	47	316	51	354	45	313	45	328
11 to 20	31	430	31	435	32	455	29	407	25	350
21 to 50	25	835	30	983	26	890	34	1,123	29	1,015
51 to 100	17	1,209	14	957	13	855	11	798	11	790
101 to 200	3	380	4	496	6	733	4	557	4	575
201 to 300	4	1,107	4	1,058	4	1,055	4	1,096	4	1,008
301 and over	4	2,308	4	2,336	4	2,345	4	2,489	5	3,764
TOTAL:	217	6,826	209	6,796	214	6,858	209	6,964	197	8,004
Average Number Employed per Factory	31		32		32		33		41	

(a) Excludes Tasmania.

Further details of employment are furnished in the two tables which follow. In Table 7, the numbers of males and females employed are shown for the years 1959-60 to 1961-62 according to the nature of their employment.

TABLE 7. - CONFECTIONERY FACTORIES - PERSONS EMPLOYED CLASSIFIED ACCORDING TO OCCUPATIONAL STATUS : AUSTRALIA (a)

Occupational Status	Males			Females		
	1959-60	1960-61	1961-62	1959-60	1960-61	1961-62
	(a)	(a)		(a)	(a)	
Working Proprietors	120	103	92	33	33	41
Managerial and Clerical Staff, including Salaried Managers and Working Directors	382	409	532	383	388	479
Chemists, Draftsmen and other Laboratory and Research Staff	41	42	78	12	11	30
Foremen and Overseers	198			93		
Workers in Factory (skilled and unskilled)	2,381	2,609(b)	3,128(b)	3,110	3,295(b)	3,598(b)
Other (Carters, Messengers, etc.)	11			1		
TOTAL:	3,133	3,163	3,830	3,632	3,727	4,148

(a) Excludes Tasmania.

(b) Separate details no longer collected.

In the following table the number of persons employed in June in the years 1958 to 1962 are shown according to age and sex distribution.

TABLE 8. - CONFECTIONERY FACTORIES: DISTRIBUTION OF EMPLOYED ACCORDING TO AGE AND SEX: AUSTRALIA
(Excluding Working Proprietors)

Last Pay-day in June	Under 16 Years	16 Years	17 Years	18 Years	19 Years	20 Years	Total 19 to 20 Years	21 Years and over	Total all Ages
MALES									
1958(a)	41	63	75	61	62	55	316	2,673	3,030
1959(a)	41	54	63	62	46	51	276	2,843	3,160
1960(a)	49	46	68	70	50	48	282	2,804	3,135
1961(a)	34	(b)	(b)	(b)	(b)	(b)	312	2,765	3,111
1962	43	(b)	(b)	(b)	(b)	(b)	357	3,387	3,787
FEMALES									
1958(a)	109	146	161	173	143	147	770	2,632	3,511
1959(a)	111	152	173	133	169	114	741	2,804	3,656
1960(a)	132	144	140	153	145	145	727	2,837	3,696
1961(a)	124	(b)	(b)	(b)	(b)	(b)	682	2,866	3,672
1962	158	(b)	(b)	(b)	(b)	(b)	848	3,246	4,252

(a) Excludes Tasmania.

(b) Separate details no longer collected.

5. **POWER EQUIPMENT:** Statistics of power equipment installed are given in the next table. The details include the rated horsepower of engines ordinarily in use, together with those in reserve or idle.

TABLE 9. - CONFECTIONERY FACTORIES: TYPES AND RATED HORSEPOWER OF ENGINES: AUSTRALIA

Class of Engine	Rated Horsepower of Engines					
	Ordinarily in use			In Reserve or Idle		
	1959-60 (a)	1960-61 (a)	1961-62	1959-60 (a)	1960-61 (a)	1961-62
Steam - Reciprocating	121	121	141	..	..	..
Turbine	650	650	666	1,500	1,500	1,500
Internal Combustion -						
Petrol or other light oils	2	67	2	2,143	1,893	1,780
Heavy oils	..	..	..	940	940	940
Total, Prime Movers:	773	838	809	4,583	4,333	4,220
Motors driven by electricity -						
Purchased	29,798	31,168	38,139	2,229	2,603	3,546
Own Generation	..	..	..	..	..	..
Total Electricity:	29,798	31,168	38,139	2,229	2,603	3,546
TOTAL POWER EMPLOYED:	30,571	32,006	38,948	6,812	6,936	7,766

(a) Excludes Tasmania.

6. CONSUMPTION OF POWER, FUEL AND LIGHT: Details of the quantities and values of the various items of power, fuel and light used, are shown in the following table for the years 1959-60 to 1961-2.

TABLE 10. - CONFECTIONERY FACTORIES: POWER, FUEL AND LIGHT, WFO. USED:
AUSTRALIA

Particulars	Unit of Qty.	Quantity			Value (£)		
		1959-60 (a)	1960-61 (a)	1961-62	1959-60 (a)	1960-61 (a)	1961-62
Power, Fuel and Light -							
Coal - Black	ton	9,999	9,755	15,148	54,315	54,855	77,536
Brown	"	7,289	6,152	2,575	18,216	16,797	5,740
Brown Coal Briquettes	"	7	228	2,623	51	1,215	14,316
Coke	"	37	40	32	301	308	255
Wood	"	838	1,989	2,423	2,128	5,221	6,107
Fuel Oil	gal.	1,263,293	1,397,639	1,739,741	96,012	95,241	107,914
Electricity	(b)	(b)	(b)	(b)	323,609	352,216	434,799
Gas	(b)	(b)	(b)	(b)	30,207	31,331	34,571
Other (Charcoal, etc.)	(b)	(b)	(b)	(b)	344	920	1,707
Water and Lubricating Oil used	(b)	(b)	(b)	(b)	29,687	33,303	42,425
TOTAL:		(b)	(b)	(b)	554,870	591,407	725,370

(a) Excludes Tasmania.

(b) Value only available.

7. VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY: Particulars of the book value of premises occupied and plant installed at the 30th June for the years 1958 to 1962 are shown in the next table. In addition, details of the values of additions and replacements made and depreciation allowed during the year 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 numbers, as well as other factors, affect comparison from year to year.

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

Year	Book Value as at 30th June (b)		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
1957-58 (a)	4,350,800	3,890,643	185,669	597,828	10,205	373,045
1958-59 (a)	4,811,985	4,571,999	776,649	1,219,382	29,262	425,446
1959-60 (a)	5,308,741	4,744,662	430,514	798,167	23,052	408,525
1960-61 (a)	5,590,079	5,427,588	285,093	998,441	26,801	458,329
1961-62	7,634,289	7,634,542	376,563	1,219,376	78,931	715,921

(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 1957-58 to 1961-62.

TABLE 12. - IMPORTS AND EXPORTS OF CONFECTIONERY : AUSTRALIA

Year	Imports		Exports	
	Quantity	Value	Quantity	Value
	lb.	£A	lb.	£A
1957-58	633,723	139,300	1,316,277	290,565
1958-59	838,564	164,468	1,234,457	261,463
1959-60	1,251,757	255,106	1,168,230	265,517
1960-61	2,910,375	465,241	1,503,660	314,822
1961-62	2,310,679	380,561	1,553,599	330,626

NOTE: Values are expressed in £A f.o.b. Port of Shipment.

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NOTE: Inquiries concerning these statistics may be made in Canberra by telephoning 70413 Extension 301 or, in each State Capital, by telephoning the office of the Bureau of Census and Statistics.