



Commonwealth Bureau of Census and Statistics,

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OFFICIAL STATISTICS, COMMONWEALTH OF AUSTRALIA.

MANUFACTURING INDUSTRIES, 1938-39.

NO. 21 CONFECTIONERY

PREPARED UNDER INSTRUCTIONS FROM
THE HONORABLE THE TREASURER.

BY

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P R E F A C E

1. Industries included in the Series: A complete list of the industries for which summaries in this series are being issued is given on the back of the cover page. They will be published as the material becomes available, and not necessarily in the order shown in the list. The following summaries have already been published: Nos. 1-17, 19, 27 and 29.
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 Confectionery, the industry with which this summary is concerned. It should be noted, however, that the particulars given in this summary are exclusive of three factories operating in Tasmania. In Table 4, however, the details given refer to Australia as a whole and are inclusive of these factories.
3. Basis of the Statistics: The scope of the factory statistics is fully explained in Part I 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 do include, however, proprietors who work in their own business and "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.

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Canberra, A.C.T.

24th May, 1940.

CONFECTIONERY.

The following table furnishes a summary of the principal statistics of the factories engaged in the manufacture of Confectionery.

1. CONFECTIONERY : AUSTRALIA, 1930-31 TO 1938-39.

Year	Number of Factories	Persons Employed (a)	Salaries and Wages Paid (b)	Power Fuel and Light Used	Value of Other Materials Used	Value of Production	Value of Output
	No.	No.	£'000	£'000	£'000	£'000	£'000
1930-31(c)	141	5,746	820	92	2,357	1,769	4,218
1931-32(c)	143	5,779	766	88	2,067	1,696	3,851
1932-33(c)	150	5,914	763	87	2,213	1,658	3,958
1933-34(c)	144	6,179	800	88	2,297	1,766	4,151
1934-35(c)	156	6,587	824	89	2,488	1,888	4,465
1935-36(c)	146	5,869	890	91	2,708	2,048	4,847
1936-37(c)	148	7,143	950	94	2,884	2,081	5,059
1937-38(c)	145	7,329	1,013	105	2,984	2,192	5,281
1938-39(c)	148	7,256	1,041	107	3,102	2,418	5,627

(a) Including Working Proprietors. (b) Exclusive of amounts drawn by Working Proprietors. (c) Exclusive of Tasmania.

In the following table particulars of the Industry are given for each State during the year 1938-39.

2. CONFECTIONERY : STATES, 1938-39.

Particulars	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	AUSTRALIA (d)
	No.	No.	No.	No.	No.	No.	No.
Number of Factories	59	57	11	15	6	(c)	148
Number Employed (a) -							
Males ..	1,390	1,163	148	139	90	(c)	2,930
Females ..	2,023	1,673	247	202	181	(c)	4,326
Total ..	3,413	2,836	395	341	271	(c)	7,256
Value of -	£.	£.	£.	£.	£.	£.	£.
Salaries and Wages Paid (b) ..	500,902	422,593	42,422	30,687	34,380	(c)	1,040,984
Fuel used ..	52,053	41,328	3,497	5,586	4,395	(c)	106,869
Materials used	1,614,957	1,190,781	109,835	98,514	87,868	(c)	3,101,955
Production ..	1,367,740	825,727	80,366	43,745	80,845	(c)	2,418,423
Output ..	3,054,750	2,057,846	193,693	147,845	173,108	(c)	5,627,247
Land and Buildings	753,221	468,734	72,753	72,830	55,228	(c)	1,423,406
Plant and Machinery	758,698	413,226	27,560	45,050	59,085	(c)	1,363,619
H.P. of Engines Ordinarily in use	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
	8,095	6,668	488	557	346	(c)	16,154

(a) Includes Working Proprietors. (b) Exclusive of amounts drawn by Working Proprietors. (c) Not available for publication. (d) Exclusive of Tasmania.

Particulars of the average salary and wage paid together with the average values per employee of output and production are shown in the following table for each of the years indicated.

/s. AVERAGE

3. AVERAGE SALARIES AND WAGES PAID, OUTPUT ETC. PER EMPLOYEE :
AUSTRALIA (c), 1930-31 TO 1938-39.

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
	£.	£.	£.	%
1930-31	146	734	308	46.35
1931-32	136	666	293	45.18
1932-33	132	669	280	46.03
1933-34	133	672	286	45.28
1934-35	128	678	287	43.64
1935-36	132	706	298	43.44
1936-37	135	708	291	45.64
1937-38	141	721	305	46.23
1938-39	146	776	333	43.04

(a) Excludes Working Proprietors and amounts drawn by them. (b) Including Working Proprietors. (c) Exclusive of Tasmania.

Particulars of the materials used and articles produced in Confectionery factories for the years 1937-38 and 1938-39 are shown in the following table. The figures are exclusive of similar materials used and articles produced in establishments not classified as confectionery factories, but the details for the three confectionery factories in Tasmania have been incorporated in the table.

4. CONFECTIONERY : AUSTRALIA, 1937-38 AND 1938-39.

Particulars	Unit of Quantity	1937-38		1938-39		
		Quantity	Value	Quantity	Value	
			£.		£.	
<u>Materials used:</u>						
Sugar ..	..	Ton	24,186	790,945	25,378	828,609
Icing Sugar ..	..	"	1,125	32,166	1,047	38,024
Flour ..	..	"	1,311	13,619	1,829	16,027
Milk - Fresh ..	..	Gals.	746,538	28,175	612,232	24,072
Condensed ..	..	cwt.	22,296	57,165	21,188	55,078
Powdered ..	..	"	22,955	72,549	27,249	65,823
Cream ..	..	Gals.	2,340	1,113	2,540	1,152
Glucose ..	..	cwt.	156,239	288,046	148,253	271,324
Cocoa - Beans ..	..	lb.	14,146,754	300,194	14,462,673	252,208
Butter ..	..	"	4,140,183	258,964	3,411,684	191,391
Cake ..	..	"	253,499	5,053	87,909	1,781
Chocolate ..	..	"	1,491,436	69,418	1,639,096	74,191
Essences ..	..	"	42,348	17,980	44,572	20,029
Essential Oils ..	..	"	50,908	31,110	56,769	32,687
Gelatine ..	..	"	647,616	49,286	633,785	48,949
Vanilla ..	..	"	(a) 2,413	3,569	17,717	4,826
Other Flavourings ..	..	"	-	13,046	-	14,668
<u>Articles produced:</u>						
Confectionery - With Chocolate Basis	..	lb.	35,379,212	2,165,274	43,597,365	2,775,549
Other (Without Chocolate) ..	..	"	63,999,028	3,132,028	57,744,151	2,853,143
Cocoa and Chocolate (Potable)	..	"	3,233,740	79,309	3,025,536	93,786
Icing Sugar ..	..	"	6,062,340	96,360	8,765,980	138,900
Candied Peel and Fruits ..	..	"	574,344	26,041	416,823	19,587

(a) Gallons.

The number of employees in Table 2 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.

5. FACTORIES CLASSIFIED ACCORDING TO HANDS EMPLOYED :
AUSTRALIA (a), 1930-31 TO 1937-38.

Number of Persons Employed in each Factory	1930-31		1934-35		1935-36		1936-37		1937-38(b)	
	Number of Fac-tories	Number Em-ployed	Number of Fac-tories	Number Em-ployed	Number of Fac-tories	Number Em-ployed	Number of Fac-tories	Number Em-ployed	Number of Fac-tories	Number Em-ployed
Under 4	30	58	27	51	25	49	24	46	28	61
4	9	36	13	52	13	52	17	68	10	40
5 to 10	42	303	48	347	37	267	32	230	33	231
11 to 20	27	398	27	381	32	441	36	516	33	482
21 to 50	15	498	22	682	19	626	20	710	18	566
51 to 100	9	649	6	343	8	543	7	500	10	654
Over 100	9	3,823	13	4,759	12	4,911	12	5,062	13	5,295
TOTAL:	141	5,765	156	6,615	146	6,889	148	7,132	145	7,329
Average number employed per Factory	41		42		47		48		51	

(a) Exclusive of Tasmania. (b) 1938-39 not yet available.

Further details of employment in the Confectionery Industry are furnished in the next three tables. In the first the employees have been classified according to the nature of their employment.

6. PERSONS EMPLOYED CLASSIFIED ACCORDING TO GRADE OF OCCUPATION :
AUSTRALIA (a), 1930-31 TO 1938-39.

Grade of Occupation	1930-31	1935-36	1936-37	1937-38	1938-39
	No.	No.	No.	No.	No.
Working Proprietors ..	148	140	131	137	127
Managers and Overseers ..	150	142	157	160	158
Clerical Staff ..	346	402	391	436	443
Engine Drivers and Firemen	50	45	47	43	45
Workers, Skilled and Unskilled	5,005	6,021	6,303	6,398	6,356
Other (Carters and Messengers)	47	119	114	155	127
TOTAL:	5,746	6,869	7,143	7,329	7,256

(a) Exclusive of Tasmania.

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 1937-38 and 1938-39.

7. PERSONS EMPLOYED ON PAY-DAY NEAREST TO THE 15TH OF EACH MONTH :
AUSTRALIA (a), 1937-38 AND 1938-39.
(Working Proprietors Excluded).

Month	1937-38			1938-39		
	Males	Females	Total	Males	Females	Total
	No.	No.	No.	No.	No.	No.
July ..	2,963	4,437	7,400	2,917	4,540	7,457
August ..	2,949	4,459	7,408	2,922	4,611	7,533
September ..	2,993	4,396	7,389	2,857	4,573	7,430
October ..	2,907	4,295	7,202	2,774	4,395	7,169
November ..	2,911	4,291	7,202	2,721	4,261	6,982
December ..	2,842	4,159	7,001	2,644	3,991	6,635
January ..	2,695	3,672	6,367	2,552	3,521	6,073
February ..	2,740	3,887	6,627	2,633	3,963	6,596
March ..	2,775	4,078	6,853	2,675	4,037	6,712
April ..	2,836	4,268	7,104	2,787	4,246	7,033
May ..	2,971	4,694	7,665	2,992	4,711	7,703
June ..	3,056	4,770	7,826	2,979	4,631	7,610
AVERAGE:	2,886	4,284	7,170	2,788	4,290	7,078

(a) Exclusive of Tasmania.

A classification of the number of employees according to age on or about the 15th June, 1939 is shown in the next table:-

8. PERSONS EMPLOYED CLASSIFIED ACCORDING TO AGE : JUNE, 1939.
(EXCLUDING TASMANIA).

Sex	Under 16 years	16 and under 21 years	Adults	Total
	No.	No.	No.	No.
Males ..	167	728	2,084	2,979
Per Cent of Total ..	6%	24%	70%	100%
Females ..	693	2,020	1,918	4,631
Per Cent of Total ..	15%	44%	41%	100%
Persons ..	860	2,748	4,002	7,610
Per Cent of Total ..	11%	36%	53%	100%

Statistics of the power equipment of the factories included in this group are given in the next table. The details given include the rated horsepower of engines ordinarily in use, together with those in reserve or idle, for the years 1937-38 and 1938-39.

9. POWER EMPLOYED TO DRIVE MACHINERY : AUSTRALIA (a).

Class of Engine	Rated H.P. of Engines			
	Ordinarily in Use		In Reserve or Idle	
	1937-38	1938-39	1937-38	1938-39
Steam - Reciprocating ..	240	190	-	50
Turbine ..	1,250	2,200	-	-
Internal Combustion -				
Gas ..	120	120	-	-
Petrol or Other Light Oils ..	-	-	-	200
Heavy Oils ..	-	-	-	-
Water ..	-	-	-	-
Total Prime Movers ..	1,616	2,510	-	250
Motors driven by electricity -				
Purchased ..	15,135	13,644	1,631	849
Own Generation ..	-	-	-	-
Total Electricity ..	15,135	13,644	1,631	849
TOTAL POWER USED (b)	16,751	16,154	1,631	1,099

(a) Exclusive of Tasmania. (b) Without Duplication.

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:-

10. POWER, FUEL AND LIGHT, ETC. USED : AUSTRALIA(a), 1938-1939.

Particulars	Unit of Quantity	Quantity	Value £.
Coal - Black ..	Ton	12,689	19,211
Brown ..	"	1,296	2,072
Coke ..	"	2,437	3,609
Wood ..	"	2,158	1,549
Fuel Oil ..	Gallon	70,246	1,797
Electricity ..	-	(b)	59,237
Gas ..	-	(b)	9,677
Other (Charcoal, etc.) ..	-	(b)	1,024
Water used ..	-	(b)	7,526
Lubricating Oil ..	-	(b)	1,167
TOTAL:		Value only	106,869

(a) Exclusive of Tasmania. (b) Value only available.

Particulars of the book values of premises occupied and plant used in Confectionery Factories at the 30th June for each of the five years ended 1939 are shown in the next table. In addition, details of the values of additions and replacements made and depreciation allowed during the year 1938-39 are also shown.

It should be noted, that the amounts expended in Additions and Replacements refer to expenditure incurred by existing factories and do not include the cost of erecting and equipping new factories; these latter items, however, are included with the book values shown at 30th June. The amounts shown for Depreciation are those returned by factories. Changes in the number of factories operating and other factors affect comparison from year to year.

11. VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY : AUSTRALIA (a)
1938-39.

Particulars	Land and Buildings	Plant and Machinery
	£.	£.
Additions and Replacements made during year (b)	15,847	79,224
Depreciation allowed during year (b) ..	4,472	66,956
Book Value (b) as at 30th June -		
1939	1,423,406	1,362,619
1938	1,407,266	1,362,800
1937	1,351,690	1,358,148
1936	1,321,762	1,309,259
1935	1,312,968	1,330,929

(a) Exclusive of Tasmania. (b) See Note above.

The quantities and values of imports and exports of Confectionery are given in the following table:-

12. IMPORTS AND EXPORTS OF CONFECTIONERY : AUSTRALIA, 1913 TO 1938-39.

Year	IMPORTS		EXPORTS	
	Quantity	Value	Quantity	Value
	lb.	£s.	lb.	£s.
1913	8,701,965	448,619	441,917	20,000
1920-21	440,566	75,127	2,135,242	165,386
1928-29	1,794,277	137,524	950,034	90,142
1929-30	2,345,264	156,820	625,615	61,971
1930-31	117,007	10,699	636,246	59,122
1931-32	108,204	10,130	530,199	48,342
1932-33	368,666	31,586	519,440	45,893
1933-34	222,407	14,898	558,562	51,190
1934-35	535,748	27,434	554,436	54,362
1935-36	701,938	39,828	637,843	59,904
1936-37	752,080	34,781	686,396	72,414
1937-38	997,251	49,422	969,519	94,745
1938-39	1,371,027	76,513	1,248,003	102,332

The following table shows the weekly minimum rates of wage and hours of labour in operation at 30th June, 1939, as prescribed by State Industrial Tribunals. Where no rate is shown it indicates that the particular occupation is not specifically provided for.

/13. CONFECTIONERY

13. CONFECTIONERY - STATE AWARDS.

Minimum Weekly Rates of Wage and Hours of Labour as at 30th
June, 1939.

Occupation	New South Wales		Victoria		Queens- land		South Australia		Western Australia		Tasmania	
	Hrs	Week- ly Wage	Hrs	Week- ly Wage	Hrs	Week- ly Wage	Hrs	Week- ly Wage	Hrs	Week- ly Wage	Hrs	Week- ly Wage
Journeyman ..	44	108/-	44	92/6	44	88/6	48	88/6	..	..	..	..
Persons employed as operators on icing sugar mill, cocoa, liquor mill, cocoa powder grinding or disintegrating ma- chines	44	99/-	44	81/6	44	81/-	48	83/-	..	..	..	..
Adult males, N.E.I.	44	87/-	44	78/6	..	..	48	76/-	..	..	..	..
Storemen and Packers	..	..	44	83/6 to 90/6	44	85/-	48	78/- and 83/-	..	..	..	..
Females doing jour- neyman's work ..	44	107/-	44	92/6	44	88/6	48	88/6	..	..	..	..
Adult females N.E.I.	44	47/-	44	47/-	44	43/-	48	38/6	..	..	..	..
Females hand or fork dipping chocolate goods	44	47/-	44	45/6	44	43/-	48	38/6	..	..	..	..
Juvenile Males -												
Under 16 years ..	44	22/8	44	18/-	..	..	48	17/6	..	..	..	..
16 " ..	44	26/9	44	23/3	..	..	48	20/-	..	..	..	..
17 " ..	44	30/11	44	31/-	..	..	48	24/9	..	..	..	..
18 " ..	44	35/4	44	45/6	..	..	48	29/-	..	..	..	..
19 " ..	44	43/-	44	56/9	..	..	48	34/6	..	..	..	..
20 " ..	44	52/7	44	62/-	..	..	48	48/3	..	..	..	..
Juvenile Females -												
Under 16 years ..	44	23/8	44	18/7	..	..	48	16/6	..	..	..	..
16 " ..	44	27/2	44	18/7	..	..	48	17/-	..	..	..	..
17 " ..	44	31/3	44	23/4	..	..	48	20/-	..	..	..	..
18 " ..	44	35/11	44	28/9	..	..	48	21/6	..	..	..	..
19 " ..	44	41/8	44	34/5	..	..	48	26/-	..	..	..	..
20 " ..	44	44/1	44	39/4	..	..	48	27/6	..	..	..	..