

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS, CANBERRA

AUSTRALIA

MANUFACTURING INDUSTRIES

1957-58

No. 6. SOAP AND CANDLES

Prepared Under Instructions from
THE RIGHT HONORABLE THE TREASURER,

by

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P R E F A C E

1. GENERAL: The range of Bulletins in the series for 1957-58 is the same as for 1956-57 and a complete list is shown on the back of the 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.

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. 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. Figures shown in the quantity tables herein represent total recorded production of the articles listed and include quantities produced, as subsidiary production, in industries otherwise classified.

3. 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. It should be noted that details relating to small establishments not classified for statistical purposes as factories are not included in the figures shown herein.

All persons employed in the manufacturing activities of the factory are counted as factory employees. The figures relating to employment, therefore, include proprietors who work in their own businesses 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 output is the selling value, at the factory, (exclusive of all delivery costs and charges 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 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, 1957-58SOAP AND CANDLES

1. SUMMARY OF STATISTICS: The following table furnishes a summary of the principal statistics of the factories engaged in the manufacture of Soap and Candles for the years 1938-39, 1945-46 and 1955-56 to 1957-58.

TABLE 1 : SOAP AND CANDLE FACTORIES : AUSTRALIA

Year	Factories (1)	Persons Employed (a)(2)	Salaries and Wages Paid (b)(3)	Power, Fuel and Light etc. used (c)(4)	Value of Materials, etc. used (d)(5)	Value of Production (e)(6)	Value of Output (f)(7)
	Number	Number	£'000	£'000	£'000	£'000	£'000
1938-39	65	2,620	501	76	1,568	1,885	3,529
1945-46	73	3,020	860	123	3,051	2,628	5,802
1955-56	92	3,167	2,858	406	12,057	8,147	20,610
1956-57	87	2,932	2,704	393	12,437	9,150	21,980
1957-58	90	2,983	2,830	441	14,446	10,525	25,412

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

(b) Excludes amounts drawn by Working Proprietors.

(c) Includes Water and Lubricating Oil.

(d) Includes also containers, packing, etc., replacements of tools and repairs to plant.

(e) Value of Production equals column (7) less total of columns (4) and (5).

(f) Value of goods produced.

In the following table, particulars of the industry are given for each State during the year 1957-58.

TABLE 2 : SOAP AND CANDLE FACTORIES : STATES, 1957-58

Particulars	N.S.W.	VIC.	Q'LD.	S.A.	W.A.	TAS.	AUSTRALIA
	No.	No.	No.	No.	No.	No.	No.
Factories	45	25	9	6	3	2	90
Persons Employed -							
Males	1,231	612	182	68	(a)	(a)	2,163
Females	560	150	74	15	(a)	(a)	820
TOTAL:	1,791	762	256	83	(a)	(a)	2,983
	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Salaries and Wages Paid	1,668	822	202	66	(a)	(a)	2,830
Value of -							
Power, Fuel and Light etc., used	197	205	22	10	(a)	(a)	441
Materials, etc. used	7,776	5,330	784	214	(a)	(a)	14,446
Production	6,997	2,908	445	77	(a)	(a)	10,525
Output	14,970	8,443	1,251	301	(a)	(a)	25,412
Land and Buildings (b)	745	822	157	78	(a)	(a)	1,871
Plant and Machinery (b)	1,160	1,489	190	58	(a)	(a)	2,973
	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
H.P. of Engines ordinarily in use	5,568	3,806	981	602	(a)	(a)	11,296

(a) Not available for publication; included with total for Australia.

(b) Depreciated or book values at end of year.

See also notes to Table 1 above.

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 1955-56 to 1957-58.

TABLE 3 : SOAP AND CANDLE 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	193	1,347	720	26.58
1945-46	289	1,921	870	32.74
1955-56	916	6,508	2,572	35.08
1956-57	934	7,497	3,121	29.56
1957-58	962	8,519	3,528	26.88

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

(b) Includes Working Proprietors.

3. MATERIALS USED AND ARTICLES PRODUCED: The two tables which follow show particulars of the total quantity and value of the principal materials used and articles produced during the year 1957-58. In some cases, the figures include relevant production in factories otherwise classified. Preliminary details of production in 1958-59 are shown in Table No. 5.

TABLE 4 : MATERIALS USED IN SOAP AND CANDLE FACTORIES
AUSTRALIA, 1957-58

Particulars			Quantity	Value
			Cwt.	£
Tallow	..	..	1,219,538	5,024,088
Alkali -				
Soda Ash - For making Soap	..	..	186,863	315,957
-- For Soda Crystals	..	..	17,168	32,191
-- For Other Purposes	..	..	6,560	17,907
Other - For making Soap	..	..	210,369	630,831
Waxes	..	..	3,766	38,668
Oil - Eucalyptus	..	..	2,573	54,466
Coconut - Refined	..	..	27,388	226,106
Unrefined	..	..	67,564	418,678
Glycerine	-- Crude	..	(a)	(a)
	Refined	..	(a)	(a)
Stearine (Stearic Acid)	..	..	3,310	23,402
Oleine (Oleic Acid)	..	..	12,756	102,427
Salt (Common)	..	..	70,457	53,982

(a) Not available for publication.

TABLE 5 : PRINCIPAL ARTICLES PRODUCED IN SOAP AND CANDLE FACTORIES

AUSTRALIA, 1957-58 AND 1958-59

Particulars	1957-58		1958-59 (a)
	Quantity	Value	Quantity
	Cwt.	£	Cwt.
<u>Soap and Detergents:</u>			
(A) <u>Soap i.e., with Active Constituents of Soap or Mixtures of Soap and Alkali</u>			
<u>Personal Toilet -</u>			
Solid (incl. Abrasive) ..	355,326	4,301,941	369,503
Liquid or Powdered (not Shampoo)	4,118	26,662	13,959
Shampoo - Powdered, Liquid or Paste	6,253	107,473	8,923
Shaving - Solid and Paste ..	6,983	384,773	6,413
<u>Total Personal Toilet Soap:</u>	372,680	4,820,849	398,798
<u>Household -</u>			
Solid (Bar) ..	522,737	2,930,390	461,860
Flakes and Chips ..	60,788	710,902	59,504
Soft (Potash Types) ..	7,757	28,440	8,069
Liquid - Disinfectant Type ..	100,990	432,852	101,170
Non-disinfectant Type ..	73,858	290,659	59,577
<u>Total Household Soap:</u>	766,130	4,393,243	690,180
<u>Industrial -</u>			
Flakes and Chips ..	27,746	150,511	28,066
Soft (Potash Types) ..	12,420	54,664	11,913
Other - Solid and Paste (b) ..	98,304	319,391	83,547
Liquid (Disinfectant Type)	9,781	54,953	9,516
Liquid (Non-disinfectant Type)	24,735	99,000	22,829
<u>Total Industrial Soap:</u>	172,986	678,519	155,871
<u>Total Personal, Household and Industrial Soap:</u>	1,311,796	9,892,411	1,244,849
<u>Soap Extracts and Powders -</u>			
Household ..	787,961	5,292,660	710,780
Industrial ..	87,998	360,615	91,471
<u>Abrasive Cleansers and/or Scourers -</u>			
Household - Solid (including Sand Soap)	22,508	103,990	15,226
Paste ..	34,125	108,672	30,852
Powder ..	11,674	72,047	11,030
Industrial - Solid, Paste and Powder	4,079	16,319	5,812
<u>Total Abrasive Cleansers and/or Scourers:</u>	72,586	301,028	62,920
(B) <u>All other, including all Synthetic Detergents, Wetting Agents and Mixtures of Soap and Synthetic Detergents</u>			
Personal Toilet (including Shampoo)	9,101	652,448	8,452
Household - All Types ..	146,647	966,694	164,005
Industrial - Liquid (Disinfectant Type)	1,468	8,738	1,431
Liquid (Non-disinfectant Type) ..	28,792	218,034	40,388
Solid and Paste ..	5,537	43,062	4,267
Extracts and Powders - Household	183,218	2,243,219	274,239
Industrial	48,846	356,908	50,643
Abrasive Cleansers and/or Scourers -			
Household	97,710	795,547	102,611
Industrial	29,417	251,190	33,367
<u>Total "Detergents":</u>	550,934	5,535,840	679,403
<u>Other Articles -</u>			
Candles ..	7,444	100,725	(c)
Soda Crystals ..	42,260	62,613	(c)
Glycerine - Crude ..	130,031	(a)	130,305
Refined ..	95,465	(a)	93,302
Stearine (Stearic Acid) ..	68,890	482,933	(c)
Oleine (Oleic Acid) ..	69,442	499,308	(c)

(a) Preliminary, subject to revision. (b) Includes Soap produced by Woolscouring establishments, for own use. (c) Not yet available. (d) Quantity only available.

In the following table, particulars of the quantities of the principal materials used and relevant articles produced are shown for the years 1938-39, 1945-46 and 1955-56 to 1957-58.

TABLE 6 : PRINCIPAL MATERIALS USED AND ARTICLES PRODUCED IN SOAP AND CANDLE FACTORIES :

AUSTRALIA

(Cwt.)

Particulars	1938-39	1945-46	1955-56	1956-57	1957-58
<u>MATERIALS USED:</u>					
Tallow ..	535,511	834,057	1,162,578	1,152,865	1,219,538
Alkali -					
Soda Ash - for Soap		124,080	215,304	190,646	186,863
for Soda					
Crystals	230,481	18,980	18,115	17,138	17,168
for Other					
Purposes		(a)	12,217	12,840	6,560
Other - for Soap		155,572	175,453	176,150	210,369
Waxes ..	7,061	838	2,400	2,253	3,766
Oil - Eucalyptus	210	415	2,427	2,682	2,573
Coconut - Refined	22,307	20,250	22,144	22,938	27,388
Unrefined	116,647	66,326	61,201	57,457	67,564
Glycerine - Crude		32,199	(a)	(a)	(a)
Refined	7,707	3,088	(a)	(a)	(a)
Stearine (Stearic Acid)	5,796	5,855	2,866	4,141	3,310
Oleine (Oleic Acid)	3,306	3,899	11,949	12,005	12,756
Salt (Common)	32,567	45,087	86,504	72,470	70,457
<u>ARTICLES PRODUCED (b):</u>					
Soap and Detergents					
<u>Soap (c)</u>					
Personal Toilet	132,225	246,673	327,949	320,846	372,680
Household ..	735,127	622,009	744,109	716,199	766,130
Industrial (d)	(e) 41,445	(f) 140,263	188,590	193,066	172,986
Extracts and Powders -					
Household			822,988	791,267	787,961
Industrial	191,232	469,865	87,455	75,694	87,998
Cleansers and/or					
Scourers - Abrasive					
Household (incl. Sand)			90,303	69,495	68,507
Industrial	123,702	118,886	14,743	8,673	4,079
All Other (g)					
Personal Toilet			6,000	8,763	9,101
Household All Types			92,635	114,510	146,847
Industrial	(h)	(h)	22,499	40,217	35,797
Extracts and Powders			72,715	123,647	232,064
Cleansers and/or					
Scourers			72,230	101,184	127,127
Candles ..	28,649	23,844	10,011	10,354	7,444
Soda Crystals ..	117,575	76,782	45,216	45,394	42,260
Glycerine, Crude	19,058	48,129	122,734	119,961	130,031
Glycerine, Refined	44,365	58,099	93,084	94,608	95,465
Stearine (Stearic Acid)			69,827	63,337	68,890
Oleine (Oleic Acid)	(h)	(h)	61,283	65,170	69,442

(a) Not available for publication.

(b) Comparable figures for 1958-59 where available are shown on page 5.

(c) With active constituents of Soap only or mixtures of Soap and Alkali.

(d) Includes Soap produced for own use by Woolscouring establishments.

(e) Includes Soft not separately described.

(f) Includes Liquid, Soft and Flakes and Chips not separately described.

(g) Including all Synthetic detergents, Wetting agents and mixtures of Soap and Synthetic detergents.

(h) Not available.

4. **EMPLOYMENT:** The number of persons employed, shown in Tables 1, 2 and 8, 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.

TABLE 7 : SOAP AND CANDLE FACTORIES CLASSIFIED ACCORDING TO PERSONS EMPLOYED

AUSTRALIA

Number of Persons Employed in each Factory	1938-39		1945-46		1955-56		1956-57		1957-58	
	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	17	41	20	47	36	70	31	66	29	57
4	8	32	10	40	14	56	13	52	11	44
5 to 10	15	106	18	120	15	110	15	105	25	179
11 to 20	7	112	6	81	10	124	12	154	7	103
21 to 50	7	219	9	231	7	219	7	227	10	296
51 to 100	5	304	2	147	5	377	4	301	4	328
101 to 200	6	1,808	5	658	5	2,216	5	2,031	4	1,977
201 to 400			-	-						
401 and over			3	1,714						
TOTAL:	65	2,622	73	3,038	92	3,172	87	2,936	90	2,984
Average Number Employed per Factory	40		42		34		34		33	

Further details of employment are furnished in the two following tables. In Table 8, the numbers of males and females employed are shown for the years 1938-39, 1956-57 and 1957-58 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 the later years shown is not possible.

TABLE 8 : SOAP AND CANDLE FACTORIES

PERSONS EMPLOYED CLASSIFIED ACCORDING TO OCCUPATIONAL STATUS

AUSTRALIA

Occupational Status	Males			Females		
	1938-39	1956-57	1957-58	1938-39	1956-57	1957-58
Working Proprietors	28	35	36	-	2	6
Managerial and Clerical Staff, incl. Salaried Managers and Working Directors	1,652	340	340	853	272	280
Chemists, Draftsmen and Other Laboratory and Research Staff		103	128		13	12
Foremen and Overseers		116	128		18	14
Workers in Factory (Skilled and Unskilled)		1,467	1,451		494	508
Other (incl. Carters and Messengers)	81	72	80	6	-	-
TOTAL:	1,761	2,133	2,163	859	799	820

In the following table, the numbers of persons employed in June for the years 1939, 1946 and 1956 to 1958 are shown according to age and sex distribution.

TABLE 9 : SOAP AND CANDLE 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
MALES									
1939 (a)	62	(b)	(b)	(b)	(b)	(b)	404	1,251	1,717
1946 (a)	24	33	33	26	23	31	146	1,952	2,122
1956 (c)	10	20	24	37	24	26	131	2,165	2,306
1957 (c)	7	15	27	34	23	25	124	1,898	2,029
1958 (c)	12	8	25	30	31	36	134	1,962	2,104

FEMALES

1939 (a)	57	(b)	(b)	(b)	(b)	(b)	390	375	822
1946 (a)	30	38	49	47	57	48	230	730	999
1956 (c)	14	12	13	25	26	27	103	742	859
1957 (c)	10	15	15	12	17	21	80	666	756
1958 (c)	16	19	27	20	15	21	102	672	790

(a) Payday nearest 15th June.

(b) Details not collected.

(c) Last payday in June.

5. **POWER EQUIPMENT:** Statistics of the power equipment of the factories included in this class 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.

TABLE 10 : SOAP AND CANDLE FACTORIES : TYPES AND RATED HORSEPOWER OF ENGINES

AUSTRALIA

Class of Engine	Rated Horsepower of Engines					
	Ordinarily in Use			In Reserve or Idle		
	1938-39	1956-57	1957-58	1938-39	1956-57	1957-58
Steam - Reciprocating ..	1,641	254	111	198	275	260
Turbine ..	35	-	-	4	-	-
Internal Combustion ..	-	-	-	-	-	-
Gas ..	-	-	-	-	-	-
Petrol or Other Light Oils ..	16	3	-	20	356	56
Heavy Oils ..	-	150	150	-	-	-
Water ..	-	-	-	-	-	-
Total, Prime Movers:	1,692	407	261	222	631	316
Motors driven by Electricity -						
Purchased ..	3,575	10,515	11,035	89	1,855	1,858
Own Generation ..	(a) 1,165	-	-	169	20	-
Total Electricity:	4,740	10,515	11,035	258	1,875	1,858
TOTAL POWER EMPLOYED:	5,267	10,922	11,296	480	2,506	2,174

(a) These motors are driven by electricity generated by prime movers, and to avoid duplication are excluded from statistics of total power employed.

6. POWER, FUEL AND LIGHT, ETC., USED: Details of the quantities and values of the various items of power, fuel and light, etc., used are shown in the following table for the years 1938-39, 1956-57 and 1957-58.

TABLE 11 : SOAP AND CANDLE FACTORIES : POWER, FUEL AND LIGHT, ETC. USED

Particulars	Unit of Qty.	Quantity			Value		
		1938-39	1956-57	1957-58	1938-39	1956-57	1957-58
Power, Fuel and Light -							
Coal - Black ..	ton	31,490	18,757	18,697	41,097	96,278	93,369
Brown ..	"	2,913	40,617	40,624	3,585	104,013	106,769
Brown Coal Briquettes	"	(a)	4	26	(a)	24	171
Coke	"	2,994	2,287	1,706	2,106	4,004	3,898
Wood	"	2,983	1,831	871	2,404	4,597	2,317
Fuel Oil ..	gal.	14,148	397,721	556,921	348	31,964	46,086
Tar (Fuel) ..	"	(b)	-	-	(c)	-	-
Electricity ..	-	(d)	(d)	(d)	16,681	115,478	148,032
Gas	-	(d)	(d)	(d)	317	2,400	2,676
Other (Charcoal, etc.)	-	(d)	(d)	(d)	-	1,957	1,696
Water and Lubricating Oil used	-	(d)	(d)	(d)	9,745	32,610	35,626
<u>TOTAL:</u>		(d)	(d)	(d)	76,283	393,325	440,640

(a) Included with Brown Coal.

(b) Not available.

(c) Included with other (Charcoal, etc.).

(d) Value only available.

7. VALUE OF LAND, BUILDINGS, PLANT AND MACHINERY: Particulars of the book values of premises occupied and plant installed for factory purposes at the 30th June, for the years 1938-39, 1945-46 and 1955-56 to 1957-58 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 12 : SOAP AND CANDLE FACTORIES : VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY, ETC. : AUSTRALIA

(£)

Year	Book Values as at 30th June (a)		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
1938-39	665,546	576,732	27,116	71,402	10,063	51,868
1945-46	676,405	372,940	6,417	35,369	10,061	45,260
1955-56	1,742,704	3,001,022	194,809	594,309	59,087	277,688
1956-57	1,784,303	3,149,734	86,177	434,399	55,319	278,907
1957-58	1,870,968	2,972,928	94,724	350,117	56,381	349,050

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

8. EXTERNAL TRADE: The following table furnishes particulars of the Imports and Exports of Soap for the years 1938-39, 1945-46 and 1955-56 to 1957-58.

TABLE 13 : IMPORTS AND EXPORTS OF SOAP :

AUSTRALIA

Year	Shaving Soap and Shaving Cream	Toilet, Fancy or Medicated		Soap, Other		Soap Substitutes and Compounded Detergents	
	£A.	Cwt.	£A.	Cwt.	£A.	Cwt.	£A.
<u>IMPORTS</u>							
1938-39	(a)	1,462	17,621	3,513	8,593	6,365	30,312
1945-46	26	143	4,482	1,347	7,419	1,158	5,648
1955-56	11,254	2,083	56,476	363	3,690	11,088	606,552
1956-57	942	1,475	38,905	174	1,800	50,029	405,135
1957-58	1,501	2,473	65,967	353	3,663	60,715	533,959

EXPORTS

1938-39	(a)	1,864	8,877	42,691	65,847	(b)	(b)
1945-46	26,780	30,933	151,154	132,615	328,497	12,640	35,140
1955-56	1,322	6,517	66,116	26,935	135,690	3,532	28,960
1956-57	796	5,516	60,306	32,637	168,081	3,706	29,366
1957-58	2,238	11,246	146,631	46,792	264,140	4,088	36,412

(a) Not recorded separately.

(b) Included in Soap, Other.

NOTE:- Values are expressed in £A. f.o.b. port of shipment.

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COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

CANBERRA, A.C.T. 7TH SEPTEMBER, 1959