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**MANUFACTURING INDUSTRIES
1966-67**



No. 22

AERATED WATERS AND CORDIALS



**COMMONWEALTH BUREAU OF CENSUS AND STATISTICS
CANBERRA, AUSTRALIA**

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CANBERRA, AUSTRALIA

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EXPLANATORY NOTES

GENERAL. The range of bulletins in this series for 1966-67 is the same as for 1965-66. A complete list of the series is shown inside the back cover. Where a number of industries are combined in one bulletin, the introductory paragraph on page 4 specifies the industries so included.

For years prior to 1964-65 only statistics of the number of factories, persons employed, salaries and wages, value of fuel, materials, production and output, etc., exclude details for the Northern Territory and Australian Capital Territory. Statistics of materials used and articles produced however, exclude the Northern Territory and Australian Capital Territory for all years.

CLASSIFICATION OF FACTORIES. For purposes of industry classification, factories are classified to sub-classes according to the nature of their products. Where two or more distinct types of industrial activity are carried out 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, in general, to the operations of factories classified to the industry specified. However, the statistics of articles produced represent total recorded production in all factories, irrespective of industry classification.

BASIS OF THE STATISTICS. The scope of the factory statistics is fully explained in the annual bulletin Manufacturing Industry, which contains comprehensive statistics both for all factory sub-classes separately and in total.

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.

Factory employment relates only to persons employed in the manufacturing activities of the factory. 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, etc., 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, light, etc., used includes the cost of lubricants and water.

The value of factory output is the value of the goods manufactured or their value after passing through the particular process of manufacture and includes the amount received for repair work, work done on commission and receipts for other factory work. The basis of valuation of the output is the selling value of the goods 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.

The value of production is the value added to 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 amount of profit resulting from factory operations cannot be ascertained from figures contained herein.

There are many miscellaneous expenses, such as maintenance of buildings, etc., depreciation, workers' compensation insurance, other insurances, pay-roll tax, income tax, advertising, interest on borrowed money, bad debts and many other sundry charges, which are not taken into account. Consequently it must not be inferred that, when wages and salaries are deducted from value of production, the whole of the surplus is available for profits.

ROUNDING OF FIGURES. Any discrepancies between totals and sums of components in tables are due to rounding.

This bulletin refers, in general, to factories which are classified to sub-class 0921 (Aerated waters, cordials, etc.) of the Factory Classification (1945).

TABLE 1. - AERATED WATERS AND CORDIALS ETC. FACTORIES : SUMMARY

AUSTRALIA

Year	Factories	Persons employed (a)	Salaries and wages paid (b)	Power, fuel light, etc. used (c)	Value of materials etc. used (d)	Value of production (e)	Value of output (f)
	Number	Number	\$'000	\$'000	\$'000	\$'000	\$'000
1962-63	525	5,190	9,054	879	28,058	26,691	55,629
1963-64	509	5,193	9,434	936	30,985	27,473	59,395
1964-65	503	5,303	10,415	1,020	35,693	31,758	68,471
1965-66	495	5,717	11,940	1,062	41,257	33,305	75,624
1966-67	492	5,982	13,365	1,161	45,898	37,646	84,705

(a) Average over whole year; includes working proprietors. (b) Excludes amounts drawn by working proprietors. (c) Includes water and lubricating oil. (d) Includes also value of containers, packing, etc., replacements of tools and repairs to plant.

(e) Value added in process of manufacture (i.e. value of output less value of materials and fuel used). (f) Value, at the factory, of goods produced.

TABLE 2. - AERATED WATERS AND CORDIALS ETC. FACTORIES : SUMMARY

STATES, 1966-67

Particulars	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.
	Number								
Factories	166	88	135	44	40	12	5	2	492
Persons employed (a) -									
Males	1,715	938	755	604	303	189	(h)	(h)	4,556
Females	504	381	214	151	126	29	(h)	(h)	1,426
Total	2,219	1,319	969	755	429	218	(h)	(h)	5,982
	\$'000								
Salaries and wages paid (b)	5,376	2,859	1,777	1,733	962	503	(h)	(h)	13,365
Value of -									
Power, fuel, light etc. used (c)	449	253	173	138	85	50	(h)	(h)	1,161
Materials, etc. used (d)	16,791	10,205	5,114	6,912	4,910	1,621	(h)	(h)	45,898
Production (e)	15,430	8,330	5,691	4,386	2,317	1,170	(h)	(h)	37,646
Output (f)	32,670	18,787	10,978	11,437	7,312	2,842	(h)	(h)	84,705
Land and buildings (g)	8,966	5,488	2,557	2,796	1,265	532	(h)	(h)	21,927
Plant and machinery (g)	5,143	3,858	2,555	2,141	1,374	408	(h)	(h)	15,685
	Horsepower								
Rated hp of engines ordinarily in use	8,250	3,761	3,893	3,128	2,011	538	(h)	(h)	21,821

For footnotes (a) to (f) see Table 1. (g) Depreciated or book values at end of year.
(h) Not available for publication.

TABLE 3. - AERATED WATERS AND CORDIALS ETC. FACTORIES
AVERAGE SALARIES AND WAGES PAID PER EMPLOYEE, OUTPUT AND PRODUCTION PER PERSON

EMPLOYED : AUSTRALIA

Year	Salaries and wages per employee (a)	Value of output per person employed (b)	Value of production per person employed (b)	Ratio of salaries and wages to value of production
	\$	\$	\$	%
1962-63	1,907	10,718	5,143	33.92
1963-64	1,969	11,437	5,290	34.34
1964-65	2,128	12,912	5,989	32.79
1965-66	2,252	13,228	5,826	35.85
1966-67	2,396	14,160	6,293	35.50

(a) Excludes working proprietors and amounts drawn by them. (b) Includes working proprietors.

TABLE 4. - AERATED WATERS AND CORDIALS ETC., FACTORIES

PERSONS EMPLOYED (a) AUSTRALIA

Number employed in each factory	1962-63		1963-64		1964-65		1965-66		1966-67	
	No. of fac-tories	No. employed	No. of fac-tories	No. employed	No. of fac-tories	No. employed	No. of fac-tories	No. employed	No. of fac-tories	No. employed
Under 4	203	421	192	397	184	386	176	375	173	370
4	55	220	56	224	53	213	48	192	57	228
5 to 10	154	1,044	152	1,025	151	1,024	151	1,020	136	915
11 " 20	64	909	60	860	65	975	62	912	67	1,006
21 " 50	30	886	30	907	30	911	37	1,136	39	1,262
51 " 100	12	812	13	905	15	1,034	12	839	11	803
101 and over	7	932	6	886	5	780	9	1,268	9	1,447
<u>TOTAL</u>	525	5,224	509	5,204	503	5,323	495	5,742	492	6,031
Average number employed per factory	10		10		11		12		12	

(a) Average number employed during the period of operation whether for the whole or only part of the year. Includes working proprietors.

TABLE 5. - AERATED WATERS AND CORDIALS ETC., FACTORIES
PERSONS EMPLOYED (a) BY OCCUPATIONAL STATUS AND SEX
AUSTRALIA

Occupational status	Males			Females		
	1964-65	1965-66	1966-67	1964-65	1965-66	1966-67
Working proprietors	346	327	316	62	89	88
Managerial and clerical staff, including salaried managers and working directors	532	591	643	488	551	572
Chemists, draughtsmen and other laboratory and research staff	31	43	49	12	15	22
Workers in factory (skilled and unskilled), foremen and overseers, carters (excluding delivery only), messengers and persons working regularly at home	3,197	3,398	3,548	635	703	744
<u>TOTAL</u>	4,106	4,359	4,556	1,197	1,358	1,426

(a) Average number employed calculated on a "whole year" basis, i.e. in factories operating for less than the full year, the average number of persons employed during the period of operation is reduced to a whole year equivalent.

TABLE 6. - AERATED WATERS AND CORDIALS ETC. FACTORIES
EMPLOYEES BY AGE AND SEX, AUSTRALIA

Last pay day in June-	20 years and under		21 years and over		Total all ages		
	Males	Females	Males	Females	Males	Females	Persons
1963	553	197	2,682	662	3,235	859	4,094
1964	574	237	2,758	701	3,332	938	4,270
1965	545	215	2,813	860	3,358	1,075	4,433
1966	569	246	3,091	892	3,660	1,138	4,798
1967	543	239	3,250	945	3,793	1,184	4,977

TABLE 7. - AERATED WATERS AND CORDIALS ETC. FACTORIES
CLASS OF ENGINE AND RATED HORSEPOWER, AUSTRALIA

Class of engine	Rated horsepower of engines					
	Ordinarily in use			In reserve or idle		
	1964-65	1965-66	1966-67	1964-65	1965-66	1966-67
Steam - Reciprocating	15	15	16	..	..	..
Turbine	..	1	..	..	..	..
Internal combustion -						
Petrol and other light oils	229	214	226	89	120	109
Heavy oils	15			40		
<u>Total hp prime movers</u>	259	230	242	129	120	109
Motors driven by electricity -						
Purchased	18,454	19,960	21,579	2,027	2,206	2,096
<u>Total hp electric motors</u>	18,454	19,960	21,579	2,027	2,206	2,096
<u>TOTAL POWER EMPLOYED</u>	18,713	20,190	21,821	2,156	2,414	2,205

TABLE 8. - AERATED WATERS AND CORDIALS ETC. FACTORIES
POWER, FUEL, LIGHT, ETC., USED, AUSTRALIA

Particulars	Unit of quantity	Quantity			Value (\$'000)		
		1964-65	1965-66	1966-67	1964-65	1965-66	1966-67
Power, fuel and light -							
Coal - Black	ton	538	462	349	6	6	4
Brown coal briquettes	"	58	36	57	1	1	1
Coke	"	178	127	68	3	2	1
Wood	"	3,852	2,938	2,654	17	14	12
Fuel oil	'000 gal	1,656	1,627	1,805	234	236	255
Electricity	-				468	517	564
Gas - Town	-				11	8	7
Other (charcoal, etc.)	-	(a)	(a)	(a)	6	7	8
Water and lubricating oil	-				274	273	309
<u>TOTAL</u>	-	(a)	(a)	(a)	1,020	1,062	1,161

(a) Value only available.

TABLE 9. - AERATED WATERS AND CORDIALS ETC. FACTORIES
VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY ETC.,

AUSTRALIA
(\$'000)

Year	Book values as at 30 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
1962-63	17,251	11,991	1,397	1,866	66	1,291
1963-64	19,027	12,688	1,378	2,290	79	1,349
1964-65	19,770	13,031	1,014	2,013	96	1,459
1965-66	20,473	14,152	1,214	2,529	117	1,730
1966-67	21,927	15,665	1,811	4,250	171	1,983

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

TABLE 10. SELECTED MATERIALS USED IN AERATED WATERS AND CORDIALS ETC. FACTORIES (SUB-CLASS 0921) : AUSTRALIA (a)

Materials used	Commodity code No.	Unit of qty	Sub-class 0921 Aerated waters, cordials, etc.			
			1965-66		1966-67	
			Quantity	Value (\$'000)	Quantity	Value (\$'000)
Fruit, fresh or frozen	071.01	'000 cwt	656	1,579	907	2,086
Fruit pulp, puree and juice -						
Single strength	074.21	"	108	1,302	118	1,329
Concentrated	074.51	"	55	1,934	71	2,323
Sugar	102.15, 18, 24, 29, 34, 41	'000 70 lb bags	1,786	9,967	1,857	10,467
Liquid sugar	102.16, 19, 22, 25, 30, 35, 42	ton				
			4,586	800	5,124	900

(a) Excludes Northern Territory and Australian Capital Territory. (b) Not available for publication.

TABLE 11. - SELECTED ARTICLES PRODUCED IN ALL FACTORIES : AUSTRALIA (a)

(NOTE. These details relate to production in all factories irrespective of classification).

Item	Commodity code No.	1965-66		1966-67	
		Quantity '000 gallons	Value \$'000	Quantity '000 gallons	Value \$'000
Fruit juice, natural - single strength -					
Apple	074.61	374	368	889	905
Citrus	074.65	2,021	2,238	2,768	3,272
Grape	074.67	115	161	79	132
Pineapple	074.69	4,306	3,292	(b)	(b)
Blackcurrant	074.63	3,830	3,067	27	62
Other	074.75			(b)	(b)
Total fruit juices, single strength		10,727	9,126	13,674	11,984
Fruit juice, natural - Concentrated -					
Citrus	074.76	227	749	540	1,894
Grape must	074.82	86	(c)	97	(c)
Other, n.e.i.	074.89	588	1,840	599	1,962
Aerated and carbonated waters (all types) incl. soda water and brewed beers (non-intoxicating) -					
Canned	171.03	7,865	6,475	11,176	9,523
Bottled	171.05	97,516	56,728	101,761	60,441
Cordial and syrups - Fruit juice (d)	171.06	7,518	10,208	7,576	10,662
Other	171.10	1,626	2,469	1,584	2,471
Cordial extract, concentrated (excl. essences)	171.14	375	1,539	317	1,021
Ice	281.04	199	2,302	190	2,451

(a) Excludes Northern Territory and Australian Capital Territory.

(b) Not available for publication.

(c) Quantity only available.

(d) Containing at least 25% by volume of pure fruit juices.

TABLE 12. - PRODUCTION OF AERATED WATERS AND CORDIALS ETC. IN ALL FACTORIES AUSTRALIA (a)

(NOTE. These details relate to production in all factories irrespective of classification.)

('000 gallons)

Year	Aerated or carbonated waters	Cordials and syrups	Natural fruit juices (single strength)
1962-63	87,365	6,258	7,305
1963-64	93,304	6,888	8,088
1964-65	99,062	7,295	10,106
1965-66	105,382	9,144	10,727
1966-67	112,936	9,159	13,674

(a) Excludes Northern Territory and Australian Capital Territory.

Overseas trade statistics in Tables 13 and 14 show specified items according to the Australian Export and Import Commodity Classifications which were operative from 1 July 1966 and 1 July 1965 respectively.

For more detailed statistics reference may be made to "Overseas Trade Bulletins".

TABLE 13. - EXPORTS OF SPECIFIED ITEMS : AUSTRALIA, 1966-67

Commodity classification ref. no.	Description	Unit of quantity	Quantity	Value (\$A'000) (a)
053.50.01,09	Citrus fruit juices - Orange	'000 gals	50	125
053.50.11,19	Other	"	52	65
053.50.21	Blackcurrant juice	"	46	191
053.50.31	Pineapple juice	"	82	70
053.50.41	Tomato juice	"	39	50
053.50.23,91	Other fruit juices	"	182	287
111.00.00	Non-alcoholic beverages, n.e.s. (except fruit and vegetable juices)	-	(b)	695

(a) Values are expressed in \$A'000 f.o.b. port of shipment. (b) Value only available.

TABLE 14. - IMPORTS OF SPECIFIED ITEMS : AUSTRALIA, 1966-67

Commodity classification ref. No.	Description	Unit of quantity	Quantity	Value (\$A'000) (a)
053.50.01	Lime juice	'000 gal	69	97
053.50.11	Passionfruit juice	"	33	129
053.50.29	Other (incl. syrups, concentrates and dry or near dry products)	-	(b)	191
111.01.00, 111.02.00	(Non-alcoholic beverages (incl. spa, aerated and flavoured waters)	-	(b)	52

(a) Values are expressed in \$A'000 f.o.b. port of shipment. (b) Value only available.

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11 DECEMBER 1968

NOTE. Inquiries concerning these statistics may be made in Canberra by telephoning 63 9111 extension 2267 or, in each State capital, by telephoning the office of the Bureau of Census and Statistics.