

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS, CANBERRA
AUSTRALIA

MANUFACTURING INDUSTRIES
1958-59

NO. 22. AERATED WATERS AND CORDIALS

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 1958-59 is the same as for 1957-58 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.

S. R. CARVER
COMMONWEALTH STATISTICIAN

MANUFACTURING INDUSTRIES, AUSTRALIA : 1958-59

AERATED WATERS AND CORDIALS

1. SUMMARY OF STATISTICS. The following table furnishes a summary for the years 1938-39, 1945-46 and 1956-57 to 1958-59 of the principal statistics of the factories engaged in manufacturing Aerated Waters and Cordials.

TABLE 1 : AERATED WATER AND CORDIAL FACTORIES : 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)	(a) (2)	(b) (3)	(c) (4)	(d) (5)	(e) (6)	(f) (7)
	Number	Number	£'000	£'000	£'000	£'000	£'000
1938-39	517	2,880	479	43	1,229	1,371	2,643
1945-46	502	4,456	1,088	77	3,578	2,915	6,570
1956-57	576	4,690	3,184	312	9,099	8,033	17,444
1957-58	562	4,954	3,557	351	10,503	9,365	20,219
1958-59	559	4,877	3,722	367	11,328	10,024	21,719

(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 are given for each State for the year 1958-59.

TABLE 2 : AERATED WATER AND CORDIAL FACTORIES : STATES, 1958-59.

Particulars	N.S.W.	VIC.	QLD.	S.A.	W.A.	TAS.	AUSTRALIA
	No.	No.	No.	No.	No.	No.	No.
Factories	190	102	164	47	42	14	559
Persons Employed -							
Males	1,523	830	735	540	(a)	(a)	3,985
Females	401	177	185	58	(a)	(a)	892
Total	1,924	1,007	920	598	(a)	(a)	4,877
	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Salaries and Wages Paid	1,550	848	513	490	(a)	(a)	3,722
Value of -							
Power, Fuel and Light etc. used	147	85	63	36	(a)	(a)	367
Materials, etc. used	4,603	3,012	1,605	1,075	(a)	(a)	11,328
Production	4,243	2,511	1,485	1,039	(a)	(a)	10,024
Output	8,993	5,608	3,153	2,150	(a)	(a)	21,719
Land and Buildings (b)	2,571	1,310	597	454	(a)	(a)	5,359
Plant and Machinery (b)	1,497	961	557	452	(a)	(a)	3,874
	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
H.P. of Engines ordinarily in use	6,160	3,336	2,070	1,832	(a)	(a)	14,988

(a) Not available for publication.

(b) Depreciated or book value 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 1956-57 to 1958-59.

TABLE 3 : AERATED WATER ETC. 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	195	918	476	34.95
1945-46	271	1,474	654	37.32
1956-57	766	3,719	1,713	39.53
1957-58	805	4,081	1,890	37.98
1958-59	854	4,453	2,055	37.13

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

(b) Includes Working Proprietors.

2. MATERIALS USED AND ARTICLES PRODUCED: The two tables which follow show particulars of the quantity and value of the principal materials used and articles produced in aerated water and cordial factories during the years 1957-58 and 1958-59. In some cases the figures include relevant materials used and articles produced in factories not classified to the aerated water and cordial industry.

TABLE 4 : PRINCIPAL MATERIALS USED IN AERATED WATER AND CORDIAL FACTORIES : AUSTRALIA, 1957-58 AND 1958-59

Commodity	Unit of Quantity	1957-58		1958-59	
		Quantity	Value (£)	Quantity	Value (£)
Sugar	ton	42,302	3,453,103	43,882	3,576,909
Fresh or Frozen Fruit	cwt.	219,110	439,704	256,251	411,865
Fruit Pulp (purchased)	"	59,138	454,566	(a)94,599	(a)609,223

(a) Includes purchased Pures and Juice.

TABLE 5 : PRINCIPAL ARTICLES PRODUCED IN AERATED WATER AND CORDIAL FACTORIES : AUSTRALIA, 1957-58 AND 1958-59

Articles	1957-58		1958-59	
	Quantity	Value (£)	Quantity	Value (£)
Aerated or Carbonated Waters (including Syphons and Ginger Beer, Hop Beer, etc.)	Gallons	(£)	Gallons	(£)
	69,164,582	15,354,100	69,285,018	17,035,976
Fruit Juices, Natural -				
Apple	148,403	42,312	85,422	34,286
Citrus	1,037,491	586,240	940,812	564,364
Grape	63,075	44,640	45,660	31,993
Pineapple	2,351,083	709,861	3,932,507	1,205,120
Other	70,423	73,992	68,692	131,910
Total Fruit Juices, Natural	3,670,475	1,457,045	5,073,093	1,967,673
Tomato Juice	1,407,645	671,116	1,468,223	668,102
Cordials and Syrups -				
Pure Fruit Juice based (a) ..	3,086,732	2,293,372	3,245,485	2,339,015
Flavoured and/or Imitation..	1,506,182	1,051,937	1,315,529	906,719
Total Cordials and Syrups	4,592,914	3,345,309	4,561,014	3,245,734
Concentrated Cordials and Extract	269,224	583,752	354,298	774,436
Ice (Total produced in all works)	462,569	1,586,163	381,641	1,429,976

(a) Containing at least 25% by volume of pure fruit juice.

For purposes of comparison, the following table sets out particulars of the total production of Aerated or Carbonated Waters, Cordials and Syrups, and Natural Fruit Juices, for the years 1938-39, 1945-46 and 1956-57 to 1958-59.

TABLE 6 : TOTAL PRODUCTION OF SPECIFIED ITEMS, AUSTRALIA
(Gallons)

Year	Aerated or Carbonated Waters	Cordials and Syrups	Natural Fruit Juices
1938-39	23,701,038	998,616	348,591
1945-46	34,990,652	4,870,648	2,169,968
1956-57	61,241,901	4,623,265	3,298,409
1957-58	69,164,582	4,592,914	3,670,475
1958-59	69,285,018	4,561,014	5,073,093

4. **EMPLOYMENT:** The number of employees 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 : AERATED WATER ETC. FACTORIES : FACTORIES CLASSIFIED ACCORDING TO PERSONS EMPLOYED, AUSTRALIA

Number of Persons Employed in each Factory	1938-39		1945-46		1956-57		1957-58		1958-59	
	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	313	602	223	473	243	489	228	478	232	485
4	44	176	50	200	61	244	59	236	62	248
5 to 10	104	658	143	1,004	174	1,168	167	1,119	157	1,070
11 to 20	32	431	43	614	54	773	60	858	59	836
21 to 30	11	326	29	866	30	909	33	999	35	1,066
31 to 100	7	446	8	568	11	733	12	850	10	689
101 and over	2	255	6	838	3	408	3	438	4	521
Total:	517	2,920	502	4,563	576	4,724	562	4,978	559	4,916
Average Number Employed per Factory	6		9		8		9		9	

Further details of employment are furnished in the two tables which follow. In table 8 the numbers of Males and Females employed are shown for the years 1938-39, 1957-58 and 1958-59 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 8 : AERATED WATER ETC. FACTORIES : PERSONS EMPLOYED CLASSIFIED ACCORDING TO OCCUPATIONAL STATUS : AUSTRALIA

Occupational Status	Males			Females		
	1938-39	1957-58	1958-59	1938-39	1957-58	1958-59
Working Proprietors ..	421	474	452	8	63	66
Managerial and Clerical Staff, including Salaried Managers, and Working Directors ..	) (	459	486	) (	354	375
Chemists, Draftsmen and Other Laboratory and Research Staff	) (	22	27	) (	4	3
	2,110			266		
Foremen and Overseers ..	) (	167	187	) (	5	7
Workers in Factory (Skilled and Unskilled) ..	) (	2,917	2,803	) (	453	439
Others (including Carters and Messengers) ..	55	36	30	-	-	2
TOTAL:	2,586	4,075	3,985	294	879	892

In the following table the number of persons employed in June in each of the years 1939, 1946 and 1957 to 1959, are shown according to age and sex distribution.

TABLE 9 : AERATED WATER ETC. FACTORIES : PERSONS EMPLOYED CLASSIFIED

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
<u>MALES</u>									
1939 (a)	65	(b)	(b)	(b)	(b)	(b)	407	1,241	1,713
1946 (a)	44	82	109	112	97	67	467	2,545	3,056
1957 (c)	41	66	81	92	62	72	373	2,553	2,967
1958 (c)	57	75	86	89	76	87	413	2,671	3,141
1959 (c)	53	73	88	86	72	86	405	2,603	3,061
<u>FEMALES</u>									
1939 (a)	14	(b)	(b)	(b)	(b)	(b)	94	159	267
1946 (a)	12	19	35	43	33	34	164	572	748
1957 (c)	5	21	16	29	27	19	112	516	633
1958 (c)	12	19	31	22	30	34	136	565	713
1959 (c)	8	28	34	24	29	34	149	573	730

(a) Pay day nearest 15th June.

(b) Details not collected.

(c) Last pay day in June.

5. POWER EQUIPMENT: Statistics of the 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 10 : AERATED WATER ETC. FACTORIES : TYPES AND RATED HORSEPOWER
OF ENGINES : AUSTRALIA

Class of Engine	Rated Horsepower of Engines					
	Ordinarily in Use			In Reserve or Idle		
	1938-39	1957-58	1958-59	1938-39	1957-58	1958-59
Steam - Reciprocating ..	343	33	17	88	-	5
Turbine ..	10	-	5	-	-	-
Internal Combustion -						
Gas ..	352	14	14	58	-	-
Petrol or Other Light Oils ..	309	321	364	44	283	552
Heavy Oils ..	436	156	60	43	218	64
Water ..	2	-	-	-	-	-
<u>Total, Prime Movers:</u>	1,452	524	460	233	501	621
Motors driven by electricity -						
Purchases ..	3,523	14,423	14,528	511	1,194	1,306
Own Generation ..	(a) 2	-	-	-	-	40
<u>Total Electricity:</u>	3,525	14,423	14,528	511	1,194	1,346
<u>TOTAL POWER EMPLOYED:</u>	4,975	14,947	14,988	744	1,695	1,967

(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 during the years 1938-39, 1957-58 and 1958-59 are shown in the following table.

TABLE 11 : AERATED WATER ETC. FACTORIES : POWER, FUEL AND LIGHT, ETC. USED

AUSTRALIA

Particulars	Unit of Quantity	Quantity			Value (£)		
		1938-39	1957-58	1958-59	1938-39	1957-58	1958-59
Power, Fuel and Light-							
Coal - Black ..	ton	2,687	1,446	1,810	3,701	7,634	9,204
Brown ..	"	331	418	342	461	1,253	1,234
Brown Coal Briquettes	"	(a)	334	96	(a)	2,033	647
Coke ..	"	688	609	370	1,126	3,958	2,900
Wood ..	"	4,315	5,382	5,142	3,050	13,070	13,313
Fuel Oil ..	gallon	59,133	878,406	955,836	3,736	81,293	84,437
Electricity ..	-	(b)	(b)	(b)	15,283	146,592	160,316
Gas ..	-	(b)	(b)	(b)	1,941	7,936	8,743
Other (Charcoal, etc.)	-	(b)	(b)	(b)	492	4,113	3,886
Water and Lubricating oil used ..	-	(b)	(b)	(b)	13,700	82,920	82,573
<u>TOTAL:</u>		(b)	(b)	(b)	43,490	350,802	367,253

(a) Included with Brown Coal.

(b) Value only available.

7. VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY: Particulars of the book values of premises occupied and plant installed as at 30th June, for the years 1939, 1946 and 1957 to 1959 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 : AERATED WATER ETC. FACTORIES : VALUE OF LAND AND BUILDINGS,

PLANT AND MACHINERY, AUSTRALIA

(£)

Year	Book Values as at 30th June (a)		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	911,102	497,509	22,590	71,379	6,738	39,142
1945-46	1,150,484	697,853	24,938	129,524	15,280	88,739
1956-57	4,398,100	3,619,160	387,032	606,800	13,413	315,331
1957-58	4,851,023	3,600,677	286,105	496,179	24,403	384,825
1958-59	5,359,206	3,874,289	698,392	841,585	26,723	410,220

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

8. EXTERNAL TRADE: The following table furnishes particulars of the overseas trade in some of the more important products of the Aerated Waters and Cordials, etc., Industry for the years 1938-39, 1945-46 and 1956-57 to 1958-59.

TABLE 13 : OVERSEA TRADE : AERATED WATERS, CORDIALS, ETC., AUSTRALIA

Particulars	Unit	1938-39	1945-46	1956-57	1957-58	1958-59
<u>IMPORTS</u>						
Fruit Juices and Syrups (non-spirituous) (a) ..	gallons	81,731	119,218	44,532	213,919	222,781
Non-alcoholic Beverages (incl. sparklets) ..	£A	10,566	1,778	22,170	36,541	36,110
Fruit Juices and Syrups (non-spirituous) ..	£A	20,241	17,728	41,514	142,844	150,834
<u>EXPORTS</u>						
Fruit Juices and Syrups (non-spirituous) -						
Citrus ..	gallons	) 105,968 (	216,321	46,807	46,076	47,920
Black Currant ..	"		62,944	10,523	26,796	29,650
Pineapple ..	"		170,137	783,328	822,698	990,956
Tomato ..	"		553,706	307,401	333,610	565,192
Other, n.e.i. ..	"		138,296	28,323	23,555	12,542
Aerated and Mineral Waters	£A	6,811	211,940	7,946	13,672	24,438
Fruit Juices and Syrups (non-spirituous) -						
Citrus ..	"	) 32,817 (	102,861	37,914	31,728	37,167
Black Currant ..	"		28,314	45,524	73,898	52,918
Pineapple ..	"		56,608	198,546	223,823	260,303
Tomato ..	"		137,291	113,394	123,186	198,751
Other, n.e.i. ..	"		58,380	23,858	20,020	21,440

(a) Includes Tomato Juice.

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

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