

MANUFACTURING INDUSTRIES

1963-64

NO. 22. AERATED WATERS AND CORDIALS

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS, CANBERRA
AUSTRALIA

EXPLANATORY NOTES

GENERAL. The range of bulletins in this series for 1963-64 is the same as for 1962-63. 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 3 specifies the industries so included.

CLASSIFICATION OF FACTORIES. For purposes of industry classification, factories are classified according to the nature of their products. 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. This is also true for figures for individual materials used but figures for individual 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, Part I - Factory and Building Operations.

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 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, 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, 1963-64

AERATED WATERS AND CORDIALS

1. SUMMARY OF STATISTICS. The following table furnishes a summary of the principal statistics of the factories engaged in the manufacture of aerated waters and cordials.

TABLE 1. - AERATED WATERS AND CORDIAL FACTORIES : AUSTRALIA

Year	Factories (1) Number	Persons Employed (a) (2) Number	Salaries and Wages Paid (b) (3) £'000	Power, Fuel and Light, etc. Used (c) (4) £'000	Value of Materials etc. Used (d) (5) £'000	Value of Pro- duction (e) (6) £'000	Value of Output (f) (7) £'000
1959-60	552	5,021	4,102	406	12,765	11,355	24,526
1960-61	548	5,275	4,458	410	13,400	11,658	25,468
1961-62	535	4,960	4,330	404	12,771	11,992	25,167
1962-63	525	5,190	4,527	439	14,029	13,346	27,814
1963-64	509	5,193	4,717	468	15,493	13,736	29,697

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

(f) Value, at the factory, of goods produced.

In the following table particulars of the industry are given for each State for the year 1963-64.

TABLE 2. - AERATED WATERS AND CORDIAL FACTORIES : STATES, 1963-64

Particulars *	N.S.W.	VIC.	QLD.	S.A.	W.A.	TAS.	AUST.
	No.	No.	No.	No.	No.	No.	No.
Factories	176	93	144	44	39	13	509
Persons Employed -							
Males	1,494	809	739	566	261	172	4,041
Females	444	264	215	130	74	25	1,152
<u>TOTAL</u>	1,938	1,073	954	696	335	197	5,193
	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Salaries and Wages Paid	1,848	1,030	732	625	279	203	4,717
Value of -							
Power, Fuel and Light etc. used	188	98	76	53	30	23	468
Materials, etc. used	6,030	3,354	2,111	2,161	1,123	714	15,493
Production	5,587	3,299	2,266	1,469	642	473	13,736
Output	11,805	6,751	4,452	3,683	1,795	1,211	29,697
Land and Buildings (a)	3,886	2,389	1,176	1,358	443	262	9,514
Plant and Machinery (a)	2,352	1,638	709	935	457	253	6,344
	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
Rated H.P. of Engines ordinarily in use	7,006	3,288	2,740	2,557	1,427	592	17,610

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

* See also footnotes to Table 1 above.

2. AVERAGE SALARIES, OUTPUT AND PRODUCTION. Particulars of the average salaries and wages paid, together with the average values 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 1959-60 to 1963-64.

TABLE 3. - AERATED WATERS 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
	£	£	£	%
1959-60	902	4,885	2,262	36.13
1960-61	925	4,828	2,210	38.24
1961-62	957	5,074	2,418	36.11
1962-63	953	5,359	2,571	33.92
1963-64	985	5,719	2,645	34.34

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

(b) Includes Working Proprietors.

3. ARTICLES PRODUCED. The table which follows shows particulars of the quantity and value of the principal articles produced during the years 1962-63 and 1963-64. In addition to production in factories classified for statistical purposes to the Aerated Waters and Cordials Industry, the details shown in the two tables following include also relevant production in factories otherwise classified. (See Explanatory Notes - Classification of Factories)

TABLE 4. PRODUCTION OF AERATED WATERS, FRUIT JUICES, ETC., AUSTRALIA

Articles	Commodity Code No.	1962-63		1963-64	
		Quantity '000 Gallons	Value £'000	Quantity '000 Gallons	Value £'000
Aerated or Carbonated Waters (including Syphons and Ginger Beer, Hop Beer, etc.)	171.02	57,365	23,136	91,304	24,689
Fruit Juices, Natural -					
Apple	074.61	345	127	504	165
Citrus	074.65	2,500	1,108	1,479	756
Grape	074.67	145	96	118	87
Pineapple	074.69	3,259	1,277	4,114	1,565
Other	074.75	1,044	475	1,857	750
Total Fruit Juices, Natural		7,293	3,085	8,072	3,323
Tomato Juice	094.51	2,353	958	1,131	458
Cordials and Syrups -					
Pure Fruit Juice based (a)	171.06	5,071	3,794	5,611	4,052
Flavoured and/or Imitation	171.10	1,187	910	1,277	967
Total Cordials and Syrups		6,258	4,704	6,888	5,019
Concentrated Cordial Extract	171.14	363	733	330	650
Ice	281.04	239	1,105	225	1,090

(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.

TABLE 5. - TOTAL PRODUCTION OF AERATED WATERS AND CORDIALS : AUSTRALIA
('000 gallons)

Year	Aerated or Carbonated Waters	Cordials and Syrups	Natural Fruit Juices
1959-60	75,834	4,962	5,041
1960-61	80,983	5,289	4,743
1961-62	83,224	5,448	6,366
1962-63	87,365	6,258	7,293
1963-64	93,304	6,888	8,072

4. EMPLOYMENT. The number of persons employed shown in Tables 1, 2 and 7 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 for each of the years 1959-60 to 1963-64.

TABLE 6. - AERATED WATERS ETC., FACTORIES ACCORDING TO PERSONS EMPLOYED : AUSTRALIA

Number of Persons Employed in each Factory	1959-60		1960-61		1961-62		1962-63		1963-64	
	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	221	458	212	440	214	432	203	421	192	397
4	67	268	73	292	59	236	55	220	56	224
5 to 10	154	1,045	153	1,059	152	1,029	154	1,044	152	1,025
11 to 20	63	895	60	821	63	876	64	909	60	860
21 to 50	30	899	31	912	33	1,037	30	886	30	907
51 to 100	12	797	13	864	9	629	12	812	13	905
101 and over	5	687	6	918	5	738	7	932	6	886
TOTAL	552	5,049	548	5,306	535	4,977	525	5,224	509	5,204
Average Number Employed per Factory	9		10		9		10		10	

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 1961-62 to 1963-64 according to the nature of their employment.

TABLE 7. - AERATED WATERS ETC., FACTORIES : PERSONS EMPLOYED ACCORDING TO OCCUPATIONAL STATUS, AUSTRALIA

Occupational Status	Males			Females		
	1961-62	1962-63	1963-64	1961-62	1962-63	1963-64
Working Proprietors	372	373	338	65	68	64
Managerial and Clerical Staff, including Salaried Managers and Working Directors	493	511	576	442	476	484
Chemists, Draftsmen and Other Laboratory and Research Staff	24	27	26	6	7	10
Foremen and Overseers	3,140	3,240	3,101	418	488	594
Workers in Factory (Skilled and Unskilled)						
Other (including Carters and Messengers)						
TOTAL	4,029	4,151	4,041	931	1,039	1,152

In the following table the number of persons employed in June in each of the years 1960 to 1964 are shown according to age and sex distribution.

TABLE 8. - AERATED WATERS ETC. FACTORIES : PERSONS EMPLOYED
ACCORDING TO AGE AND SEX, AUSTRALIA
 (Excluding Working Proprietors)

Last Pay Day in June	Under 16 years	16 to 20 years	21 years and over	Total All Ages
MALES				
1960	45	425	2,751	3,221
1961	65	462	2,776	3,303
1962	66	487	2,536	3,089
1963	43	510	2,682	3,235
1964	58	516	2,758	3,332
FEMALES				
1960	9	139	652	800
1961	10	162	603	780
1962	11	165	570	752
1963	10	187	662	859
1964	14	223	701	938

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 9. - AERATED WATERS ETC. FACTORIES : TYPES AND RATED HORSEPOWER
OF ENGINES, AUSTRALIA

Class of Engine	Rated Horsepower of Engines					
	Ordinarily in Use			In Reserve or Idle		
	1961-62	1962-63	1963-64	1961-62	1962-63	1963-64
Steam - Reciprocating	26	15	15	..	..	..
Internal Combustion -						
Gas	25	..	..	..	..	..
Petrol and Other Light Oils	288	264	252	240	124	137
Heavy Oils	16	31	15	40	40	40
Total Prime Movers	355	310	282	280	164	177
Motors driven by electricity -						
Purchased	15,995	16,806	17,328	1,645	1,733	1,839
Own Generation	..	..	..	..	2	..
Total Electricity	15,995	16,806	17,328	1,645	1,735	1,839
TOTAL POWER EMPLOYED	16,350	17,116	17,610	1,925	1,899	2,016

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 for the years 1961-62 to 1963-64 in the following table.

TABLE 10. - AERATED WATER ETC. FACTORIES : POWER, FUEL AND LIGHT, ETC. USED

AUSTRALIA

Particulars	Unit of Quantity	Quantity			Value (£)		
		1961-62	1962-63	1963-64	1961-62	1962-63	1963-64
Power, Fuel and Light -							
Coal - Black	ton	633	641	581	3,070	3,190	3,031
Brown	"	54	..	..	135	..	..
Brown Coal Briquettes	"	213	220	271	1,168	1,311	1,502
Coke	"	273	271	233	2,130	2,064	1,772
Wood	"	4,731	4,028	3,698	12,617	9,850	8,858
Fuel Oil	gal.	1,218,649	1,364,158	1,524,529	94,761	100,610	109,750
Electricity	-	(a)	(a)	(a)	185,884	199,648	209,738
Gas	-	(a)	(a)	(a)	3,660	4,033	10,043
Other (Charcoal, etc.)	-	(a)	(a)	(a)	3,175	9,343	2,346
Water and Lubricating Oil	-	(a)	(a)	(a)	97,217	109,350	121,147
<u>TOTAL</u>		(a)	(a)	(a)	403,817	439,399	468,187

(a) Value only available.



7. VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY. Particulars of the book values of premises occupied and plant installed for factory purposes at 30th June for the years 1959-60 to 1963-64 are shown in the next table. Details of the values of additions and replacements made and depreciation allowed during each 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 number, as well as other factors, affect comparison from year to year.

TABLE 10. - 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
1959-60	6,231,798	4,516,469	762,892	1,164,872	26,808	458,797
1960-61	7,488,227	5,161,806	1,146,370	1,471,436	37,035	550,793
1961-62	7,834,783	5,701,270	475,928	1,325,665	34,205	601,682
1962-63	8,625,565	5,995,446	698,487	932,342	34,000	645,260
1963-64	9,513,663	6,344,179	688,902	1,145,118	39,351	674,692

(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.

TABLE 12. - IMPORTS AND EXPORTS OF AERATED WATERS, CORDIALS, ETC., AUSTRALIA

Particulars	Unit	1959-60	1960-61	1961-62	1962-63	1963-64
IMPORTS						
Fruit Juices and Syrups (non-spirituos) (a)	gallons £A	147,359 130,090	173,182 121,271	466,978 283,067	140,902 120,512	180,950 193,420
Non-alcoholic Beverages (including sparklets)	£A	39,462	42,242	55,576	52,982	60,417
EXPORTS						
Fruit Juices and Syrups (non-spirituos) -						
Quantity - Citrus	gallons	58,607	48,285	35,539	71,898	188,732
Black Current	"	63,259	87,916	56,477	52,606	58,667
Pineapple	"	649,784	382,702	236,071	88,454	142,695
Tomato	"	373,114	300,540	182,877	145,563	244,913
Other n.e.i.	"	19,331	45,782	77,428	148,242	281,055
Value - Citrus	£A	38,769	32,997	23,766	73,909	214,936
Black Current	"	110,475	114,855	70,193	77,751	79,499
Pineapple	"	172,679	120,477	68,815	28,344	47,910
Tomato	"	119,254	100,633	66,357	60,587	88,372
Other n.e.i.	"	22,691	34,037	76,304	122,158	221,775
Aerated and Mineral Waters	£A	36,808	31,262	33,183	57,592	163,847

(a) Includes Tomato Juice.

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

K.M. ARCHER
COMMONWEALTH STATISTICIAN

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

CANBERRA, A.C.T. 17TH AUGUST, 1965

NOTE:- Inquiries concerning these statistics may be made in Canberra by telephoning 41971 Extension 52 or, in each State Capital, by telephoning the office of the Bureau of Census and Statistics.