

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS, CANBERRA,

AUSTRALIA

MANUFACTURING INDUSTRIES

1961-62

No. 24 BREWERIES

Prepared Under Instructions from
THE RIGHT HONORABLE THE TREASURER,

by

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EXPLANATORY NOTES

GENERAL: The range of bulletins in this series for 1961-62 is the same as for 1960-61, and a complete list is shown inside the back 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.

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 once entered 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. However, figures in the tables showing details of 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.

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 "at-work-ers", 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 : 1961-62**BREWING**

1. **SUMMARY OF STATISTICS:** The following table furnishes a summary of the principal statistics of the factories engaged in the brewing of Beer, Stout, etc. in Australia for the years 1957-58 to 1961-62.

TABLE 1. - BREWERIES : STATES

Particulars	1957-58	1958-59	1959-60	1960-61	1961-62		
					N.S.W.	Other States*	Australia
	No.	No.	No.	No.	No.	No.	No.
Factories	26	27	25	25	6	19	25
Persons Employed (a)							
Males	5,613	5,541	5,377	5,292	1,773	3,403	5,176
Females	296	289	324	334	156	180	336
TOTAL:	5,909	5,830	5,701	5,626	1,929	3,583	5,512
	£'000	£'000	£'000	£'000	£'000	£'000	£'000
Salaries and Wages Paid (b)	6,228	6,232	6,654	6,654	2,434	4,444	6,878
Value of -							
Power, Fuel, Light etc. (a)	1,479	1,488	1,491	1,494	630	901	1,531
Materials, etc. used (d)	22,146	22,416	22,731	24,303	9,347	16,401	25,748
Production	17,271	16,964	18,620	19,790	7,198	14,358	21,556
Output (e)	40,896	40,868	42,842	45,587	17,175	31,660	48,835
Land and Buildings (f)	11,797	12,716	12,924	13,003	4,314	9,260	13,574
Plant and Machinery (f)	15,510	15,727	15,426	14,848	5,507	10,118	15,625
	H.F.	H.F.	H.F.	H.F.	H.F.	H.F.	H.F.
H.P. of Engines ordinarily in use	44,869	47,199	48,396	49,172	18,914	31,169	50,083

(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 goods produced - excludes Excise Duty.

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

* Number of Establishments in these States was as follows:

Victoria 6, Queensland 5, South Australia 3, Western Australia 3, Tasmania 2; other particulars for individual States are confidential.

2. **AVERAGE SALARIES AND WAGES PAID, 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 the value of production, are shown in the following table for the years 1957-58 to 1961-62.

TABLE 2. - BREWERIES : AVERAGE SALARIES AND WAGES PAID, OUTPUT, ETC. PER EMPLOYEE :**AUSTRALIA**

Year	Salaries and Wages per Employee	Value of Output per Person Engaged	Value of Production per Person Engaged	Ratio of Salaries and Wages to Value of Production
	(a)	(b)(c)	(b)	
	£.	£.	£.	%
1957-58	1,054	6,921	2,923	36.06
1958-59	1,069	7,010	2,910	36.74
1959-60	1,129	7,515	3,266	34.58
1960-61	1,181	8,103	3,518	33.62
1961-62	1,248	8,860	3,911	31.91

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

(b) Includes Working Proprietors.

(c) Excludes Excise Duty.

3. MATERIALS USED AND ARTICLES PRODUCED: In the following table details are given of the quantities and values of the principal materials used and articles produced in Breweries in Australia during the year 1961-62.

TABLE 3. - PRINCIPAL MATERIALS USED AND ARTICLES PRODUCED IN BREWERIES :
AUSTRALIA, 1961-62

Particulars	Unit of Quantity	Quantity	Value (£) (a)
<u>Materials Used:</u>			
Malt	bushel	6,909,652	7,650,659
Hops	lb.	4,375,197	1,604,268
Sugar Liquid	ton	39,822	3,241,154
Sugar Granular	ton	4,229	405,087
<u>Ale, Beer and Stout Produced:</u>			
Bulk	gal. (b)	150,193,311	20,818,210
Bottled or Canned	gal.	91,442,453	27,238,664
<u>TOTAL:</u>		241,635,764	48,056,874

(a) Excludes Excise Duty. (b) Total gallonage based on reputed contents of all bulk containers racked or bottles labelled during year.

The following table shows particulars of the materials used and the production of beer and stout in Australian Breweries for the years 1957-58 to 1961-62.

TABLE 4. - MATERIALS USED AND ALE, BEER AND STOUT MADE, AUSTRALIA

Particulars	Unit of Quantity	1957-58	1958-59	1959-60	1960-61	1961-62
<u>MATERIALS USED</u>						
Malt ..	'000 bush.	6,640	6,525	6,633	6,899	6,910
Hops ..	'000 lb.	4,409	4,317	4,520	4,482	4,375
Sugar ..	ton	43,738	42,528	38,767	44,944	44,051
<u>ALE, BEER AND STOUT MADE ('000 GALLONS)</u>						
Bulk		151,007	145,401	148,396	149,874	150,193
Bottled or Canned		75,442	78,196	83,279	86,534	91,442
<u>Total Ale, Beer and Stout:</u>		226,449	223,597	231,675	236,408	241,635

4. EXTERNAL TRADE: The quantities and values of imports and exports of Ale, Beer, and Porter are given in the following table for the years 1957-58 to 1961-62.

TABLE 5. - IMPORTS AND EXPORTS OF ALE, BEER AND PORTER : AUSTRALIA

Year	Imports		Exports (a)	
	Gallons	£.	Gallons	£.
1957-58	48,928	24,098	1,547,038	605,476
1958-59	55,379	27,455	1,417,643	598,981
1959-60	57,347	28,274	1,468,933	625,784
1960-61	60,705	30,192	1,578,227	660,593
1961-62	65,625	33,582	1,554,475	659,702

(a) Excluding Ships' Stores.

NOTE: Values are in Australian currency, f.o.b. port of shipment.

5. CONSUMPTION OF BEER: In the following table details are given for the years 1957-58 to 1961-62 of the amount of beer consumed in Australia in total and per head of population, and of the total revenue received from customs and excise duties.

TABLE 6. - CONSUMPTION OF BEER : AUSTRALIA

Year	Total Consumption of Beer	Consumption of Beer per head of Population	Total Gross Customs and Excise Duty paid on Beer
	'000 gallons	gallons	£'000
1957-58	224,135	23.0	106,047
1958-59	220,687	22.2	105,638
1959-60	230,133	22.6	110,013
1960-61	234,559	22.6	112,014
1961-62	238,377	22.5	113,771

6. **EMPLOYMENT:** The number of employees shown in Tables 1 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 for the years 1957-58 to 1961-62.

TABLE 7. - BREWERIES CLASSIFIED ACCORDING TO PERSONS EMPLOYED : AUSTRALIA

Number of Persons Employed in each Factory	1957-58		1958-59		1959-60		1960-61		1961-62	
	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	..	..	..	..	..	..	..	..	..	..
4	..	..	..	..	..	..	..	..	..	..
5 to 10	..	..	..	..	1	10	..	..	..	..
11 to 20	..	..	1	17	..	1	1	11	1	12
21 to 50	4	155	2	75	2	85	1	32	3	123
51 to 100	6	451	9	614	6	403	7	461	5	384
101 to 200	5	176	3	441	6	918	7	1,105	6	859
201 to 300	4	980	6	1,418	4	953	3	718	4	947
301 and over	7	3,546	6	3,373	6	3,332	6	3,299	6	3,218
TOTAL:	26	5,908	27	5,938	25	5,701	25	5,626	25	5,543
Average Number Employed per Factory	227		220		228		225		222	

Further details of employment are furnished in the two tables which follow. In Table 8 the numbers of males employed are shown for the years 1957-58 to 1961-62 according to the nature of their employment.

TABLE 8. - BREWERIES : PERSONS EMPLOYED : MALES CLASSIFIED
ACCORDING TO OCCUPATIONAL STATUS : AUSTRALIA

Occupational Status		1957-58	1958-59	1959-60	1960-61	1961-62
MALES						
Working Proprietors	..	..	..	..	..	..
Managerial and Clerical Staff, including Salaried Managers and Working Directors		1,001	951	918	939	918
Chemists, Draftsmen and other Laboratory and Research Staff	..	77	89	89	99	108
Foremen and Overseers	..	359	336	335	4,254 (a)	4,150 (a)
Workers in Factory (Skilled and Unskilled)		4,149	4,142	4,016		
Garters (excl. delivery only), Messengers, and Persons Working Regularly at Home.		27	21	19		
	{ Males:	5,613	5,541	5,377	5,292	5,176
	{ Females (b):	296	289	324	334	336
	{ Persons:	5,909	5,830	5,701	5,626	5,512

(a) Separate details not now collected. (b) Mainly clerical staff.

In the following table the number of persons employed in June in each of the years 1958 to 1962 are shown according to age and sex distribution.

TABLE 9. - BREWERIES : PERSONS EMPLOYED CLASSIFIED ACCORDING TO AGE AND SEX : AUSTRALIA
(Excluding Working Proprietors)

Last Pay Day in June	Under 16 Years	16 Years	17 Years	18 Years	19 Years	20 Years	Total 16 to 21 Years	21 Years and over	Total all Ages
MALES									
1958	27	23	31	33	34	26	147	5,321	5,495
1959	13	29	33	32	20	29	143	5,113	5,269
1960	14	33	36	36	22	21	148	5,019	5,181
1961	21	(a)	(a)	(a)	(a)	(a)	171	4,843	5,035
1962	22	(a)	(a)	(a)	(a)	(a)	193	4,845	5,060
FEMALES									
1958	12	12	12	19	22	23	88	191	291
1959	3	13	16	22	16	25	92	204	299
1960	3	17	14	18	19	31	99	220	322
1961	12	(a)	(a)	(a)	(a)	(a)	95	237	344
1962	6	(a)	(a)	(a)	(a)	(a)	111	219	336

(a) Separate details not now collected.

7. **POWER EQUIPMENT:** Statistics of the power equipment installed are given in the next table. The details include the rated horse-power of engines ordinarily in use, together with those in reserve or idle.

TABLE 10. - BREWERIES: TYPES AND RATED HORSE-POWER OF ENGINES: AUSTRALIA

Class of Engine	Rated Horse-Power of Engines					
	Ordinarily in Use			In Reserve or Idle		
	1959-60	1960-61	1961-62	1959-60	1960-61	1961-62
Steam - Reciprocating ..	70	70	50	1,445	1,435	1,395
Turbine ..	..	..	..	1,750	1,750	..
Internal Combustion -						
Gas ..	..	..	..	..	..	..
Petrol or other Light Oils ..	11	2	2	661	1,861	2,037
Heavy Oils ..	610	610	610	5,317	4,615	4,439
Total, Prime Movers:	691	682	662	9,173	9,661	7,871
Motors driven by electricity -						
Purchased ..	47,705	48,490	49,421	3,964	3,575	3,256
Own Generation ..	(a) 205	(a) 205	(a) 187	7	7	..
Total, Electricity:	47,910	48,695	49,608	3,971	3,582	3,256
TOTAL POWER EMPLOYED:	48,396	49,172	50,083	13,144	13,243	11,127

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

8. **POWER, FUEL AND LIGHT, ETC. USED:** Details of the quantities and values of the various items of power, fuel and light used are shown in the following table of the years 1959-60 to 1961-62.

TABLE 11. - BREWERIES: POWER, FUEL AND LIGHT, ETC. USED: AUSTRALIA

Particulars	Unit of Qty.	Quantity			Value (£)		
		1959-60	1960-61	1961-62	1959-60	1960-61	1961-62
Power, Fuel and Light-							
Coal - Black	ton	34,363	31,077	30,496	155,015	141,081	137,604
Brown	"	..	..	..	..	1,132	819
Coke	"	105	120	86	239	18,879	16,588
Wood	"	8,119	8,248	8,110	18,468	299,231	276,936
Fuel Oil	gal.	6,302,457	6,539,839	6,541,648	321,500	299,231	276,936
Tar (Fuel)	"	443,039	356,790	303,660	25,424	20,507	16,540
Electricity	-	(a)	(a)	(a)	720,713	757,048	813,371
Gas	-	(a)	(a)	(a)	4,019	3,634	3,609
Other (Charcoal, etc.)	-	(a)	(a)	(a)	..	..	..
Water and Lubricating Oil used	-	(a)	(a)	(a)	244,465	252,375	265,499
TOTAL:		(a)	(a)	(a)	1,490,563	1,493,887	1,530,966

(a) Quantity not available.

9. **VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY:** Particulars of the book values of premises occupied and plant installed in Breweries at the 30th June for the years 1957-58 to 1961-62 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. - BREWERIES: VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY: AUSTRALIA

Year	Book Value as at 30th June (£)		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
1957-58	11,796,816	15,510,349	874,640	2,596,677	141,619	1,779,548
1958-59	12,715,967	15,727,086	685,133	2,338,356	152,065	1,790,502
1959-60	12,923,558	15,425,885	222,493	1,722,554	152,386	1,955,599
1960-61	13,003,182	14,848,472	278,655	1,466,446	154,671	1,860,254
1961-62	13,573,815	15,624,850	449,599	3,098,636	246,952	1,991,464

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

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS
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NOTE: Inquiries concerning these statistics can be made in Canberra by telephoning UO413 Extension 301 or, in State Capitals, by telephoning the offices of the Deputy Commonwealth Statisticians.