

**MANUFACTURING INDUSTRIES
1964—65**

**No. 17
BISCUITS**

RECORDS

1911

1911

COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

CANBERRA, AUSTRALIA

MANUFACTURING INDUSTRIES, 1964-65

NO. 17. BISCUITS

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EXPLANATORY NOTES

GENERAL. The range of bulletins in this series for 1964-65 is the same as for 1963-64. 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.

Statistics of the number of factories, persons employed, salaries and wages, value of fuel, materials, production and output etc. for 1964-65 include details for the Northern Territory and Australian Capital Territory. Prior to 1964-65 details for the Territories were excluded. Statistics of materials used and articles produced do not include details for the Territories.

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 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, 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. (This bulletin was previously known as Secondary Industries Bulletin, Part I.)

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, 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 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 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 are due to rounding.

This bulletin refers, in general, to factories classified to sub-class 0906 (Biscuits) of the Factory classification, 1945.

TABLE 1. - BISCUIT FACTORIES : SUMMARY

AUSTRALIA

Year	Factories (1)	Persons Employed (a)(2)	Salaries and Wages Paid (b)(3)	Power, Fuel, Light, etc. Used (c)(4)	Value of Materials, etc. Used (d)(5)	Value of Production (e)(6)	Value of Output (f)(7)
	No.	No.	\$'000	\$'000	\$'000	\$'000	\$'000
1960-61	52	6,153	10,283	1,087	24,170	19,659	44,916
1961-62	53	6,092	10,903	1,106	25,448	20,670	47,224
1962-63	52	6,199	11,236	1,145	26,052	20,960	48,157
1963-64	53	6,262	11,696	1,170	27,483	21,628	50,281
1964-65	53	6,474	13,159	1,242	29,714	24,910	55,867

(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.

TABLE 2. - BISCUIT FACTORIES : SUMMARY

STATES, 1964-65

Particulars	N.S.W.	Vic.	Q'ld.	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.
Number									
Factories	17	23	5	5	2	1	..	..	53
Persons Employed (a)				(h)	(h)	(h)	..	..	
Males	1,043	855	279	(h)	(h)	(h)	..	..	2,463
Females	1,731	1,381	434	(h)	(h)	(h)	..	..	4,011
TOTAL	2,774	2,236	713	(h)	(h)	(h)	..	..	6,474
\$'000									
Salaries and Wages Paid (b)	6,032	4,510	1,227	(h)	(h)	(h)	..	..	13,159
Value of -				(h)	(h)	(h)	..	..	
Power, Fuel				(h)	(h)	(h)	..	..	
Light, etc. Used (c)	492	447	148	(h)	(h)	(h)	..	..	1,242
Materials, etc. Used (d)	12,251	9,919	4,081	(h)	(h)	(h)	..	..	29,714
Production (e)	12,171	7,279	3,086	(h)	(h)	(h)	..	..	24,910
Output (f)	24,914	17,645	7,315	(h)	(h)	(h)	..	..	55,867
Land and Buildings (g)	4,288	4,530	1,895	(h)	(h)	(h)	..	..	12,926
Plant and Machinery (g)	3,926	2,420	1,190	(h)	(h)	(h)	..	..	8,422
Horsepower									
Rated H.P. of Engines ordinarily in use	7,396	4,558	2,602	(h)	(h)	(h)	..	..	16,791

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

TABLE 3. - BISCUIT FACTORIES
AVERAGE SALARIES AND WAGES, OUTPUT, PRODUCTION, 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 %
1960-61	1,678	7,300	3,195	52.31
1961-62	1,798	7,752	3,393	52.75
1962-63	1,820	7,768	3,381	53.61
1963-64	1,877	8,030	3,454	54.08
1964-65	2,043	8,629	3,848	52.83

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

TABLE 4. - BISCUIT FACTORIES
ACCORDING TO PERSONS EMPLOYED (a) : AUSTRALIA

Number of Persons Employed in each Factory	1961-62		1962-63		1963-64		1964-65	
	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	13	26	12	24	10	21	9	20
4	3	12	3	12	4	16	7	28
5 to 10	6	41	9	74	12	96	10	76
11 to 20	9	131	6	86	5	79	6	87
21 to 50	6	207	5	160	7	212	6	201
51 to 100	1	57	2	117	3	250	2	134
101 to 200	5	726	5	680	..	..	..	..
201 to 300	3	710	3	726	5	1,198	5	1,276
301 and over	7	4,180	7	4,330	7	4,418	8	4,851
TOTAL	53	6,092	52	6,209	53	6,290	53	6,673
Average Number Employed per Factory		115		119		119		126

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

TABLE 5. - BISCUIT FACTORIES
PERSONS EMPLOYED (a) ACCORDING TO OCCUPATIONAL STATUS

AUSTRALIA

Occupational Status	Males			Females		
	1962-63	1963-64	1964-65	1962-63	1963-64	1964-65
Working Proprietors	20	21	22	7	11	10
Managerial and Clerical Staff, incl. Salaried Managers and Working Directors	268	329	354	366	445	401
Chemists, Draftsmen and Other Laboratory and Research Staff	47	41	41	31	29	29
Foremen and Overseers, Workers in Factory (Skilled and Unskilled), Other (Carters and Messengers, etc.)	2,086	2,022	2,046	3,354	3,364	3,571
TOTAL	2,441	2,413	2,463	3,758	3,849	4,011

(a) Average number employed calculated on a "whole year" basis, i.e. in factories working less than the full year the average numbers are reduced to whole year equivalents.

TABLE 6. - BISCUIT 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				
1961	56	273	2,086	2,415
1962	45	269	2,108	2,422
1963	38	308	2,062	2,408
1964	36	272	2,077	2,385
1965	32	330	2,070	2,432
FEMALES				
1961	115	723	2,867	3,705
1962	167	810	2,843	3,820
1963	135	756	2,834	3,725
1964	138	823	2,925	3,886
1965	63	889	2,900	3,852

TABLE 7. - BISCUIT FACTORIES
CLASS OF ENGINE AND RATED HORSEPOWER : AUSTRALIA

Class of Engine	Rated Horsepower of Engines					
	Ordinarily in Use			In Reserve or Idle		
	1962-63	1963-64	1964-65	1962-63	1963-64	1964-65
Steam - Reciprocating	1,340	2,140	2,140	..	..	..
Turbine	804	800	800	..	..	..
Internal Combustion -						
Petrol and Other Light						
Oils ..	100	100	100	1,120	1,120	440
Heavy Oils ..	435	640	640	..	..	..
Total Prime Movers	2,679	3,680	3,680	1,120	1,120	440
Motors driven by						
Electricity -						
Purchased ..	10,764	12,701	13,111	1,880	1,913	1,821
Own Generation ..	(a)3,860	(a)2,800	(a)2,800	..	..	..
Total Electricity	14,624	15,501	15,911	1,880	1,913	1,821
TOTAL POWER EMPLOYED	13,443	16,381	16,791	3,000	3,033	2,261

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

TABLE 8. - BISCUIT FACTORIES
POWER, FUEL, LIGHT, ETC. USED : AUSTRALIA

Particulars	Unit of Quantity	Quantity			Value (\$)		
		1962-63	1963-64	1964-65	1962-63	1963-64	1964-65
Power, Fuel and Light -							
Coal Black ..	ton	4,950	5,143	4,966	40,238	41,066	44,672
Brown Coal	"						
Briquettes ..	"	924	785	119	10,024	8,516	1,200
Coke ..	"	296	266	408	5,914	7,598	8,414
Wood ..	"	850	..	..	2,886	..	..
Fuel Oil ..	'000 gals.	791	762	768	102,796	94,170	85,918
Electricity ..	..	(a)	(a)	(a)	364,104	393,564	441,640
Gas ..	..	(a)	(a)	(a)	553,028	550,860	585,866
Other (Charcoal, etc.) ..	..	(a)	(a)	(a)	..	3,478	..
Water and Lubricating Oils	..	(a)	(a)	(a)	65,958	71,490	74,598
TOTAL		(a)	(a)	(a)	1,144,948	1,170,742	1,242,308

(a) Value only available.

TABLE 9. - BISCUIT FACTORIES
VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY, ETC.

AUSTRALIA
 (\$'000)

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
1960-61	10,005	8,002	676	1,448	20	772
1961-62	10,531	8,341	376	1,257	21	885
1962-63	11,411	8,462	777	1,071	28	863
1963-64	11,278	8,868	469	1,639	76	1,011
1964-65	12,926	8,422	2,085	1,441	56	1,094

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

TABLE 10. - PRINCIPAL MATERIALS USED IN BISCUIT FACTORIES
AUSTRALIA, 1964-65

Materials Used	Commodity Code No.	Unit of Quantity	Quantity	Value (\$'000)
Flour (wheaten)	062.15, 16	short ton	67,446	5,473
Wheatmeal	062.35	"	2,051	158
Sugar - granular	102.15, 29	70 lb. bags	538,710	2,998
liquid	102.16	ton	3,701	643
Chocolate (incl. coverture)	104.02	'000 lb.	5,693	1,736
Cocoa powder	111.26	"	480	110

NOTE. - The above details relate to materials used in factories classified to sub-class 0906 (Biscuits) only and are not necessarily comparable with figures published in previous issues of this bulletin.

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

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

Articles Produced	Commodity Code No.	1964-65	
		Quantity	Value
		'000 lb.	\$'000
Biscuits	064.21	208,945	52,518
Ice cream cones and wafers	064.31	3,956	1,248
Cakes, pastry, pies & puddings (incl. canned, ready to eat)	064.41,43,45	(a)	82,895

(a) Value only available.

TABLE 12. - BISCUITS MADE IN ALL FACTORIES : AUSTRALIA

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

Year	Quantity ('000 lb.)	Value (\$'000)	Month	Quantity (a) ('000 lb.)
			1965 - July	19,231
1954-55	150,816	27,278	August	19,848
1955-56	158,554	30,630	September	19,056
1956-57	162,536	32,999	October	18,619
1957-58	165,709	34,760	November	20,511
1958-59	172,540	37,334	December	16,876
1959-60	177,579	40,077	1966 - January	12,828
1960-61	181,324	42,191	February	16,009
1961-62	179,959	44,448	March	20,827
1962-63	185,245	45,091	April	17,308
1963-64	197,970	47,117	May	20,647
1964-65	208,945	52,518	June	20,122
			Year ended June, 1966	221,913

(a) Subject to revision.

TABLE 13. - IMPORTS AND EXPORTS OF BISCUITS : AUSTRALIA

Year	Imports		Exports	
	Quantity	Value	Quantity	Value
	'000 lb.	\$A'000	'000 lb.	\$A'000
1960-61	1,868	553	3,563	726
1961-62	2,219	630	3,627	740
1962-63	2,134	707	3,639	779
1963-64	2,322	822	4,842	1,052
1964-65	2,705	966	6,213	1,300

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COMMONWEALTH BUREAU OF CENSUS AND STATISTICS

CANBERRA, A.C.T. 20 JANUARY 1967

NOTE: Inquiries concerning these statistics can be made in Canberra by telephoning 639111 Extension 2267 or, in State Capitals, by telephoning the office of the Deputy Commonwealth Statistician.

