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MANUFACTURING INDUSTRIES 1965-66

**No. 17
BISCUITS**



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

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NO. 17. BISCUITS

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EXPLANATORY NOTES

GENERAL. The range of bulletins in this series for 1965-66 is the same as for 1964-65. 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.

Statistics of the number of factories, persons employed, salaries and wages, value of fuel, materials, production and output, etc., for 1965-66 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.

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 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 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
1961-62	53	6,092	10,903	1,106	25,448	20,670	47,224
1962-63	52	6,199	11,237	1,145	26,052	20,960	48,157
1963-64	53	6,262	11,696	1,171	27,483	21,628	50,281
1964-65	53	6,474	13,159	1,242	29,714	24,910	55,867
1965-66	56	6,716	13,677	1,317	32,546	26,368	60,231

(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, 1965-66

Particulars	N.S.W.	Vic.	Qld	S.A.	W.A.	Tas.	N.T.	A.C.T.	Aust.
	Number								
Factories	17	27	5	4	2	1	..	..	56
Persons employed (a) -									
Males	1,079	868	298	(h)	(h)	(h)	..	..	2,513
Females	1,794	1,469	444	(h)	(h)	(h)	..	..	4,203
<u>TOTAL</u>	2,873	2,337	742	(h)	(h)	(h)	..	..	6,716
	\$'000								
Salaries and wages	6,095	4,822	1,298	(h)	(h)	(h)	..	..	13,677
Paid (b)									
Value of -									
Power, fuel									
light, etc. used (c)	515	481	160	(h)	(h)	(h)	..	..	1,317
Materials, etc.									
Used (d)	13,540	10,937	4,359	(h)	(h)	(h)	..	..	32,546
Production (e)	12,874	7,450	3,258	(h)	(h)	(h)	..	..	26,368
Output (f)	26,929	18,868	7,778	(h)	(h)	(h)	..	..	60,231
Land and									
buildings (g)	4,719	4,848	2,694	(h)	(h)	(h)	..	..	14,404
Plant and									
machinery (g)	4,237	3,318	1,457	(h)	(h)	(h)	..	..	10,180
	Horsepower								
Rated hp of engines									
ordinarily in use	7,369	5,192	2,803	(h)	(h)	(h)	..	..	17,395

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 persons engaged (b)	Ratio of salaries and wages to value of production
	\$	\$	\$	%
1961-62	1,798	7,752	3,393	52.75
1962-6	1,821	7,769	3,381	53.61
1963-64	1,877	8,030	3,454	54.08
1964-65	2,043	8,629	3,848	52.83
1965-66	2,047	8,968	3,926	51.86

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

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

Number of persons employed in each factory	1962-63		1963-64		1964-65		1965-66	
	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	12	24	10	21	9	20	13	32
4	3	12	4	16	7	28	6	24
5 to 10	9	74	12	96	10	76	8	60
11 to 20	6	86	5	79	6	87	8	109
21 to 50	5	160	7	212	6	201	7	209
51 to 100	2	117	3	250	2	134	2	161
101 to 200	5	680	..	..	..	..	..	..
201 to 300	3	726	5	1,198	5	1,276	2	519
301 and over	7	4,330	7	4,418	8	4,851	10	5,603
TOTAL	52	6,209	53	6,290	53	6,673	56	6,717
Average number employed per factory	119		119		126		120	

(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) BY OCCUPATIONAL STATUS
AUSTRALIA

Occupational status	Males			Females		
	1963-64	1964-65	1965-66	1963-64	1964-65	1965-66
Working proprietors	21	22	22	11	10	13
Managerial and clerical staff, incl. salaried managers and working directors	329	354	371	445	401	430
Chemists, draftsmen and other laboratory and research staff	41	41	44	29	29	27
Workers in factory (skilled and unskilled) foremen and overseers, carters (excluding delivery only), messengers and persons working regularly at home	2,022	2,046	2,076	3,364	3,571	3,733
TOTAL	2,413	2,463	2,513	3,849	4,011	4,203

(a) Average number employed calculated on "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 BY 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				
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
1966	26	273	2,183	2,482
FEMALES				
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
1966	53	779	3,489	4,321

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		
	1963-64	1964-65	1965-66	1963-64	1964-65	1965-66
Steam - Reciprocating	2,140	2,140	2,140	..	..	..
Turbine	800	800	800	..	..	..
Internal combustion -						
Petrol and other light						
oils ..	100	100	740	1,120	440	340
Heavy oils ..	640	640		..	..	
<u>Total hp prime movers</u>	3,680	3,680	3,680	1,120	440	340
Motors driven by						
electricity -						
Purchased ..	12,701	13,111	13,715	1,913	1,821	1,333
Own generation ..	(a) 2,800	(a) 2,800	(a) 2,800	..	..	..
<u>Total hp electric motors</u>	15,501	15,911	16,515	1,913	1,821	1,333
<u>TOTAL POWER EMPLOYED</u>	16,381	16,791	17,395	3,033	2,261	1,673

(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 (\$'000)		
		1963-64	1964-65	1965-66	1963-64	1964-65	1965-66
Power, fuel and light -							
Coal - Black ..	ton	5,143	4,966	4,762	41	45	40
Brown Coal ..	"						
briquettes ..	"	785	119	15	9	1	(b)
Coke ..	"	266	408	341	8	8	7
Fuel oil ..	'000 gal	762	768	739	94	86	75
Electricity ..	..	}	}	}	394	442	488
Gas ..	..				551	586	626
Other charcoal, etc.) ..	..				3	..	7
Water and lubricating oils	..	}	}	}	71	75	74
<u>TOTAL</u>		(a)	(a)	(a)	1,171	1,242	1,317

(a) Value only available. (b) Less than \$500.

TABLE 9. - BISCUIT FACTORIESVALUE 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
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
1965-66	14,404	10,180	1,732	3,171	45	1,197

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

TABLE 10. - PRINCIPAL MATERIALS USED IN BISCUIT FACTORIESAUSTRALIA (a). 1965-66

Materials used	Commodity code no.	Unit of quantity	Quantity	Value (\$'000)
Butter (incl. butter oil and powder)	051.31	'000 cwt	2,077	916
Flour (wheaten)	062.15	short ton	70,560	5,812
Wheatmeal	062.35	"	1,670	134
Sugar - Granular	102.15	70 lb bags	571,291	3,163
Liquid	102.16	ton	3,236	555
Chocolate (incl. couverture)	104.02	'000 lb	7,034	1,939
Cocoa powder	111.26	"	480	96
Margarine	121.08	cwt	102,676	2,029
Edible oils and fats other than butter (incl. butter oil and powder) and margarine (incl. prepared shortenings, tin greasing oils etc.)	121.21	cwt	199,951	3,983

(a) Excludes Northern Territory and Australian Capital Territory.

NOTE. The above details relate to materials used in factories classified to sub-class 0906 (Biscuits) only.

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	
		Quantity '000 lb	Value \$'000
Biscuits	064.21	223,678	57,030
Ice cream cones and wafers	064.31	4,350	1,360
Cakes, pastry, pies and puddings, ready to eat -			
Canned, all types	064.43	(b)	2,687
Not canned (excl. ready-to- use puff pastry and prepared dry mixes)	064.45	(b)	81,223

(a) Excludes Northern Territory and Australian Capital Territory. (b) Value only available.

TABLE 12. - BISCUITS MADE IN ALL FACTORIES : AUSTRALIA (a)

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

Year	Quantity ('000 lb)	Value (\$'000)	Month	Quantity (b) ('000 lb)
1956-57	162,536	32,999	1966 - July	19,381
1957-58	165,709	34,760	August	21,983
1958-59	172,540	37,334	September	20,395
1959-60	177,579	40,077	October	19,423
1960-61	181,324	42,191	November	20,532
1961-62	179,959	44,448	December	16,464
1962-63	185,245	45,091	1967 - January	14,580
1963-64	197,970	47,117	February	18,080
1964-65	208,945	52,518	March	20,474
1965-66	223,678	57,030	April	19,271
			May	21,494
			June	19,413
			Year ended June 1967	231,489

(a) Excludes Northern Territory and Australian Capital Territory. (b) Preliminary. 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
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
1965-66	3,029	1,121	7,522	1,621

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NOTE. Inquiries concerning these statistics can be made in Canberra by telephoning 63 9111 Extension 2267 or, in each State capital, by telephoning the office of the Deputy Commonwealth Statistician.