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CANBERRA.

OFFICIAL STATISTICS, COMMONWEALTH OF AUSTRALIA.

MANUFACTURING INDUSTRIES,
1936-37.

No. 27. TOBACCO, CIGARS AND CIGARETTES.

PREPARED UNDER INSTRUCTIONS FROM
THE HONORABLE THE TREASURER,

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P R E F A C E

As a result of the deliberations of the Conference of Commonwealth and State Statisticians held in March, 1937, the statistics of factory production in Australia have been considerably extended, and a much greater degree of uniformity has been attained than in previous years. In consequence a more comprehensive analysis of the manufacturing industries is now possible.

While continuing to publish these statistics in the Official Year Book and the Production Bulletin, it is proposed to publish the details for the more important industries as soon as they become available in a series of special reports.

This is the twenty-seventh of the series, and it refers to the operations of establishments engaged in the manufacture of Tobacco, Cigars and Cigarettes. Similar reports for other industries will follow as the tabulations are completed. A list of those already issued is given in the footnote hereunder while the complete list of the industries it is proposed to include in these Reports is given on the back cover.

The improvements in the scope and uniformity of the factory statistics have only been made possible by the ready co-operation and assistance of the manufacturers of Australia and the Statisticians of the several States.

ROLAND WILSON

Commonwealth Statistician

Canberra, A.C.T.
20th September, 1938.

NOTE: Previously issued:
1 to 26 (Inclusive).

TOBACCO, CIGARS AND CIGARETTES.

The following table furnishes a summary of the principal statistics of the factories engaged in the manufacture of Tobacco, Cigars and Cigarettes.

1. TOBACCO, CIGARS AND CIGARETTES - AUSTRALIA, 1908 TO 1936-37.

Year	Number of Factories	Persons Employed (a)	Salaries and Wages Paid (b)	Power, Fuel and Light Used	Value of Other Materials Used	Value of Production	Value of Output
	No.	No.	£'000	£'000	£'000	£'000	£'000
1908	33	(c) 4,137	267	6	1,425	657	2,088
1913	36	(c) 3,566	374	4	1,651	1,058	2,713
1920-21	40	(c) 4,525	706	18	5,091	1,600	6,709
1928-29	23	(d) 4,130	809	24	4,428	2,361	6,813
1929-30	23	4,096	818	25	5,111	2,387	7,523
1930-31	22	4,154	807	25	4,831	1,966	6,842
1931-32	24	4,119	801	26	5,448	1,825	7,299
1932-33	30	4,142	812	23	4,824	1,745	6,592
1933-34	31	4,395	839	19	5,003	1,872	6,894
1934-35	29	4,818	891	19	5,373	1,824	7,216
1935-36	31	5,155	951	21	6,082	2,426	8,529
1936-37	32	5,447	997	30	6,345	2,340	8,715

(a) Including Working Proprietors. (b) Exclusive of amounts drawn by Working Proprietors. (c) Average over period worked by factory. (d) For 1928-29 and succeeding years, the employment figures have been averaged over the whole year.

In the following table particulars of the Industry are given for each State during the year 1936-37.

2. TOBACCO, CIGARS AND CIGARETTES - STATES, 1936-37.

Particulars	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	AUSTRALIA (d)
	No.	No.	No.	No.	No.	No.	No.
Number of Factories	9	15	6	1	1	-	32
Number Employed (a) -							
Males	1,144	852	(c)	(c)	(c)	-	2,066
Females	2,070	1,167	(c)	(c)	(c)	-	3,381
Total	3,214	2,019	(c)	(c)	(c)	-	5,447
Value of -	£.	£.	£.	£.	£.	£.	£.
Salaries and Wages Paid (b) ..	592,927	378,076	(c)	(c)	(c)	-	996,665
Fuel used ..	21,206	8,144	(c)	(c)	(c)	-	29,938
Materials used ..	4,519,541	1,751,108	(c)	(c)	(c)	-	6,345,214
Production ..	1,330,522	961,744	(c)	(c)	(c)	-	2,339,429
Output	5,871,269	2,720,996	(c)	(c)	(c)	-	8,714,561
Land and Buildings	632,652	325,071	(c)	(c)	(c)	-	1,001,236
Plant and Machinery	584,496	268,029	(c)	(c)	(c)	-	870,430
H.P. of Engines Ordinarily in use ..	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.	H.P.
	4,969	1,761	(c)	(c)	(c)	-	6,814

(a) Includes Working Proprietors. (b) Exclusive of amounts drawn by Working Proprietors. (c) Not available for publication. (d) Includes States marked (c).

Particulars of the average salary and wage paid together with the average values per employee of output and production are shown in the following table for each of the years indicated:-

**3. AVERAGE SALARIES AND WAGES PAID, OUTPUT, ETC. PER EMPLOYEE -
AUSTRALIA, 1908 TO 1936-37.**

Year	Salaries and Wages per Employee (a)	Value of Output per Person Engaged (b)	Value of Production per Person Engaged (b)	Ratio per cent of Salaries and Wages to Value of Production
	£.	£.	£.	%
1908	65	505	159	40.62
1913	106	761	297	35.34
1920-21	157	1,483	354	44.14
1928-29	197	1,650	572	34.25
1929-30	201	1,837	583	34.29
1930-31	195	1,647	478	40.65
1931-32	195	1,772	443	43.88
1932-33	197	1,591	421	46.54
1933-34	192	1,569	426	44.80
1934-35	186	1,498	379	48.85
1935-36	185	1,655	471	39.18
1936-37	184	1,600	429	42.60

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

In the following table details are given of the amount of tobacco leaf used and the production of tobacco, cigars and cigarettes in Australia for the year ended June, 1937.

4. TOBACCO FACTORIES - AUSTRALIA - 1936-37.

Particulars	Unit of Quantity	Quantity	Value £.
Materials Used:			
Stemmed Leaf used in:-			
Tobacco manufacture -			
Australian Leaf ..	lb.	3,911,302	472,801
Imported Leaf.. ..	"	9,074,621	2,573,872
Total	"	12,985,923	3,046,673
Cigar Manufacture -			
Australian Leaf ..	"	(b)	(b)
Imported Leaf.. ..	"	(b)	(b)
Total	"	292,756	103,792
Cigarette Manufacture -			
Australian Leaf ..	"	337,945	50,888
Imported Leaf.. ..	"	5,681,195	2,132,669
Total	"	6,019,140	2,183,557
Total Australian Leaf ..	"	4,249,287	523,694
Total Imported Leaf ..	"	15,040,012	4,808,499
GRAND TOTAL ALL LEAF:	"	19,289,299	5,332,193
Articles produced:			
Tobacco - Plug	lb.	2,407,927	(a) 643,526
Other	"	13,325,296	4,646,975
Cigars (c)	"	262,481	288,847
Cigarettes (d)	"	5,659,071	3,112,212

(a) Exclusive of Excise Duty. (b) Not available for publication. (c) Number of Cigars, 30.4 million. (d) Number of Cigarettes, 2,568 million.

For comparative purposes the following table sets out particulars of the amount of tobacco leaf used and the production of tobacco, cigars and cigarettes during each of the years indicated:-

5. TOBACCO FACTORIES - AUSTRALIA, 1908 TO 1936-37.

Year	Tobacco Leaf Used		Tobacco made	Cigars made	Cigarettes made
	Australian lb.	Imported lb.			
1908	1,636,578	9,353,231	9,838,115	274,823	1,522,398
1913	1,309,330	10,367,769	9,956,015	405,901	2,767,550
1920-21	1,736,902	14,896,570	13,267,627	543,739	5,324,307
1927-28	1,007,089	17,613,104	15,096,949	390,336	5,391,271
1928-29	978,030	18,157,689	15,677,900	338,873	5,357,782
1929-30	1,191,568	17,963,113	16,064,402	306,740	5,371,005
1930-31	3,128,684	13,327,414	14,241,779	223,884	4,224,837
1931-32	2,349,041	14,075,575	14,084,193	225,128	4,190,854
1932-33	2,721,893	14,103,436	14,788,145	253,985	4,362,198
1933-34	3,306,790	13,718,454	14,656,195	258,771	4,576,615
1934-35	3,351,623	13,767,528	14,526,735	253,069	4,812,934
1935-36	3,652,699	14,662,182	15,277,099	283,097	5,304,632
1936-37	4,249,287	15,040,012	15,732,223	262,481	5,659,071

The following table furnishes details of the number of factories and the number employed in each State in the Industrial group - Tobacco, Cigars and Cigarettes. For statistical purposes a factory is defined as an industrial establishment in which four or more hands are employed, or in which power other than hand is used.

6. FACTORIES AND EMPLOYMENT - STATES, 1936-37.

State	Number of Factories	Number employed (Average over whole year)		
		Males	Females	Total
New South Wales ..	9	1,144	2,070	3,214
Victoria ..	15	852	1,167	2,019
Queensland ..	6	(a)	(a)	(a)
South Australia ..	1	(a)	(a)	(a)
Western Australia ..	1	(a)	(a)	(a)
Tasmania ..	-	-	-	-
TOTAL:	32	(b)2,066	(b)3,381	(b)5,447

(a) Not available for publication. (b) Includes States marked (a).

The number of employees in the previous table 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.

7. FACTORIES CLASSIFIED ACCORDING TO HANDS EMPLOYED - AUSTRALIA, 1908 TO 1936-37.

Number of Persons Employed in each Factory	1908		1913		1920-21		1928-29		1936-37	
	Number of Factories	Number Employed	Number of Factories	Number Employed	Number of Factories	Number Employed	Number of Factories	Number Employed	Number of Factories	Number Employed
Under 4	-	-	1	3	2	5	1	1	1	1
4	-	-	6	24	3	12	1	4	4	16
5 to 10	13	85	7	48	10	77	3	18	3	22
11 to 20	6	98	6	73	7	95	6	85	8	120
21 to 50	3	92	6	155	8	263	3	79	4	99
51 to 100	4	275	2	150	3	205	2	144	3	259
Over 100	7	3,587	8	3,113	7	3,868	7	3,806	9	4,934
TOTAL:	33	4,137	36	3,566	40	4,525	23	4,137	32	5,451
Average number employed per Factory:	125		99		113		180		170	

Further details of employment in the industrial group - Tobacco, Cigars and Cigarettes - are furnished in the next three tables. In the first the employees have been classified according to the nature of their employment.

8. PERSONS EMPLOYED CLASSIFIED ACCORDING TO GRADE OF OCCUPATION - AUSTRALIA, 1908 TO 1936-37.

Grade of Occupation	1908	1913	1920-21	1928-29	1936-37
	No.	No.	No.	No.	No.
Working Proprietors ..	29	23	28	24	22
Managers and Overseers ..	98	115	119	115	174
Clerical Staff ..	92	108	167	180	228
Engine Drivers and Firemen ..	19	10	7	4	18
Workers, Skilled and Unskilled	3,887	3,289	4,183	3,769	4,976
Other (Carters and Messengers)	12	21	21	38	29
TOTAL:	4,137	3,566	4,525	4,130	5,447

Information collected from factories was extended in 1936-37 to include details of the number employed (excluding Working Proprietors) on the pay-day nearest to the 15th of each month.

9. PERSONS EMPLOYED ON PAY-DAY NEAREST TO THE 15TH OF EACH MONTH - AUSTRALIA, 1936-37.
(Working Proprietors Excluded)

Month	Males	Females	Total	Month	Males	Females	Total
	No.	No.	No.		No.	No.	No.
1936 -				1937 -			
July ..	2,007	3,349	5,356	January	2,063	3,325	5,388
August ..	2,039	3,350	5,389	February	2,026	3,383	5,409
September	2,049	3,371	5,420	March ..	2,051	3,397	5,448
October..	2,048	3,376	5,424	April ..	2,033	3,384	5,417
November	2,057	3,415	5,472	May ..	2,028	3,362	5,390
December	2,070	3,453	5,523	June ..	2,068	3,398	5,466

A classification of the number of employees according to age on or about the 15th June, 1937 is shown in the next table:-

10. PERSONS EMPLOYED CLASSIFIED ACCORDING TO AGE - JUNE, 1937.

Sex	Under 16 years	16 and under 21 years	Adults	Total
Males No.	35	264	1,769	2,068
Per Cent of Total %.	2	13	85	100
Females No.	39	1,829	1,530	3,398
Per Cent of Total %.	1	54	45	100
Persons No.	74	2,093	3,299	5,466
Per Cent of Total %.	1	38	61	100

Statistics of the power equipment of the factories included in this group are now obtained in more extensive detail than hitherto. On account of the change from average horsepower used to rated horsepower of engines installed, however, comparison with previous years cannot be made.

/ 11. POWER

11. POWER EMPLOYED TO DRIVE MACHINERY - AUSTRALIA, 1936-37.

Class of Engine	Rated H.P. Ordinarily in Use
Steam - Reciprocating ..	1,691
Turbine ..	-
Internal Combustion -	
Gas ..	-
Petrol or Other Light Oils ..	3
Heavy Oils ..	-
Water ..	-
Total Prime Movers ..	1,694
Motors driven by electricity -	
Purchased ..	2,599
Own Generation ..	2,521
Total Electricity ..	5,120
TOTAL POWER USED (a):	6,814

(a) Without Duplication.

Details of the quantities and values of the various items of power, fuel and light used in Tobacco Factories are shown in the following table:-

12. POWER, FUEL AND LIGHT, ETC. USED - AUSTRALIA, 1936-37.

Particulars	Unit of Quantity	Quantity	Value £.
Coal - Black	Ton	8,570	10,358
Brown	"	349	523
Coke	"	319	618
Wood	"	67	40
Fuel Oil	Gallon	84	4
Electricity	-	(a)	13,513
Gas	-	(a)	1,011
Other (Charcoal, etc.) ..	-	-	-
Water used	-	(a)	3,269
Lubricating Oil	-	(a)	602
TOTAL:		..	29,938

(a) Value only available.

Particulars of the book values of premises occupied and plant used in Tobacco Factories at the 30th June for each of the five years ended 1937 are shown in the next table. In addition, details of the values of additions and replacements made and depreciation allowed during the year 1936-37 are also shown. It should be noted that the amounts expended in Additions and Replacements refer to expenditure incurred by existing factories and do not include the cost of erecting and equipping new factories; these latter items, however, are included with the book values shown at 30th June. The amounts shown for Depreciation are those returned by factories. Changes in the number of factories operating affect comparison from year to year.

13. VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY - AUSTRALIA, 1936-37.

Particulars	Land and Buildings £.	Plant and Machinery £.
Additions and Replacements made during year (a)	83,988	64,928
Depreciation allowed during year (a) ..	18,494	54,185
Book Value (a) as at 30th June -		
1937	1,001,236	870,430
1936	936,521	726,713
1935	927,122	784,371
1934	916,971	658,850
1933	910,547	663,069

(a) See Note above.

The next table furnishes particulars of the quantities of Tobacco, Cigars, Cigarettes and Snuff imported and exported for each of the years indicated:-

14. IMPORTS AND EXPORTS OF TOBACCO, CIGARETTES AND SNUFF - AUSTRALIA,
1908 TO 1936-37.

Year	Tobacco		Cigars	Cigarettes	Snuff
	Manufactured	Unmanufactured			
<u>IMPORTS.</u>					
	lb.	lb.	lb.	lb.	lb.
1908	1,378,466	12,866,746	379,519	109,315	7,911
1913	1,902,435	15,805,442	433,279	167,026	5,177
1920-21	857,842	21,954,648	126,690	169,317	3,936
1928-29	1,070,251	21,137,672	108,692	1,019,514	3,439
1929-30	882,008	20,283,813	87,443	879,112	3,282
1930-31	330,545	22,393,045	18,218	189,617	2,327
1931-32	81,238	15,119,305	3,662	32,493	2,645
1932-33	53,340	14,631,705	4,455	31,861	2,739
1933-34	52,930	11,633,955	9,010	40,660	1,609
1934-35	58,562	17,041,057	9,614	57,126	2,087
1935-36	212,960	19,532,629	9,802	126,648	1,612
1936-37	555,637	20,710,865	10,206	134,694	1,909
<u>EXPORTS.</u>					
	lb.	lb.	lb.	lb.	lb.
1908	1,376,028	45,745	10,111	5,856	2
1913	1,106,907	630,444	11,158	12,853	-
1920-21	1,893,370	1,052,159	13,640	68,058	-
1928-29	2,378,170	15,717	3,485	50,526	-
1929-30	2,040,336	3,674	3,199	44,301	-
1930-31	1,604,094	25,469	1,635	28,591	-
1931-32	1,272,386	33,270	737	32,283	-
1932-33	1,061,853	258,900	686	27,849	-
1933-34	786,842	13,994	1,473	32,501	-
1934-35	788,744	4,222	1,943	34,435	-
1935-36	1,059,835	43	1,963	27,061	-
1936-37	1,180,261	311	2,532	22,759	-