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FACTORY STATISTICS : AUSTRALIA 1947-48

Preliminary figures of factory production for the year ended 30th June, 1948 have been issued by the Acting Commonwealth Statistician (Mr. S. R. Carver).

1. GENERAL: For statistical purposes a "factory" is defined as any factory, workshop or mill, where four or more persons are employed or power (other than hand) is used. The statistics which follow should be read in the light of this definition.

Preliminary totals of the principal statistics relating to the operations of Australian factories in 1947-48, disclose further increases over the peaks previously recorded in 1946-47.

Compared with the previous year, the number of factories increased by 2,607 or 7.5 per cent.; employment by 43,943 or 5.5 per cent.; the total amount of salaries and wages paid by £48.6 million or 20.5 per cent.; value of production by £78.6 million or 19.1 per cent. and value of output by £199.1 million or 19.7 per cent. Since 1938-39, factory employment has risen by 50.2 per cent. and value of output by 141.8 per cent.

2. SUMMARY OF FACTORY STATISTICS, (i) AUSTRALIA: A summary of the principal statistics of Australian factories is shown in the table below for the years 1944-45 to 1947-48, as compared with 1938-39:-

I. SUMMARY OF FACTORY STATISTICS : AUSTRALIA.

Particulars		1938-39	1944-45	1945-46	1946-47	1947-48 (e)	Percentage increase - 1947-48 on -	
							1938-39	1946-47
							%	%
Factories	No.	26,941	28,930	31,184	34,768	37,375	38.7	7.5
Persons employed (a)	No.	565,106	750,579	745,258	804,929	848,872	50.2	5.5
Salaries and Wages paid (b)	£'000	106,743	207,652	205,819	237,174	285,769	167.7	20.5
Value of Power, Fuel & Light, etc., used	£'000	15,700	26,833	27,037	31,020	37,095	136.3	19.6
Value of Materials used (c)	£'000	281,303	496,889	488,287	569,144	683,583	143.0	20.1
Value of Production	£'000	203,417	362,283	352,324	410,862	489,259	140.6	19.1
Value of Output	£'000	500,420	886,005	867,648	1,011,026	1,210,137	141.8	19.7
Value of Land and Buildings (d)	£'000	130,920	182,580	186,939	193,152	211,099	61.2	9.3
Value of Plant and Machinery (d)	£'000	143,662	183,917	185,545	189,693	213,719	48.8	12.7

a) Average over whole year; includes Working Proprietors.

b) Excludes amounts drawn by Working Proprietors.

c) Includes also containers, packing etc., tools replaced and repairs to plant.

d) Includes estimated value of rented premises and machinery.

e) Subject to revision.

(ii) STATES: The following table shows the principal statistics of factories in each State for the year 1947-48.

II. SUMMARY OF FACTORY STATISTICS : STATES, 1947-48
(Subject to revision)

Particulars		N.S.W.	Vic.	Q'ld.	S.A.	W.A.	Tas.	Total
Factories	No.	15,194	11,661	3,642	2,865	2,788	1,225	37,375
Persons employed (a)	No.	363,365	278,267	76,754	73,346	35,967	21,173	848,872
Salaries and Wages paid (b)	£'000	125,346	93,806	24,163	24,853	10,736	6,865	285,769
Value of Power, Fuel and Light, etc., used	£'000	17,314	9,013	3,186	4,281	2,285	1,016	37,095
Value of Materials used (c)	£'000	292,557	209,795	79,129	61,620	21,957	15,525	683,583
Value of Production	£'000	218,611	158,699	42,929	38,592	18,384	12,244	489,459
Value of Output	£'000	528,482	377,507	125,244	104,493	45,626	28,785	1,210,137
Value of Land and Buildings (d)	£'000	91,860	66,184	16,610	20,691	9,483	6,279	211,099
Value of Plant and Machinery (d)	£'000	86,714	65,829	21,831	20,239	9,190	9,916	213,719

- (a) Average over whole year; includes working proprietors.
 (b) Excludes amounts drawn by working proprietors.
 (c) Includes also containers, packing etc., tools replaced and repairs to plant.
 (d) Includes estimated value of rented premises and machinery.

3. EMPLOYMENT IN FACTORIES: Factory employment in Australia reached its highest war-time level in 1943-44 when the number recorded was 766,506 persons. The numbers employed declined to 750,579 in 1944-45 and 745,258 in 1945-46, but have since risen to record levels of 804,929 in 1946-47 and 848,872 in 1947-48. Particulars of the numbers employed and the fluctuations in employment (numerical and expressed as percentages) are given in the following table in respect of each sex and total persons for each year since 1938-39:-

III. EMPLOYMENT IN FACTORIES (a) : AUSTRALIA.
(Including Working Proprietors)

Year	MALES			FEMALES			PERSONS		
	Number Employed	Increase (+) or Decrease (-) on previous year		Number Employed	Increase (+) or Decrease (-) on previous year		Number Employed	Increase (+) or Decrease (-) on previous year	
		Numerical	Rate per cent.		Numerical	Rate per cent.		Numerical	Rate per cent.
	No.	No.	%	No.	No.	%	No.	No.	%
1938-39	412,591	+ 3,989	+ 0.98	152,515	+ 1,957	+ 1.30	565,106	+ 5,946	+ 1.06
1939-40	426,934	+14,343	+ 3.48	160,729	+ 8,214	+ 5.39	587,663	+22,557	+ 3.99
1940-41	473,058	+46,124	+10.80	177,015	+16,286	+10.13	650,073	+62,410	+10.62
1941-42	524,383	+51,325	+10.85	200,959	+23,944	+13.53	725,342	+75,269	+11.58
1942-43	535,570	+11,187	+ 2.13	223,475	+22,516	+11.20	759,045	+33,703	+ 4.65
1943-44	539,141	+ 3,571	+ 0.67	227,365	+ 3,890	+ 1.74	766,506	+ 7,461	+ 0.98
1944-45	535,893	- 3,248	- 0.60	214,686	-12,679	- 5.58	750,579	-15,927	- 2.08
1945-46	548,888	+12,995	+ 2.42	196,370	-18,316	- 8.53	745,258	- 5,321	- 0.71
1946-47	604,300	+55,412	+10.1	200,629	+ 4,259	+ 2.2	804,929	+59,671	+ 8.0
1947-48(b)	640,921	+36,621	+ 6.1	207,951	+ 7,322	+ 3.7	848,872	+43,943	+ 5.5

- (a) Average number employed over the whole year.
 (b) Subject to revision.

4. **SALARIES AND WAGES PAID:** Salaries and wages paid in factories in Australia during 1947-48 reached the record figure of £285.8 million, representing an average of £348.95 per employee. The figures exclude amounts drawn by Working Proprietors. A comparison with previous years is given in the following table:-

IV. SALARIES AND WAGES PAID - AUSTRALIA
(Excluding Amounts drawn by Working Proprietors.)

Year	Total Amount Paid			Average per Employee		
	Males	Females	Total	Males	Females	Total
	£'000	£'000	£'000	£.	£.	£.
1938-39	91,049	15,694	106,743	231.84	103.92	196.31
1944-45	171,585	36,067	207,652	333.03	169.44	285.21
1945-46	172,376	33,443	205,819	326.99	171.88	285.17
1946-47	199,772	37,402	237,174	345.18	188.36	305.12
1947-48 (a)	241,735	44,034	285,769	394.25	214.00	348.95

(a) Subject to revision.

5. **FUEL, ETC., USED:** Details of the quantity and value of power, fuel and light, excluding lubricating oil and water, used by factories are given in the following table for the years 1938-39 and 1944-45 to 1947-48:-

V. POWER, FUEL AND LIGHT USED IN FACTORIES - AUSTRALIA
(Excluding Lubricating Oil and Water)

Year	Coal		Coke	Wood	Fuel, Oil.	Elec- tricity	Gas	Other incl. Tar Fuel	Total
	Black	Brown (a)							
Q U A N T I T Y									
	1'000 Tons	1'000 Tons	1'000 Tons	1'000 Tons	1'000 Gals.				
1938-39	4,154	2,848	1,492	1,402	53,811	(b)	(b)	(b)	(b)
1944-45	5,090	4,514	1,773	1,567	53,887	(b)	(b)	(b)	(b)
1945-46	4,927	4,644	1,574	1,667	56,160	(b)	(b)	(b)	(b)
1946-47	5,513	4,950	1,892	1,936	82,434	(b)	(b)	(b)	(b)
1947-48 (a)	5,971	5,367	2,037	1,840	98,415	(b)	(b)	(b)	(b)
V A L U E									
	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000	£'000
1938-39	4,680	560	1,704	802	1,334	4,230	814	220	14,344
1944-45	7,872	1,016	2,562	1,451	2,686	6,849	1,298	543	24,677
1945-46	7,714	1,165	3,020	1,618	2,649	6,203	1,151	662	24,882
1946-47	8,504	1,441	3,566	2,060	3,484	7,600	1,286	750	28,691
1947-48 (a)	10,431	1,953	4,517	2,080	4,455	8,859	1,436	802	34,533

(a) Includes Brown Coal Briquettes. (b) Value only collected. (c) Subject to revision.

The figures given for coal in the table above are restricted to the quantities used by factories as fuel and do not include coal used as a material for the production of gas, coke, briquettes, etc.

6. POWER EMPLOYED TO DRIVE MACHINERY: (1) Other than Central Electric Stations: In the following table particulars are given of the rated horsepower of engines employed in all factories with the exception of Central Electric Stations during the three years 1945-46 to 1947-48, compared with 1938-39, distinguishing between that ordinarily in use and that held in reserve or idle.

Since 1938-39 there has been a slight increase in the rated horse-power of prime movers used in Australian industry, while the horse-power of motors driven by purchased electricity has risen from 1,017,911 in 1938-39 to 2,075,417 in 1947-48, an increase of 103.9 per cent.

VI. POWER EMPLOYED TO DRIVE MACHINERY : AUSTRALIA
(Excluding Central Electric Stations.)

Particulars	Rated Horse-Power of Engines			
	1938-39	1945-46	1946-47	1947-48(a)
<u>Ordinarily in Use:</u>	H.P.	H.P.	H.P.	H.P.
Steam Engines - Reciprocating	268,409	236,378	234,752	235,443
Turbine	84,149	117,736	110,292	110,707
Internal Combustion Engines -				
Gas	32,914	20,481	18,522	17,177
Light Oils	17,970	23,876	29,283	33,656
Heavy Oils	55,800	56,189	58,262	63,728
Water	1,616	1,737	1,264	1,428
<u>Total Prime Movers:</u>	460,856	456,397	453,075	462,159
Motors driven by Electricity -				
Purchased	1,017,911	1,755,036	1,912,926	2,075,417
Own Generation	179,889	226,692	182,112	188,921
<u>Total Electric Motors:</u>	1,197,800	1,981,728	2,095,038	2,264,338
<u>TOTAL RATED HORSE-POWER (b):</u>	1,478,769	2,211,433	2,366,001	2,537,576
<u>In Reserve or Idle:</u>				
<u>TOTAL RATED HORSE-POWER:</u>	213,585	286,505	303,639	315,366

(a) Subject to revision. (b) Without duplication.

(11) Central Electric Stations: Particulars of the rated horsepower of total engines installed in Central Electric Stations are shown in the following table:

VII. CENTRAL ELECTRIC STATIONS.

RATED HORSE-POWER OF TOTAL ENGINES INSTALLED : AUSTRALIA

Year	H.P.
1938-39	2,204,619
1944-45	2,819,469
1945-46	2,843,896
1946-47	2,987,639
1947-48(a)	2,947,500

(a) Preliminary.

7. RATIO OF WAGES AND VALUE OF MATERIALS TO VALUE OF OUTPUT: The annual census of factory production embraces only selected items of statistics and does not measure profit or loss resulting from the operations of factories in Australia. The principal items collected refer to employment, wages and salaries paid, certain costs covering materials, etc., used, power, fuel, light, etc., and value of output. Information is not obtained as to total capital employed but the book value of land, buildings, plant and machinery used is recorded.

In addition to wages paid and value of materials and fuel etc. used, gross value of production includes items such as drawings by working proprietors, maintenance of buildings, depreciation, workers' compensation insurance, other insurances, pay-roll tax, income tax, advertising, bad debts, and other sundry charges.

The following table indicates the movement in various recorded items for the years 1938-39, 1946-47 and 1947-48:-

VIII. VALUE OF OUTPUT AND COSTS OF PRODUCTION - AUSTRALIA.

Item	1938-39		1946-47		1947-48(b)	
	Value	Percentage on total value	Value	Percentage on total value	Value	Percentage on total value
Salaries and Wages (a)	£1,000	%	£1,000	%	£1,000	%
Power, Fuel, Light, etc., Used	106,743	21.33	237,174	23.46	289,769	23.61
Materials used	15,700	3.14	31,020	3.07	37,095	3.07
All other Expenditure, incl. Taxation, Interest, Depreciation and Profit	281,303	56.21	569,144	56.29	683,583	56.49
	26,674	12.32	173,688	17.18	203,690	16.83
Gross Value of Output:	500,420	100.00	1,011,026	100.00	1,210,137	100.00

(a) Excludes amounts drawn by Working Proprietors.

(b) Subject to revision.

8. VALUE OF OUTPUT: The gross value of the output of factories, which represents the value at the factory of all commodities produced, amounted to £1,210.1 million in 1947-48 compared with £1,011.0 million in 1946-47 and £500.4 million in the pre-war year, 1938-39.

9. VALUE OF PRODUCTION: The value of output, however, does not constitute a true measure of value of factory production, largely because of the duplication between industries. A measure of value of work done in factories is obtained by deducting from the value of output the costs of materials, containers, power, fuel, light, oil, water, tools replaced, and repairs to plant. The value of production thus obtained represents the value added in the process of manufacture within the factories. It is from this value that such items as wages, interest, depreciation, profits, insurance, advertising and other sundry charges are met. The value of production for the year 1947-48 was a record at £289.5 million, which represents an increase of £78.6 million or 19.1 per cent. on the value for 1946-47, and an increase of £123.2 million or 33.6 per cent. on the previous peak figure attained in 1943-44. The increase since the year 1938-39 amounted to £286.0 million or 60.6 per cent.

The value of factory production per person engaged (including working proprietors) was £577 in 1947-48 compared with £510 in 1946-47 and £360 in 1938-39.

10. DEPRECIATION: The amount of depreciation allowed on land and buildings during 1947-48 was stated to be £2.54 million or 1.20 per cent. of the total book value of land and buildings, and the stated amount allowed on plant and machinery was £17.04 million or 7.97 per cent. of the total book value of plant and machinery.

11. VALUE OF LAND AND BUILDINGS AND PLANT AND MACHINERY: The value recorded for land and buildings at 30th June, 1948 was £211.1 million, or £7.9 million more than at 30th June, 1947 and £80.2 million more than at 30th June, 1939. The value of plant and machinery recorded was £213.7 million or £24.0 million more than at 30th June, 1947 and £70.1 million more than at 30th June, 1939. The figures shown for each of these items are the book values, and include the estimated value of rented premises and plant.

Particulars of the recorded values of land and buildings and plant and machinery in use by factories in Australia as at 30th June, 1939 and 1945 to 1948, and the value of additions and replacements made and depreciation allowed during each year are shown in the following table. It should be noted that the amounts shown are those recorded by factories which were operating during each year and changes in their number, as well as other factors, affect comparison from year to year.

IX. VALUE OF LAND AND BUILDINGS, PLANT AND MACHINERY : AUSTRALIA.

Year ended 30th June	Book Values as at end of year (a)		Additions and Replace- ments during year.		Depreciation allowed during year	
	Land and Buildings	Plant and Machinery	Land and Buildings	Plant and Machinery	Land and Buildings	Plant and Machinery
	£'000	£'000	£'000	£'000	£'000	£'000
1939	130,920	143,662	5,578	17,761	1,911	8,736
1945	182,580	183,917	5,020	17,760	2,278	15,808
1946	186,939	185,545	6,245	21,766	2,537	14,597
1947	193,152	189,693	7,791	27,110	2,727	15,978
1948(b)	211,099	213,719	9,732	35,531	2,537	17,039

(a) Includes estimated value of rented premises and machinery.
 (b) Subject to revision.

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10TH JUNE, 1949.