



AUSTRALIAN BUREAU OF STATISTICS

Canberra



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PRODUCTION STATISTICS, AUSTRALIA, JULY 1988, PRELIMINARY

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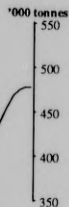
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INTRODUCTION

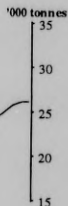
This publication presents preliminary monthly estimates for selected major indicators of manufacturing production for Australia.

PRODUCTION STATISTICS, AUSTRALIA : TRENDS

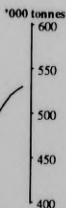
1. Pig iron



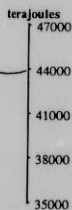
4. Tinplate



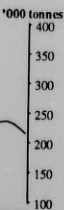
2. Raw steel



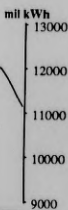
5. Gas



3. Blooms and slabs

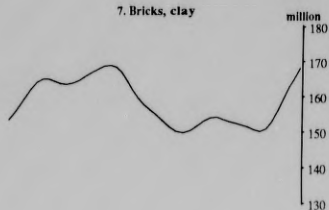


6. Electricity

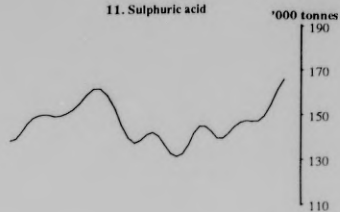


PRODUCTION STATISTICS, AUSTRALIA : TRENDS

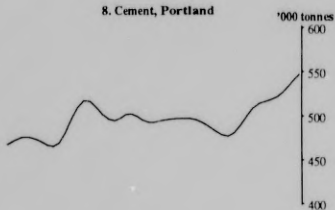
7. Bricks, clay



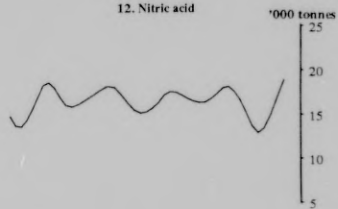
11. Sulphuric acid



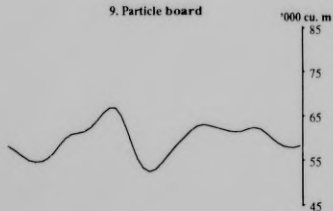
8. Cement, Portland



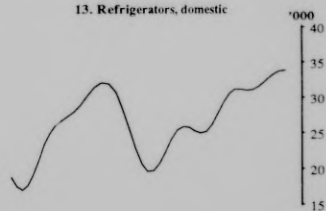
12. Nitric acid



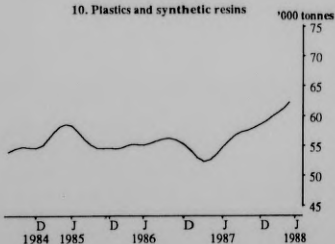
9. Particle board



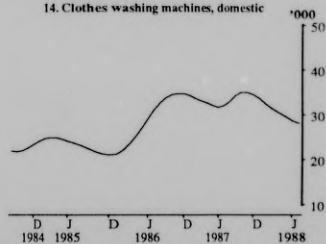
13. Refrigerators, domestic



10. Plastics and synthetic resins



14. Clothes washing machines, domestic

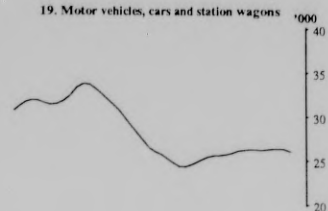


PRODUCTION STATISTICS, AUSTRALIA : TRENDS

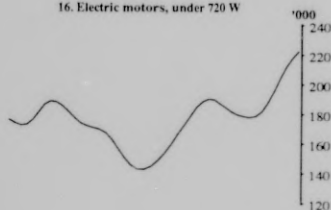
15. Television sets



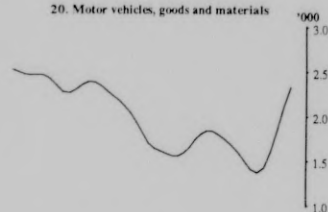
19. Motor vehicles, cars and station wagons



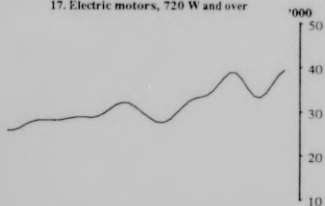
16. Electric motors, under 720 W



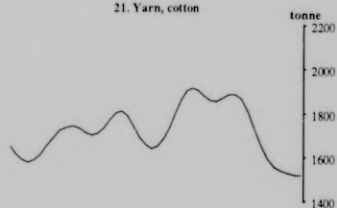
20. Motor vehicles, goods and materials



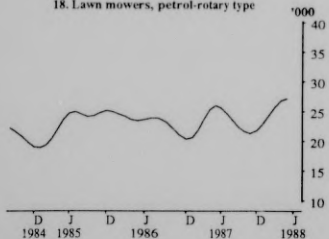
17. Electric motors, 720 W and over



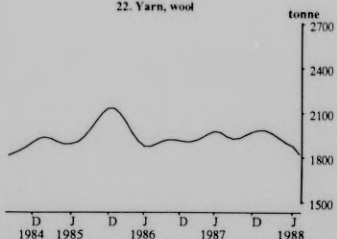
21. Yarn, cotton



18. Lawn mowers, petrol-rotary type

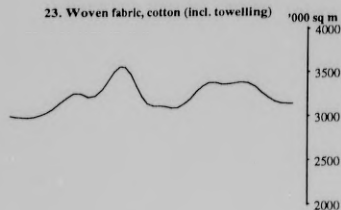


22. Yarn, wool

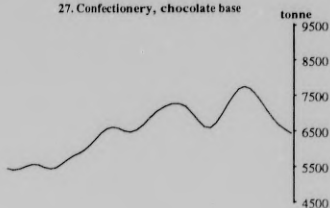


PRODUCTION STATISTICS, AUSTRALIA : TRENDS

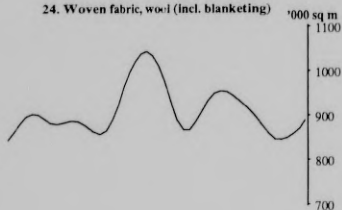
23. Woven fabric, cotton (incl. towelling)



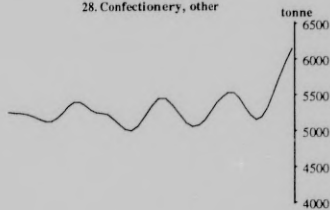
27. Confectionery, chocolate base



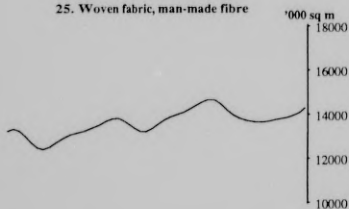
24. Woven fabric, wool (incl. blanketing)



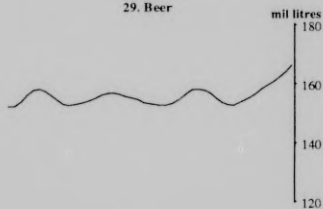
28. Confectionery, other



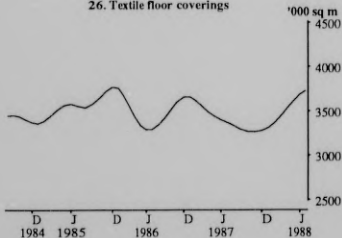
25. Woven fabric, man-made fibre



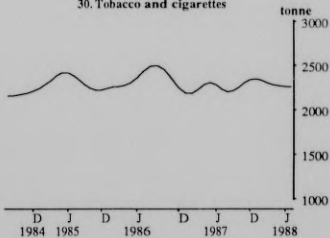
29. Beer



26. Textile floor coverings



30. Tobacco and cigarettes



PRODUCTION STATISTICS, AUSTRALIA, JULY 1988, PRELIMINARY

No. Item	Series	Unit	1987		1988						Percentage changes between-		
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	June 88 and July 88	July 87 and July 88
1. Pig iron	Orig. '000 tonnes		417	389	365	449	518	447	466	469	493	5.1	0.0
	S. adj. "		429	388	359	468	500	473	461	468	469	0.3	0.1
	Trend r "		427	418	422	436	455	468	475	478	478	0.0	-0.6
2. Raw steel(a)	Orig. "		479	445	406	475	589	495	484	533	n.y.a	n.y.a	n.y.a
	S. adj. "		496	453	414	510	584	529	474	529	n.y.a	n.y.a	n.y.a
	Trend r "		487	481	484	495	509	519	525	530	n.y.a	n.y.a	n.y.a
3. Blooms and slabs(b)	Orig. "		192	202	192	207	250	239	231	205	209	2.0	-11.8
	S. adj. "		198	199	188	238	254	253	238	204	196	-4.0	-11.8
	Trend r "		203	207	216	227	234	236	231	224	215	-4.0	-6.9
4. Tinplate	Orig. "		26.5	24.9	24.0	22.2	27.5	25.3	23.2	25.2	25.2	-0.2	8.4
	S. adj. "		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	Trend r "		25.2	24.6	24.4	24.7	25.3	25.7	26.0	26.1	26.1	0.0	3.9
5. Gas(c)	Orig. terajoules		39,857	37,958	35,567	37,696	42,214	38,592	46,948	r 50,610	54,780	8.2	-3.4
	S. adj. "		43,346	44,252	44,345	43,440	44,379	42,695	43,422	r 44,303	44,128	-0.4	-2.7
	Trend r "		44,444	44,106	43,843	43,721	43,675	43,659	43,686	43,755	43,869	0.3	-1.9
6. Electricity	Orig. mil kWh		10,870	11,021	11,510	11,493	11,436	11,723	11,771	11,986	12,634	5.4	0.5
	S. adj. "		11,552	11,670	12,354	12,268	11,491	12,544	11,442	11,073	11,033	-0.4	-1.9
	Trend r "		11,643	11,862	12,023	12,070	11,991	11,817	11,598	11,372	11,140	-2.0	1.0
7. Bricks, clay	Orig. million		150	145	89	148	184	148	189	r 173	171	-1.2	6.2
	S. adj. "		151	162	138	150	161	153	175	r 161	165	2.1	12.2
	Trend r "		151	150	151	153	156	159	163	165	168	1.7	9.8
8. Cement, Portland	Orig. '000 tonnes		525	532	362	509	545	499	537	r 586	556	-5.1	10.1
	S. adj. "		504	525	530	507	519	514	521	r 584	532	-8.8	11.6
	Trend r "		509	514	517	518	521	527	534	541	547	1.2	14.6
9. Particle board	Orig. '000 cu m		62.3	52.7	26.2	66.4	73.4	53.3	58.1	69.3	58.5	-15.6	-10.1
	S. adj. "		58.2	63.4	63.4	60.5	58.5	54.7	55.2	62.5	58.8	-5.9	-1.1
	Trend r "		62.4	62.0	61.0	59.8	58.8	58.1	57.8	57.8	58.2	0.6	-5.5
10. Plastics and synthetic resins(d)	Orig. '000 tonnes		58.2	59.3	49.8	59.0	63.4	61.0	59.7	63.5	64.8	2.0	5.3
	S. adj. "		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	Trend r "		58.0	58.6	59.2	59.9	60.5	61.3	62.3	(j)	(j)	n.a.	n.a.
11. Sulphuric acid	Orig. '000 tonnes		146	182	121	166	184	179	169	174	138	-20.7	29.0
	S. adj. "		144	162	106	161	161	167	157	178	165	-7.5	26.9
	Trend r "		147	147	147	149	154	161	166	(j)	(j)	n.a.	n.a.
12. Nitric acid	Orig. "		11.9	16.9	9.9	11.9	15.0	10.8	21.4	21.4	21.0	-2.1	-12.2
	S. adj. "		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
	Trend r "		15.3	13.7	12.9	13.4	14.9	16.9	18.9	(j)	(j)	n.a.	n.a.
13. Refrigerators, domestic	Orig. '000		32.5	28.9	19.3	34.8	30.6	30.1	35.8	34.9	30.2	-13.4	-8.8
	S. adj. "		29.3	30.3	32.3	32.1	31.7	34.0	37.1	33.5	30.5	-8.9	3.0
	Trend r "		31.0	31.1	31.5	32.3	33.1	33.6	33.8	(j)	(j)	n.a.	n.a.
14. Clothes washing machines, domestic	Orig. "		42.9	34.8	11.7	37.0	37.7	27.3	31.0	28.3	29.6	4.6	-20.5
	S. adj. "		42.0	37.8	23.0	35.2	31.8	31.8	31.2	26.0	26.6	2.6	-15.7
	Trend r "		35.0	34.5	33.6	32.5	31.3	30.4	29.5	28.6	28.0	-2.0	-12.4
15. Television sets(e)	Orig. "		18.6	r 13.0	3.0	12.9	13.8	10.4	12.9	r 12.6	11.1	-11.9	-49.4
	S. adj. "		18.1	r 14.5	8.7	12.4	11.7	11.9	12.1	r 11.9	9.8	-18.3	-44.8
	Trend r "		15.4	14.0	12.7	11.9	11.6	11.5	11.5	11.4	11.3	-0.3	-37.8
Electric motors- 16. Under 720 W	Orig. '000		201	190	84	184	197	168	213	228	217	-4.6	12.6
	S. adj. "		176	185	177	185	183	200	238	221	207	-6.4	19.8
	Trend r "		178	178	181	187	195	204	212	218	222	2.1	20.6

For footnotes see end of table

PRODUCTION STATISTICS, AUSTRALIA, JULY 1988, PRELIMINARY

No. Item	Series	Unit	1987		1988						Percentage changes between		
			Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	July	June 88 and July 88	July 87 and July 88
Electric motors- 17. 720 W and over	Orig. '000		39.8	40.9	13.3	27.4	41.2	31.6	48.7	40.6	34.8	-14.3	-18.3
	S. adj. "		33.0	36.2	29.6	30.5	37.1	37.5	48.1	39.1	34.2	-12.6	-11.3
	Trend r "		35.2	33.5	33.1	34.2	36.2	38.1	39.5	(j)	(j)	n.a.	n.a.
18. Lawn mowers petrol-rotary type	Orig. "		34.1	25.3	13.3	24.0	21.7	12.4	12.9	15.8	19.5	24.0	2.4
	S. adj. "		21.1	21.1	19.3	24.6	27.3	27.5	31.4	23.6	24.5	3.8	9.6
	Trend r "		21.3	21.7	22.8	24.3	25.7	26.8	27.2	(j)	(j)	n.a.	n.a.
Motor vehicles- 19. Cars and station wagons	Orig. "		29.8	25.1	6.9	25.2	31.3	24.0	r 28.5	28.3	26.0	-8.2	-16.6
	S. adj. "		27.2	27.3	23.2	25.9	27.3	28.0	r 25.6	26.1	22.9	-12.2	-10.2
	Trend r "		26.2	26.2	26.2	26.3	26.3	26.3	26.0	(j)	(j)	n.a.	n.a.
20. Vehicles for goods and materials(f)	Orig. "		1.39	1.24	0.28	1.93	r 2.56	r 1.73	2.88	r 2.70	2.81	3.9	46.1
	S. adj. "		1.41	1.49	0.73	1.74	r 2.04	r 2.07	2.56	r 2.40	2.58	7.6	59.9
	Trend r "		1.41	1.37	1.43	1.60	1.85	2.11	2.33	(j)	(j)	n.a.	n.a.
Yarn(g)- 21. Cotton	Orig. tonne		1,691	1,579	430	1,649	1,663	1,535	1,688	1,773	1,698	-4.2	-26.0
	S. adj. "		1,744	1,800	1,617	1,577	1,476	1,541	1,531	1,636	1,437	-12.1	-23.1
	Trend r "		1,812	1,730	1,652	1,592	1,555	1,537	1,527	1,518	1,519	0.0	-18.7
22. Wool	Orig. "		2,079	r 1,399	1,028	2,114	2,076	1,659	2,090	r 2,105	1,941	-7.8	-17.1
	S. adj. "		1,945	r 1,598	2,519	1,986	1,727	1,907	1,922	r 1,999	1,769	-11.5	-9.8
	Trend r "		1,949	1,969	1,982	1,979	1,959	1,928	1,897	1,874	1,822	-2.8	-7.4
Woven fabric(g)- 23. Cotton (incl. towel)ing	Orig. '000 sq m		3,387	2,582	781	3,324	3,465	3,324	3,305	3,439	3,866	12.4	-12.5
	S. adj. "		3,434	3,371	2,818	3,298	3,078	3,358	3,016	3,076	3,169	3.0	-10.0
	Trend r "		3,338	3,269	3,207	3,165	3,142	3,139	3,138	(j)	(j)	n.a.	n.a.
24. Wool (incl. blanketing)	Orig. "		966	775	448	994	1,069	772	833	861	916	6.4	-0.5
	S. adj. "		871	929	769	885	868	840	817	857	944	10.2	8.5
	Trend r "		900	878	858	845	844	849	858	869	888	2.2	-6.7
25. Man-made fibre	Orig. "		14,312	13,063	3,673	15,279	15,394	13,159	14,792	16,171	15,662	-3.1	-1.0
	S. adj. "		13,382	15,470	12,454	14,096	13,619	13,723	14,153	14,025	14,328	2.2	3.3
	Trend r "		13,653	13,646	13,676	13,739	13,796	13,847	13,950	14,056	14,283	1.6	0.5
26. Textile floor coverings	Orig. '000 sq m		3,726	2,950	1,147	3,497	3,682	2,987	3,921	3,942	4,033	2.3	2.4
	S. adj. "		3,358	3,092	3,307	3,470	3,391	3,516	3,616	3,780	3,682	-2.6	7.3
	Trend r "		3,260	3,275	3,311	3,373	3,449	3,534	3,612	3,681	3,724	1.2	10.5
Confectionery- 27. Chocolate base	Orig. tonne		7,047	5,782	4,250	7,906	8,970	6,077	8,054	7,229	7,428	2.8	-6.8
	S. adj. "		7,228	7,466	8,393	7,246	7,191	5,732	7,197	6,676	6,482	-2.9	-0.3
	Trend r "		7,744	7,683	7,528	7,310	7,067	6,838	6,661	6,532	6,424	-1.7	-7.7
28. Other	Orig. "		6,049	4,945	2,780	4,535	6,119	4,744	5,555	5,674	6,675	17.6	8.0
	S. adj. "		5,304	5,287	5,574	4,155	5,382	5,977	5,840	5,714	6,359	11.3	11.3
	Trend r "		5,328	5,215	5,155	5,192	5,325	5,532	5,758	5,966	6,147	3.0	12.3
29. Beer(h)	Orig. mil litres		172	215	154	159	161	152	149	140	148	6.2	0.7
	S. adj. "		150	164	161	154	158	161	161	164	170	4.2	9.4
	Trend r "		154	155	157	158	160	161	162	164	166	1.3	8.2
30. Tobacco and cigarettes(i)	Orig. tonne		2,654	2,234	1,063	2,356	2,615	2,160	2,666	2,563	2,379	-7.2	-7.8
	S. adj. "		2,392	2,625	2,271	2,177	2,258	2,367	2,276	2,327	2,154	-7.4	1.1
	Trend r "		2,299	2,334	2,343	2,329	2,303	2,280	2,269	2,257	2,260	0.1	1.3

(a) Includes continuous cast billets. (b) From rolling and forging of iron and steel (primary mills output). (c) Available for issue through mains. Includes natural gas. (d) For moulding, extrusion laminating and calendering only. (e) Excludes combination with radio etc. (f) Includes utilities, panel vans and prime movers for semi-trailers. (g) Includes mixture predominantly of the fibre named. (h) Includes ale and stout. Excludes beverages with alcohol content of less than 1.15 percent. (i) Source: Australian Customs Service. (j) See paragraph 9 of Explanatory Notes.

EXPLANATORY NOTES

Introduction

Preliminary estimates for July 1988 for certain major indicators of production are shown in the table on page 5. Production statistics for July for an extensive range of commodities will be published later in the series of eight *Production Bulletins* (8357.0 to 8364.0).

Scope and coverage

2. Production statistics are not collected from single establishment manufacturing enterprises with fewer than four persons employed or from establishments predominantly engaged in non-manufacturing activities but which may carry out in a minor way some manufacturing. However, in general the contribution of these small producers to statistical aggregates is only marginal and data contained in this publication provide reliable information for the evaluation of movements in commodity production.

Comparability with other estimates

3. The ABS publishes quarterly estimates of constant price manufacturing production in the publication *Quarterly Indexes of Manufacturing Production, Australia* (8219.0). These estimates are shown as index numbers and are derived mainly from estimates of manufacturers' sales and stocks.

4. The production statistics published in the series of eight *Production Bulletins* (8357.0 to 8364.0) referred to in paragraph 1 account, in total, for less than half of the output of the manufacturing sector, so differences may occur between the general tendency (if there is one) in these items and changes in the quarterly indexes of manufacturing production. The comment applies with still greater force to the preliminary estimates for the major indicators of production shown below.

Seasonally adjusted and trend estimates

5. Seasonally adjusted statistics are shown for all but three of the data items contained in this publication. In the seasonal adjustment, account has been taken not only of normal seasonal factors, but also of 'working day' effects (arising from the varying numbers of Sundays, Mondays, Tuesdays, etc. in the month) and the influence of Easter and Australia Day which may, in successive years, affect figures for different months. The seasonally adjusted figures have been revised following annual reanalysis. Details of the methods used in seasonally adjusting these series are available on request.

6. Seasonal adjustment procedures do not aim to remove the irregular or non-seasonal influences which may be present in any particular month, such as the effect of strikes, holiday shutdowns or other factors which vary with the prevailing demand for products. Irregular influences that are highly volatile can make it difficult to interpret the movement of the series even after seasonal adjustment.

7. The smoothing of seasonally adjusted series to create trend estimates is a means of reducing the impact of the irregular component of the series. The trend estimates have been derived by applying a 13-term Henderson weighted moving average to the seasonally adjusted series.

8. While this smoothing technique enables estimates of trend to be produced for the latest month, it does result in revisions to the estimates for the most recent months as data for subsequent months become available. Generally subsequent revisions become smaller and after 3 months have little impact on the series. There will also be revisions as a result of revisions to the original estimates and annual reviews of seasonal and 'working day' factors.

9. Because of the highly irregular nature of some production series it is not possible to discern with reasonable confidence the current direction of the trend at the end of these series. For such highly irregular series the ABS does not provide the last two trend estimates.

10. Users may wish to refer to the ABS Information Papers *A Guide to Smoothing Time Series — Estimates of Trend* (1316.0) and *Time Series Decomposition — An Overview* (1317.0) for more detailed information on smoothing of seasonally adjusted time series data.

Related publications

11. Current publications produced by the ABS are listed in the *Catalogue of Publications, Australia* (1101.0). The ABS also issues, on Tuesdays and Fridays, a *Publications Advice* (1105.0) which lists publications to be released in the next few days. The Catalogue and Publications Advice are available from any ABS office.

Symbols and other usages

r figure or series revised since previous issue
n.a. not available
n.y.a. not yet available

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