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PRODUCTION STATISTICS, AUSTRALIA, SEPTEMBER 1990, PRELIMINARY

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NOTES

This publication presents preliminary monthly estimates for selected major indicators of manufacturing production for Australia. The statistics are collected from all the relevant manufacturing establishments other than single establishment manufacturing enterprises with fewer than four persons employed and are part of a much broader range of items published monthly and quarterly. For details of these see "Related publications", in the Explanatory Notes, which are published at the back of this publication.

IAN CASTLES
Australian Statistician

PRODUCTION STATISTICS, AUSTRALIA: TRENDS

1. BASIC IRON

'000 tonnes



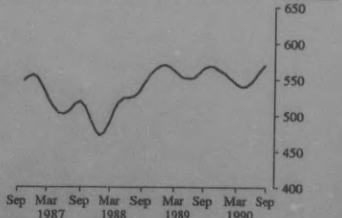
3. BLOOMS AND SLABS

'000 tonnes



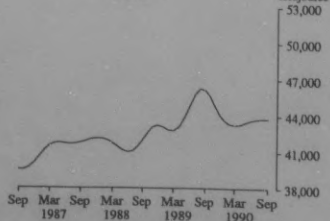
2. IRON AND STEEL IN PRIMARY FORMS

'000 tonnes



4. GAS

terajoules



PRODUCTION STATISTICS, AUSTRALIA : TRENDS

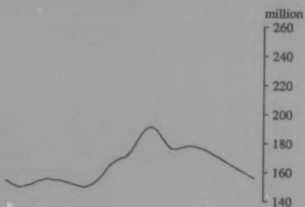
5. ELECTRICITY



11. REFRIGERATORS, DOMESTIC(a)



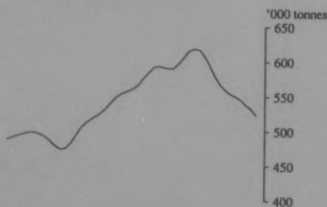
6. BRICKS, CLAY



12. CLOTHES WASHING MACHINES, DOMESTIC



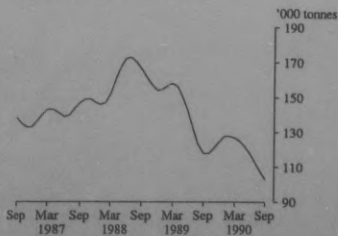
7. CEMENT, PORTLAND



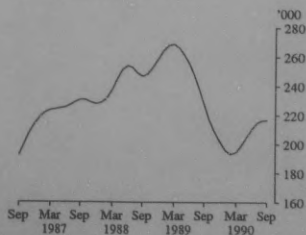
13. TELEVISION SETS



10. SULPHURIC ACID; OLEUM



14. ELECTRIC MOTORS



(a) Trend estimates are not available for the last two periods

PRODUCTION STATISTICS, AUSTRALIA : TRENDS

15. LAWN MOWERS, PETROL-ROTARY TYPE(a)



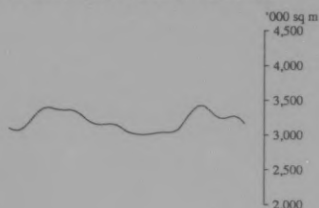
19. YARN, WOOL



16. MOTOR VEHICLES (CARS AND STATION WAGONS)(a)



20. WOVEN FABRIC, COTTON (INCL. TOWELLING)(a)



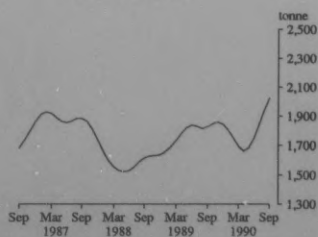
17. MOTOR VEHICLES FOR GOODS AND MATERIALS(a)



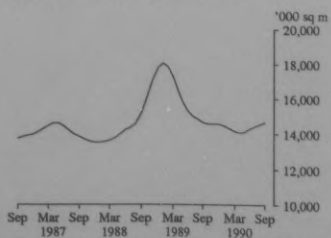
21. WOVEN FABRIC, WOOL (INCL. BLANKETING)



18. YARN, COTTON



22. WOVEN FABRIC, MAN-MADE FIBRE

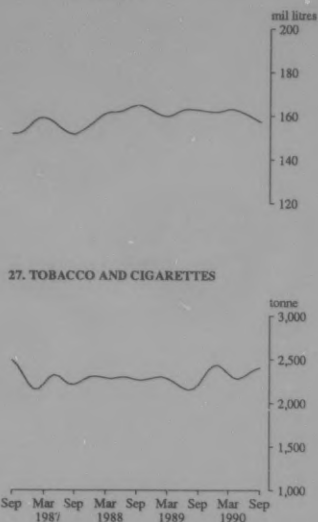


PRODUCTION STATISTICS, AUSTRALIA : TRENDS

23. TEXTILE FLOOR COVERINGS



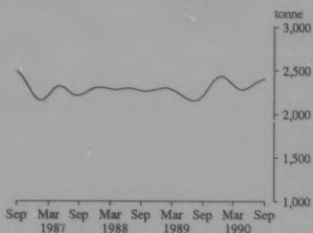
26. BEER



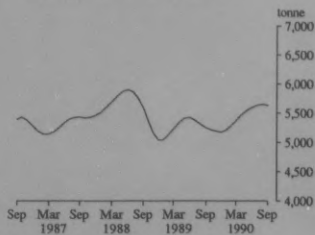
24. CONFECTIONERY, CHOCOLATE BASED



27. TOBACCO AND CIGARETTES



25. CONFECTIONERY, OTHER



PRODUCTION STATISTICS, AUSTRALIA, SEPTEMBER 1990, PRELIMINARY

1990											Percentage changes between		
No. Item	Series	Unit	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Aug. 90	Sept. 89 and Sept. 90
												Sept. 90	
1. Basic iron, spiegeleisen and sponge iron	Orig. '000 tonnes		534	440	484	498	518	476	515	551	526	-4.5	-3.7
	S. adj. "		526	490	481	513	520	487	494	533	520	-2.5	-2.9
	Trend r "		518	508	501	499	501	505	509	514	518	0.8	-2.0
2. Iron and steel in ingots or other primary forms(a)	Orig. "		576	451	538	555	532	r 530	r 553	r 626	601	-4.0	0.7
	S. adj. "		577	509	544	577	539	r 529	r 518	r 598	589	-1.6	3.3
	Trend r "		559	552	545	541	542	547	555	564	572	1.4	0.9
3. Blooms and slabs(b)	Orig. "		190	136	198	211	188	213	230	r 228	227	-0.4	-1.7
	S. adj. "		194	152	194	208	197	217	230	r 221	214	-3.3	-1.8
	Trend r "		187	185	188	196	205	213	219	223	223	0.0	3.8
4. Gas(c)	Orig. terajoules		36,785	35,536	39,347	39,117	47,051	r 51,446	r 51,916	r 52,722	45,839	-13.1	-3.5
	S. adj. "		44,112	42,616	42,474	43,332	44,137	r 44,840	r 41,893	r 44,721	43,423	-2.9	-3.5
	Trend r "		43,618	43,342	43,268	43,328	43,492	43,655	43,746	43,789	43,779	0.0	-5.2
5. Electricity	Orig. mil kWh		12,336	11,793	12,877	11,923	13,306	13,988	r 14,002	r 14,337	12,866	-10.3	3.9
	S. adj. "		12,980	12,924	12,931	12,803	12,927	13,130	r 12,551	r 13,036	13,086	0.4	4.6
	Trend r "		12,799	12,868	12,908	12,915	12,907	12,904	12,918	12,943	12,972	0.2	3.3
6. Bricks, clay	Orig. million		127	155	182	162	188	r 165	r 168	r 179	151	-15.6	-15.2
	S. adj. "		178	166	165	169	166	r 162	r 159	r 162	152	-5.8	-11.6
	Trend r "		172	170	168	166	164	162	160	158	156	-1.3	-12.1
7. Cement, Portland	Orig. '000 tonnes		431	520	614	449	608	587	r 522	r 572	544	-4.9	-16.7
	S. adj. "		610	537	578	502	588	580	r 505	r 534	518	-3.1	-15.6
	Trend r "		578	567	559	554	551	546	539	533	524	-1.6	-15.4
8. Particle board and similar boards (d)	Orig. '000 cu m		39.1	65.9	68.2	47.6	65.6	46.7	53.0	r 66.0	59.4	-10.0	-20.7
	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 "		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
9. Plastics in primary forms (e)	Orig. '000 tonnes		73.9	71.8	77.6	83.3	83.8	75.9	r 85.0	83.9	73.9	-11.9	-16.9
	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 "		n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.	n.a.
10. Sulphuric acid; oleum	Orig. "		145	144	146	132	125	113	104	96	72	-25.0	-26.5
	S. adj. "		131	138	126	119	118	115	127	114	84	-26.6	-28.3
	Trend r "		128	128	127	125	122	118	113	108	103	-4.3	-12.7
11. Refrigerators, domestic	Orig. '000		17.5	26.3	22.8	22.4	34.4	28.3	30.1	32.7	26.0	-20.4	-25.3
	S. adj. "		26.2	25.3	25.0	25.6	30.2	29.0	29.6	27.6	24.5	-11.2	-22.4
	Trend r "		25.3	25.3	25.9	27.0	27.9	28.3	28.3	(k)	(k)	n.a.	n.a.
12. Clothes washing machines, domestic	Orig. "		12.2	25.9	27.6	23.8	30.7	33.0	38.0	r 39.3	27.4	-30.3	-6.2
	S. adj. "		24.9	24.3	24.8	28.3	27.9	31.8	36.1	r 35.2	26.6	-24.4	-3.6
	Trend r "		25.3	25.2	26.1	27.7	29.6	31.2	32.3	32.7	32.7	-0.1	16.5
13. Television sets(f)	Orig. "		3.8	13.3	13.7	10.0	14.0	13.8	14.6	17.1	12.7	-25.6	-11.0
	S. adj. "		11.8	13.0	12.1	12.1	12.2	13.4	14.8	13.4	12.6	-6.2	-4.1
	Trend r "		12.2	12.1	12.2	12.5	12.9	13.2	13.4	13.5	13.6	0.6	-2.5
14. Electric motors	Orig. "		100	202	210	133	221	249	222	r 250	215	-14.2	-19.5
	S. adj. "		201	202	205	162	199	244	218	r 218	198	-9.3	-17.3
	Trend r "		196	193	195	199	205	211	215	217	217	0.1	-4.4

For footnotes see end of table

PRODUCTION STATISTICS, AUSTRALIA, SEPTEMBER 1990, PRELIMINARY

No. Item	Series	Unit	1990										Percentage changes between	
													Aug. 90 Sept. 89 and	
			Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Sept. 90	Sept. 90	
15. Lawn mowers petrol-rotary type	Orig. '000 S. adj. " Trend r "		11.6 18.0 20.6	19.1 18.6 21.4	21.1 25.1 21.7	11.7 23.1 21.4	10.3 20.1 20.4	10.5 18.3 19.1	13.1 16.2 17.7	22.2 18.5 (k)	19.9 13.5 (k)	-10.4 -27.0 n.a.	-34.5 -34.9 n.a.	
Motor vehicles— 16. Cars and station wagons	Orig. " S. adj. " Trend r "		12.7 39.6 33.9	32.6 34.1 34.5	36.7 34.7 34.8	29.7 33.4 34.5	39.3 33.4 33.4	33.3 32.2 31.8	36.6 32.5 30.0	34.8 29.4 (k)	22.2 20.7 (k)	-36.2 -29.8 (k)	-37.4 -36.6 n.a.	
17. Vehicles for goods and materials(g)	Orig. " S. adj. " Trend r "		1.13 2.81 2.42	2.16 2.14 2.33	2.52 2.18 2.25	1.83 2.08 2.14	2.50 2.10 2.02	2.01 1.93 1.86	1.90 1.81 1.70	1.76 1.48 (k)	1.13 1.08 (k)	-35.7 -27.3 n.a.	-56.6 -56.1 n.a.	
Yarn(h)— 18. Cotton	Orig. tonne S. adj. " Trend r "		582 2,246 1,804	1,672 1,646 1,751	1,655 1,491 1,693	1,415 1,606 1,663	r 2,212 r 1,798 1,684	r 1,974 r 1,727 1,749	r 1,856 r 1,700 1,840	2,368 2,017 1,938	2,190 2,139 2,026	-7.5 6.1 4.5	9.9 21.0 10.9	
19. Wool	Orig. " S. adj. " Trend r "		688 1,497 1,659	1,831 1,737 1,660	r 1,784 r 1,706 1,653	1,356 1,593 1,635	1,882 1,654 1,614	1,629 1,577 1,596	r 1,695 r 1,522 1,582	1,794 1,572 1,573	1,648 1,639 1,576	-8.1 4.3 0.2	-9.5 -6.4 -4.6	
Woven fabric(h)— 20. Cotton (incl. towelings)	Orig. '000 sq m S. adj. " Trend r "		795 2,923 3,293	3,352 3,369 3,248	3,239 2,849 3,245	3,077 3,397 3,267	4,127 3,509 3,278	r 3,838 r 3,453 3,246	3,504 3,065 3,167	r 3,466 r 2,836 (k)	3,263 2,960 (k)	-5.9 4.4 n.a.	-20.5 -14.4 n.a.	
21. Wool (incl. blanketing)	Orig. " S. adj. " Trend r "		395 632 692	730 671 656	687 613 628	477 557 615	645 588 618	r 692 r 689 629	r 669 r 673 634	736 635 633	546 574 631	-25.8 -9.7 -0.2	-24.1 -20.8 -19.5	
22. Man-made fibre	Orig. " S. adj. " Trend r "		4,236 13,729 14,472	14,972 14,193 14,326	15,384 13,699 14,165	12,632 13,866 14,081	15,911 14,389 14,126	r 16,789 r 14,529 14,288	r 15,851 r 14,780 14,431	r 15,803 13,404 14,544	16,008 15,410 14,677	1.3 15.0 0.9	-0.4 5.2 0.1	
23. Textile floor coverings	Orig. " S. adj. " Trend r "		1,603 4,213 3,908	3,617 3,727 3,858	3,993 3,760 3,799	r 3,054 r 3,625 3,754	r 4,239 r 3,652 3,736	r 3,794 r 3,703 3,736	r 4,294 r 4,039 3,728	r 4,255 r 3,800 3,705	3,640 3,329 3,660	-14.5 -12.4 -1.2	-10.2 -7.3 1.3	
Confectionery— 24. Chocolate base	Orig. tonne S. adj. " Trend r "		8,832 7,059 7,690	7,253 6,940 7,452	8,667 7,209 7,244	7,658 7,431 7,145	8,859 7,632 7,213	7,291 7,128 7,400	r 7,528 r 6,895 7,647	8,669 7,677 7,945	8,549 9,528 8,257	-1.4 24.1 3.9	21.5 27.5 -0.7	
25. Other	Orig. " S. adj. " Trend r "		2,784 5,493 5,207	4,969 4,809 5,278	5,943 5,587 5,372	4,251 5,396 5,465	5,724 5,506 5,535	r 6,049 r 6,130 5,593	r 5,226 r 4,815 5,632	6,835 6,269 5,657	5,905 5,394 5,633	-13.6 -13.9 -0.4	-3.4 -0.7 7.3	
26. Beer(i)	Orig. mil litres S. adj. " Trend r "		172 164 162	151 161 162	163 165 163	154 162 163	157 161 162	135 166 161	r 148 r 158 160	148 158 159	133 156 157	-10.0 -1.2 -0.9	-8.4 -4.4 -3.3	
27. Tobacco and cigarettes(j)	Orig. tonne S. adj. " Trend r "		1,310 2,635 2,438	2,419 2,344 2,398	2,833 2,476 2,340	1,757 1,897 2,292	2,864 2,382 2,279	2,436 2,339 2,305	2,437 2,264 2,345	2,960 2,627 2,382	1,977 2,270 2,407	-33.2 -13.6 -1.1	-4.8 -0.4 9.0	

(a) Includes ingots, puddled bars, pilings, blocks or lumps and steel in the molten state. (b) From rolling and forging of iron and steel (primary mills output). (c) Available for issue through mains. Includes natural gas. (d) Particle boards and similar boards of wood or other ligneous material. Includes boards for subsequent conversion to other purposes. Excludes laminated. (e) Includes liquid, paste, powder, granules, flakes, blocks, irregular shapes, lumps and similar forms. (f) Excludes combination with radio etc. (g) Includes utilities, panel vans and prime movers for semi-trailers. (h) Includes mixtures predominantly of the fibre named. (i) Includes ale and stout. Excludes beverages with alcohol content of less than 1.15 per cent. (j) Source: Australian Customs Service. (k) See paragraph 9 of Explanatory Notes.

EXPLANATORY NOTES

Introduction

Preliminary estimates for September 1990 for certain major indicators of production are shown in the table on page 5. Production statistics for September for a more extensive range of commodities will be published later in the series of nine *Production Bulletins* (8357.0 to 8363.0, 8367.0 and 8368.0).

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 nine *Production Bulletins* (8357.0 to 8363.0, 8367.0 and 8368.0) 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 in this publication.

Seasonally adjusted and trend estimates

5. Seasonally adjusted statistics are shown for all but two of the data items contained in this publication. In the seasonal adjustment, account has been taken not only of normal seasonal factors, but also where appropriate, 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. 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. Other ABS publications which may be of interest are:

Production of Household Applications and Electrical Equipment, Australia (8357.0) — issued monthly

Production of Clothing and Footwear, Australia (8358.0) — issued monthly

Production of Food, Drink, Tobacco and Stock and Poultry Food, Australia (8359.0) — issued monthly

Production of Fibres, Yarns, Fabrics, Bedding and Floor Coverings, Australia (8360.0) — issued monthly

Production of Building Materials and Fittings, Australia (8361.0) — issued monthly

Production of Paper, Plastics, Paints, Industrial Chemicals and Detergents, Australia (8362.0) — issued monthly

Production of Transport Equipment, Australia (8363.0) — issued monthly

Production of Metal Products, Australia (8367.0) — issued monthly

Production of Energy Products, Australia (8368.0) — issued monthly

Manufacturing Commodities : Selected Principal Articles Produced, Australia, 1986-87, Preliminary (8365.0)

Manufacturing Commodities : Principal Articles Produced, Australia, 1986-87 (8303.0)

12. Current publications produced by the ABS are listed in the *Catalogue of Publications and Products, 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.p. not available for separate publication

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