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PRODUCTION STATISTICS, AUSTRALIA JUNE 1989, 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 manufacturing establishments other than single establishment manufacturing enterprises with fewer than four persons employed.

Explanatory Notes are published at the back of this publication.

IAN CASTLES
Australian Statistician

PRODUCTION STATISTICS, AUSTRALIA : TRENDS

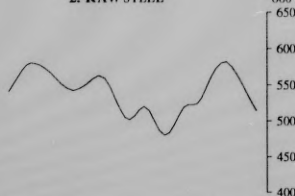
1. PIG IRON

'000 tonnes



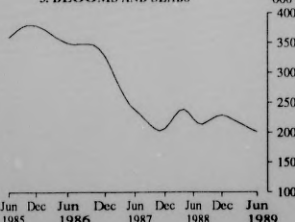
2. RAW STEEL

'000 tonnes



3. BLOOMS AND SLABS

'000 tonnes



4. TINPLATE

'000 tonnes



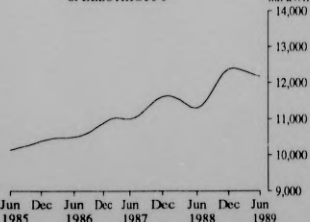
5. GAS

terajoules



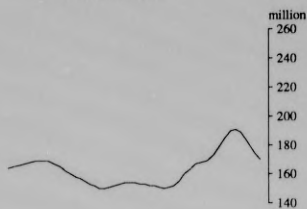
6. ELECTRICITY

mil kwh

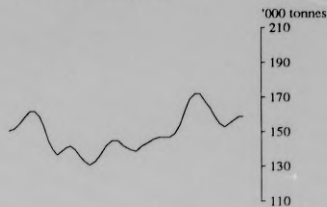


PRODUCTION STATISTICS, AUSTRALIA : TRENDS

7. BRICKS, CLAY



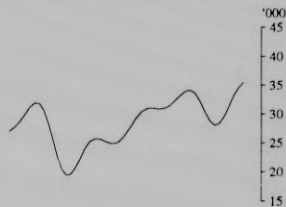
11. SULPHURIC ACID



8. CEMENT, PORTLAND



12. REFRIGERATORS, DOMESTIC



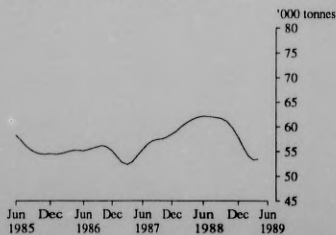
9. PARTICLE BOARD



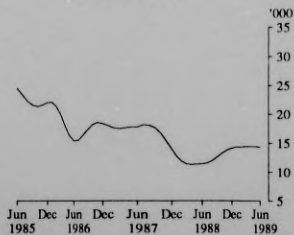
13. CLOTHES WASHING MACHINES, DOMESTIC



10. PLASTICS AND SYNTHETIC RESINS

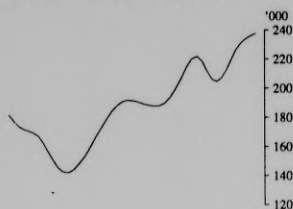


14. TELEVISION SETS



PRODUCTION STATISTICS, AUSTRALIA : TRENDS

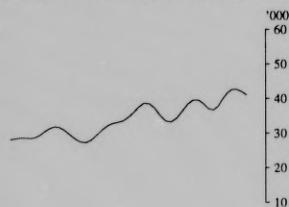
15. ELECTRIC MOTORS, UNDER 720 W



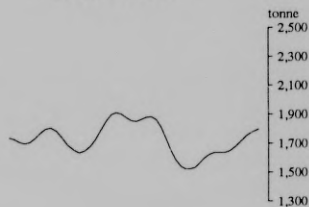
19. MOTOR VEHICLES, GOODS AND MATERIALS



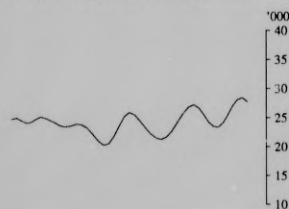
16. ELECTRIC MOTORS, 720 W AND OVER



20. YARN, COTTON



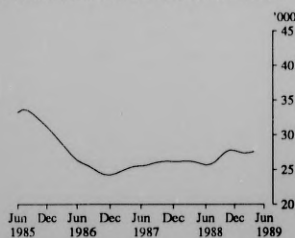
17. LAWN MOWERS, PETROL-ROTARY TYPE



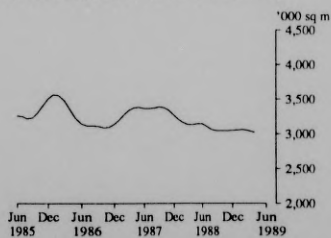
21. YARN, WOOL



18. MOTOR VEHICLES, CARS AND STATION WAGONS



22. WOVEN FABRIC, COTTON (INCL. TOWELLING)

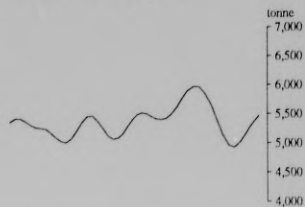


PRODUCTION STATISTICS, AUSTRALIA : TRENDS

23. WOVEN FABRIC, WOOL (INCL. BLANKETING)



27. CONFECTIONERY, OTHER



24. WOVEN FABRIC, MAN-MADE FIBRE



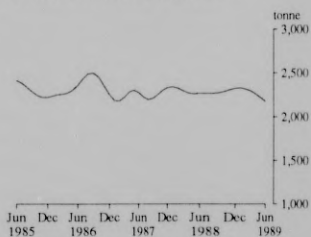
28. BEER



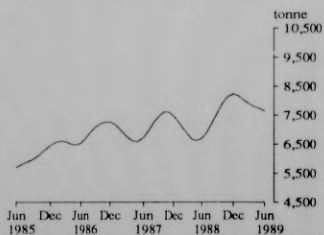
25. TEXTILE FLOOR COVERINGS



29. TOBACCO AND CIGARETTES



26. CONFECTIONERY, CHOCOLATE BASED



PRODUCTION STATISTICS, AUSTRALIA, JUNE 1989, PRELIMINARY

No. Item	Series	Unit	1988			1989				Percentage changes between-			
			Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	May 89 and June 89	
1. Pig iron	Orig.	'000 tonnes	519	489	518	499	465	488	486	455	472	3.7	0.6
	S. adj.	"	515	506	514	491	506	468	520	450	466	3.6	-0.4
	Trend r	"	504	508	507	503	496	489	482	475	468	-1.4	-1.7
2. Raw steel(a)	Orig.	"	573	569	588	546	523	560	558	487	514	5.6	-4.1
	S. adj.	"	566	587	596	550	590	555	612	472	502	6.2	-5.7
	Trend r	"	562	573	581	582	575	563	547	530	514	-3.0	-1.5
3. Blooms and slabs(b)	Orig.	"	251	241	239	187	207	217	221	187	188	0.5	-12.1
	S. adj.	"	243	249	235	183	239	221	233	193	187	-3.1	-12.1
	Trend r	"	223	227	229	227	222	217	212	206	201	-2.5	-9.9
4. Tinplate	Orig.	"	30.0	29.1	28.1	26.9	22.9	22.8	22.4	22.0	20.8	-5.1	-17.4
	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	"	28.2	27.7	26.8	25.8	25.0	24.2	23.6	23.1	22.7	-1.7	-15.3
5. Gas(c)	Orig.	terajoules	43,176	42,311	40,160	37,782	37,483	41,992	r 42,737	49,913	58,104	16.4	14.8
	S. adj.	"	42,230	45,454	47,371	46,941	44,601	44,279	r 47,269	45,913	51,263	11.7	15.7
	Trend r	"	45,292	45,444	45,485	45,545	45,749	46,098	46,628	47,326	48,092	1.6	8.4
6. Electricity	Orig.	mil kWh	11,934	11,634	11,735	11,460	11,231	12,225	11,655	12,367	13,271	7.3	9.6
	S. adj.	"	12,145	12,286	12,462	12,327	12,416	12,389	12,365	11,908	12,309	3.4	10.1
	Trend r	"	12,019	12,237	12,373	12,409	12,381	12,329	12,274	12,223	12,177	-0.4	7.7
7. Bricks, clay	Orig.	million	174	187	161	153	173	177	178	195	185	-5.1	6.9
	S. adj.	"	172	178	187	229	183	163	182	175	172	-1.7	6.4
	Trend r	"	179	185	190	191	189	184	179	174	170	-2.4	1.8
8. Cement, Portland	Orig.	'000 tonnes	584	613	594	415	586	621	r 529	577	596	3.3	1.7
	S. adj.	"	541	579	582	610	603	612	r 535	555	593	6.8	1.5
	Trend r	"	573	581	588	592	591	586	579	572	568	-0.8	3.6
9. Particle board	Orig.	'000 cu m	64.8	79.9	45.2	31.9	63.8	80.2	64.8	78.8	71.7	-9.0	3.5
	S. adj.	"	61.6	68.8	59.7	74.5	59.4	65.5	65.3	69.8	70.6	1.1	13.0
	Trend r	"	65.2	65.3	65.2	65.2	65.4	66.0	66.8	67.7	69.0	1.9	15.9
10. Plastics and synthetic resins(d)	Orig.	'000 tonnes	66.1	62.3	56.4	52.4	49.2	r 45.4	r 55.9	55.3	58.7	6.2	-7.7
	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	"	61.1	59.8	57.9	55.9	54.2	53.4	53.5	(j)	(j)	n.a.	n.a.
11. Sulphuric acid	Orig.	"	140	132	191	177	158	178	171	182	140	-23.1	-19.5
	S. adj.	"	156	132	171	153	156	158	156	176	141	-19.9	-20.9
	Trend r	"	159	155	153	155	157	159	159	(j)	(j)	n.a.	n.a.
12. Refrigerators, domestic	Orig.	'000	28.8	26.5	26.8	22.9	35.1	30.7	30.6	39.5	35.9	-9.0	3.1
	S. adj.	"	26.7	23.0	29.3	36.7	33.9	34.3	32.6	38.6	35.4	-8.4	5.6
	Trend r	"	28.1	28.4	29.7	31.5	33.3	34.6	35.5	(j)	(j)	n.a.	n.a.
13. Clothes washing machines, domestic	Orig.	"	32.3	36.7	33.4	11.8	37.6	36.0	33.3	38.5	31.8	-17.3	12.6
	S. adj.	"	30.9	32.2	38.1	23.1	35.7	34.5	36.5	37.3	29.6	-20.6	14.1
	Trend r	"	32.7	32.7	32.6	32.7	33.2	33.9	34.4	34.5	34.3	-0.7	15.3
14. Television sets(e)	Orig.	"	14.1	15.6	14.2	4.5	13.6	16.5	13.8	16.2	14.7	-9.1	16.2
	S. adj.	"	13.7	14.2	15.9	13.2	13.2	14.5	16.1	14.5	13.5	-6.8	13.2
	Trend r	"	13.3	13.8	14.2	14.3	14.4	14.4	14.5	14.5	14.4	-0.5	25.1
Electric motors- 15. Under 720 W	Orig.	"	206	253	199	113	242	208	195	248	231	-6.9	1.1
	S. adj.	"	180	207	203	240	243	210	217	270	223	-17.6	0.8
	Trend r	"	205	207	213	220	226	231	234	236	238	0.7	7.1

For footnotes see end of table

PRODUCTION STATISTICS, AUSTRALIA, JUNE 1989, PRELIMINARY

No. Item	Series	Unit	1988									Percentage changes between		
			1989									May 89		
			Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	June 89	June 89	June 89
Electric motors-														
16. 720 W and over	Orig.	'000	43.4	49.2	41.1	21.4	43.6	37.6	34.1	41.1	42.8	4.1	4.4	
	S. adj.	"	39.3	38.8	37.7	46.7	50.7	36.7	38.9	38.7	41.1	6.3	4.0	
	Trend r	"	37.8	39.8	41.7	42.7	42.7	42.0	41.0	(j)	(j)	n.a.	n.a.	
17. Lawn mowers	Orig.	"	36.2	35.2	34.3	15.6	32.7	19.1	14.3	12.4	11.7	-6.2	-26.1	
petrol-rotary type	S. adj.	"	21.9	19.5	30.1	22.7	33.5	25.5	31.5	28.8	18.2	-36.8	-22.9	
	Trend r	"	23.5	24.2	25.6	27.1	28.2	28.4	27.8	(j)	(j)	n.a.	n.a.	
Motor vehicles-														
18. Cars and station wagons	Orig.	"	30.1	34.1	23.8	7.9	27.2	26.6	27.3	30.2	31.0	2.6	9.4	
	S. adj.	"	28.2	29.8	27.0	25.7	28.8	25.4	30.1	26.4	28.8	9.2	10.7	
	Trend r	"	27.5	27.8	27.8	27.5	27.4	27.4	27.6	(j)	(j)	n.a.	n.a.	
19. Vehicles for goods and materials(f)	Orig.	"	2.85	3.13	2.61	0.94	2.42	2.42	2.23	2.61	2.52	-3.6	-7.5	
	S. adj.	"	2.72	3.16	3.28	2.41	2.27	2.04	2.47	2.21	2.31	4.2	-4.2	
	Trend r	"	2.88	2.89	2.80	2.65	2.47	2.33	2.25	(j)	(j)	n.a.	n.a.	
Yam(g)-														
20. Cotton	Orig.	tonne	1,659	1,888	1,629	311	1,819	1,914	1,701	2,444	1,702	-30.4	-4.0	
	S. adj.	"	1,566	1,821	1,806	1,240	1,768	1,711	1,765	2,119	1,498	-29.3	-8.4	
	Trend r	"	1,639	1,637	1,638	1,652	1,681	1,720	1,757	1,780	1,798	1.0	17.2	
21. Wool	Orig.	"	2,115	2,080	1,680	752	1,729	1,653	1,608	1,577	1,668	5.8	-20.4	
	S. adj.	"	2,043	1,738	2,098	1,752	1,663	1,554	1,760	1,363	1,639	20.3	-17.7	
	Trend r	"	1,916	1,908	1,869	1,801	1,719	1,649	1,594	1,554	1,512	-2.7	-19.2	
Woven fabric(g)-														
22. Cotton (incl. towelling)	Orig.	'000 sq m	3,045	3,032	2,304	951	2,832	3,033	2,994	3,767	3,223	-14.4	-5.2	
	S. adj.	"	2,903	2,997	2,817	3,724	2,850	2,750	3,039	3,335	2,784	-16.5	-8.5	
	Trend r	"	3,049	3,049	3,051	3,059	3,061	3,047	3,023	(j)	(j)	n.a.	n.a.	
23. Wool (incl. blanketing)	Orig.	"	894	995	677	498	797	832	1,665	787	775	-1.5	-6.3	
	S. adj.	"	854	781	882	849	709	749	1,689	717	797	11.2	-3.1	
	Trend r	"	861	846	822	793	767	747	733	728	725	-0.5	-14.8	
24. Man-made fibre	Orig.	"	15,659	18,273	13,875	7,394	16,872	16,753	14,448	18,006	19,048	5.8	18.5	
	S. adj.	"	14,448	16,633	16,210	25,456	16,168	15,372	14,972	16,716	16,167	-3.3	16.0	
	Trend r	"	16,196	17,229	17,978	18,202	17,883	17,204	16,471	15,881	15,430	-2.8	9.4	
25. Textile floor coverings	Orig.	"	3,880	4,303	3,655	1,797	3,768	3,772	3,626	4,022	4,059	0.9	0.6	
	S. adj.	"	3,482	3,693	3,903	5,082	3,860	3,813	4,050	3,609	3,879	7.5	0.3	
	Trend r	"	3,687	3,866	4,037	4,131	4,124	4,044	3,938	3,840	3,745	-2.5	4.2	
Confectionery-														
26. Chocolate base	Orig.	tonne	7,689	7,370	6,612	4,465	8,180	8,780	8,476	9,159	8,553	-6.6	16.5	
	S. adj.	"	8,174	7,211	8,747	8,914	7,694	7,521	7,653	7,831	7,944	1.4	17.2	
	Trend r	"	7,914	8,143	8,239	8,176	8,033	7,904	7,803	7,746	7,650	-1.2	14.1	
27. Other	Orig.	"	6,442	6,285	4,407	2,379	5,167	4,954	5,178	5,544	5,076	-8.4	-11.0	
	S. adj.	"	5,403	5,344	4,782	4,784	4,903	4,621	6,221	5,357	5,144	-4.0	-10.4	
	Trend r	"	5,401	5,143	4,967	4,931	5,007	5,133	5,266	5,374	5,470	1.8	-8.3	
28. Beer(h)	Orig.	mil litres	184	211	203	153	144	170	144	160	136	-15.3	-2.9	
	S. adj.	"	177	176	163	150	148	173	154	167	160	-4.3	-2.3	
	Trend r	"	166	165	162	160	159	159	160	161	163	1.1	0.4	
29. Tobacco and cigarettes(i)	Orig.	tonne	2,264	2,507	2,066	1,069	2,430	2,552	2,168	2,565	2,420	-5.7	-5.6	
	S. adj.	"	2,163	2,176	2,506	2,221	2,360	2,355	2,306	2,088	2,197	5.2	-5.6	
	Trend r	"	2,288	2,309	2,326	2,330	2,318	2,297	2,262	2,223	2,176	-2.1	-4.1	

(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 June 1989 for certain major indicators of production are shown in the table on page 5. Production statistics for June 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 "1 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. 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

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- n.a. not available
- n.p. not available for separate publication

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