

**MANUFACTURING PRODUCTION, AUSTRALIA
JUNE 1994, PRELIMINARY**

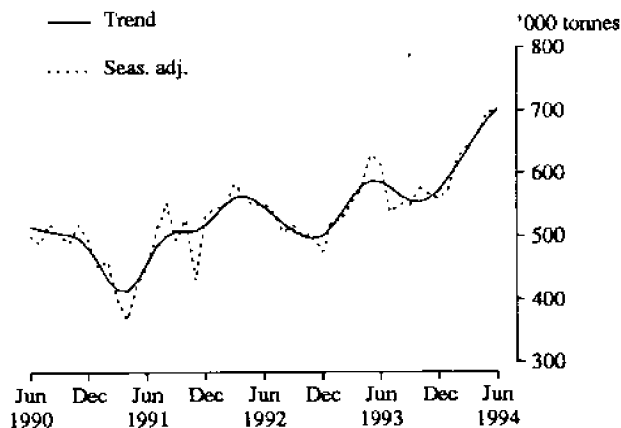
NOTES

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 quarterly. For details of these see "Related publications", in the Explanatory Notes at the back of this publication. In this issue, the series 'Iron and Steel in Primary Forms' and 'Blooms and Slabs from rolling and forging' have been replaced with the series 'Blooms and Slabs from continuous casting', see footnote (a) at end of table.

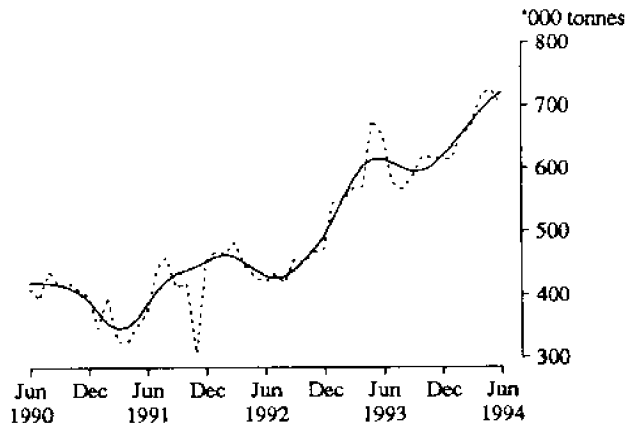
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PRODUCTION STATISTICS, AUSTRALIA : TRENDS

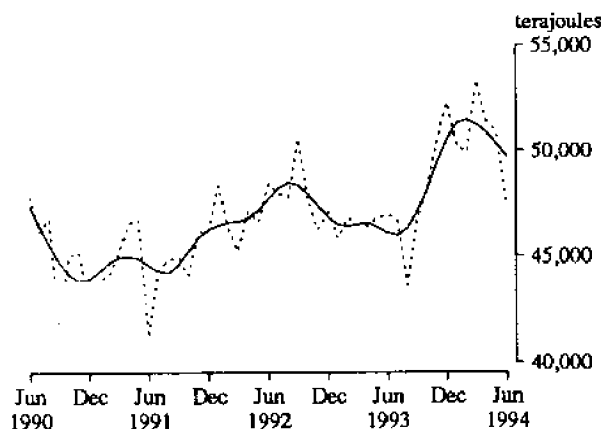
1. BASIC IRON



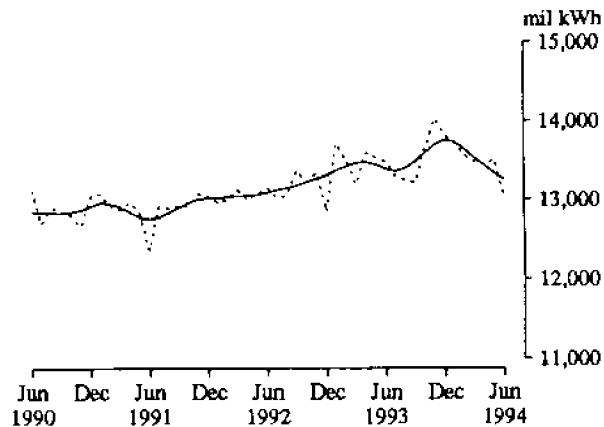
2. BLOOMS AND SLABS(a)



3. GAS



4. ELECTRICITY



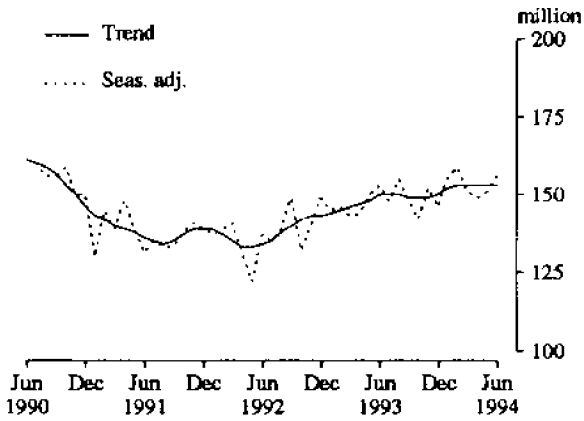
For footnotes see end of graph.

INQUIRIES

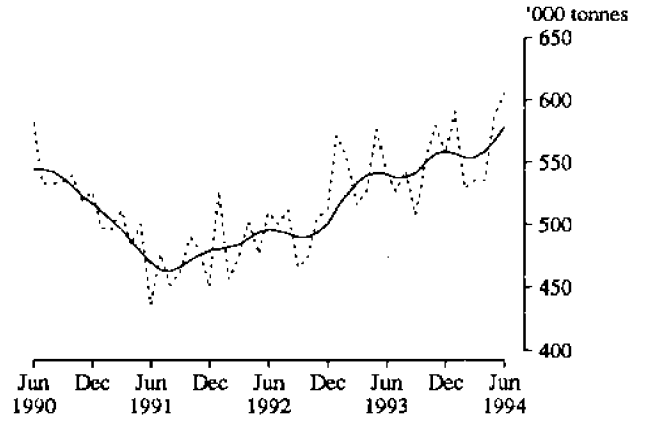
- for further information about statistics in this publication and the availability of related unpublished statistics, contact Rod Smith on Melbourne (03) 615 7635 or any ABS office.
- for information about other ABS statistics and services please refer to the back page of this publication.

PRODUCTION STATISTICS, AUSTRALIA : TRENDS

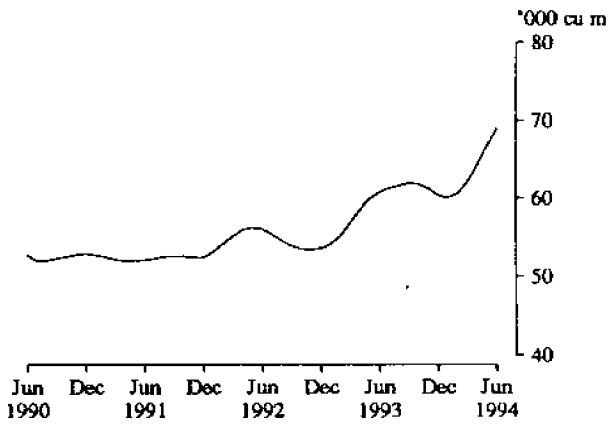
5. BRICKS, CLAY



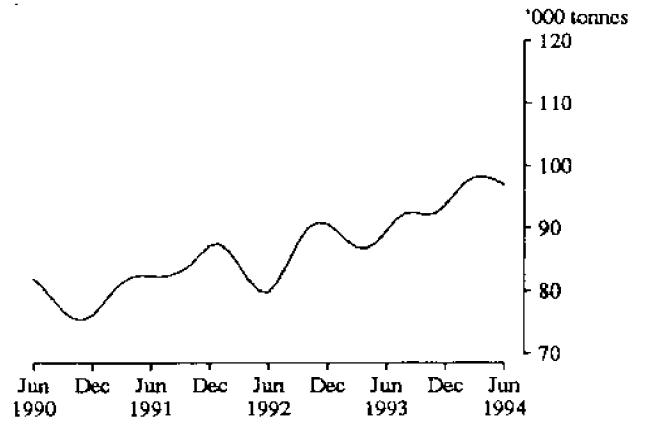
6. CEMENT, PORTLAND



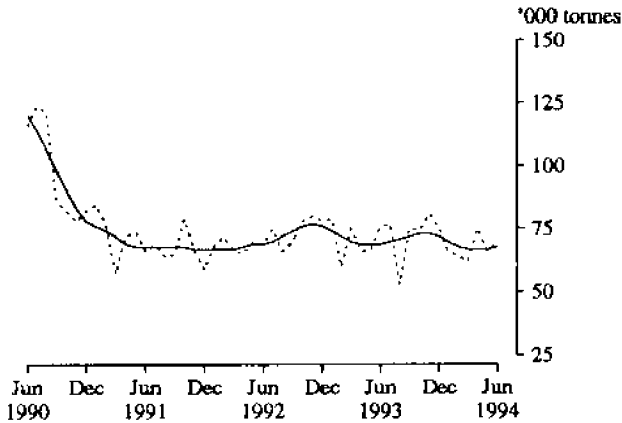
7. PARTICLE BOARD AND SIMILAR BOARD(b)



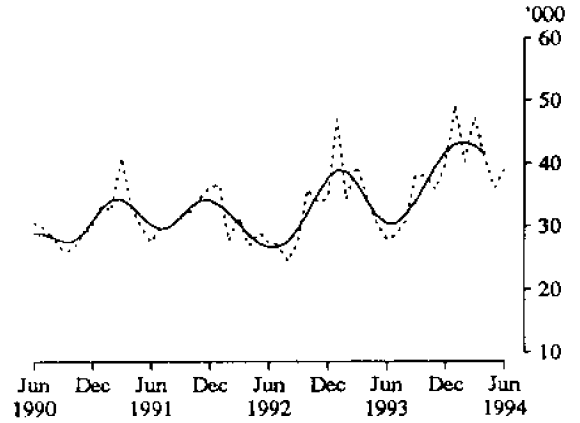
8. PLASTICS IN PRIMARY FORMS(b)



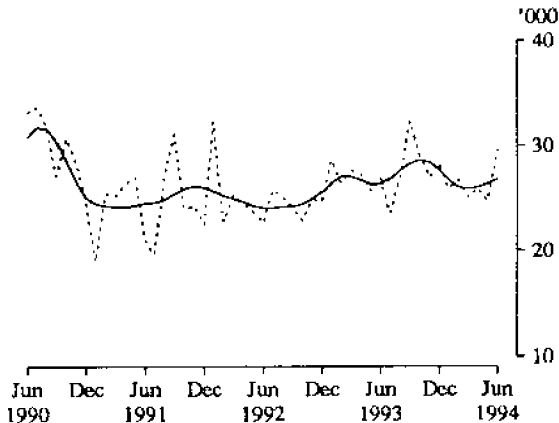
9. SULPHURIC ACID; OLEUM



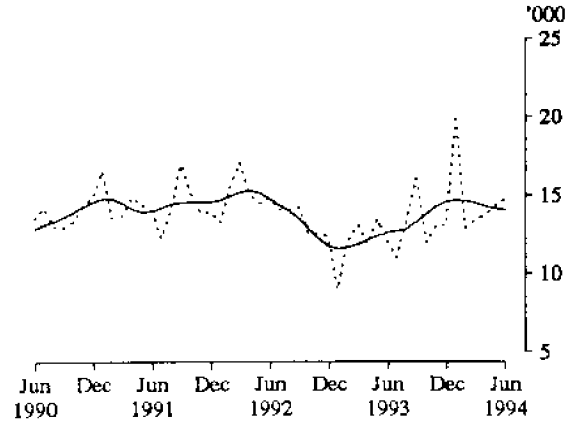
10. REFRIGERATORS, DOMESTIC(c)



11. CLOTHES WASHING MACHINES, DOMESTIC



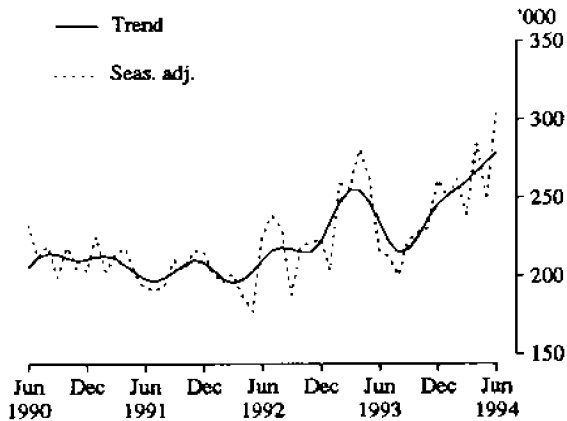
12. TELEVISION SETS



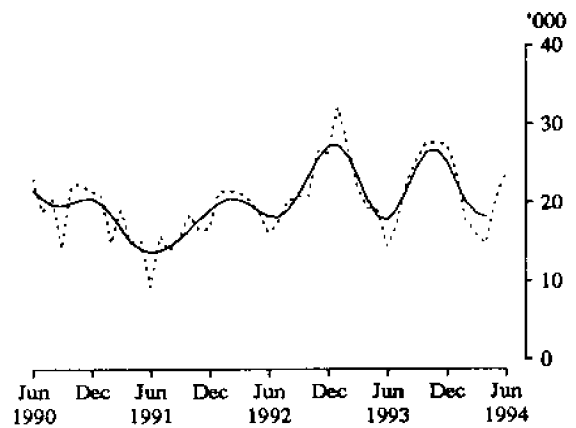
For footnotes see end of graph.

PRODUCTION STATISTICS, AUSTRALIA : TRENDS

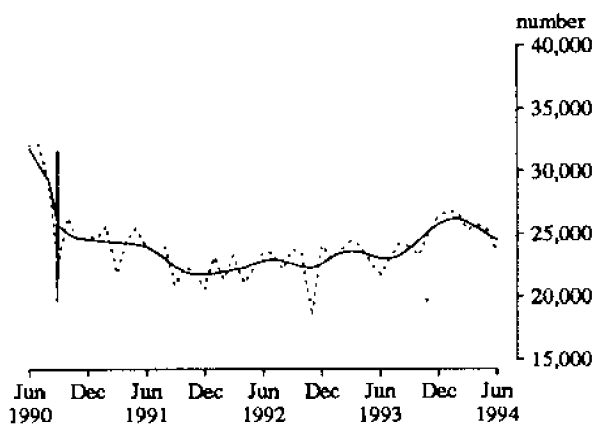
13. ELECTRIC MOTORS(d)



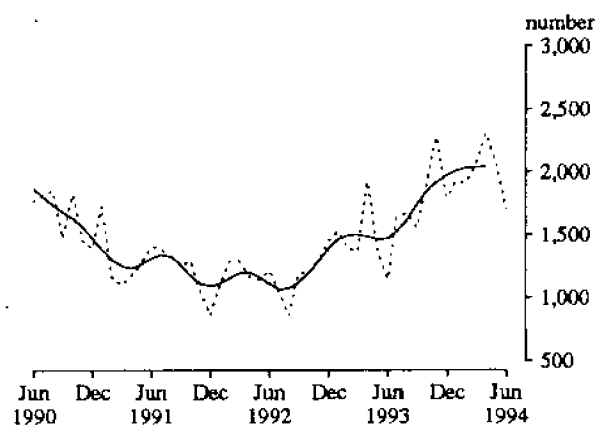
14. LAWN MOWERS, PETROL-ROTARY TYPE(c)



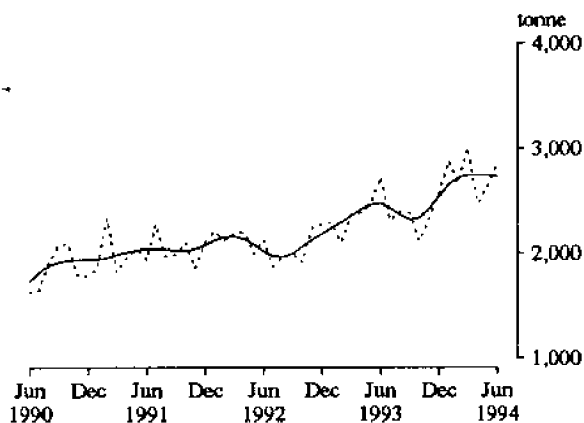
15. MOTOR VEHICLES (CARS AND STATION WAGONS)(e)



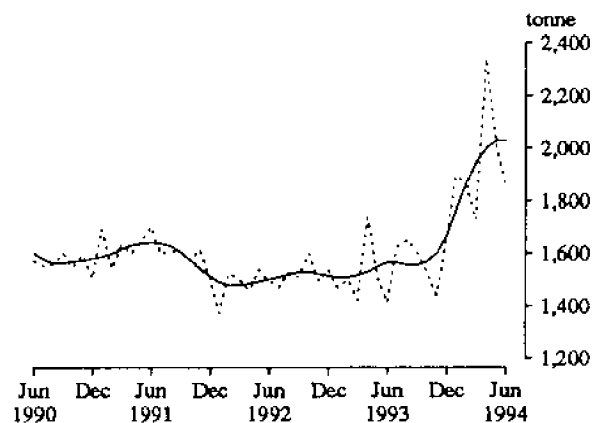
16. MOTOR VEHICLES FOR GOODS AND MATERIALS(c)



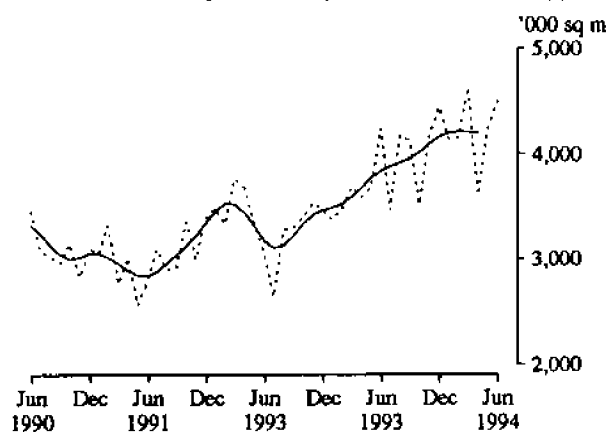
17. YARN, COTTON



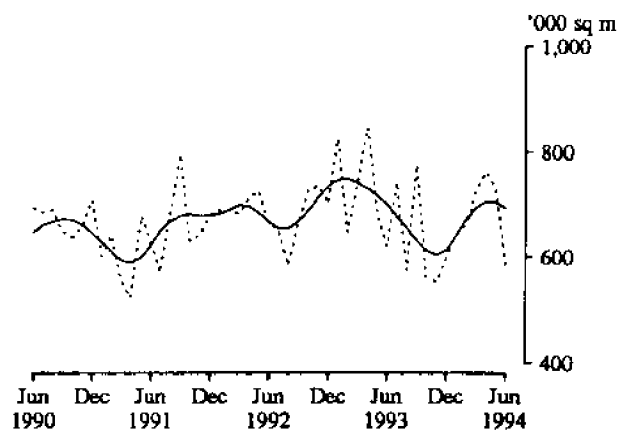
18. YARN, WOOL



19. WOVEN FABRIC, COTTON (INCL. TOWELLING)(c)

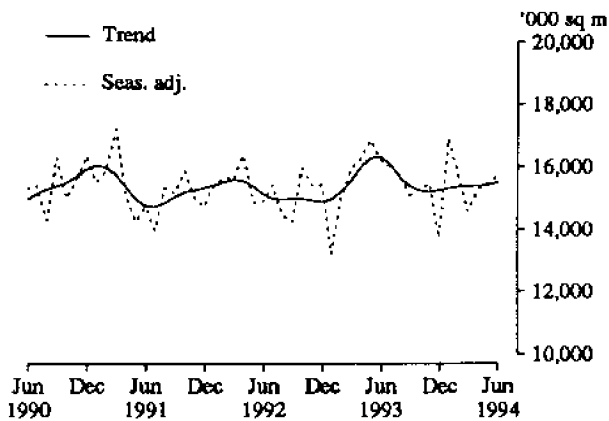


20. WOVEN FABRIC, WOOL (INCL. BLANKETING)(c)

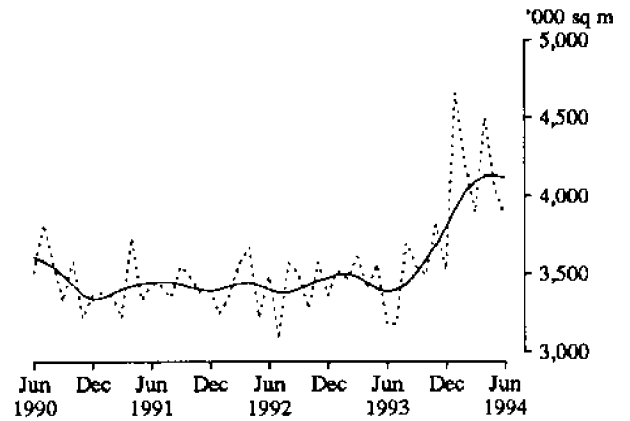


PRODUCTION STATISTICS, AUSTRALIA : TRENDS

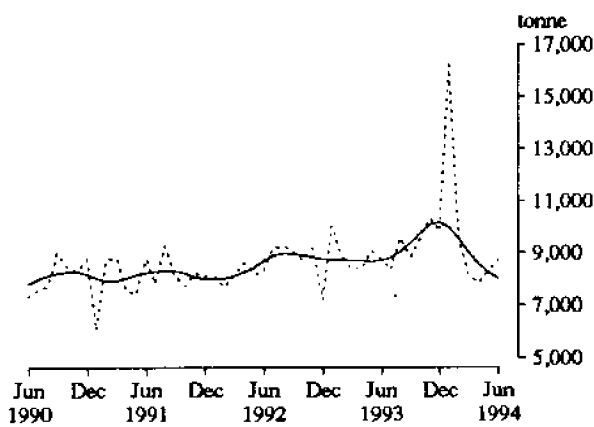
21. WOVEN FABRIC, MAN-MADE FIBRE



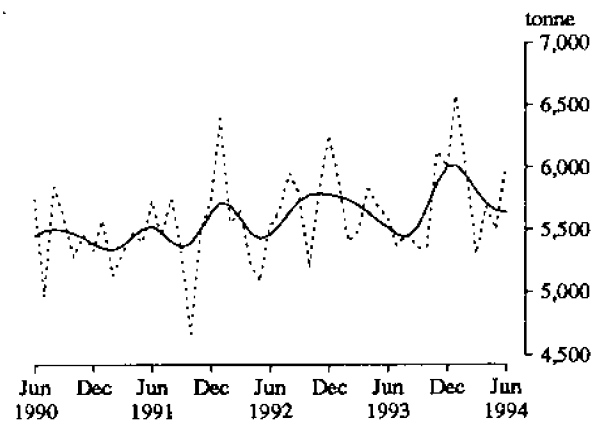
22. TEXTILE FLOOR COVERINGS



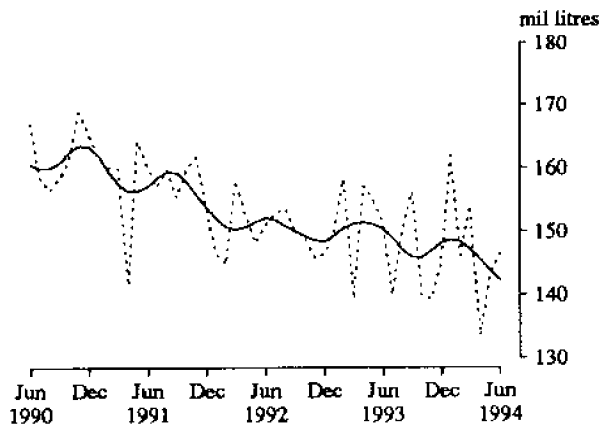
23. CONFECTIONERY, CHOCOLATE BASED



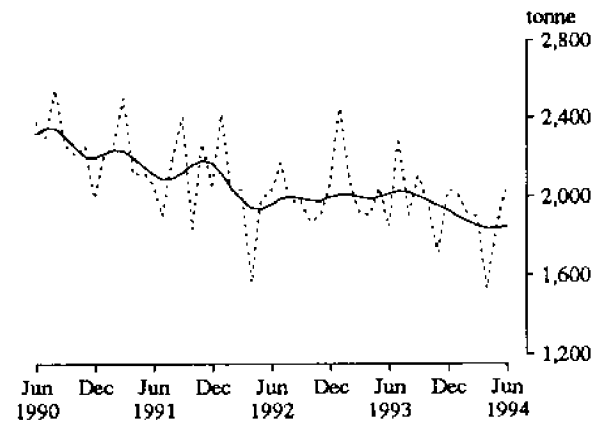
24. CONFECTIONERY, OTHER



25. BEER



26. TOBACCO AND CIGARETTES



(a) From continuous casting. This series replaces the previously published 'Iron and Steel in Primary Forms' and 'Blooms and Slabs from rolling and forging'. Changes in industry production practices mean that almost all raw steel is now used to produce Blooms and Slabs using continuous casting methods. (b) Seasonally adjusted estimates will not be published until a longer time span of data are available to provide more reliable seasonal factors. (c) Trend estimates are not available for the last two periods. (d) Amendments to the April 1994 data has caused the trend estimate to be significantly revised. (e) There is a lowering of the level of the trend series from September 1990 attributable to various factory shut downs.

PRODUCTION STATISTICS, AUSTRALIA, JUNE 1994, PRELIMINARY

No. Item	Series	Unit										Percentage changes between-	
			1993			1994						May 94	June 93
			Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	and June 94	and June 94
1. Basic iron, spiegeleisen and sponge iron	Orig.	'000 tonnes	613	600	591	582	556	607	628	652	646	-0.9	13.7
	S. adj.	"	577	566	559	575	628	646	661	698	701	0.4	14.2
	Trend r	"	555	561	575	593	616	640	664	686	703	2.6	19.9
2. Blooms and slabs(a)	Orig.	"	654	638	638	613	590	647	667	681	658	-3.4	7.4
	S. adj.	"	619	617	616	614	654	666	718	727	698	-3.9	7.3
	Trend r	"	596	604	619	636	654	674	693	709	721	1.7	17.2
3. Gas(b)	Orig.	terajoules	48,073	46,251	43,736	39,975	40,478	47,002	46,223	55,116	57,087	3.6	0.2
	S. adj.	"	48,320	50,423	52,309	50,195	49,924	53,310	51,396	50,834	47,374	-6.8	0.8
	Trend r	"	48,215	49,449	50,609	51,335	51,479	51,260	50,867	50,329	49,701	-1.2	7.9
4. Electricity	Orig.	mil kWh	13,464	13,302	13,456	13,171	12,517	13,489	12,641	13,727	13,859	1.0	-2.8
	S. adj.	"	13,657	14,028	13,814	13,722	13,570	13,478	13,443	13,517	13,059	-3.4	-3.1
	Trend r	"	13,600	13,708	13,763	13,740	13,649	13,534	13,431	13,335	13,263	-0.5	-0.9
5. Bricks, clay	Orig.	million	147	161	135	98	150	173	144	167	161	-3.6	-0.6
	S. adj.	"	142	152	146	155	159	151	149	151	156	3.7	2.0
	Trend r	"	149	149	150	152	153	153	153	153	153	0.2	2.2
6. Cement, Portland	Orig.	'000 tonnes	594	644	539	407	497	564	515	625	616	-1.4	12.8
	S. adj.	"	552	580	557	591	529	536	536	588	606	3.1	12.0
	Trend r	"	550	557	559	557	554	554	559	568	579	2.0	7.0
7. Particle board and similar boards(c)	Orig.	'000 cu m	68	69	55	32	57	67	64	70	73	4.3	17.7
	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	"	62	61	60	60	61	62	64	67	69	3.4	13.4
8. Plastics in primary forms(d)	Orig.	'000 tonnes	99.0	95.0	84.0	82.0	95.0	105.0	100.0	86.0	100.0	16.3	13.6
	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	"	92.1	92.4	93.7	95.6	97.3	98.2	98.2	97.8	97.0	-0.8	8.3
9. Sulphuric acid; oleum	Orig.	"	67	76	83	82	71	72	75	71	69	-2.8	-8.0
	S. adj.	"	74	81	75	66	64	62	75	66	70	6.1	-8.1
	Trend r	"	73	73	72	70	68	67	67	67	68	1.4	-1.1
10. Refrigerators, domestic	Orig.	'000	38.8	41.6	37.2	35.8	41.6	49.4	34.4	38.9	38.1	-1.9	43.9
	S. adj.	"	38.0	35.8	39.8	49.3	40.4	47.4	40.7	36.2	39.1	8.0	39.3
	Trend r	"	36.8	39.6	41.8	43.1	43.3	42.7	41.6	(e)	(e)	n.a.	n.a.
11. Clothes washing machines, domestic	Orig.	"	29.6	29.9	25.3	11.8	26.4	29.4	24.0	25.2	29.4	16.8	7.5
	S. adj.	"	29.1	27.0	28.3	25.9	26.7	25.1	26.0	24.7	29.6	19.8	9.8
	Trend r	"	28.6	28.4	27.7	26.7	26.1	25.9	26.1	26.4	26.8	1.4	1.5
12. Television sets(f)	Orig.	"	13.8	14.7	12.1	5.4	13.1	15.6	12.1	15.9	15.1	-4.7	24.6
	S. adj.	"	12.0	13.1	13.0	20.1	12.9	13.4	13.8	14.4	14.8	2.7	22.7
	Trend r	"	13.8	14.3	14.6	14.7	14.6	14.5	14.3	14.2	14.0	-0.8	10.8
13. Electric motors(g)	Orig.	"	252	254	238	161	256	279	r 255	265	289	8.8	38.0
	S. adj.	"	228	231	262	250	262	239	r 285	248	305	23.0	41.6
	Trend r	"	225	237	245	251	256	261	267	273	279	2.1	19.2

For footnotes see end of table

PRODUCTION STATISTICS, AUSTRALIA, JUNE 1994, PRELIMINARY

No. Item	Series	Unit	Percentage changes between—										
			1993			1994					May 94	June 93	
			Oct.	Nov.	Dec.	Jan.	Feb.	Mar.	Apr.	May	June	and June 94	and June 94
14. Lawn mowers petrol-rotary type	Orig.	'000	42.7	42.3	31.8	18.2	19.3	16.2	8.0	10.0	12.0	19.8	66.5
	S. adj.	"	27.8	27.6	27.4	23.9	17.8	15.9	14.7	20.3	24.1	18.9	67.2
	Trend r	"	26.5	26.8	25.3	22.6	20.1	18.6	18.2	(e)	(e)	n.a.	n.a.
Motor vehicles—													
15. Cars and station wagons	Orig.	number	24,592	27,982	21,120	11,978	26,012	29,548	r 21,375	28,792	26,159	-9.1	9.6
	S. adj.	"	23,291	25,090	26,410	26,792	26,644	25,328	r 25,688	25,356	23,511	-7.3	7.9
	Trend r	"	24,517	25,225	25,819	26,165	26,202	25,931	25,490	24,997	24,492	-2.0	6.5
16. Vehicles for goods and materials(h)	Orig.	"	2,223	2,172	1,549	803	1,857	2,358	r 1,949	2,401	2,074	-13.6	54.3
	S. adj.	"	1,901	2,287	1,794	1,924	1,914	2,066	r 2,314	2,088	1,706	-18.3	48.0
	Trend r	"	1,848	1,926	1,973	2,007	2,032	2,041	2,042	(e)	(e)	n.a.	n.a.
Yarn(i)—													
17. Cotton	Orig.	tonne	2,478	2,357	2,306	1,583	2,550	3,081	2,422	2,612	3,201	22.5	3.0
	S. adj.	"	2,116	2,332	2,568	2,883	2,672	3,011	2,472	2,646	2,870	8.5	5.0
	Trend r	"	2,345	2,428	2,547	2,656	2,724	2,751	2,752	2,747	2,735	-0.4	10.4
18. Wool	Orig.	"	1,617	1,694	1,421	1,113	1,830	1,894	1,954	2,141	2,015	-5.9	25.9
	S. adj.	"	1,532	1,440	1,653	1,896	1,871	1,729	2,342	2,021	1,849	-8.5	30.8
	Trend r	"	1,569	1,602	1,667	1,762	1,866	1,948	2,001	2,031	2,032	0.0	29.8
Woven fabric(i)—													
19. Cotton (incl. towelling)	Orig.	'000 sq m	4,128	4,020	3,740	1,619	4,180	4,797	3,862	r 4,414	4,909	11.2	10.0
	S. adj.	"	3,515	4,178	4,445	4,143	4,157	4,630	3,605	r 4,257	4,506	5.9	6.2
	Trend r	"	4,022	4,101	4,170	4,208	4,217	4,214	4,209	(e)	(e)	n.a.	n.a.
20. Wool (incl. blanketing)	Orig.	"	601	652	544	369	725	832	636	735	615	-16.3	-9.6
	S. adj.	"	562	552	599	641	661	728	764	733	582	-20.6	-6.1
	Trend r	"	613	605	614	640	671	696	707	705	693	-1.7	-0.9
21. Man-made fibre	Orig.	"	15,989	16,233	13,574	9,819	16,025	16,021	14,409	15,914	16,982	6.7	-2.7
	S. adj.	"	15,307	15,499	13,723	16,921	15,717	14,561	15,292	15,480	15,731	1.6	-2.9
	Trend r	"	15,239	15,216	15,263	15,323	15,371	15,390	15,404	15,431	15,510	0.5	-5.0
22. Textile floor coverings	Orig.	"	3,786	4,361	3,429	2,513	4,059	4,064	r 3,822	4,366	4,040	-7.5	21.9
	S. adj.	"	3,493	3,822	3,525	4,665	4,212	3,892	r 4,501	4,053	3,876	-4.4	22.0
	Trend r	"	3,591	3,687	3,802	3,917	4,025	4,099	4,132	4,132	4,123	-0.2	21.7
Confectionery—													
23. Chocolate base	Orig.	tonne	10,379	10,504	9,547	8,390	9,405	9,559	7,419	r 8,641	9,202	6.5	-0.1
	S. adj.	"	9,564	10,368	9,858	16,212	9,526	8,180	7,820	r 8,325	8,712	4.7	-0.3
	Trend r	"	9,786	10,113	10,196	9,966	9,522	9,008	8,563	8,235	8,032	-2.5	-7.8
24. Other	Orig.	"	6,216	6,990	5,548	3,342	5,583	5,800	4,680	r 5,549	6,284	13.2	7.1
	S. adj.	"	5,357	6,133	6,001	6,578	5,989	5,303	5,692	r 5,505	6,023	9.4	7.6
	Trend r	"	5,690	5,884	6,007	6,019	5,936	5,814	5,716	5,656	5,642	-0.2	2.3
25. Beer(j)	Orig.	mil litres	151	177	184	151	134	164	126	r 133	125	-6.5	-3.7
	S. adj.	"	140	139	145	162	146	154	134	r 143	147	2.4	-3.1
	Trend r	"	146	147	148	149	148	147	146	144	142	-1.1	-5.4
26. Tobacco and cigarettes(k)	Orig.	tonne	1,810	1,988	1,877	1,001	2,070	2,240	1,382	2,164	2,171	0.3	12.8
	S. adj.	"	1,963	1,718	2,035	2,014	1,919	1,900	1,531	1,854	2,068	11.5	11.8
	Trend r	"	1,978	1,957	1,931	1,903	1,877	1,853	1,840	1,844	1,846	0.1	-8.4

(a) From continuous casting. This series replaces the previously published 'Iron and Steel in Primary Forms' and 'Blooms and Slabs from rolling and forging'. Changes in industry production practices mean that almost all raw steel is now used to produce Blooms and Slabs using continuous casting methods. (b) Available for issue through mains. Includes natural gas. (c) Particle boards and similar boards of wood or other ligneous material. Includes boards for subsequent conversion to other purposes. Excludes laminated. Seasonally adjusted estimates will not be published until a longer time span of data are available to provide more reliable seasonal factors. (d) Includes liquid, paste, powder, granules, flakes, blocks, irregular shapes, lumps and similar forms. Seasonally adjusted estimates will not be published until a longer time span of data are available to provide more reliable seasonal factors. (e) See paragraph 9 of Explanatory Notes. (f) Excludes combination with radio etc. (g) Amendments to the April 1994 data has caused the trend estimate to be significantly revised. (h) Includes utilities, panel vans and prime movers for semi-trailers. (i) Includes mixtures predominantly of the fibre named. (j) Includes ale and stout. Excludes beverages with alcohol content of less than 1.15 per cent. (k) Source: Australian Tobacco Marketing Advisory Committee.

EXPLANATORY NOTES

Introduction

Preliminary estimates for June 1994 for certain major indicators of production are shown in the table on page 5. Production statistics for June 1994 for a more extensive range of commodities will be published later in the series of ten *Manufacturing Production Bulletins* (8357.0 to 8363.0 and 8367.0 to 8369.0).

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 Industrial Production, Australia* (8125.0). 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 ten *Manufacturing Production Bulletins* (8357.0 to 8363.0 and 8367.0 to 8369.0) 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 industrial 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:

Manufacturing Production, Australia, Household Appliances and Electrical Equipment (8357.0) — issued quarterly

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Manufacturing Production, Australia: Principal Commodities Produced, 1989-90 (8365.0)

Unpublished production data is also available from the ABS Sydney office. Please contact Colin Nicholson on (02) 268 4282.

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.

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