



Australian Bureau of Statistics

CATALOGUE NO. 8301.0

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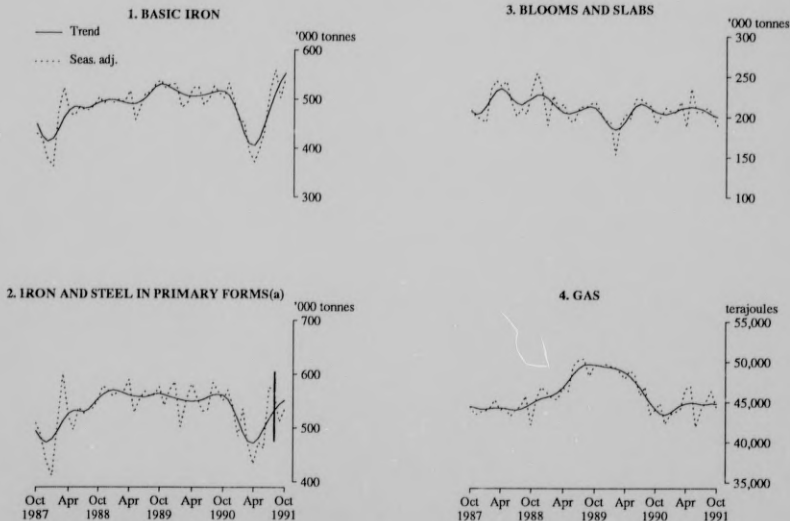
MANUFACTURING PRODUCTION, AUSTRALIA OCTOBER 1991, PRELIMINARY

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 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



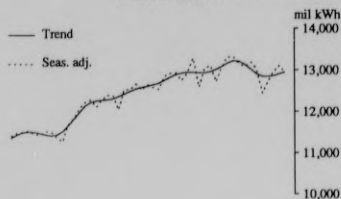
(a) Break in series after July 1991. See footnote (a) on page 6.

INQUIRIES

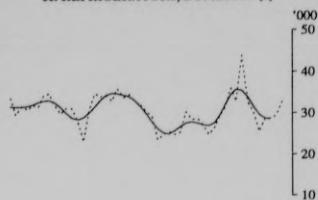
- for further information about statistics in this publication and the availability of related unpublished statistics, contact Kevin Squair on Canberra (06) 252 5558 or any ABS State office.
- for information about other ABS statistics and services please refer to the back page of this publication.

PRODUCTION STATISTICS, AUSTRALIA : TRENDS

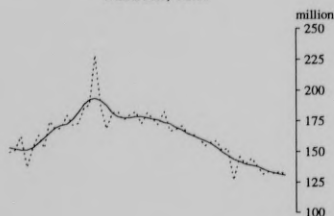
5. ELECTRICITY



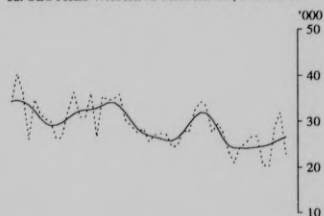
11. REFRIGERATORS, DOMESTIC (a)



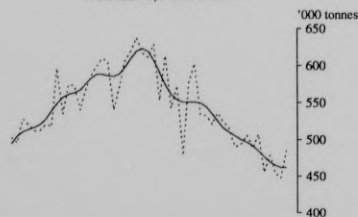
6. BRICKS, CLAY



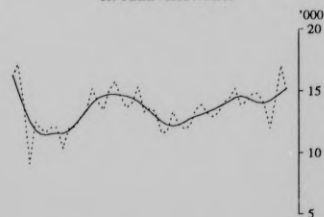
12. CLOTHES WASHING MACHINES, DOMESTIC



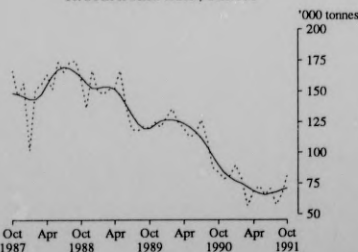
7. CEMENT, PORTLAND



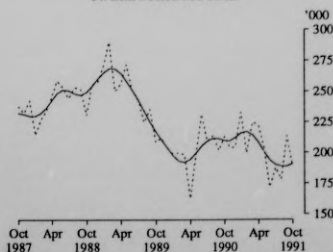
13. TELEVISION SETS



10. SULPHURIC ACID; OLEUM



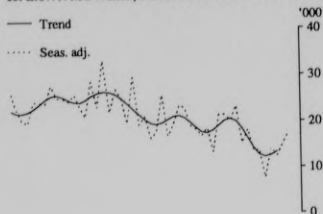
14. ELECTRIC MOTORS



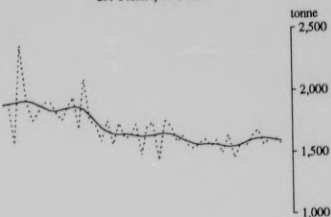
(a) Trend estimates are not available for the last two periods

PRODUCTION STATISTICS, AUSTRALIA : TRENDS

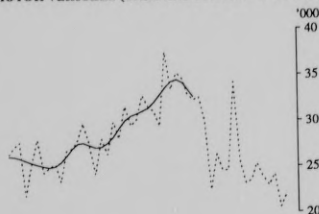
15. LAWN MOWERS, PETROL-ROTARY TYPE(a)



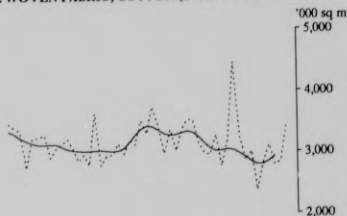
19. YARN, WOOL



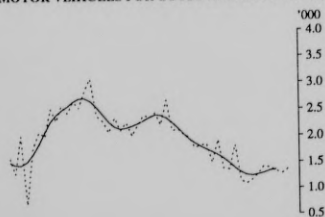
16. MOTOR VEHICLES (CARS AND STATION WAGONS)(b)



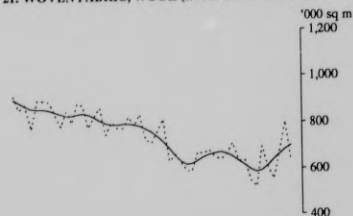
20. WOVEN FABRIC, COTTON (INCL. TOWELLING)(a)



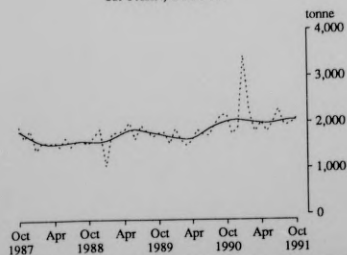
17. MOTOR VEHICLES FOR GOODS AND MATERIALS(a)



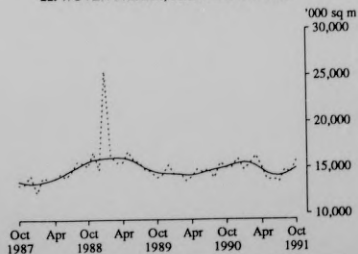
21. WOVEN FABRIC, WOOL (INCL. BLANKETING)



18. YARN, COTTON



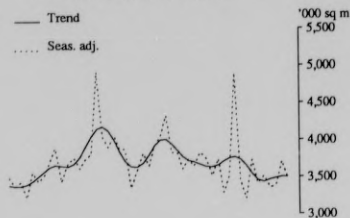
22. WOVEN FABRIC, MAN-MADE FIBRE



(a) Trend estimates are not available for the last two periods. (b) The recent trend estimates have been temporarily suspended because recent factory shut-downs have adversely affected their reliable estimation.

PRODUCTION STATISTICS, AUSTRALIA : TRENDS

23. TEXTILE FLOOR COVERINGS



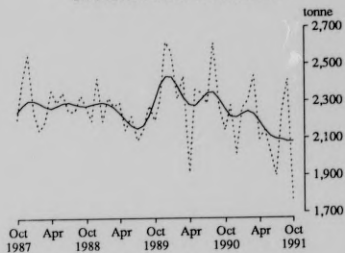
26. BEER



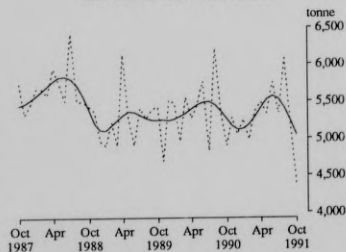
24. CONFECTIONERY, CHOCOLATE BASED



27. TOBACCO AND CIGARETTES



25. CONFECTIONERY, OTHER



PRODUCTION STATISTICS, AUSTRALIA, OCTOBER 1991, PRELIMINARY

No. Item	Series	Unit	1991									Percentage changes between	
			Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Sept. 91 and Oct. 91	Oct. 90 and Oct. 91
1. Basic iron, spiegeleisen and sponge iron	Orig.	'000 tonnes	413	384	356	397	420	535	587	522	558	6.9	7.1
	S. adj.	"	454	395	372	400	438	519	560	504	543	7.8	8.1
	Trend r	"	431	410	406	421	451	484	513	536	553	3.2	7.2
2. Iron and steel in ingots or other primary forms(a)	Orig.	"	483	460	411	458	455	600	605	545	549	0.7	2.1
	S. adj.	"	536	470	433	473	462	576	567	512	535	4.5	3.4
	Trend r	"	491	475	471	481	498	517	533	544	552	1.4	-1.7
3. Blooms and slabs(b)	Orig.	"	182	228	197	221	197	214	222	217	207	-4.6	-1.0
	S. adj.	"	206	220	189	236	207	207	212	205	190	-7.2	-1.3
	Trend r	"	208	211	212	213	212	210	207	203	200	-1.4	-3.4
4. Gas(c)	Orig.	terajoules	35,677	39,864	41,761	50,380	49,129	55,066	r 55,671	48,567	45,808	-5.7	0.4
	S. adj.	"	43,842	44,123	46,712	47,055	41,966	44,169	r 45,154	46,434	44,328	-4.5	0.5
	Trend r	"	44,232	44,644	44,888	44,980	44,908	44,808	44,798	44,859	44,848	0.0	1.6
5. Electricity	Orig.	mil kWh	12,015	12,888	12,431	13,499	r 13,014	14,296	r 14,125	r 12,905	13,016	0.9	2.0
	S. adj.	"	13,156	13,080	13,190	13,037	r 12,453	12,740	r 12,962	r 13,104	12,959	-1.1	1.9
	Trend r	"	13,207	13,135	13,019	12,908	12,851	12,843	12,868	12,910	12,953	0.3	-0.4
6. Bricks, clay	Orig.	million	r 137	146	151	156	129	146	141	136	144	5.9	-17.7
	S. adj.	"	r 146	140	145	138	132	134	132	134	131	-2.7	-17.7
	Trend r	"	142	140	139	138	136	134	133	132	131	-0.6	-15.0
7. Cement, Portland	Orig.	'000 tonnes	470	523	471	534	436	495	486	r 463	535	15.6	-8.4
	S. adj.	"	494	507	489	508	456	479	454	r 448	485	8.3	-9.6
	Trend r	"	501	497	492	485	477	470	465	462	462	0.0	-12.2
8. Particle board and similar boards(d)	Orig.	'000 cu m	53.0	56.1	46.4	58.9	46.7	59.2	55.1	52.9	69.0	30.4	8.5
	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	80.4	74.4	84.2	85.6	78.8	88.2	82.4	83.6	92.9	11.1	4.9
	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.	"	84	67	75	79	66	56	51	54	71	31.5	-1.4
	S. adj.	"	79	57	69	73	66	71	58	66	81	22.3	-3.8
	Trend r	"	75	72	69	67	66	67	68	70	71	1.5	-21.7
11. Refrigerators, domestic	Orig.	'000	33.8	35.9	30.9	34.6	24.4	31.8	32.7	32.2	36.9	14.5	25.2
	S. adj.	"	32.9	43.9	32.8	30.2	25.6	28.8	28.8	29.5	32.7	11.0	23.2
	Trend r	"	35.8	35.5	33.8	31.6	29.7	28.8	28.7	(f)	(f)	n.a.	n.a.
12. Clothes washing machines, domestic	Orig.	"	25.7	25.7	25.3	29.0	20.0	23.1	33.1	30.7	26.9	-12.2	-19.3
	S. adj.	"	24.5	25.4	26.8	26.8	20.5	20.2	28.9	32.0	22.9	-28.4	-22.7
	Trend r	"	24.3	24.3	24.3	24.5	24.7	25.0	25.6	26.2	26.6	1.8	-6.6
13. Television sets(g)	Orig.	"	13.7	14.5	13.3	17.5	13.2	13.2	17.8	17.0	18.3	7.9	16.9
	S. adj.	"	13.9	14.2	14.8	14.8	14.0	12.0	14.4	17.1	15.0	-12.3	12.5
	Trend r	"	14.6	14.5	14.3	14.1	14.1	14.2	14.5	14.9	15.2	2.3	10.9
14. Electric motors	Orig.	"	198	217	203	227	170	201	201	r 229	230	0.1	-8.9
	S. adj.	"	200	225	222	204	172	188	178	r 214	189	-11.5	-11.4
	Trend r	"	217	215	208	201	194	190	189	189	191	0.9	-9.1

For footnotes see end of table

PRODUCTION STATISTICS, AUSTRALIA, OCTOBER 1991, PRELIMINARY

No. Item	Series	Unit	1991								Percentage changes between		
			Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Sept. 91 and Oct. 91	Oct. 90 and Oct. 91
15. Lawn mowers petrol-rotary type	Orig. S. adj. Trend r	'000 " "	14.8 15.3 18.5	15.5 18.2 16.3	7.4 13.5 14.2	7.1 13.7 12.7	4.3 7.7 12.2	11.4 14.1 12.6	14.9 12.5 13.4	20.8 15.2 (f)	32.0 17.7 (f)	53.5 16.4 n.a.	-12.0 -17.8 n.a.
16. Motor vehicles— Cars and station wagons (h)	Orig. S. adj.	" "	25.0 25.6	22.1 23.2	21.9 23.5	30.2 25.3	24.7 23.8	26.7 22.9	27.6 24.2	22.3 20.6	26.0 22.0	16.5 7.2	-13.6 -16.2
17. Vehicles for goods and materials(i)	Orig. S. adj. Trend r	" " "	1.14 1.15 1.31	1.16 1.09 1.25	1.05 1.17 1.24	1.59 1.27 1.26	1.53 1.42 1.30	1.51 1.38 1.34	1.50 1.33 1.35	1.36 1.28 (f)	1.58 1.36 (f)	16.4 6.7 n.a.	-28.4 -29.0 n.a.
18. Yarn(j)— Cotton	Orig. S. adj. Trend r	tonne " "	2,264 2,230 2,018	1,853 1,797 2,002	1,861 2,004 1,988	2,273 1,800 1,979	2,035 1,998 1,986	2,532 2,282 2,015	2,236 1,934 2,039	r 2,080 r 1,969 2,056	2,415 2,088 2,055	16.1 6.0 0.0	-3.8 -3.7 1.9
19. Wool	Orig. S. adj. Trend r	" " "	1,505 1,457 1,554	1,532 1,579 1,567	1,480 1,560 1,587	1,808 1,637 1,605	1,699 1,685 1,616	1,829 1,567 1,618	1,729 1,613 1,612	r 1,664 r 1,615 1,602	1,877 1,568 1,594	12.8 -2.9 -0.5	1.2 0.6 1.0
20. Woven fabric(j)— Cotton (incl. towelings)	Orig. S. adj. Trend r	'000 sq m " "	3,338 3,245 2,981	2,839 2,860 2,914	2,957 3,010 2,844	3,012 2,378 2,798	2,934 2,812 2,798	3,654 3,382 2,849	3,382 2,790 2,932	3,006 2,845 (f)	3,829 3,425 (f)	27.4 20.4 n.a.	7.8 4.3 n.a.
21. Wool (incl. blanketing)	Orig. S. adj. Trend r	" " "	703 641 619	557 549 599	468 522 588	734 696 595	603 607 616	598 555 642	756 757 666	749 803 687	753 636 702	0.5 -20.8 2.2	1.1 -1.3 4.0
22. Man-made fibre	Orig. S. adj. Trend r	" " "	16,212 15,470 15,498	17,417 16,347 15,220	14,385 15,104 14,816	15,068 13,683 14,413	15,184 13,830 14,177	14,834 13,506 14,153	16,743 14,818 14,323	15,359 14,446 14,589	16,715 15,771 14,959	8.8 9.2 2.5	4.6 5.1 -0.9
23. Textile floor coverings	Orig. S. adj. Trend r	" " "	3,330 3,446 3,741	3,143 3,208 3,655	r 3,448 r 3,729 3,546	3,812 3,414 3,462	3,512 3,513 3,435	3,831 3,357 3,465	3,798 3,391 3,488	r 3,879 r 3,709 3,504	4,062 3,468 3,501	4.7 -6.5 -0.1	-5.7 -4.4 -7.4
24. Confectionery— Chocolate base	Orig. S. adj. Trend r	tonne " "	8,500 8,165 7,490	9,247 8,189 7,415	7,181 7,041 7,481	7,972 6,952 7,633	8,128 8,325 7,811	7,929 7,257 7,933	r 9,884 r 9,386 8,024	r 7,725 r 7,908 8,064	8,303 7,341 8,092	7.5 -7.2 0.3	-8.6 -9.2 -0.4
25. Other	Orig. S. adj. Trend r	" " "	4,866 4,982 5,188	5,476 5,371 5,293	4,620 5,485 5,417	5,659 5,339 5,525	5,823 5,753 5,570	5,936 5,337 5,526	r 6,537 r 6,076 5,406	r 5,787 r 5,173 5,237	5,427 4,384 5,049	-6.2 -15.3 -3.6	-11.1 -10.6 -4.1
26. Beer(k)	Orig. S. adj. Trend r	mil litres " "	148 159 159	152 161 158	144 144 157	r 155 r 165 158	124 160 157	153 167 157	146 r 163 156	r 130 r 145 155	185 156 155	41.7 7.1 -0.5	-4.7 -3.6 -4.6
27. Tobacco and cigarettes(l)	Orig. S. adj. Trend r	tonne " "	2,414 2,307 2,247	2,628 2,439 2,230	2,064 2,094 2,189	2,635 2,144 2,146	1,995 2,024 2,112	2,105 1,896 2,096	2,427 2,252 2,092	2,216 2,418 2,083	1,854 1,767 2,082	-16.3 -26.9 0.0	-18.1 -17.6 -7.9

(a) Includes ingots, puddled bars, plings, blocks or lumps and steel in the molten state. There is a break in the three series as data after July 1991 excludes a small proportion of total production, due to the withdrawal of consent for the ABS to release the information. The original and seasonally adjusted percentage changes between the latest month and the month immediately preceding it, and between the latest month and the corresponding month of the previous year, have been calculated using comparable data. (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 lignous 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) See paragraph 9 of Explanatory Notes. (g) Excludes combination with radio etc. (h) The recent trend estimates have been temporarily suspended because recent factory shut-downs have adversely affected their reliable estimation. However, these influences are not expected to affect the reliability of the seasonally adjusted series. (i) Includes utilities, panel vans and prime movers for semi-trailers. (j) Includes mixtures predominantly of the fibre named. (k) Includes ale and stout. Excludes beverages with alcohol content of less than 1.15 per cent. (l) Source: Australian Tobacco Marketing Advisory Committee.

EXPLANATORY NOTES

Introduction

Preliminary estimates for October 1991 for certain major indicators of production are shown in the table on page 5. Production statistics for October 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 monthly

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

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

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

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

Manufacturing Production, Australia, Plastics, Rubber, Paint, Detergents and Industrial Chemicals (8362.0) — issued monthly

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

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

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

Manufacturing Production, Australia, Wood and Wood Products (8369.0) — 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

n.y.a. not yet available

r figure or series revised since previous issue

n.a. not available

l break in continuity of series (where a line is drawn between consecutive figures in the series)



For more information ...

The ABS publishes a wide range of information on Australia's economic and social conditions. A catalogue of publications and products is available from any of our Offices (see below for contact details).

Information Consultancy Service

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