



SEPTEMBER QUARTER 2003

8301.0

MANUFACTURING PRODUCTION

AUSTRALIA

EMBARGO: 11:30AM (CANBERRA TIME) TUES 11 NOV 2003

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- For further information about these and related statistics, contact Graeme Thomas on Adelaide (08) 8237 7536 or the National Information and Referral Service on 1300 135 070.

NOTES

FORTHCOMING ISSUES

<i>ISSUE</i>	<i>RELEASE DATE</i>
December quarter 2003	11 February 2004
March quarter 2004	11 May 2004
June quarter 2004	12 August 2004

CHANGES IN THIS ISSUE

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

This issue also includes annual summary data mainly related to yarns, textiles, clothing, hosiery and footwear, which were last published in the September quarter 2002 issue of this publication. See also paragraph 20 of the Explanatory Notes.

Seasonally adjusted and trend estimates to September quarter 2003 have been revised as a result of the annual reanalysis of seasonal factors. In addition, a methodological change has been introduced with the September quarter. Concurrent seasonal adjustment has replaced forward factor methodology for the Manufacturing Production seasonally adjusted series. See paragraphs 12–16 of the Explanatory Notes.

More detailed and other commodity items are collected by the Australian Bureau of Statistics (ABS) and are available to users on request and for a charge, as are monthly series for a limited number of data items. These data items are listed in paragraph 21 of the Explanatory Notes.

EFFECTS OF ROUNDING

Estimates of change shown in this publication have been calculated using unrounded estimates and may be different from, but are more accurate than, movements obtained from the rounded estimates.

ABBREVIATIONS AND SYMBOLS

ABARE	Australian Bureau of Agricultural and Resource Economics
ABS	Australian Bureau of Statistics
DITR	Department of Industry, Tourism and Resources
n.a.	not available
n.p.	not publishable
n.y.a.	not yet available
r	figure or series revised since previous issue
—	nil or rounded to zero

Dennis Trewin
Australian Statistician

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QUARTERLY COMMODITY PRODUCTION: All series(a)

No.	Item and unit/Series	2001..... 2002..... 2003.....									Percentage changes between latest quarter shown and...		
		Sep	Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep	prev. quarter	same quarter prev. year	
1	Red meat ('000 tonnes)												
	Original	797	744	716	810	807	799	739	745	721	-3.2	-10.6	
	Seasonally adjusted	790	739	746	790	799	792	769	729	711	-2.5	-11.1	
	Trend	777	756	756	778	797	791	765	736	712	-3.3	-10.7	
2	Chicken meat ('000 tonnes)												
	Original	156	166	169	176	176	178	171	164	170	3.5	-3.2	
	Seasonally adjusted	158	162	171	178	177	174	173	166	172	3.4	-3.0	
	Trend	158	164	171	176	177	174	171	170	169	-0.3	-4.6	
3	Cheese (tonnes)												
	Original	88 694	135 867	109 710	78 386	r80 781	r122 558	r94 681	69 998	n.y.a.	-26.1	-10.7	
	Seasonally adjusted	103 113	104 041	105 840	98 040	94 068	93 982	91 310	87 340	n.y.a.	-4.3	-10.9	
	Trend	103 043	105 280	103 189	99 376	95 548	92 903	90 814	88 673	n.y.a.	-2.4	-10.8	
4	Butter (tonnes)												
	Original	35 802	57 637	41 293	28 976	37 326	56 833	32 859	21 565	n.y.a.	-34.4	-25.6	
	Seasonally adjusted	40 361	39 100	42 838	42 855	41 949	38 685	34 093	31 799	n.y.a.	-6.7	-25.8	
	Trend	41 020	40 949	41 731	42 779	41 611	38 337	34 861	32 012	n.y.a.	-8.2	-25.2	
5	Beer (megalitres)												
	Original	416	492	428	408	406	506	435	380	421	10.8	3.6	
	Seasonally adjusted	442	423	431	458	424	438	436	426	441	3.4	3.9	
	Trend	431	432	437	439	439	434	432	434	435	0.1	-1.0	
6	Tobacco and cigarettes (tonnes)												
	Original	5 196	4 522	3 843	4 806	5 280	4 709	4 362	5 210	5 258	0.9	-0.4	
	Seasonally adjusted	4 761	4 585	4 264	4 681	4 892	4 731	4 901	5 063	4 835	-4.5	-1.2	
	Trend	4 703	4 539	4 485	4 600	4 754	4 866	4 902	4 938	4 949	0.2	4.1	
7	Newsprint ('000 tonnes)												
	Original	95	99	104	100	103	101	101	r102	107	4.7	3.9	
	Seasonally adjusted	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
	Trend	96	99	101	102	102	102	103	104	106	1.6	4.1	
8	Wood pulp ('000 tonnes)(b)												
	Original	198	212	211	222	216	224	217	220	226	2.6	4.7	
	Seasonally adjusted	200	210	213	219	218	222	220	218	228	4.8	4.7	
	Trend	211	210	213	217	220	220	220	222	224	1.0	1.7	
9	Undressed sawn timber ('000 m ³)(c)												
	Original	776	1 093	1 153	1 098	962	1 204	894	n.y.a.	n.y.a.	-25.7	-22.5	
	Seasonally adjusted	774	1 102	1 171	1 073	965	1 209	899	n.y.a.	n.y.a.	-25.6	-23.2	
	Trend	891	1 033	1 104	1 108	1 068	1 043	1 009	n.y.a.	n.y.a.	-3.3	-8.6	
10	Hardwood woodchips ('000 tonnes)												
	Original	1 388	1 340	1 494	1 690	1 869	1 716	1 603	r1 891	1 823	-3.6	-2.5	
	Seasonally adjusted	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
	Trend	1 390	1 412	1 519	1 669	1 746	1 758	1 753	1 762	1 786	1.4	2.3	
11	Automotive gasoline (megalitres)												
	Original	4 714	4 251	4 433	4 602	4 612	4 462	4 437	4 473	n.y.a.	0.8	-2.8	
	Seasonally adjusted	4 601	4 345	4 524	4 519	4 532	4 552	4 562	4 372	n.y.a.	-4.2	-3.3	
	Trend	4 505	4 475	4 474	4 509	4 556	4 544	4 505	4 448	n.y.a.	-1.3	-1.3	
12	Fuel oil (megalitres)												
	Original	492	396	424	372	359	336	377	369	n.y.a.	-2.1	-0.7	
	Seasonally adjusted	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	
	Trend	454	428	401	377	360	352	359	372	n.y.a.	3.5	-1.5	
13	Aviation turbine fuel (megalitres)(d)												
	Original	1 517	1 290	1 321	1 262	1 305	1 372	1 366	1 106	n.y.a.	-19.1	-12.4	
	Seasonally adjusted	1 526	1 257	1 299	1 309	1 315	1 337	1 341	1 150	n.y.a.	-14.3	-12.2	
	Trend	1 529	1 264	1 289	1 309	1 334	1 327	1 285	1 229	n.y.a.	-4.3	-6.1	

(a) Users should note that the seasonally adjusted and trend estimates have been revised. Generally, the most recent trend estimates published in this release are likely to be improved (revised) when next quarter's seasonally adjusted estimates become available. For more information, users should refer to paragraphs 12–16 of the Explanatory Notes.

(b) Due to an abnormal movement in the original series for September quarter 2001, the trend has been modified to remove the effect. See also paragraphs 15–17 of the Explanatory Notes.

(c) The volatility in the original series over the last two years due to the introduction of the Goods and Services Tax and the First Home Owners Grant means that the seasonally adjusted and trend figures should be interpreted with caution.

(d) A trend break for December quarter 2001 has been included in this series, due to an abnormal movement in the original series for that quarter. The large downward movement in the original series has caused some uncertainty in the trend estimates from June quarter 2003. A longer span of data is required before the effects of the changes in this industry, and hence the final trend for this series, can be determined.

No.	Item and unit/Series										Percentage changes between latest quarter shown and...	
		2001.....	2002.....	2003.....						prev. quarter	same quarter prev. year	
		Sep	Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep		
14	Automotive diesel oil (megalitres)											
	Original	3 405	3 213	3 241	3 206	3 356	3 396	3 280	3 303	n.y.a.	0.7	3.0
	Seasonally adjusted	3 413	3 148	3 271	3 239	3 402	3 275	3 367	3 343	n.y.a.	-0.7	3.2
	Trend	3 342	3 256	3 232	3 275	3 325	3 336	3 342	3 341	n.y.a.	—	2.0
15	Portland cement ('000 tonnes)(b)											
	Original	1 679	1 836	1 729	1 992	2 030	1 978	1 617	1 892	2 227	17.7	9.7
	Seasonally adjusted	1 639	1 775	1 918	1 935	1 948	1 919	1 789	1 838	2 141	16.5	9.9
	Trend	1 691	1 775	1 881	1 950	1 941	1 873	1 852	1 909	2 019	5.8	4.0
16	Clay bricks (million)											
	Original	367	380	356	411	422	415	389	417	449	7.8	6.5
	Seasonally adjusted	348	379	388	400	401	410	422	411	424	3.2	5.7
	Trend	352	374	389	398	405	411	415	418	421	0.5	3.9
17	Ready mixed concrete ('000 m ³)											
	Original	4 880	4 896	4 523	5 148	5 570	5 433	4 787	5 213	5 903	13.2	6.0
	Seasonally adjusted	4 640	4 791	4 992	5 108	5 207	5 338	5 228	5 216	5 528	6.0	6.2
	Trend	4 628	4 813	4 970	5 118	5 229	5 256	5 266	5 316	5 402	1.6	3.3
18	Alumina ('000 tonnes)											
	Original	4 119	4 149	4 077	4 072	4 161	4 072	r4 013	4 161	n.y.a.	3.7	2.2
	Seasonally adjusted	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
	Trend	4 104	4 128	4 130	4 102	4 071	4 077	4 108	4 138	n.y.a.	0.8	0.9
19	Zinc ('000 tonnes)											
	Original	144	146	139	142	r140	144	146	140	n.y.a.	-4.1	-1.4
	Seasonally adjusted	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
	Trend	141	144	143	141	141	143	145	144	n.y.a.	-0.3	2.7
20	Silver (tonnes)											
	Original	154	156	147	159	159	179	179	155	n.y.a.	-13.4	-2.5
	Seasonally adjusted	157	152	149	159	162	174	180	157	n.y.a.	-13.0	-1.4
	Trend	147	152	154	156	166	172	171	167	n.y.a.	-2.5	7.0
21	Copper ('000 tonnes)											
	Original	147	137	142	137	123	143	r127	139	n.y.a.	9.4	1.5
	Seasonally adjusted	144	139	147	134	120	145	131	137	n.y.a.	4.4	2.0
	Trend	142	142	141	141	140	139	137	134	n.y.a.	-2.2	-4.6
22	Lead ('000 tonnes)(c)											
	Original	66	70	69	71	58	70	69	70	n.y.a.	1.4	-1.4
	Seasonally adjusted	67	69	70	70	59	69	70	69	n.y.a.	-1.8	-1.3
	Trend	65	69	70	69	68	69	69	69	n.y.a.	0.4	0.7
23	Tin (tonnes)											
	Original	266	187	193	183	218	197	136	157	n.y.a.	15.4	-14.2
	Seasonally adjusted	270	217	185	157	221	228	129	130	n.y.a.	0.7	-17.5
	Trend	275	225	184	164	154	145	135	128	n.y.a.	-5.2	-22.1
24	Gold (tonnes)(d)											
	Original	85	88	86	88	84	92	114	96	n.y.a.	-15.8	9.5
	Seasonally adjusted	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
	Trend	88	86	85	86	89	92	94	96	n.y.a.	1.4	11.3
25	Electricity (million kWh)											
	Original	47 412	45 977	45 814	46 650	48 462	46 459	46 159	46 128	48 641	5.4	0.4
	Seasonally adjusted	45 856	46 880	46 582	46 720	46 868	47 390	46 860	46 223	47 108	1.9	0.5
	Trend	46 328	46 404	46 652	46 814	46 998	47 037	46 855	46 704	46 663	-0.1	-0.7
26	Gas (petajoules)											
	Original	218	185	166	204	228	186	172	204	232	13.5	1.8
	Seasonally adjusted	191	200	190	194	199	200	197	194	203	4.2	1.7
	Trend	195	193	193	195	197	199	197	197	199	0.7	0.8

(a) Users should note that the seasonally adjusted and trend estimates have been revised. Generally, the most recent trend estimates published in this release are likely to be improved (revised) when next quarter's seasonally adjusted estimates become available. For more information, users should refer to paragraphs 12–16 of the Explanatory Notes.

(b) The large upward movement in the original series driven by an increase in demand in the building industry has caused some uncertainty in the trend estimates from September quarter 2003. A longer span of data is required before the effects of the changes in this industry, and hence the final trend for this series, can be determined.

(c) Due to abnormal movements in the original series for December quarter 2000 and June quarter 2001, the trend has been modified to remove these effects. See also paragraphs 15–17 of the Explanatory Notes.

(d) Due to an abnormal movement in the original series for June quarter 2001, the trend has been modified to remove the effect. See also paragraphs 14–16 of the Explanatory Notes.

No.	Item and unit	1997-98	1998-99	1999-2000	2000-01	2001-02	2002-03	Percentage change between latest year shown and prev. year
Yarns and textiles								
A1	Scoured and carbonised wool (tonnes)	165 104	129 753	118 558	124 679	99 924	88 663	-11.3
A2	Wool and man-made fibre tops (tonnes)	60 084	53 162	55 335	61 315	53 828	38 903	-27.7
A3	Wool yarn (tonnes)	18 077	17 668	19 020	14 894	15 815	14 546	-8.0
A4	Cotton yarn (tonnes)	36 897	36 814	33 368	33 203	26 926	17 902	-33.5
A5	Synthetic fibre yarn (tonnes)	12 913	10 311	11 148	9 080	7 638	7 223	-5.4
A6	Wool broadwoven fabric ('000 m ²)	6 636	6 254	5 427	4 013	3 641	3 082	-15.4
A7	Cotton broadwoven fabric ('000 m ²)	62 088	55 824	47 230	39 305	33 780	26 439	-21.7
A8	Man-made fibre broadwoven fabric ('000 m ²)	135 768	136 886	132 847	88 294	69 136	51 652	-25.3
A9	Knitted or crocheted fabrics (tonnes)	13 019	(b)14 004	14 135	14 946	9 227	6 452	-30.1
Textile floor coverings-								
A10	Of tufted wool or fine animal hair ('000 m ²)	11 709	13 286	14 894	12 732	12 825	14 867	15.9
A11	Of other tufted textile material ('000 m ²)	31 241	30 261	29 993	29 326	29 173	30 567	4.8
A12	Other ('000 m ²)	1 544	1 595	1 515	r1 456	1 291	1 372	6.3
Clothing ('000)								
A13	Men's complete suits	175	139	138	98	95	81	-14.7
A14	Men's and boys' woven coats	473	367	328	338	297	252	-15.2
A15	Men's and boys' long trousers	r3 063	2 792	2 287	1 911	r1 767	1 722	-2.6
A16	Men's and boys' shorts	1 646	1 517	1 128	941	749	568	-24.2
A17	Men's and boys' shirts	8 761	8 587	8 024	4 866	5 029	4 675	-7.0
A18	Women's and girls' woven coats, blazers and jackets	410	469	328	235	171	99	-42.1
A19	Women's and girls' long trousers	1 044	991	859	500	392	374	-4.6
A20	Women's shirts and blouses	4 144	3 697	3 387	3 870	4 988	5 718	14.6
A21	Men's and boys' knitted cardigans, jumpers, sweatshirts and sloppy-joes	1 523	1 493	1 170	924	611	538	-12.0
A22	Women's and girls' knitted cardigans, jumpers, sweatshirts and sloppy-joes	1 671	1 520	1 086	1 042	r1 111	889	-20.0
A23	Sleepwear	2 654	2 222	2 195	1 000	512	n.p.	n.p.
A24	Knitted underwear (excl. men's and boys' singlets)	17 432	15 211	13 754	n.p.	n.p.	4 660	n.p.
A25	Brassieres	4 434	n.p.	1 753	1 299	n.p.	n.p.	n.p.
A26	Men's and boys' swimwear	613	656	550	136	n.p.	58	n.p.
A27	Women's and girls' swimwear	1 619	1 777	1 861	2 204	1 880	1 736	-7.7
A28	Long jeans	2 936	2 605	1 832	935	834	728	-12.7
A29	Knitted complete tracksuits	243	258	54	90	39	35	-10.3
Hosiery ('000 pairs)								
A30	Pantyhose and tights	48 268	43 030	37 872	30 264	29 009	27 315	-5.8
A31	Women's knitted other hosiery	19 847	19 000	19 119	16 379	15 909	17 049	7.2
A32	Men's knitted hosiery	24 330	24 159	23 507	19 851	16 926	17 756	4.9
A33	Children's knitted hosiery	10 160	8 993	7 854	6 669	5 739	3 085	-46.2
Footwear ('000 pairs)								
A34	Men's	4 558	4 254	3 722	3 200	2 879	2 886	0.2
A35	Women's	6 947	6 249	5 807	4 871	3 397	2 620	-22.9
A36	Children's	862	735	169	r61	64	90	40.6
Other ('000 tonnes)								
A37	Paperboard containers	1 177	1 285	1 385	1 395	1 392	1 409	1.2
A38	Superphosphates	1 819	1 464	1 429	1 379	1 585	1 205	-23.9

(a) Refer to the Clarification of terms from page 11 for important definitional information.

(b) Commencing with 1998-99, there has been an improvement in coverage for knitted or crocheted fabrics. For 1998-99, this improved coverage contributed approximately a 6% increase in the production level for Australia.

EXPLANATORY NOTES

INTRODUCTION

1 This publication presents quarterly estimates of production of selected major manufacturing commodities for Australia.

SCOPE AND COVERAGE

2 Data presented in this publication are collected from a number of different sources. The prime source is the ABS surveys of manufacturing production. Data are also obtained from surveys undertaken by the Department of Industry, Tourism and Resources (DITR), the Australian Bureau of Agricultural and Resource Economics (ABARE), Dairy Australia and from ABS agriculture collections. Scope and coverage varies slightly depending on the source of the information.

3 Production statistics sourced from ABS manufacturing production surveys are not collected from single establishment manufacturing businesses with fewer than four persons employed, nor from establishments predominantly engaged in non-manufacturing activities but which may carry out some manufacturing in a minor way. 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.

4 The statistics on meat production include data collected from abattoirs and other major slaughtering establishments, plus estimates of animals slaughtered for human consumption on farms and by country butchers and other small slaughtering establishments. Further information about this series, including more detail, is available in the monthly publication *Livestock and Meat, Australia—Electronic Publication* (cat. no. 7218.0.55.001) and in the quarterly publication *Livestock Products, Australia* (cat. no. 7215.0).

5 The statistics on chicken meat production have been collected from commercial poultry slaughtering establishments. Many very small producers and Tasmanian producers are excluded from the collection; however, the statistics represent a high level of coverage. Further information about this series, including more detail, is available in the quarterly publication *Livestock Products, Australia* (cat. no. 7215.0).

6 Data on the production of base metals and sawn timber are obtained from the ABARE publications *Mineral Statistics* and *Australian Forest and Wood Products Statistics*.

7 Data on the production of fuels are obtained from the DITR Petroleum and International Energy Division publication *Australian Petroleum Statistics*.

8 Data on the production of cheese and butter are obtained from Dairy Australia as unpublished data.

COMPARABILITY WITH OTHER ESTIMATES

9 The quarterly production statistics presented in this publication account, in total, for less than one-fifth of the output of the manufacturing sector. For information on general trends in the manufacturing sector, refer to the publications shown in paragraphs 10, 11 and 18.

EXPLANATORY NOTES *continued*

COMPARABILITY WITH OTHER ESTIMATES *continued*

10 Details of the value of manufacturers' sales and inventories are published quarterly in *Business Indicators, Australia* (cat. no. 5676.0) (which has replaced *Inventories and Sales, Selected Industries, Australia* (cat. no. 5629.0)).

Information about the manufacturing sector's contribution to the Australian economy is published quarterly in *Australian National Accounts: National Income, Expenditure and Product* (cat. no. 5206.0).

11 Details from the annual manufacturing collection are published in *Manufacturing Industry, Australia* (cat. no. 8221.0) and corresponding state publications.

SEASONALLY ADJUSTED AND TREND ESTIMATES

12 In the seasonal adjustment process, 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 quarter) which may, in successive years, affect figures for different quarters. Details of the methods used in seasonally adjusting these series are available on request.

13 Seasonal adjustment procedures do not aim to remove the irregular or non-seasonal influences which may be present in any particular quarter, such as the non-systematic effect of strikes, holiday shutdowns, providers' inconsistent reporting periods (where, for example, a 'quarter' may variously represent 13 or 14 weeks production), 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. Seasonally adjusted estimates of production for the series 8 Wood pulp, 14 Automotive diesel oil, 20 Silver, 21 Copper, 22 Lead and 23 Tin are more volatile than other series. Seasonally adjusted estimates for 7 Newsprint, 10 Hardwood woodchips, 18 Alumina and 19 Zinc are not sufficiently reliable to be published, while those for 12 Fuel oil and 24 Gold do not exhibit sufficient seasonal behaviour to be published.

14 From September quarter 2003, the seasonally adjusted estimates are produced by the concurrent seasonal adjustment method which takes account of the latest available original estimates. The concurrent method improves the estimation of seasonal factors, and therefore, the seasonally adjusted and trend estimates for the current and previous quarters. As a result of this improvement, revisions to the seasonally adjusted and trend estimates will be observed for recent periods. The estimates that will improve the most will be for the current quarter, previous quarter and the same quarter one year ago. The concurrent seasonal adjustment methodology replaces the forward factor methodology previously used to adjust Manufacturing Production series, where seasonal factors were only revised following an annual reanalysis.

15 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 7-term moving average to the quarterly seasonally adjusted series. The 7-term Henderson averages (like all Henderson averages) are symmetric but, as the end of a time series is approached, asymmetric forms of the average are applied. Unlike the weights of the standard 7-term Henderson moving average, the surrogate weights employed with the quarterly data have been tailored to suit the particular characteristics of individual series.

SEASONALLY ADJUSTED AND TREND ESTIMATES *continued*

16 While the asymmetric weights enable trend estimates for recent quarters to be produced, it does result in revisions to the estimates for the most recent quarters as additional observations become available. Generally, subsequent revisions become smaller and after two quarters have little impact on the series. There will also be revisions as a result of changes to the original estimates and annual reviews of seasonal and 'working day' factors.

17 More detailed up-to-date information on smoothing of seasonally adjusted time series data is available in unpublished form. Interested users should contact the ABS's Time Series Analysis section, on Canberra 02 6252 6345 or by email to <timeseries@abs.gov.au>.

ACKNOWLEDGEMENT

18 ABS publications draw extensively on information provided freely by individuals, businesses, governments and other organisations. Their continued cooperation is very much appreciated: without it, the wide range of statistics published by the ABS would not be available. Information received by the ABS is treated in strict confidence as required by the *Census and Statistics Act 1905*.

RELATED PUBLICATIONS

- 19** Other ABS publications which may be of interest are:
- *Australian National Accounts: National Income, Expenditure and Product* (cat. no. 5206.0) Quarterly
 - *Business Indicators, Australia* (cat. no. 5676.0) Quarterly
 - *Electricity, Gas, Water and Sewerage Industries, Australia, 1999–2000* (cat. no. 8208.0)
 - *Experimental Estimates, Australian Industry, a State Perspective* (cat. no. 8156.0)
 - *Livestock and Meat, Australia—Electronic Publication* (cat. no. 7218.0.55.001) Monthly
 - *Livestock Products, Australia* (cat. no. 7215.0) Quarterly
 - *Manufacturing, Australia, 2001* (cat. no. 8225.0)
 - *Manufacturing Industry, Australia, 2000–2001* (cat. no. 8221.0)
 - *Manufacturing Industry, Australia, Preliminary, 2000–01* (cat. no. 8201.0)
 - *Mining Operations, Australia, 2000–2001* (cat. no. 8415.0)
 - *Information Paper: Availability of Statistics Related to Manufacturing, 1997* (cat. no. 8205.0)

OTHER PUBLISHED STATISTICS

20 Some annual manufacturing production series which mainly relate to textiles, clothing and footwear are now published in the September quarter issues of this publication. Selected annual food series (which are now collected less frequently) were last published in the September quarter 2000 issue.

EXPLANATORY NOTES *continued*

ABS DATA AVAILABLE ON REQUEST

21 More detailed and other commodity items are collected by the ABS and are available to users on request and for a charge. Items for which additional production data are available are:

- beer
- cars and station wagons
- clay bricks (for structural purposes)
- clay bricks (for other than structural purposes)
- commercial office furniture
- concrete bricks, blocks and pavers
- cotton broadwoven fabric
- hosiery
- knitted sweatshirts and sloppy-joes
- knitted underwear
- malt
- man-made fibre broadwoven fabric
- men's and boys' long trousers
- men's and boys' shirts
- men's and boys' woven coats
- mowers
- other clothing (excluding those listed here)
- plasterboard
- Portland cement and cement clinkers
- ready mixed concrete
- roofing tiles
- semi-trailers
- synthetic fibre yarn
- textile floor coverings
- water heaters
- women's knitted briefs and panties
- women's shirts and blouses
- women's footwear
- wool broadwoven fabric
- wool yarn

For further information, please contact Graeme Thomas on Adelaide 08 8237 7536.

22 The value of sales for commodities produced (classified in accordance with the Manufacturing Input-Output Commodity Classification) is collected in the annual manufacturing industry survey, and is available to users on request and for a charge. For further information, please contact John Ridley on Sydney 02 9268 4541.

CURRENT PUBLICATIONS

23 Current publications and other products released by the ABS are listed in the *Catalogue of Publications and Products* (cat. no. 1101.0). The Catalogue is available from any ABS office or the ABS web site <<http://www.abs.gov.au>>. The ABS also issues a daily Release Advice on the web site which details products to be released in the week ahead.

APPENDIX CLARIFICATION OF TERMS

- 1 **Red meat** Includes veal, pork and buffalo.
- 2 **Chicken meat** Expressed in the dressed weight of whole birds, pieces and giblets.
- 3 **Cheese** Includes fresh cheeses such as ricotta, cottage, cream and quark.
- 4 **Butter** Includes direct butter oil.
- 5 **Beer** Includes ale, stout and porter; excludes low alcohol beer containing less than 1.15% but more than 0.5%, by volume of alcohol.
- 6 **Tobacco and cigarettes** Includes those containing tobacco substitutes.
- 7 **Newsprint** Excludes directory paper, mechanical and printing paper.
- 8 **Wood pulp** Expressed as air-dried weight.
- 9 **Undressed sawn timber** Expressed in terms of green off saw volumes.
- 10 **Hardwood woodchips** Expressed as greenweight; excludes chips which are not sold or are used in own works.
- 11 **Automotive gasoline** Produced by Australian refineries from imported and indigenous petroleum.
- 12 **Fuel oil** Oils derived from the distillation of petroleum which are generally used for domestic heating or fuelling furnaces; produced by Australian refineries from imported and indigenous petroleum.
- 13 **Aviation turbine fuel** Produced by Australian refineries from imported and indigenous petroleum.
- 14 **Automotive diesel oil** Produced by Australian refineries from imported and indigenous petroleum.
- 15 **Portland cement** Includes blended Portland cement. Excludes both Portland cement clinker and Portland cement used to make blended Portland cement in-house.
- 16 **Clay bricks** Saleable bricks (of all sizes) removed from kiln; excludes firebricks and bricks for other than structural purposes.
- 17 **Ready mixed concrete** Excludes production used or for use within the same business.
- 18 **Alumina** Aluminium oxide.
- 19 **Zinc** Primary origin only.
- 20 **Silver** Refined.
- 21 **Copper** Primary origin only.
- 22 **Lead** Includes lead content of lead from primary sources.
- 23 **Tin** Primary origin only.
- 24 **Gold** From primary and secondary sources.
- 25 **Electricity** Excludes purchases or transfers in of electricity.
- 26 **Gas** Gas (including natural gas) available for issue through mains, including gas production for distribution via natural gas pipelines which service a single user.

APPENDIX CLARIFICATION OF TERMS *continued*

A1 Scoured and carbonised wool	Includes scoured and carbonised wool used in further processing (e.g. for production of tops). Excludes scoured wool used for carbonising in the same establishment.
A2 Wool and man-made fibre tops	Tops of, or predominantly of, sheep's or lamb's wool or man-made fibres.
A3 Wool yarn	Of, or predominantly of, sheep's or lamb's wool. Excludes elastic or elastomeric.
A4 Cotton yarn	Of, or predominantly of, cotton, of weight less than 2,000 tex. Excludes sewing thread, elastic or elastomeric.
A5 Synthetic fibre yarn	Of, or predominantly of, synthetic fibre. Excludes artificial fibres (e.g. viscose, acetate), sewing thread, elastic or elastomeric.
A6 Wool broadwoven fabric	Of, or predominantly of, sheep's or lamb's wool or fine animal hair. Excludes elastic fabrics.
A7 Cotton broadwoven fabric	Of, or predominantly of, cotton. Excludes gauze and elastic fabrics.
A8 Man-made fibre broadwoven fabric	Of, or predominantly of, man-made fibres. Excludes elastic or tyre cord.
A9 Knitted or crocheted fabrics	Excludes tufted, elastic and elastomeric knitted or crocheted fabrics and parts knitted to shape for garments and other articles.
A10–A12 Textile floor coverings	Consists of carpets, carpeting (excluding underfelt), floor rugs, mats and matting of, or predominantly of, textile materials other than coir, sisal, or other hard fibres. Excludes products designed for automotive purposes.
A13 Men's complete suits	Chest measurement 86cm and over. Of woven fabric; with or without waistcoats. Includes six-way suits; excludes uniforms.
A14 Men's and boys' woven coats	All lengths, of woven fabric. Includes suit coats, sports coats, blazers, structured jackets and those for uniforms; excludes coats as part of 'complete suits', parkas, waterproof coats/jackets, dustcoats and shave coats.
A15 Men's and boys' long trousers	Excludes suit trousers if part of 'complete suits', jeans and waterproof type.
A16 Men's and boys' shorts	Excludes swimshorts and boardshorts designed for swimwear.
A17 Men's and boys' shirts	Excludes sweatshirts and nightshirts.
A18 Women's and girls' woven coats, blazers and jackets	Excludes dustcoats, housecoats, parkas, other waterproof coats/jackets, and those which are part of complete suits or ensembles.
A19 Women's and girls' long trousers	Includes overalls and slacks; excludes suit trousers if part of complete suits or ensembles, jeans and waterproof type.
A20 Women's shirts and blouses	Includes T-shirts and tank tops; excludes sweatshirts and workshirts.
A21–A22 Knitted cardigans, jumpers, sweatshirts and sloppy-joes	Includes those of crocheted fabric. Includes sweaters, pullovers, twin sets, Rugby-style jumpers; excludes jackets for tracksuits, sweatsuits, jogging suits and leisure suits.
A23 Sleepwear	All sizes; of woven, knitted, or crocheted fabric.

APPENDIX CLARIFICATION OF TERMS *continued*

A24 Knitted underwear	Includes crocheted. Excludes men's and boys' singlets, and all fashion singlets and T-shirts.
A25 Brassieres	Short and other.
A26 Men's and boys' swimwear	Knitted or woven. Includes boardshorts designed for swimwear.
A27 Women's and girls' swimwear	Knitted or woven.
A28 Long jeans	All sizes.
A29 Knitted complete tracksuits	Knitted or crocheted. Includes sweatsuits, jogging suits, leisure suits and jump suits.
A30 Pantyhose and tights	Excludes leotards and body stockings. Production figures for periods prior to December quarter 1997 exclude pantyhose and tights of 4.4 tex or greater.
A31–A33 Knitted hosiery	Includes crocheted.
A34–A36 Footwear	Includes sheepskin and furskin products; excludes thongs, waterproof footwear (of rubber or plastic) and sports footwear. Men's and women's footwear each comprises size 2 second size range and above; children's footwear comprises sizes below size 2 second size range.
A37 Paperboard containers	Includes corrugated paperboard and paperboard containers.
A38 Superphosphates	Expressed in terms of single super phosphate (9% P equivalent).

FOR MORE INFORMATION...

- INTERNET* **www.abs.gov.au** the ABS web site is the best place to start for access to summary data from our latest publications, information about the ABS, advice about upcoming releases, our catalogue, and Australia Now—a statistical profile.
- LIBRARY* A range of ABS publications is available from public and tertiary libraries Australia-wide. Contact your nearest library to determine whether it has the ABS statistics you require, or visit our web site for a list of libraries.
- CPI INFOLINE* For current and historical Consumer Price Index data, call 1902 981 074 (call cost 77c per minute).
- DIAL-A-STATISTIC* For the latest figures for National Accounts, Balance of Payments, Labour Force, Average Weekly Earnings, Estimated Resident Population and the Consumer Price Index call 1900 986 400 (call cost 77c per minute).

INFORMATION SERVICE

Data which have been published and can be provided within five minutes are free of charge. Our information consultants can also help you to access the full range of ABS information—ABS user-pays services can be tailored to your needs, time frame and budget. Publications may be purchased. Specialists are on hand to help you with analytical or methodological advice.

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2830100009034
ISSN 1323-3645

RRP \$18.50