



DECEMBER QUARTER 2003

8301.0

MANUFACTURING PRODUCTION

AUSTRALIA

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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 (Quarter)</i>	<i>RELEASE DATE</i>
	March 2004	11 May 2004
	June 2004	12 August 2004

CHANGES IN THIS ISSUE

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

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										Percentage changes between latest quarter shown and...	
		2001.....			2002.....			2003.....			prev. quarter	same quarter prev. year
		Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec		
1	Red meat ('000 tonnes)											
	Original	744	716	810	807	799	739	745	721	757	5.0	-5.2
	Seasonally adjusted	737	746	790	802	788	770	730	714	749	5.0	-4.9
	Trend	755	756	779	797	790	762	738	729	730	0.2	-7.7
2	Chicken meat ('000 tonnes)											
	Original	166	169	176	176	178	171	164	170	176	3.4	-1.5
	Seasonally adjusted	162	171	178	177	174	173	166	172	171	-0.6	-1.8
	Trend	164	171	176	177	175	171	170	170	170	0.4	-2.3
3	Cheese (tonnes)											
	Original	135 867	109 710	78 386	80 781	122 558	94 681	69 998	76 029	n.y.a.	8.6	-5.9
	Seasonally adjusted	104 065	105 898	98 048	93 931	94 019	91 382	87 354	88 540	n.y.a.	1.4	-5.7
	Trend	105 288	103 207	99 360	95 510	92 688	90 884	88 976	87 575	n.y.a.	-1.6	-8.3
4	Butter (tonnes)											
	Original	57 637	41 293	28 976	37 326	56 833	32 859	21 565	26 869	n.y.a.	24.6	-28.0
	Seasonally adjusted	39 070	43 151	42 703	41 741	38 667	34 396	31 682	29 963	n.y.a.	-5.4	-28.2
	Trend	40 970	41 792	42 736	41 520	38 390	34 929	31 943	29 919	n.y.a.	-6.3	-27.9
5	Beer (megalitres)											
	Original	492	428	408	406	506	435	380	421	490	16.5	-3.2
	Seasonally adjusted	425	432	455	424	440	437	423	440	425	-3.3	-3.4
	Trend	432	437	438	439	435	433	433	430	430	-0.1	-1.1
6	Tobacco and cigarettes (tonnes)											
	Original	4 522	3 843	4 806	5 280	4 709	4 362	5 210	5 258	4 526	-13.9	-3.9
	Seasonally adjusted	4 618	4 263	4 672	4 862	4 776	4 900	5 052	4 804	4 554	-5.2	-4.6
	Trend	4 547	4 487	4 593	4 751	4 876	4 934	4 920	4 813	4 655	-3.3	-4.5
7	Newspprint ('000 tonnes)											
	Original	99	104	100	103	101	101	102	107	106	-1.2	5.1
	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	99	101	102	102	102	103	104	106	107	0.6	4.9
8	Wood pulp ('000 tonnes)(b)											
	Original	212	211	222	216	224	217	220	226	207	-8.6	-7.8
	Seasonally adjusted	211	213	219	217	223	220	217	228	206	-9.6	-7.7
	Trend	210	213	217	220	220	221	221	221	221	-0.2	0.3
9	Undressed sawn timber ('000 m ³)(c)											
	Original	1 093	1 153	1 098	962	1 204	r893	990	n.y.a.	n.y.a.	10.9	-9.8
	Seasonally adjusted	1 098	1 183	1 076	955	1 206	908	977	n.y.a.	n.y.a.	7.6	-9.2
	Trend	1 034	1 108	1 109	1 065	1 041	1 010	969	n.y.a.	n.y.a.	-4.1	-12.6
10	Hardwood woodchips ('000 tonnes)											
	Original	1 340	1 494	1 690	1 869	1 716	1 603	1 891	1 823	1 786	-2.0	4.1
	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	1 413	1 519	1 668	1 746	1 760	1 752	1 761	1 795	1 825	1.7	3.7
11	Automotive gasoline (megalitres)											
	Original	4 251	4 433	4 602	4 612	4 462	4 437	4 473	4 345	n.y.a.	-2.9	-5.8
	Seasonally adjusted	4 347	4 519	4 508	4 547	4 554	4 557	4 360	4 272	n.y.a.	-2.0	-6.1
	Trend	4 476	4 471	4 507	4 559	4 557	4 498	4 396	4 303	n.y.a.	-2.1	-5.6
12	Fuel oil (megalitres)											
	Original	396	424	372	359	336	377	369	295	n.y.a.	-20.1	-17.8
	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	429	400	376	362	356	356	348	333	n.y.a.	-4.2	-7.8
13	Aviation turbine fuel (megalitres)(d)											
	Original	1 290	1 321	1 262	1 305	1 372	1 366	1 106	1 131	n.y.a.	2.3	-13.3
	Seasonally adjusted	1 258	1 295	1 306	1 320	1 339	1 336	1 146	1 146	n.y.a.	—	-13.2
	Trend	1 264	1 288	1 309	1 335	1 333	1 281	1 205	1 147	n.y.a.	-4.9	-14.1

(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.....			2003.....				prev. quarter	same quarter prev. year
		Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec		
14	Automotive diesel oil (megalitres)											
	Original	3 213	3 241	3 206	3 356	3 396	3 280	3 303	2 983	n.y.a.	-9.7	-11.1
	Seasonally adjusted	3 151	3 270	3 234	3 403	3 279	3 367	3 337	2 966	n.y.a.	-11.1	-12.9
	Trend	3 257	3 232	3 274	3 326	3 346	3 338	3 307	3 279	n.y.a.	-0.8	-1.4
15	Portland cement ('000 tonnes)(b)											
	Original	1 836	1 729	1 992	2 030	1 978	1 617	1 892	2 227	2 329	4.6	17.8
	Seasonally adjusted	1 764	1 916	1 947	1 952	1 904	1 788	1 851	2 146	2 265	5.5	19.0
	Trend	1 771	1 881	1 954	1 942	1 868	1 834	1 920	2 082	2 255	8.3	20.7
16	Clay bricks (million)											
	Original	380	356	411	422	415	389	417	449	409	-8.9	-1.5
	Seasonally adjusted	379	388	400	400	411	422	411	423	410	-3.2	-0.2
	Trend	374	389	398	405	411	416	418	416	414	-0.7	0.6
17	Ready mixed concrete ('000 m ³)											
	Original	4 896	4 523	5 148	5 570	5 433	4 787	5 213	5 903	5 541	-6.1	2.0
	Seasonally adjusted	4 794	4 991	5 104	5 209	5 342	5 226	5 212	5 531	5 478	-1.0	2.5
	Trend	4 814	4 970	5 117	5 230	5 257	5 265	5 316	5 412	5 517	2.0	5.0
18	Alumina ('000 tonnes)											
	Original	4 149	4 077	4 072	4 161	4 072	4 013	4 161	4 125	n.y.a.	-0.9	-0.9
	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	4 129	4 127	4 100	4 075	4 083	4 102	4 106	4 104	n.y.a.	—	0.7
19	Zinc ('000 tonnes)											
	Original	146	139	142	140	144	146	140	141	n.y.a.	0.7	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	144	143	141	141	143	145	143	140	n.y.a.	-2.1	-0.6
20	Silver (tonnes)											
	Original	156	147	159	159	179	179	155	159	n.y.a.	2.6	—
	Seasonally adjusted	152	149	159	162	174	180	157	161	n.y.a.	2.7	-0.3
	Trend	152	154	156	166	172	171	166	159	n.y.a.	-3.9	-3.9
21	Copper ('000 tonnes)											
	Original	137	142	137	123	143	127	139	121	n.y.a.	-12.9	-1.6
	Seasonally adjusted	139	147	133	122	144	131	135	120	n.y.a.	-11.2	-1.5
	Trend	142	141	140	141	140	136	130	123	n.y.a.	-4.9	-12.3
22	Lead ('000 tonnes)(c)											
	Original	70	69	71	58	70	69	70	69	n.y.a.	-1.4	19.0
	Seasonally adjusted	69	70	70	59	69	70	69	70	n.y.a.	1.8	18.8
	Trend	69	70	69	68	69	69	70	70	n.y.a.	—	1.7
23	Tin (tonnes)											
	Original	187	193	183	218	197	136	157	166	n.y.a.	5.7	-23.9
	Seasonally adjusted	217	185	163	216	227	129	136	164	n.y.a.	0.8	-17.2
	Trend	224	185	165	153	141	137	141	151	n.y.a.	6.5	-1.6
24	Gold (tonnes)(d)											
	Original	88	86	88	84	92	114	96	101	n.y.a.	5.2	20.2
	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	86	85	86	89	91	95	99	103	n.y.a.	3.9	16.1
25	Electricity (million kWh)											
	Original	45 977	45 814	46 650	48 462	46 459	46 159	46 128	48 641	46 261	-4.9	-0.4
	Seasonally adjusted	46 800	46 586	46 778	46 896	47 285	46 869	46 290	47 138	46 924	-0.5	-0.8
	Trend	46 383	46 654	46 835	46 997	47 010	46 840	46 738	46 804	46 980	0.4	-0.1
26	Gas (petajoules)											
	Original	185	166	204	228	186	172	204	232	188	-18.8	1.0
	Seasonally adjusted	199	190	194	199	200	196	195	203	202	-0.6	0.9
	Trend	193	193	195	197	198	197	198	200	203	1.4	2.0

(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.

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 19.

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.

EXPLANATORY NOTES *continued*

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.

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.
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