



# MANUFACTURING PRODUCTION

AUSTRALIA

EMBARGO: 11:30AM (CANBERRA TIME) FRI 10 MAY 2002

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 For further information about these and related statistics, contact Denis Linney on Sydney 02 9268 4219 or the National Information and Referral Service on 1300 135 070.

	NOTES						
FORTHCOMING ISSUES	ISSUE		RELEASE DATE				
	June qua	rter 2002	9 August 2002				
		er quarter 2002	11 November 2002				
	Decembe	December quarter 2002 11 February 2003					
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IN THISISSUE		lication presents quarte turing production for Au	rly estimates of selected major indicators of Istralia.				
	More det	More detailed and other commodity items are collected by the Australian Bureau of					
			to users on request and for a charge, as are monthly				
			ta items. These data items are listed in paragraph 20 of				
	the Expla	natory Notes on page 7					
EFFECTS OF ROUNDING	Estimates	s of change shown in th	is publication have been calculated using unrounded				
	estimates	s and may be different fr	rom, but are more accurate than, movements obtained				
	from the	rounded estimates.					
	• • • •	• • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •				
ABBREVIATIONS AND	ABARE	Australian Bureau of A	Agricultural and Resource Economics				
SYMBOLS	ABS	Australian Bureau of	Statistics				
	ADC	Australian Dairy Corp	oration				
	DITR	Department of Indus	try, Tourism and Resources				
	n.a.	not available					
	n.p.	not publishable					
	n.y.a.	not yet available					
	р	preliminary					
	r	figure or series revise	d since previous issue				
	_	nil or rounded to zero	0				
	Dennis	Trewin					

Australian Statistician

#### QUARTERLY COMMODITY PRODUCTION: All series(a)

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200	00			200	)1			20	02	Percentag between la quarter sh	-
										prev.	same quarter
	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	Mar	quarter	prev. year

											prev.	quarter
No.	Item and unit/Series	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	Mar	quarter	prev. year
• • •		•••••	• • • • • •		• • • • • •	• • • • • •		• • • • • •		• • • • • •	•••••	
1	Red meat ('000 tonnes)											
	Original r	746	780	801	794	773	804	791		710	-3.9	-8.1
	Seasonally adjusted r	758	777	795	791	785	801	787	737	723	-1.8	-7.9
-	Trend	759	774	786	792	796	793	776	749	724	-3.4	-9.1
2	Chicken meat ('000 tonnes)											
	Original	150	152	152	162	151	155	156		168	1.2	11.8
	Seasonally adjusted	150	154	155	157	151	157	158		170	5.3	12.6
	Trend	151	154	155	155	154	155	158	163	167	2.6	8.3
3	Cheese (tonnes)											
	Original	98 737	74 887		114 323	90 786	79 788		124 277	n.y.a.	31.2	8.7
	Seasonally adjusted	95 571	96 530	89 173	85 676	87 899	102 411	110 807	93 234	n.y.a.	-15.9	8.8
	Trend	93 937	93 627	89 955	86 919	92 108	99 733	103 124	101 996	n.y.a.	-1.1	17.3
4	Butter (tonnes)											
	Original	39 831	28 020	36 525	56 685	36 982	29 409	r35 870	57 923	n.y.a.	61.5	2.2
	Seasonally adjusted	40 971	43 337	42 349	37 333	38 138	45 102	r41 505	38 223	n.y.a.	-7.9	2.4
	Trend	42 192	42 239	40 664	39 393	40 082	41 581	41 620	40 175	n.y.a.	-3.5	2.0
5	Beer (megalitres)											
	Original	421	402	414	500	451	380	416	492	428	-13.1	-5.1
	Seasonally adjusted	420	449	440	429	451	426	448	417	433	3.8	-3.9
	Trend	437	436	440	439	438	438	434	430	429	-0.2	-2.1
6	Tobacco and cigarettes (tonnes)											
	Original	5 169	4 860	5 185	4 763	4 217	4 959	5 196	4 522	3 843	-15.0	-8.9
	Seasonally adjusted	5 547	4 745	4 836	4 892	4 592	4 851	4 772	4 698	4 127	-12.1	-10.1
	Trend	5 319	5 079	4 802	4 745	4 766	4 789	4 744	4 573	4 324	-5.4	-9.3
7	Newsprint ('000 tonnes)											
	Original	98	96	100	97	100	94	95	99	104	4.2	3.2
	Seasonally adjusted	96	97	99	100	100	95	93	100	104	3.8	4.5
	Trend	96	98	99	100	98	95	96	99	102	3.4	4.5
8	Wood pulp ('000 tonnes)											
	Original	221	216	226	227	220	222	198	212	211	-0.6	-4.0
	Seasonally adjusted	222	215	228	225	221	221	199	210	212	1.4	-4.0
	Trend	217	221	224	226	222	215	209	208	209	0.8	-5.9
9	<b>Undressed sawn timber</b> ('000 m <sup>3</sup> )											
	Original	996	1 018	1 019	r853	r805	r846	819	n.y.a.	n.y.a.	-3.2	-19.6
	Seasonally adjusted	1 028	1 002	962	r894	r828	r835	773	n.y.a.	n.y.a.	-7.4	-19.6
	Trend	1 015	1 002	956	897	849	813	785	n.y.a.	n.y.a.	-3.4	-17.9
10	Hardwood woodchips ('000 tonnes)											
	Original	1 524	1 671	1 717	1 674	1 434	1 576	1 388	1 340	1 494	11.5	4.2
	Seasonally adjusted	1 576	1 614	1 684	1 712	1 483	1 524	1 362	1 370	1 545	12.8	4.2
	Trend	1 575	1 639	1 674	1 648	1 566	1 456	1 408	1 422	1 460	2.7	-6.7
11	Automotive gasoline (megalitres)											
	Original	4 429	4 607	4 524	4 398	4 321	4 644	4 714	4 251	n.y.a.	-9.8	-3.3
	Seasonally adjusted	4 510	4 477	4 487	4 441	4 475	4 512	4 636	4 327	n.y.a.	-6.7	-2.6
	Trend	4 587	4 480	4 453	4 455	4 494	4 527	4 511	4 454	n.y.a.	-1.3	-0.0
12	Fuel oil (megalitres)											
	Original	539	464	475	527	505	444	492	396	n.y.a.	-19.6	-24.9
	Seasonally adjusted	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.y.a.	n.p.	n.p.
	Trend	494	505	494	490	498	485	455	424	n.y.a.	-6.9	-13.5
13	Aviation turbine fuel (megalitres)(b)											
	Original	1 393	1 376	1 418	1 463	1 509	1 446	1 517	1 290	n.y.a.	-15.0	-11.8
	Seasonally adjusted	1 374	1 438	1 411	1 428	1 493	1 503	1 509	1 261	n.y.a.	-16.5	-11.7
	Trend	1 394	1 410	1 423	1 445	1 490	1 495	1 440	1 363	n.y.a.	-5.3	-5.7
14	Automotive diesel oil (megalitres)											
	Original	3 025	3 021	3 052	3 471	3 288	3 401	3 405	3 213	n.y.a.	-5.6	-7.5
	Seasonally adjusted	3 053	3 016	3 162	3 315	3 372	3 394	3 488	3 109	n.y.a.	-10.9	-6.2
	Trend	3 082	3 056	3 153	3 279	3 392	3 411	3 354	3 265	n.y.a.	-2.6	-0.4

(a) 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 12–15 of the Explanatory Notes.

(b) The recent large downward movement in this series has caused some uncertainty in

the trend estimates from December quarter 2001. A larger span of data is required before the effects of the changes in the aviation fuel industry, and hence the final trend for this series, can be determined.

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#### QUARTERLY COMMODITY PRODUCTION: All series(a) continued

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#### Percentage changes between latest 2000..... quarter shown and .... same prev. quarter Item and unit/Series Mar Sep Dec Mar Jun Sep Dec Mar quarter No. Jun prev. vear . . . . . . . . . . . . 15 Portland cement ('000 tonnes) Original 1 835 2 070 1 898 1 652 1 554 1717 1679 1 836 1 729 -5.8 11.3 Seasonally adjusted 1 996 2 0 2 7 1 826 1 623 1 693 1 681 1 628 1 7 7 6 1 914 7.8 131 Trend(b) 2 015 1 993 1879 1744 1 656 1 642 1 693 1770 1 869 5.6 12.9 16 Clay bricks (million) Original 423 450 420 382 298 348 367 380 356 -6.2 19.6 Seasonally adjusted 458 440 396 385 325 341 344 383 388 1.3 19.4 Trend(b) 446 443 415 375 344 335 351 373 391 4.8 13.8 17 Ready mixed concrete ('000 m<sup>3</sup>) -74 Original 4 880 5 3 4 9 4 6 7 9 4 188 3 9 3 2 4 4 5 2 r4 880 4 896 4 5 3 1 15.2Seasonally adjusted 4 4 4 1 5 262 5 3 0 5 4 1 4 5 4 2 3 8 4 4 1 2 r4 633 4 8 4 9 4 884 0.7 15.2 Trend(b) 5 304 5 157 4 758 4 359 4 221 4 921 4 385 4 6 2 6 4 797 2.6 16.6 18 Alumina ('000 tonnes) 3 710 3 918 4 004 4 0 4 9 3 950 4 0 9 6 4 119 4 106 -0.3 1.4 Original n.y.a. Seasonally adjusted 3 7 7 6 3 890 3 940 4 0 3 7 4 053 4 0 6 7 4 081 4 0 7 9 -0.1 1.0 n.y.a. Trend 3 787 3 873 3 957 4 0 1 9 4 055 4 0 7 0 4 077 4 082 0.1 1.6 n.y.a. 19 Zinc ('000 tonnes) Original 112 112 139 130 127 137 144 146 1.4 12.3 n.y.a. Seasonally adjusted n.p. n.p. n.p. n.n. n.n. n.p. n.n. n.n. n.v.a. n.p. n.p. Trend 114 120 127 132 133 136 141 144 n.y.a. 2.3 9.4 20 Silver (tonnes) Original 131 149 110 148 140 134 r154 148 n.y.a. -3.9 \_ Seasonally adjusted 147 137 141 111 148 128 r155 148 n.y.a. -4.8 -0.2 Trend 134 131 132 135 140 143 145 149 n.y.a. 3.0 10.2 21 Copper ('000 tonnes) Original -5.4 9.4 114 126 117 127 133 141 147 139 n.v.a. Seasonally adjusted 121 119 114 132 140 133 143 145 n.y.a. 0.9 9.4 Trend 120 118 121 128 135 139 141 144 2.0 12.1 n.v.a. 22 Lead ('000 tonnes) 55 55 51 63 54 47 66 70 Original n.y.a. 6.1 11.1 Seasonally adjusted 54 54 52 63 53 46 67 70 n.y.a. 4.4 11.1 Trend 56 54 56 56 54 55 61 69 n.y.a. 12.2 23.2 23 Tin (tonnes) Original 155 180 216 182 296 345 266 187 n.y.a. -29.7 2.7 Seasonally adjusted n.p. n.p. n.p. n.p. n.p. n.p. n.p. n.y.a. n.p. n.p. n.p. Trend 152 171 196 237 281 295 275 238 n.y.a. -13.40.7 24 Gold (tonnes) 88 3.7 7.6 Original 101 78 82 92 108 85 88 n.v.a. Seasonally adjusted n.p. n.p. n.p. n.p. n.p. n.p. n.p. n.p. n.y.a. n.p. n.p. Trend(c) 96 91 85 86 91 96 94 89 -5.5 3.6 n.y.a. 25 Electricity (million kWh) Original 46 040 47 374 49 387 45 977 46 865 46 317 47 412 45 977 45 814 -0.4 -2.2 Seasonally adjusted 47 207 47 397 47 867 46 804 46 544 47 196 46 157 45 582 47 177 -0.8 -2.2Trend 46 501 47 067 47 433 47 525 47 085 46 500 46 285 46 505 46 987 -0.2 1.0 26 Gas (petajoules) Original 164 199 213 173 177 205 218 185 166 -10.3 -5.9 Seasonally adjusted 189 187 187 186 203 193 191 200 191 -4.4 -6.0 Trend 186 187 188 191 195 196 195 194 194 0.1 -0.2

(a) 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 12–15 of the Explanatory Notes.

(b) Due to an abnormal movement in the original series for September quarter 2000, the trend has been modified to remove the effect. See also paragraphs 14–16 of the Explanatory Notes.

(c) Due to an abnormal movement in the original series for December quarter 1999, the trend has been modified to remove the effect. See also paragraphs 14–16 of the Explanatory Notes.

#### INTRODUCTION

SCOPE AND COVERAGE

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

**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), the Australian Dairy Corporation (ADC) 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 of 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* (Cat. no. 7218.0) and in the quarterly publication *Livestock Products, Australia* (Cat. no. 7215.0).

**5** The statistics on chicken meat 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 Products Statistics*.

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

**8** Data on the production of cheese and butter are obtained from the ADC 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.

**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).

#### COMPARABILITY WITH OTHER ESTIMATES continued

**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 20 Silver, 21 Copper, and 22 Lead are more volatile than other series. Seasonally adjusted estimates for 19 Zinc and 23 Tin 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** 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.

**15** 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.

**16** 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 through the internet to timeseries@abs.gov.au.

#### ACKNOWLEDGEMENT

**17** 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

18	Other ABS	publications	which may	v be of	f interest are:
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- Australian National Accounts: National Income, Expenditure and Product (Cat. no. 5206.0) issued quarterly
- Business Indicators, Australia (Cat. no. 5676.0) issued quarterly
- Electricity, Gas, Water and Sewerage Industries, Australia, 1999–2000 (Cat. no. 8208.0), released on 28 August 2001
- Experimental Estimates, Australian Industry, a State Perspective (Cat. no. 8156.0) released on 21 March 2002
- Information Paper: Availability of Statistics Related to Manufacturing, 1997 (Cat. no. 8205.0), released on 16 January 1998
- Livestock and Meat, Australia (Cat. no. 7218.0) issued monthly
- Livestock Products, Australia (Cat. no. 7215.0) issued quarterly
- Manufacturing, Australia, 2001 (Cat. no. 8225.0) released on 8 March 2002
- Manufacturing Industry, Australia, 1999–2000 (Cat. no. 8221.0) released on 24 October 2001
- Manufacturing Industry, Australia, Preliminary, 2000–01 (Cat. no. 8201.0) released on 27 March 2002
- Mining Operations, Australia (Cat. no. 8415.0) issued annually

#### OTHER PUBLISHED STATISTICS

**19** Some annual manufacturing production series which mainly relate to textiles, clothing and footwear were published in the September quarter 2001 issue. Selected annual food series (which are now collected less frequently) were last published in the September quarter 2000 issue.

#### ABS DATA AVAILABLE ON REQUEST

**20** More detailed and other commodity items are collected by the ABS and are available to users on request and for a charge, as are monthly series for a limited number of the data items contained in this publication. 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 

#### ABS DATA AVAILABLE ON REQUEST continued

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 Denis Linney on Sydney 02 9268 4219.

**21** 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

**22** Current publications and other products produced by the ABS are listed in the *Catalogue of Publications and Products* (Cat. no. 1101.0). The ABS also issues, on Tuesdays and Fridays, a *Release Advice* (Cat. no. 1105.0) which lists products to be released in the next few days. The Catalogue and Release Advice are available from any ABS office or by subscription, and can also be accessed through the ABS web site www.abs.gov.au.

### 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 and stout; 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.

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## FOR MORE INFORMATION...

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ISSN 1323-3645

RRP \$18.00