

MANUFACTURING PRODUCTION

AUSTRALIA

EMBARGO: 11:30AM (CANBERRA TIME) TUES 11 MAY 2004

CONTENTS

Pa	ge
Notes	2
TABLES 1 Quarterly commodity production	3
ADDITIONAL INFORMATION	
Explanatory notes	5
Appendix: Clarification of terms	9

INQUIRIES

■ 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						
FORTHOOMING 1001170							
FORTHCOMING ISSUES	ISSUE (Quai	· ·	RELEASE DATE				
	June 2004		12 August 2004				
	Septembe	er 2004	11 November 2004				
	• • • •	• • • • • • • • • • • • • • • •					
CHANGES IN THIS ISSUE	This issue	e contains revisions to the Clay bri	cks series of data.				
	• • • •	• • • • • • • • • • • • • • •					
DATA NOTES	•	ication presents estimates of selection for Australia.	ted major indicators of manufacturing				
	Statistics series for	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 publicati	on have been calculated using unrounded				
	estimates	and may be different from, but ar	e more accurate than, movements obtained				
	from the	rounded estimates.					
	• • • •	• • • • • • • • • • • • • • • • • • • •					
ABBREVIATIONS AND	ABARE	Australian Bureau of Agricultura	l and Resource Economics				
SYMBOLS	ABS	Australian Bureau of Statistics					
	DITR	Department of Industry, Tourisi	m and Resources				
	n.a.	not available					
	n.p.	not publishable					
	n.y.a.	not yet available					
	r	figure or series revised since pre	evious issue				
	— nil or rounded to zero						

Dennis Trewin Australian Statistician

											prev.	same quarter
No.	Item and unit/Series	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	Mar	quarter	prev. year
• • •		• • • • • •	• • • • • •	• • • • •	• • • • •	• • • • • •	• • • • • •	• • • • •	• • • • •	• • • • •	• • • • • •	• • • • •
1	Red meat ('000 tonnes)	740	040		700	700						
	Original	716	810	807	799	739	745	721	r755	741	-1.8	0.2
	Seasonally adjusted	744	791	803	790	768	730	714	748	767	2.6	_
2	Trend Chicken meat ('000 tonnes)	756	779	798	791	762	734	729	741	759	2.4	-0.3
2	Original	169	176	176	178	171	164	170	176	172	-2.1	0.4
	Seasonally adjusted	171	178	177	174	171	166	170	170	173	1.3	-0.3
	Trend	171	176	177	174	173	169	170	170	173	0.9	0.8
3	Cheese (tonnes)	111	110	111	114	111	103	110	111	175	0.9	0.0
3	Original	109 710	78 386	80 781	122 558	94 681	69 998	76 029	124 636	n.y.a.	63.9	1.7
	Seasonally adjusted	106 030	98 237	94 633	93 318	91 516	87 543		94 814	n.y.a.	6.2	1.6
	Trend	103 243	99 568	95 689	92 617	90 340	89 390		92 322	n.y.a.	2.3	-0.3
4	Butter (tonnes)	100 2 10	00 000	00 000	02 011	00010	00 000	00 210	02 022	my.a.	2.0	0.0
-	Original	41 293	28 976	37 326	56 833	32 859	21 565	26 869	49 610	n.y.a.	84.6	-12.7
	Seasonally adjusted	43 137	42 622	41 893	38 610	34 395	31 626	30 082		n.y.a.	12.4	-12.5
	Trend	41 781	42 735	41 545	38 397	34 558	32 081		31 996	n.y.a.	1.7	-16.7
5	Beer (megalitres)											
	Original	428	408	406	506	435	380	421	490	435	-11.3	-0.1
	Seasonally adjusted	431	456	423	440	436	424	439	425	429	1.0	-1.5
	Trend	437	438	439	435	433	433	431	430	429	-0.2	-0.8
6	Tobacco and cigarettes (tonnes)											
	Original	3 843	4 806	5 280	4 709	4 362	5 210	5 258	4 526	3 974	-12.2	-8.9
	Seasonally adjusted	4 283	4 670	4 855	4 757	4 938	5 047	4 792	4 531	4 464	-1.5	-9.6
	Trend	4 492	4 593	4 746	4 877	4 943	4 939	4 800	4 602	4 444	-3.4	-10.1
7	Newsprint ('000 tonnes)											
	Original	104	100	103	101	101	102	107	106	104	-1.7	3.0
	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	101	102	102	102	103	105	106	105	103	-1.5	0.6
8	Wood pulp ('000 tonnes)(b)											
	Original	211	222	216	224	217	220	226	207	216	4.7	-0.5
	Seasonally adjusted	213	219	218	223	220	217	228	206	219	6.3	-0.5
_	Trend	213	217	220	220	220	221	221	220	219	-0.7	-0.8
9	Undressed sawn timber ('000 m ³)(c)	4.450	4 000	000	4 00 4	000	000				10.0	0.0
	Original	1 153	1 098	962	1 204	893	990	n.y.a.	n.y.a.	n.y.a.	10.9	-9.8
	Seasonally adjusted Trend	1 183	1 076	955	1 206	908	977	n.y.a.	n.y.a.	n.y.a.	7.6	-9.2
10	Hardwood woodchips ('000 tonnes)	1 108	1 109	1 065	1 041	1 010	969	n.y.a.	n.y.a.	n.y.a.	-4.1	-12.6
10	Original	1 494	1 690	1 869	1 716	1 603	1 891	1 823	1 786	1 650	-7.6	2.9
	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	1 520	1 668	1 745	1 759	1 753	1 765	1 792	1 792	1 772	-1.1	1.1
11	Automotive gasoline (megalitres)	1 320	1 000	1145	1 100	1 100	1 100	1102	1102	1112	1.1	1.1
	Original	4 433	4 602	4 612	4 462	4 437	4 473	4 345	4 312	n.y.a.	-0.8	-3.4
	Seasonally adjusted	4 522	4 512	4 551	4 542	4 560	4 364	4 276	4 337	n.y.a.	1.4	-4.5
	Trend	4 471	4 509	4 559	4 555	4 496	4 399	4 324	4 290	n.y.a.	-0.8	-5.8
12	Fuel oil (megalitres)	_								,		
	Original	424	372	359	336	377	369	295	306	n.y.a.	3.8	-9.0
	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	399	375	362	357	357	346	328	311	n.y.a.	-5.1	-12.9
13	Aviation turbine fuel (megalitres)(d)									•		
	Original	1 321	1 262	1 305	1 372	1 366	1 106	1 131	1 302	n.y.a.	15.1	-5.1
	Seasonally adjusted	1 292	1 308	1 328	1 333	1 333	1 148	1 153	1 263	n.y.a.	9.5	-5.2
	Trend	1 287	1 310	1 337	1 332	1 273	1 209	1 185	1 201	n.y.a.	1.4	-9.8

- (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) 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.

Percentage changes between latest

			between latest
2002	2003	2004	quarter shown and

												same
					_				_		prev.	quarter
No.	Item and unit/Series	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	Mar	quarter	prev. year
• • •	• • • • • • • • • • • • • • • • • • • •	• • • • • •	• • • • • •	• • • • •	• • • • •	• • • • • •	• • • • •	• • • • •	• • • • •	• • • • •	• • • • • •	• • • • •
14	Automotive diesel oil (megalitres)											
	Original	3 241	3 206	3 356	3 396	3 280	3 303	2 983	3 305	n.y.a.	10.8	-2.7
	Seasonally adjusted	3 272	3 235	3 400	3 281	3 367	3 337	2 963	3 230	n.y.a.	9.0	-1.6
4-	Trend	3 232	3 274	3 326	3 346	3 343	3 306	3 265	3 225	n.y.a.	-1.2	-3.6
15	Portland cement ('000 tonnes)(b)	4 700	4 000	0.000	4.070	4.047	4 000	0.007	0.000	0.004	4.5	07.0
	Original	1 729	1 992	2 030	1 978	1 617	1 892	2 227	2 329	2 224	-4.5	37.6
	Seasonally adjusted Trend	1 915	1 946	1 944	1 915	1 785	1 850	2 137	2 280	2 417	6.0	35.4
16	Clay bricks (million)	1 881	1 952	1 941	1 870	1 834	1 905	2 084	2 273	2 423	6.6	32.1
10		*2.4E	*40E		# 400	#207	-11E	*420	#110	*402	0.1	4.2
	Original Seasonally adjusted	r345	r405	r417	r420	r387	r415	r439	r412	r403	-2.1	4.3 2.3
	Trend	382 385	397 391	391 400	413 411	426 418	413 415	409 412	410 416	435 427	6.1 2.4	2.3 2.1
17	Ready mixed concrete ('000 m ³)	360	291	400	411	410	413	412	410	421	2.4	2.1
Τ,	Original	4 523	5 148	5 570	5 433	4 787	5 213	5 903	5 541	5 320	-4.0	11.1
	Seasonally adjusted	4 982	5 093	5 214	5 359	5 215	5 199	5 537	5 495	5 723	4.1	9.7
	Trend	4 966	5 114	5 232	5 261	5 262	5 298	5 418	5 566	5 691	2.2	8.2
18	Alumina ('000 tonnes)	4 900	3 114	3 232	3 201	3 202	3 230	3 410	3 300	3 031	2.2	0.2
	Original	4 077	4 072	4 161	4 072	4 013	4 161	4 125	4 224	n.y.a.	2.4	3.7
	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	4 128	4 102	4 074	4 081	4 095	4 111	4 138	4 162	n.y.a.	0.6	2.0
19	Zinc ('000 tonnes)	. 120	. 202					. 200	. 202	,	0.0	2.0
	Original	139	142	140	144	146	140	141	126	n.y.a.	-10.6	-12.5
	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	143	141	141	144	146	142	135	130	n.y.a.	-4.0	-9.7
20	Silver (tonnes)									,		
	Original	147	159	159	179	179	155	159	158	n.y.a.	-0.6	-11.7
	Seasonally adjusted	150	157	162	174	181	155	162	153	n.y.a.	-5.6	-12.1
	Trend	154	156	166	173	172	165	158	153	n.y.a.	-3.0	-11.3
21	Copper ('000 tonnes)											
	Original	142	137	123	143	127	139	121	108	n.y.a.	-10.7	-24.5
	Seasonally adjusted	148	132	121	145	132	134	119	109	n.y.a.	-7.8	-24.6
	Trend	141	140	140	140	138	129	120	112	n.y.a.	-7.0	-20.3
22	Lead ('000 tonnes)(c)											
	Original	69	71	58	70	69	70	69	62	n.y.a.	-10.1	-11.4
	Seasonally adjusted	70	70	59	69	70	69	70	61	n.y.a.	-12.2	-11.5
	Trend	70	69	68	69	70	69	67	65	n.y.a.	-3.9	-6.0
23	Tin (tonnes)											
	Original	193	183	218	197	136	157	166	138	n.y.a.	-16.9	-29.9
	Seasonally adjusted	185	161	217	228	129	134	165	169	n.y.a.	2.6	-25.7
	Trend	184	165	153	142	135	142	156	168	n.y.a.	7.8	18.4
24	Gold (tonnes)(d)											
	Original	86	88	84	92	114	96	101	100	n.y.a.	-1.0	8.7
	Seasonally adjusted	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.	n.p.
0.5	Trend	85	86	89	91	95	99	101	102	n.y.a.	0.7	11.8
25	Electricity (million kWh)	45.04.4	40.050	40.400	40.450	40.450	40 400	40.044	40.004	40.000	4 -	4.0
	Original	45 814	46 650	48 462	46 459	46 159	46 128		46 261		4.5	4.8
	Seasonally adjusted	46 385	46 781	46 875	47 545	46 622	46 303		47 194		2.5	3.7
00	Trend	46 619	46 815	47 026	47 052	46 801	46 610	46 881	47 472	48 118	1.4	2.8
26	Gas (petajoules)	400	001	000	400	470	00.4	000	400	470	7.0	0.4
	Original	166	204	228	186	172	204	232	188	173	-7.9	0.4
	Seasonally adjusted	190	194	199	199	197	195	203	201	198	-1.1	0.5
	Trend	194	195	197	198	198	198	200	200	200	_	1.4

- (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.

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.

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, 2002 (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.

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 (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.

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.

PHONE **1300 135 070**

EMAIL client.services@abs.gov.au

FAX 1300 135 211

POST Client Services, ABS, GPO Box 796, Sydney 2001

WHY NOT SUBSCRIBE?

ABS subscription services provide regular, convenient and prompt deliveries of ABS publications and products as they are released. Email delivery of monthly and quarterly publications is available.

PHONE 1300 366 323

EMAIL subscriptions@abs.gov.au

FAX 03 9615 7848

POST Subscription Services, ABS, GPO Box 2796Y, Melbourne 3001

......

© Commonwealth of Australia 2004



RRP \$19.00