



MANUFACTURING PRODUCTION

AUSTRALIA

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- For more information about these and related statistics, contact John Ridley on Sydney 02 9268 4541 or refer to the back cover of this publication.

NOTES

FORTHCOMING ISSUES

ISSUE	RELEASE DATE
September quarter 1999	11 November 1999
December quarter 1999	11 February 2000
March quarter 2000	12 May 2000

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IN THIS ISSUE

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

This issue includes those quarterly data items published in the previous issue. Additionally, summary data, mainly related to yarns, textiles and footwear, are included in this issue as annual series. See also paragraph 19 of the Explanatory Notes on page 8.

More detailed and other commodity items are collected by the Australian Bureau of Statistics (ABS) and are available to users as a special data service, as are monthly or quarterly series for a limited number of the data items contained in this publication. These data items are listed in paragraph 20 of the Explanatory Notes on page 8.

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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.

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SYMBOLS AND OTHER USAGES

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

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Australian Statistician

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

		1997.....				1998.....				1999.....		Percentage changes between latest quarter shown and....	
No.	Item and unit/Series	Jun	Sep	Dec	Mar	Jun	Sep	Dec	Mar	Jun	prev. quarter	same quarter prev. year	
<hr/>													
1	Red meat ('000 tonnes)												
	Original	745	735	733	725	734	r749	r758	r735	737	0.3	0.4	
	Seasonally adjusted	734	735	728	740	722	r749	r755	r751	725	-3.6	0.3	
	Trend	723	735	734	731	735	745	750	746	735	-1.5	—	
2	Chicken meat ('000 tonnes)												
	Original	125	135	139	138	139	143	142	141	148	5.5	6.9	
	Seasonally adjusted	127	135	136	138	142	142	139	r141	152	7.5	7.0	
	Trend	128	133	137	139	141	141	141	143	147	2.8	4.7	
3	Cheese (tonnes)												
	Original	56 004	63 692	100 634	79 433	56 203	r58 673	r107 763	80 885	n.y.a.	-24.9	1.8	
	Seasonally adjusted	77 690	73 461	72 809	77 238	77 613	r67 657	r78 068	78 670	n.y.a.	0.8	1.9	
	Trend	75 041	74 766	75 135	75 187	74 505	73 980	75 193	77 633	n.y.a.	3.2	3.3	
4	Butter (tonnes)												
	Original	21 665	33 119	63 243	32 655	24 632	r35 412	64 118	44 994	n.y.a.	-29.8	37.8	
	Seasonally adjusted	36 223	41 799	39 681	32 172	41 139	r44 660	40 223	44 386	n.y.a.	10.3	38.0	
	Trend	37 643	38 912	37 978	37 599	39 170	41 847	43 161	43 102	n.y.a.	-0.1	14.6	
5	Beer (megalitres)												
	Original	398	406	526	428	397	403	517	430	379	-11.9	-4.5	
	Seasonally adjusted	435	435	441	445	434	430	439	442	415	-6.2	-4.4	
	Trend	439	439	440	440	436	436	436	433	427	-1.4	-2.2	
6	Tobacco and cigarettes (tonnes)												
	Original	5 523	5 708	4 821	4 919	5 809	5 904	4 555	5 198	5 388	3.7	-7.2	
	Seasonally adjusted	5 523	5 056	4 779	5 701	5 788	5 181	4 598	5 922	5 359	-9.5	-7.4	
	Trend	5 321	5 102	5 169	5 463	5 490	5 276	5 170	5 333	5 552	4.1	1.1	
7	Newsprint ('000 tonnes)												
	Original	105	104	96	100	102	105	100	95	100	4.8	-1.9	
	Seasonally adjusted	103	105	98	100	100	104	103	94	98	4.0	-1.8	
	Trend	103	102	101	100	101	102	101	98	97	-1.6	-4.4	
8	Wood pulp ('000 tonnes)												
	Original	235	233	250	235	240	225	223	209	214	2.5	-10.6	
	Seasonally adjusted	234	239	248	232	240	231	221	206	214	4.2	-10.5	
	Trend	238	239	241	240	236	229	220	213	210	-1.2	-11.0	
9	Undressed sawn timber ('000 m³)												
	Original	898	937	890	888	935	934	r845	882	n.y.a.	4.4	-0.7	
	Seasonally adjusted	888	879	911	939	925	875	r866	932	n.y.a.	7.7	-0.7	
	Trend	862	892	917	926	912	891	888	901	n.y.a.	1.5	-2.8	
10	Hardwood woodchips ('000 tonnes)												
	Original	1 325	1 402	1 362	1 428	1 473	1 233	1 125	1 179	1 319	11.9	-10.4	
	Seasonally adjusted	1 317	1 363	1 382	1 455	1 468	1 199	1 142	1 200	1 316	9.7	-10.3	
	Trend	1 280	1 348	1 424	1 443	1 383	1 258	1 186	1 203	1 271	5.7	-8.0	
11	Automotive gasoline (megalitres)												
	Original	4 655	4 622	4 745	4 430	4 795	4 632	r4 455	4 679	n.y.a.	5.0	5.6	
	Seasonally adjusted	4 583	4 555	4 752	4 583	4 712	4 511	r4 564	4 732	n.y.a.	3.7	3.3	
	Trend	4 568	4 620	4 658	4 666	4 617	4 583	4 605	4 646	n.y.a.	0.9	-0.4	
12	Fuel oil (megalitres)												
	Original	485	460	416	412	385	422	429	377	n.y.a.	-12.1	-8.5	
	Seasonally adjusted	472	443	445	413	374	408	458	377	n.y.a.	-17.8	-8.7	
	Trend	463	455	434	406	400	410	417	413	n.y.a.	-1.0	1.7	
13	Aviation turbine fuel (megalitres)												
	Original	1 230	1 370	1 407	1 411	1 235	1 330	1 315	1 288	n.y.a.	-2.1	-8.7	
	Seasonally adjusted	1 334	1 365	1 344	1 369	1 346	1 325	1 256	1 247	n.y.a.	-0.8	-9.0	
	Trend	1 358	1 354	1 356	1 361	1 346	1 313	1 274	1 249	n.y.a.	-1.9	-8.2	
14	Automotive diesel oil (megalitres)												
	Original	3 253	3 186	3 392	3 323	3 282	3 059	3 324	3 194	n.y.a.	-3.9	-3.9	
	Seasonally adjusted	3 256	3 182	3 337	3 364	3 285	3 087	3 274	3 228	n.y.a.	-1.4	-4.1	
	Trend	3 291	3 269	3 301	3 318	3 262	3 205	3 202	3 228	n.y.a.	0.8	-2.7	

(a) Trend estimates shown may have been revised. See paragraph 15 of the Explanatory Notes on page 7.

											Percentage changes between latest quarter shown and....				
											1997.....	1998.....	1999.....		
No.	Item and unit/Series	Jun	Sep	Dec	Mar	Jun	Sep	Dec	Mar	Jun	prev. quarter	same quarter prev. year			
<hr/>															
15	Portland cement ('000 tonnes)														
	Original	1 785	1 826	1 830	1 719	1 861	1 956	2 067	1 737	1 944	11.9	4.5			
	Seasonally adjusted	1 764	1 718	1 827	1 854	1 839	1 862	2 050	1 886	1 922	1.9	4.5			
	Trend	1 720	1 763	1 808	1 828	1 866	1 910	1 943	1 945	1 926	-1.0	3.2			
16	Clay bricks (million)														
	Original	390	416	383	339	394	412	391	383	408	6.4	3.4			
	Seasonally adjusted	377	390	383	374	380	392	388	428	393	-8.1	3.4			
	Trend	379	384	383	380	379	389	400	406	408	0.4	7.6			
17	Ready mixed concrete ('000 m³)														
	Original	4 099	4 252	4 390	4 298	4 472	4 887	4 848	r4 247	4 606	8.5	3.0			
	Seasonally adjusted	4 102	4 039	4 307	4 624	4 481	4 641	4 759	r4 564	4 618	1.2	3.1			
	Trend	3 990	4 139	4 329	4 478	4 597	4 644	4 657	4 646	4 603	-0.9	0.1			
18	Basic iron, spiegeleisen and sponge iron ('000 tonnes)														
	Original	1 891	1 966	2 025	1 950	1 987	1 951	1 834	1 841	1 827	-0.7	-8.1			
	Seasonally adjusted	1 897	1 926	2 028	2 001	1 997	1 889	1 856	1 869	1 837	-1.7	-8.0			
	Trend	1 884	1 953	2 000	2 011	1 972	1 913	1 871	1 846	1 844	-0.4	-6.5			
19	Blooms and slabs of iron or steel ('000 tonnes)														
	Original	1 954	2 108	2 075	2 083	2 090	2 024	1 890	1 864	1 900	1.9	-9.1			
	Seasonally adjusted	1 980	2 044	2 082	2 112	2 120	1 960	1 900	1 888	1 929	2.2	-9.0			
	Trend	1 994	2 042	2 089	2 113	2 074	1 993	1 918	1 869	1 905	0.5	-8.1			
20	Alumina ('000 tonnes)														
	Original	3 370	3 429	3 385	3 319	r3 449	r3 532	r3 553	3 471	n.y.a.	-2.3	4.6			
	Seasonally adjusted	3 346	3 366	3 406	3 361	r3 422	r3 527	r3 544	3 547	n.y.a.	0.1	5.5			
	Trend	3 340	3 368	3 378	3 392	3 437	3 496	3 541	3 560	n.y.a.	0.5	5.0			
21	Zinc ('000 tonnes)														
	Original	79	73	78	74	79	81	78	79	n.y.a.	1.3	6.8			
	Seasonally adjusted	77	73	77	76	77	81	77	82	n.y.a.	5.9	6.8			
	Trend	77	75	75	77	78	79	80	80	n.y.a.	0.6	4.1			
22	Silver (tonnes)														
	Original	87	58	51	49	69	101	100	96	n.y.a.	-4.0	95.9			
	Seasonally adjusted	76	60	56	50	60	105	110	97	n.y.a.	-11.8	95.6			
	Trend	75	63	52	53	71	92	105	107	n.y.a.	1.7	99.9			
23	Copper ('000 tonnes)														
	Original	76	75	60	71	80	61	73	77	n.y.a.	5.5	8.5			
	Seasonally adjusted	72	68	64	79	75	55	78	86	n.y.a.	10.7	8.7			
	Trend	70	67	71	72	70	69	73	82	n.y.a.	11.8	13.7			
24	Lead ('000 tonnes)														
	Original	56	50	46	46	43	39	45	53	n.y.a.	17.8	15.2			
	Seasonally adjusted	54	53	46	45	41	41	45	52	n.y.a.	16.5	15.1			
	Trend	53	52	48	44	42	43	46	49	n.y.a.	7.3	11.4			
25	Tin (tonnes)														
	Original	175	145	125	175	205	150	125	170	n.y.a.	36.0	-2.9			
	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	155	150	155	168	169	161	154	158	n.y.a.	2.3	-5.8			
26	Gold (tonnes)														
	Original	80	85	92	83	89	131	106	96	n.y.a.	-9.4	15.7			
	Seasonally adjusted	80	84	95	82	89	129	109	95	n.y.a.	-13.3	15.6			
	Trend(b)	83	85	88	87	88	93	98	100	n.y.a.	1.8	15.6			
27	Electricity (million kWh)														
	Original	42 901	45 521	43 169	43 241	44 281	46 084	43 235	45 084	45 227	0.3	2.1			
	Seasonally adjusted	42 760	43 367	44 372	44 381	44 136	43 916	44 439	46 263	45 080	-2.6	2.1			
	Trend	42 762	43 511	44 131	44 311	44 095	44 204	44 769	45 343	45 739	0.9	3.7			
28	Gas (petajoules)														
	Original	171	183	151	141	174	191	157	145	182	25.5	4.3			
	Seasonally adjusted	162	157	162	166	165	164	169	171	172	1.0	4.3			
	Trend	160	161	162	164	165	166	168	171	173	1.4	4.4			

(a) Trend estimates shown may have been revised. See paragraph 15 of the Explanatory Notes on page 7.

has therefore affected this item's trend estimates for the preceding and following three quarters. See also paragraphs 14–16 of the Explanatory Notes.

(b) Due to an abnormal movement in the production of gold the trend has been modified to remove its effect. This modification for September quarter 1998

								Percentage change between latest year shown and prev. year
No.	Item and unit	1993-94	1994-95	1995-96	1996-97	1997-98	1998-99	
Yarns and textiles								
A1	Scoured and carbonised wool (tonnes)	177 237	165 247	158 268	165 268	165 104	129 753	-21.4
A2	Wool and man-made fibre tops (tonnes)	38 448	n.p.	54 282	57 645	60 084	53 162	-11.5
A3	Wool yarn (tonnes)	21 016	23 093	20 073	18 285	18 077	17 668	-2.3
A4	Cotton yarn (tonnes)	33 780	37 643	36 955	39 853	36 897	36 814	-0.2
A5	Synthetic fibre yarn (tonnes)	12 315	11 076	10 020	r12 547	r12 913	10 311	-20.1
A6	Wool broadwoven fabric ('000 m ²)	7 893	8 189	6 523	6 300	6 636	6 254	-5.8
A7	Cotton broadwoven fabric ('000 m ²)	49 835	51 865	63 886	60 617	r62 088	55 824	-10.1
A8	Man-made fibre broadwoven fabric ('000 m ²)	184 885	185 171	149 344	142 194	r135 768	136 886	0.8
A9	Knitted or crocheted fabrics (tonnes)	n.p.	n.p.	18 653	16 117	r13 019	(b)14 004	7.6
	Textile floor coverings-							
A10	Of tufted wool or fine animal hair ('000 m ²)	10 713	12 916	10 880	11 610	11 709	13 286	13.5
A11	Of other tufted textile material ('000 m ²)	33 305	31 606	29 185	30 483	31 241	30 160	-3.5
A12	Other ('000 m ²)	2 892	2 736	2 159	1 888	1 544	1 595	3.3
Footwear								
A13	Men's ('000 pairs)	5 918	5 167	5 361	4 687	4 558	4 254	-6.7
A14	Women's ('000 pairs)	8 676	7 992	7 682	7 197	6 947	6 249	-10.0
A15	Children's ('000 pairs)	1 633	1 556	1 314	1 272	862	735	-14.8
Other								
A16	Paperboard containers ('000 tonnes)	n.a.	1 072	1 091	1 138	1 177	1 285	9.2
A17	Superphosphates ('000 tonnes)	1 344	1 590	1 697	1 511	1 819	1 464	-19.5

(a) Refer to the Clarification of terms from page 10 for important definitional information. Clothing, hosiery and food items A18-A61 are to be included in Table 2 of the September quarter 1999 issue of this publication.

(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 and annual 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, Science and Resources (DISR) (formerly the Department of Primary Industries and Energy), 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 Where production statistics are collected by the ABS manufacturing production surveys, they are not collected from single establishment manufacturing businesses with less 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 and include estimates of animals slaughtered on farms and by country butchers and other small slaughtering establishments for human consumption. 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 DISR 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 referred to in paragraph 1 account, in total, for less than one-quarter of the output of the manufacturing sector. For information on general trends in the manufacturing sector, refer to the publications shown in paragraphs 10 and 11.

10 Details of manufacturers' sales and stocks are published quarterly in *Inventories and Sales, Selected Industries, Australia* (Cat. no. 5629.0).

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 12 Fuel oil, 22 Silver and 23 Copper are more volatile than other series. Seasonally adjusted estimates for 25 Tin are not sufficiently reliable 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 Users may wish to refer to the ABS's *Information Paper: A Guide to Interpreting Time Series — Monitoring 'Trends', an Overview* (Cat. no. 1348.0) for more detailed information on smoothing of seasonally adjusted time series data.

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 be of interest are:

- *Australian Mining Industry* (Cat. no. 8414.0) issued annually
- *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 from July 1998
- *Livestock Products, Australia* (Cat. no. 7215.0) issued quarterly from September quarter 1998
- *Manufacturing, Australia, 1998* (Cat. no. 8225.0) released on 17 December 1998
- *Manufacturing Industry, Australia* (Cat. no. 8221.0) issued annually, with the 1997–98 issue to be released on 17 September 1999
- *Manufacturing Industry, Australia, Preliminary* (Cat. no. 8201.0) issued annually
- *Manufacturing Production, Australia: Commodities Produced, 1996–97* (Cat. no. 8365.0), released on 22 February 1999
- *Inventories and Sales, Selected Industries, Australia* (Cat. no. 5629.0) issued quarterly

OTHER PUBLISHED STATISTICS

19 Some annual manufacturing production series which mainly relate to textiles, clothing, footwear and food were published in the June quarter 1998 and September quarter 1998 issues of this publication. Those annual series not included in this issue are to be published in the September quarter 1999 issue.

UNPUBLISHED STATISTICS

20 Additional manufacturing production data are collected by the ABS through user funded surveys and are available to users as a special data service. These series are:

audio and non-audio compact discs
 beer
 brass bars, rods and sections
 cars and station wagons
 clay bricks
 clothes drying machines
 concrete bricks, blocks and pavers
 cotton broadwoven fabric
 cotton yarn
 domestic clothes washing machines
 domestic cooking stoves, ovens and ranges
 domestic deep-freezers
 domestic refrigerators
 gas
 hosiery
 knitted sweatshirts and sloppy-joes
 knitted underwear
 malt
 man-made fibre broadwoven fabric
 men's and boys' long trousers and shorts
 men's and boys' shirts
 men's complete suits and men's and boys' woven coats

UNPUBLISHED STATISTICS *continued*

mowers
 other clothing (excluding those listed here)
 plasterboard
 Portland cement
 ready mixed concrete
 roofing tiles
 space heaters
 starches, wheat gluten and glucose
 synthetic fibre yarn
 textile floor coverings
 unlaminated particle board
 water heaters
 women's shirts and blouses
 wool broadwoven fabric
 wool yarn

For further information, please call John Ridley on Sydney 02 9268 4541 or by email through the Internet to john.ridley@abs.gov.au.

CURRENT PUBLICATIONS

21 Current publications 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 publications to be released in the next few days. The Catalogue and Release Advice are available from any ABS office.

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 Basic iron, spiegeleisen and sponge iron	In pigs, blocks and other primary forms; includes pig iron. This item comprises production of BHP Steel only.
19 Blooms and slabs of iron or steel	Continuous cast; includes steel in the molten state. This item comprises production of BHP Steel only.
20 Alumina	Aluminium oxide.
21 Zinc	Primary origin only.
22 Silver	Refined.
23 Copper	Primary origin only.

APPENDIX CLARIFICATION OF TERMS *continued*

24 Lead	Includes lead content of lead from primary sources.
25 Tin	Primary origin only.
26 Gold	From primary and secondary sources.
27 Electricity	Excludes purchases or transfers in of electricity.
28 Gas	Gas (including natural gas) available for issue through mains, including gas production for distribution via natural gas pipelines which service a single user.
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 lambs' wool or man-made fibres.
A3 Wool yarn	Of, or predominantly of, sheep's or lambs' 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 sheep's or lambs' 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–A15 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.
A16 Paperboard containers	Includes corrugated paperboard and paperboard containers.
A17 Superphosphates	Expressed in terms of single super phosphate (9% P equivalent).
A18–A34 Clothing A35–A38 Hosiery A39–A61 Food	Items A18–A61 are included in the September quarter 1998 and September quarter 1999 issues of this publication.

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