

MANUFACTURING PRODUCTION

AUSTRALIA

EMBARGO: 11:30AM (CANBERRA TIME) THURS 12 AUG 2004

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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

FINAL ISSUE	This is the final issue of this publication. The ABS has discontinued the collection of a number of the manufacturing commodities data series. A range of items will continue to be published from the September Quarter 2004 as an electronic publication, Manufacturing Production, Australia (Cat. no. 8301.0.55.001). For more information, please contact Graeme Thomas by telephone on (08) 8237 7536 or by email on graeme.thomas@abs.gov.au.
DATA NOTES	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	ABAREAustralian Bureau of Agricultural and Resource EconomicsABSAustralian Bureau of StatisticsDITRDepartment of Industry, Tourism and Resourcesn.a.not availablen.p.not publishablen.y.a.not yet availablerfigure or series revised since previous issue—nil or rounded to zero
	Dennis Trewin

Australian Statistician

QUARTERLY COMMODITY PRODUCTION: All series(a)

		0000							2004		Percentage between la	test
		2002		2	2003			2	2004		quarter sho	own and
												same
											prev.	quarter
No.	Item and unit/Series	Jun	Sep	Dec	Mar	Jun	Sep	Dec	Mar	Jun	quarter	prev. year
1	Red meat ('000 tonnes)											
	Original	810	807	799	739	745	721	755	741	783	5.7	5.1
	Seasonally adjusted	791	802	790	768	730	714	748	768	769	0.2	5.3
	Trend	779	798	791	762	735	727	742	761	774	1.7	5.4
2	Chicken meat ('000 tonnes)											
	Original	176	176	178	171	164	170	176	172	166	-3.7	0.9
	Seasonally adjusted Trend	178 176	177	173	173	166 160	172	170	172	168	-2.7	0.8
3	Cheese (tonnes)	1/6	177	174	171	169	170	171	171	169	-0.8	-0.1
3	Original	78 386	r82 733	r120 713	r94 976	r69 399	r79 656	r127 325	103 299	n.y.a.	-18.9	8.8
	Seasonally adjusted	99 271	95 739	92 632	91 034	87 832	92 303	97 696	98 907	n.y.a.	1.2	8.6
	Trend	100206	96 128	92 455	90 039	89 832	92 509	96 154	99 288	n.y.a.	3.3	10.3
4	Butter (tonnes)									J .		
	Original	28 976	r34 733	r52 442	r29 955	r20 236	r24 997	r46 726	32 553	n.y.a.	-30.3	8.7
	Seasonally adjusted	42 240	39 478	35 638	31 173	29 377	28 377	31 828	33 825	n.y.a.	6.3	8.5
	Trend	41 806	39 497	35 471	31 592	29 268	29 589	31 258	33 116	n.y.a.	5.9	4.8
5	Beer (megalitres)											
	Original	408	406	506	435	380	421	490	435	390	-10.4	2.6
	Seasonally adjusted Trend	456	423	441	436	424	439	426	430	435	1.2	2.7
6	Tobacco and cigarettes (tonnes)	438	439	435	433	433	430	430	431	432	0.2	-0.2
0	Original	4 806	5 280	4 709	4 362	5 210	5 258	4 526	3 974	5 027	26.5	-3.5
	Seasonally adjusted	4 631	4 862	4 771	4 977	4 983	4 804	4 547	4 503	4 781	6.2	-4.1
	Trend	4 583	4 748	4 888	4 947	4 926	4 777	4 625	4 590	4 643	1.1	-5.8
7	Newsprint ('000 tonnes)											
	Original	100	103	101	101	102	107	106	104	104	-0.3	1.4
	Seasonally adjusted	n.p.	n.p.	n.p.								
_	Trend	102	102	102	103	105	106	105	104	104	-0.2	-0.8
8	Wood pulp ('000 tonnes)				o			~~~				
	Original	222	216	224	217	220	226	207	216	220	1.5	-0.4
	Seasonally adjusted Trend	219 217	218 220	223 220	219 220	217 221	228 221	206 220	218 218	216 216	-1.0 -0.9	-0.4 -2.4
9	Undressed sawn timber ('000 m ³)(b)		220	220	220	221	221	220	210	210	-0.9	-2.4
0	Original	1 098	962	r1207	r891	990	1 044	1 027	n.y.a.	n.y.a.	-1.6	-14.9
	Seasonally adjusted	1 077	965	1 196	904	978	1 054	1 011	n.y.a.	n.y.a.	-4.1	-15.5
	Trend	1 110	1 067	1 032	1 007	993	1 003	1 043	n.y.a.	n.y.a.	3.9	1.1
10	Hardwood woodchips ('000 tonnes)											
	Original	1 690	1 869	1 716	1 603	1 891	1 823	1 786	1 650	1 633	-1.0	-13.7
	Seasonally adjusted	n.p.	n.p.	n.p.								
	Trend	1 670	1 746	1 757	1 751	1 768	1 807	1 783	1 711	1 629	-4.8	-7.9
11	Automotive gasoline (megalitres)	4 600	4 6 1 0	4 460	4 427	4 470	4.245	4 24 2	4 00 4		0.4	2.0
	Original Seasonally adjusted	4 602 4 513	4 612 4 557	4 462 4 548	4 437 4 545	4 473 4 365	4 345 4 283	4 312 4 343	4 294 4 347	n.y.a. n.y.a.	-0.4 0.1	-3.2 -4.4
	Trend	4 513	4 562	4 548	4 492	4 303 4 393	4 283	4 343 4 318	4 347	n.y.a.	0.1	-4.4 -3.4
12	Fuel oil (megalitres)	+ 503	1 002	1 000	1 402	1000	. 000	, 010	1 000	y.a.	0.0	0.7
	Original	372	359	336	377	369	295	306	277	n.y.a.	-9.6	-26.6
	Seasonally adjusted	n.p.	n.p.	n.p.								
	Trend	376	362	356	357	350	326	296	277	n.y.a.	-6.5	-22.5
13	Aviation turbine fuel (megalitres)(c)											
	Original	1 262	1 305	1 372	1 366	1 106	1 131	1 302	1 296	n.y.a.	-0.5	-5.1
	Seasonally adjusted	1 310	1 336	1 325	1 330	1 151	1 161	1 256	1 260	n.y.a.	0.3	-5.3
	Trend	1 312	1 338	1 330	1 272	1 205	1 189	1 219	1 258	n.y.a.	3.3	-1.1

(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.

(c) 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.

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

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

											Percentage between la	test
		2002		2	003			2	004		quarter sho	own and
												same
											prev.	quarter
No.	Item and unit/Series	Jun	Sep	Dec	Mar	Jun	Sep	Dec	Mar	Jun	quarter	prev. year
• • •		• • • • • • • •										
14	Automotive diesel oil (megalitres)											
	Original	3 206	3 356	3 396	3 280	3 303	2 983	3 305	3 220	n.y.a.	-2.6	-1.8
	Seasonally adjusted	3 234	3 405	3 284	3 360	3 337	2 967	3 232	3 234	n.y.a.	0.1	-3.7
	Trend	3 274	3 327	3 346	3 340	3 304	3 266	3 232	3 223	n.y.a.	-0.3	-3.5
15	Portland cement ('000 tonnes)(b)											
	Original	1 992	2 030	1 978	1 617	1 892	2 227	2 329	2 224	2 434	9.4	28.6
	Seasonally adjusted	1 954	1 943	1 909	1 783	1 861	2 134	2 271	2 414	2 400	-0.6	28.9
	Trend	1 954	1 940	1 868	1 834	1 908	2 087	2 265	2 377	2 436	2.5	27.7
16	Clay bricks (million)											
	Original	405	417	420	387	415	r440	r413	r409	423	3.3	1.9
	Seasonally adjusted	398	391	412	426	414	410	410	442	421	-4.6	1.8
	Trend	391	400	411	418	416	413	419	426	431	1.2	3.8
17	Ready mixed concrete ('000 m ³)											
	Original	5 148	5 570	5 433	4 787	5 213	5 903	r5 542	r5 314	5 698	7.2	9.3
	Seasonally adjusted	5 095	5 212	5 355	5 219	5 200	5 534	5 493	5 721	5 686	-0.6	9.3
	Trend	5 114	5 231	5 260	5 263	5 299	5 418	5 562	5 657	5 708	0.9	7.7
18	Alumina ('000 tonnes)											
	Original	4 072	4 161	4 072	r4 019	4 161	4 125	4 224	4 209	n.y.a.	-0.4	4.7
	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	4 103	4 078	4 082	4 094	4 109	4 143	4 181	4 227	n.y.a.	1.1	3.3
19	Zinc ('000 tonnes)											
	Original	142	140	144	146	140	141	126	114	n.y.a.	-9.5	-21.9
	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	141	140	144	146	143	135	126	121	n.y.a.	-3.9	-16.9
20	Silver (tonnes)											
	Original	159	159	179	179	155	159	158	144	n.y.a.	-8.9	-19.6
	Seasonally adjusted	157	162	174	182	155	162	153	146	n.y.a.	-4.5	-19.6
	Trend	156	166	173	172	166	158	152	149	n.y.a.	-2.1	-13.4
21	Copper ('000 tonnes)											
	Original	137	123	143	127	r 144	r112	r 101	122	n.y.a.	20.8	-3.9
	Seasonally adjusted	133	122	148	127	141	111	105	121	n.y.a.	15.9	-4.4
	Trend	140	141	141	138	127	118	112	110	n.y.a.	-1.8	-20.0
22	Lead ('000 tonnes)											
	Original	71	58	70	69	70	69	62	51	n.y.a.	-17.7	-26.1
	Seasonally adjusted	70	58	69	71	69	69	61	52	n.y.a.	-14.5	-26.0
	Trend	69	68	69	70	70	67	61	56	n.y.a.	-8.9	-20.5
23	Tin (tonnes)											
	Original	183	218	197	136	157	166	138	113	n.y.a.	-18.1	-16.9
	Seasonally adjusted	160	217	225	133	132	164	167	111	n.y.a.	-33.3	-16.8
	Trend	165	153	142	136	145	153	150	137		-8.7	0.2
24	Gold (tonnes)											
	Original	88	84	92	114	96	101	100	103	n.y.a.	3.0	-9.6
	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	89	91	95	99	101	101	100	n.y.a.	-1.2	5.1
25	Electricity (million kWh)											
	Original	46 650	48 462	46 459	46 159	46 128	48 641	46 261	48 362	48 443	0.2	5.0
	Seasonally adjusted	46 787	46 871	47 485	46 677	46 318	47 116	47 129	48 413	48 674		5.1
	Trend	46 820	47 016	47 041	46 813	46 618	46 823	47 464		48 717		4.5
26	Gas (petajoules)											
	Original	204	228	186	172	204	232	188	173	214	23.9	5.1
	Seasonally adjusted	194	199	198	198	195	203	200	199		2.8	5.1
	Trend	195	197	198	198	198	199	200	201			2.1
• • •							•••••	•••••				

(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) 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.

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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), 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

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).

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

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.

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.

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.

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 For further information, see <i>Information Paper: A Guide to Interpreting Time Series–Monitoring Trends</i> (cat. no. 1349.0) or contact the Director, Time Series Analysis on Canberra (02) 6252 5132 or email to <timeseries@abs.gov.au>.</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 <i>Census and Statistics Act 1905</i> .
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, 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

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

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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.

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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).
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