



# **MANUFACTURING PRODUCTION**

AUSTRALIA

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 EMBARGO: 11:30AM (CANBERRA TIME) MON 11 FEB 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
	March quarter 2002	10 May 2002
	June quarter 2002	9 August 2002
	September quarter 2002	11 November 2002

### IN THIS ISSUE

This publication presents quarterly 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 20 of the Explanatory Notes on page 7.

### EFFECTS OF ROUNDING

Estimates of change shown in this publication have been calculated using unrounded estimates and may be different from, but are more accurate than, movements obtained from the rounded estimates.

### ABBREVIATIONS AND SYMBOLS

ABARE	Australian Bureau of Agricultural and Resource Economics
ABS	Australian Bureau of Statistics
ADC	Australian Dairy Corporation
DITR	Department of Industry, Tourism 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

Dennis Trewin  
Australian Statistician

## 1

## QUARTERLY COMMODITY PRODUCTION: All series(a)

No.	Item and unit/Series	1999.. 2000..... 2001.....									Percentage changes between latest quarter shown and....	
		Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	prev. quarter	same quarter prev. year
<b>1</b>	<b>Red meat</b> ('000 tonnes)											
	Original	752	746	780	791	784	763	r793	r778	726	-6.7	-7.3
	Seasonally adjusted	748	758	777	785	781	775	r790	774	724	-6.5	-7.3
	Trend	749	759	771	779	782	785	779	764	744	-2.7	-4.9
<b>2</b>	<b>Chicken meat</b> ('000 tonnes)											
	Original	153	150	152	152	162	151	155	156	165	6.1	2.1
	Seasonally adjusted	148	150	154	155	157	151	157	r158	160	0.9	1.5
	Trend	148	151	154	155	155	154	156	158	160	1.6	3.6
<b>3</b>	<b>Cheese</b> (tonnes)											
	Original r	116 390	98 737	74 887	76 296	114 323	90 786	79 788	n.y.a.	n.y.a.	-12.1	6.5
	Seasonally adjusted r	87 041	95 571	96 530	89 173	85 676	87 899	102 411	n.y.a.	n.y.a.	16.5	6.1
	Trend	91 973	93 937	93 627	89 955	87 947	91 025	96 698	n.y.a.	n.y.a.	6.2	3.3
<b>4</b>	<b>Butter</b> (tonnes)											
	Original	64 859	39 831	28 020	36 525	56 685	r36 982	r29 409	35 486	n.y.a.	20.7	-2.8
	Seasonally adjusted	42 549	40 971	43 337	42 349	37 333	r38 138	r45 102	41 061	n.y.a.	-9.0	-3.0
	Trend	42 549	42 192	42 239	40 664	39 419	39 892	41 550	42 978	n.y.a.	3.4	5.7
<b>5</b>	<b>Beer</b> (megalitres)											
	Original	521	421	402	414	500	451	380	416	492	18.3	-1.5
	Seasonally adjusted	442	420	449	440	429	451	426	448	417	-6.8	-2.8
	Trend	439	437	436	440	439	438	438	434	428	-1.4	-2.6
<b>6</b>	<b>Tobacco and cigarettes</b> (tonnes)											
	Original	5 517	5 169	4 860	5 185	4 763	4 217	4 959	5 196	4 522	-13.0	-5.1
	Seasonally adjusted	5 684	5 547	4 745	4 836	4 892	4 592	4 851	4 772	4 698	-1.6	-4.0
	Trend	5 346	5 319	5 079	4 802	4 745	4 766	4 755	4 757	4 755	—	0.2
<b>7</b>	<b>Newsprint</b> ('000 tonnes)											
	Original	95	98	96	100	97	100	94	95	99	5.1	2.2
	Seasonally adjusted	97	96	97	99	100	100	95	93	100	8.2	0.9
	Trend	95	96	98	99	100	98	96	96	97	1.3	-2.9
<b>8</b>	<b>Wood pulp</b> ('000 tonnes)											
	Original	212	221	216	226	227	220	222	198	212	7.1	-6.7
	Seasonally adjusted	210	222	215	228	225	221	221	199	210	5.2	-6.7
	Trend	214	217	221	224	226	222	215	209	206	-1.6	-8.8
<b>9</b>	<b>Undressed sawn timber</b> ('000 m <sup>3</sup> )											
	Original	938	996	1 018	1 019	852	802	987	n.y.a.	n.y.a.	23.1	-3.1
	Seasonally adjusted	981	1 028	1 002	962	893	824	974	n.y.a.	n.y.a.	18.2	-2.8
	Trend	993	1 015	1 003	948	898	887	907	n.y.a.	n.y.a.	2.2	-9.6
<b>10</b>	<b>Hardwood woodchips</b> ('000 tonnes)											
	Original	1 469	1 524	1 671	1 717	1 674	1 434	1 576	r1 388	1 340	-3.5	-20.0
	Seasonally adjusted	1 502	1 576	1 614	1 684	1 712	1 483	1 524	r1 362	1 370	0.6	-20.0
	Trend	1 514	1 575	1 639	1 674	1 648	1 566	1 471	1 403	1 362	-2.9	-17.4
<b>11</b>	<b>Automotive gasoline</b> (megalitres)											
	Original	4 713	4 429	4 607	4 524	4 398	4 321	4 644	4 714	n.y.a.	1.5	4.2
	Seasonally adjusted	4 777	4 510	4 477	4 487	4 441	4 475	4 512	4 636	n.y.a.	2.7	3.3
	Trend	4 736	4 587	4 480	4 453	4 455	4 480	4 533	4 592	n.y.a.	1.3	3.1
<b>12</b>	<b>Fuel oil</b> (megalitres)											
	Original	486	539	464	475	527	505	444	492	n.y.a.	10.8	3.7
	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	456	494	505	494	490	491	488	486	n.y.a.	-0.3	-1.6
<b>13</b>	<b>Aviation turbine fuel</b> (megalitres)											
	Original	1 419	1 393	1 376	1 418	1 463	1 509	1 446	1 517	n.y.a.	4.9	7.0
	Seasonally adjusted	1 383	1 374	1 438	1 411	1 428	1 493	1 503	1 509	n.y.a.	0.4	7.0
	Trend	1 375	1 394	1 410	1 423	1 445	1 475	1 502	1 513	n.y.a.	0.7	6.3
<b>14</b>	<b>Automotive diesel oil</b> (megalitres)											
	Original	3 404	3 025	3 021	3 052	3 471	3 288	3 401	3 405	n.y.a.	0.1	11.6
	Seasonally adjusted	3 219	3 053	3 016	3 162	3 315	3 372	3 394	3 488	n.y.a.	2.8	10.3
	Trend	3 220	3 082	3 056	3 153	3 279	3 367	3 421	3 455	n.y.a.	1.0	9.6

(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.

No.	Item and unit/Series	1999.. 2000..... 2001.....									Percentage changes between latest quarter shown and....	
		Dec	Mar	Jun	Sep	Dec	Mar	Jun	Sep	Dec	prev. quarter	same quarter prev. year
<b>15</b>	<b>Portland cement</b> ('000 tonnes)											
	Original	2 027	1 835	2 070	1 898	1 652	1 554	1 717	1 679	1 836	9.4	11.1
	Seasonally adjusted	1 959	1 996	2 027	1 826	1 623	1 693	1 681	1 628	1 776	9.1	9.4
	Trend(b)	1 964	2 015	1 993	1 879	1 744	1 656	1 658	1 690	1 719	1.7	-1.5
<b>16</b>	<b>Clay bricks</b> (million)											
	Original	425	423	450	420	382	298	348	367	380	3.5	-0.6
	Seasonally adjusted	427	458	440	396	385	325	341	344	383	11.4	-0.5
	Trend(b)	431	446	443	415	375	344	338	351	373	6.3	-0.6
<b>17</b>	<b>Ready mixed concrete</b> ('000 m <sup>3</sup> )											
	Original	5 217	4 880	5 349	4 679	4 188	3 932	4 452	4 881	4 896	0.3	16.9
	Seasonally adjusted	5 159	5 262	5 305	4 441	4 145	4 238	4 412	4 635	4 849	4.6	17.0
	Trend(b)	5 148	5 304	5 157	4 758	4 359	4 221	4 397	4 628	4 817	4.1	10.5
<b>18</b>	<b>Alumina</b> ('000 tonnes)											
	Original	3 702	3 710	3 918	4 004	4 049	3 950	4 096	4 119	n.y.a.	0.6	2.9
	Seasonally adjusted	3 702	3 776	3 890	3 940	4 037	4 053	4 067	4 081	n.y.a.	0.4	3.6
	Trend	3 704	3 787	3 873	3 957	4 019	4 052	4 071	4 078	n.y.a.	0.2	3.1
<b>19</b>	<b>Zinc</b> ('000 tonnes)											
	Original	90	112	112	139	130	127	137	144	n.y.a.	5.1	3.6
	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	89	114	120	127	132	134	135	138	n.y.a.	2.2	9.2
<b>20</b>	<b>Silver</b> (tonnes)											
	Original	129	131	149	110	148	140	134	107	n.y.a.	-20.1	-2.7
	Seasonally adjusted	129	137	141	111	148	147	128	108	n.y.a.	-15.7	-3.1
	Trend	136	134	131	132	138	139	130	114	n.y.a.	-12.0	-13.8
<b>21</b>	<b>Copper</b> ('000 tonnes)											
	Original	117	114	126	117	r127	r133	r141	147	n.y.a.	4.3	25.6
	Seasonally adjusted	122	121	119	114	r132	r140	r133	143	n.y.a.	7.4	25.8
	Trend	121	120	118	121	128	135	139	140	n.y.a.	1.1	16.2
<b>22</b>	<b>Lead</b> ('000 tonnes)											
	Original	60	55	55	51	63	54	47	66	n.y.a.	40.4	29.4
	Seasonally adjusted	60	54	54	52	63	53	46	67	n.y.a.	45.3	29.1
	Trend	61	56	54	56	56	55	55	58	n.y.a.	5.1	3.4
<b>23</b>	<b>Tin</b> (tonnes)											
	Original r	125	155	180	216	182	296	345	266	n.y.a.	-22.9	23.1
	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	140	152	171	196	237	274	298	303	n.y.a.	1.6	54.1
<b>24</b>	<b>Gold</b> (tonnes)											
	Original	115	88	101	78	82	92	108	85	n.y.a.	-21.3	9.0
	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)	94	96	91	85	86	91	96	98	n.y.a.	1.2	15.1
<b>25</b>	<b>Electricity</b> (million kWh)											
	Original	44 591	46 040	47 374	49 387	45 977	46 865	46 317	47 412	45 977	-3.0	—
	Seasonally adjusted	45 697	46 544	47 207	47 397	47 196	47 867	46 157	45 582	47 177	3.5	—
	Trend	45 748	46 501	47 067	47 433	47 525	47 085	46 539	46 271	46 304	0.1	-2.6
<b>26</b>	<b>Gas</b> (petajoules)											
	Original	165	164	199	213	173	177	205	218	185	-15.1	7.2
	Seasonally adjusted	178	189	187	187	186	203	193	191	200	4.4	7.2
	Trend	180	186	187	188	191	195	196	195	195	-0.1	2.0

(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.

# EXPLANATORY NOTES

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## 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) (formerly the Department of Industry, Science and Resources), 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 *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](mailto: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 be of interest are:
- *Australian National Accounts: National Income, Expenditure and Product* (Cat. no. 5206.0) issued quarterly
  - *Electricity, Gas, Water and Sewerage Industries, Australia, 1999–2000* (Cat. no. 8208.0), released on 28 August 2001
  - *Information Paper: Availability of Statistics Related to Manufacturing, 1997* (Cat. no. 8205.0), released on 16 January 1998
  - *Inventories and Sales, Selected Industries, Australia* (Cat. no. 5629.0) issued quarterly
  - *Livestock and Meat, Australia* (Cat. no. 7218.0) issued monthly
  - *Livestock Products, Australia* (Cat. no. 7215.0) issued quarterly
  - *Manufacturing, Australia, 2000* (Cat. no. 8225.0) released on 22 December 2000
  - *Manufacturing Industry, Australia, 1999–2000* (Cat. no. 8221.0) released on 24 October 2001
  - *Manufacturing Industry, Australia, Preliminary, 2000–01* (Cat. no. 8201.0) to be released in 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)  
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  
starches, wheat gluten and glucose products

## EXPLANATORY NOTES *continued*

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### ABS DATA AVAILABLE ON REQUEST *continued*

- 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](http://www.abs.gov.au).



## 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 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.                               |





## 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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