

MARCH QTR KEY FIGURES

TREND ESTIMATES (a)	Mar qtr 00 \$m	Dec qtr 99 to Mar qtr 00 % change	Mar qtr 99 to Mar qtr 00 % change
Value of work done	8 964.3	1.8	3.4
Total residential building	5 752.3	5.1	12.6
Non-residential building	3 224.0	-3.1	-9.5

SEASONALLY ADJUSTED (a)	Mar qtr 00 \$m	Dec qtr 99 to Mar qtr 00 % change	Mar qtr 99 to Mar qtr 00 % change
Value of work done	9 196.4	8.0	6.9
Total residential building	5 925.8	12.1	15.8
Non-residential building	3 244.0	0.3	-6.7

(a) Chain volume measures, reference year 1997-98.

MARCH QTR KEY POINTS

VALUE OF WORK DONE, VOLUME TERMS

TREND ESTIMATES

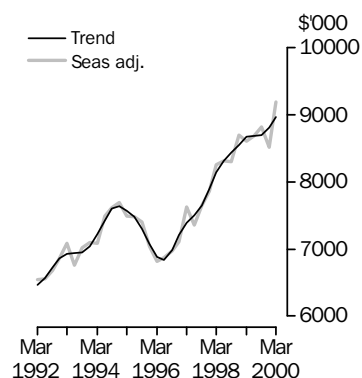
- The trend estimate for building work done rose by 1.8% in the March quarter 2000 and follows a rise of 1.2% in the December quarter 1999, after remaining steady in the June and September 1999 quarters.
- The resumption of this upward path was due to a 5.1% increase (following a 4.0% increase in the December quarter 1999) in the trend estimate of residential work done.
- On the other hand, the level of non-residential work done fell by 3.1% and has now fallen in each of the last four quarters to be 9.5% down on the level of a year earlier.

SEASONALLY ADJUSTED ESTIMATES

- The seasonally adjusted estimate of building work done jumped by 8.0% in the March quarter 2000 to a new record high of \$9,196.4m.
- This increase was almost entirely due to a record quarterly increase of 12.1% in work done on residential building to \$5,925.8m in the March quarter 2000 and follows a strong increase in the value of residential building approvals over the same period.
- Work done on non-residential building also rose, by 0.3% to \$3,244.0m. This level was 6.7% below that of the corresponding period a year ago.

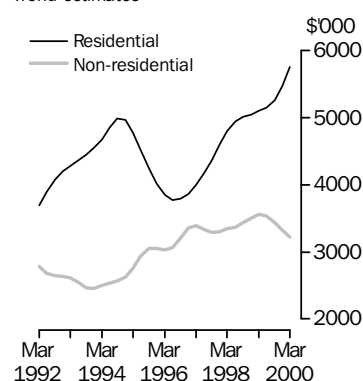
Value of work done

Total building
Volume terms



Value of work done

Volume terms
Trend estimates



- For further information about these and related statistics, contact Tony Bammann on Adelaide 08 8237 7316, or the National Information Service on 1300 135 070.

NOTES

FORTHCOMING ISSUES

ISSUE (Quarter)

RELEASE DATE

June 2000

31 August 2000

September 2000

30 November 2000

ABOUT THIS ISSUE

This publication provides an early indication of trends in building activity. The data are estimates based on a response rate of approximately 85% of the value of building work done during the quarter. More comprehensive and updated results for the December 1999 and March 2000 quarters will be released in *Building Activity, Australia* (Cat. no. 8752.0) on 20 July 2000.

CHANGES IN THIS ISSUE

There are no changes in this issue.

SAMPLING ERRORS

The estimates in this publication are based on a sample survey of private sector house building activity (including alterations and additions to private sector houses), and a complete enumeration of other building activity. Because data are not collected for all private sector house building jobs, the published estimates are subject to sampling variability. Relative standard errors give a measure of this variability and therefore indicate the degree of confidence that can be attached to the data.

RELATIVE STANDARD ERRORS

Relative standard errors for the value of work done in the March quarter 2000 for residential building (new and total private, total) and total building (private and total) are given below. There is 67% confidence that the actual value would be within one standard error of the sample estimate, and 95% confidence that it lies within two standard errors.

.....

%

.....

New private residential building	1.1
Total private residential building	1.1
Total residential building	1.1
Private non-residential building	..
Total non-residential building	..
Private total building	0.8

Total building 0.7

.....

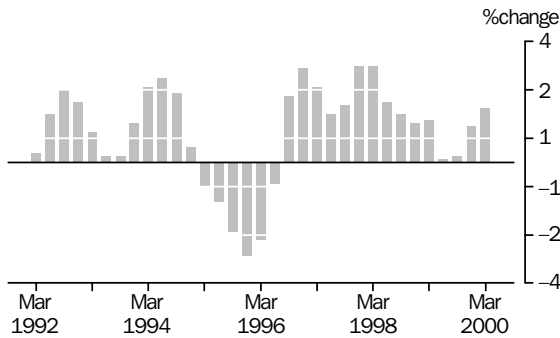
W. McLennan
Australian Statistician

BUILDING WORK DONE: Chain volume measures(a)

TREND PERCENTAGE CHANGE

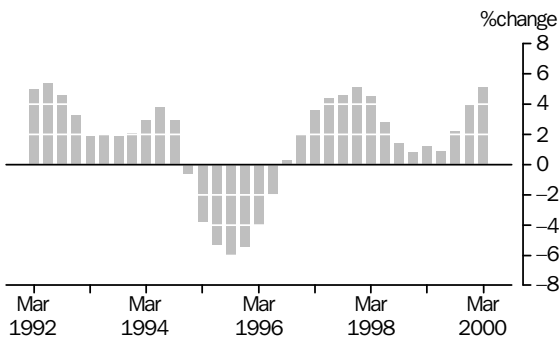
TOTAL BUILDING

The resumption of growth in the total value of work done has now resulted in 15 consecutive quarters of positive growth.



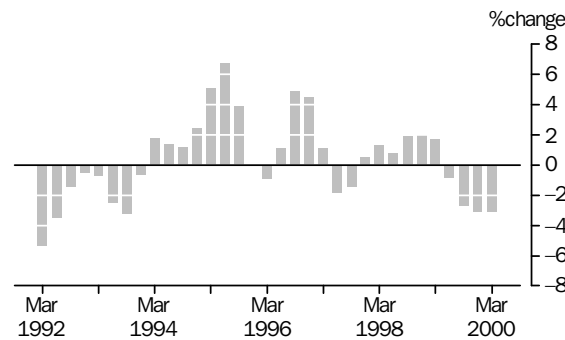
TOTAL RESIDENTIAL BUILDING

This trend series is showing an increasing rate of growth over the last three quarters.



NON-RESIDENTIAL BUILDING

The last four quarters have had negative growth compared with positive growth for 18 of the 21 quarters prior to the June quarter 1999.



(a) Reference year 1997-98.

Period	RESIDENTIAL BUILDING.....			NON-RESIDENTIAL BUILDING.....		TOTAL BUILDING.....	
	New private sector	Total private sector	Total	Private sector	Total	Private sector	Total
ORIGINAL (\$m)							
1996-97	12 744.7	15 265.2	15 816.9	9 811.9	13 280.8	25 045.2	29 064.7
1997-98	15 343.4	18 268.5	18 738.9	9 721.6	13 328.7	27 990.1	32 067.6
1998-99	16 585.8	19 687.2	20 273.8	10 428.6	14 015.1	30 115.8	34 288.9
1998							
Dec qtr	4 333.0	5 177.7	5 330.7	2 896.6	3 864.0	8 074.3	9 194.8
1999							
Mar qtr	3 891.9	4 604.3	4 729.2	2 271.0	3 138.6	6 875.3	7 867.7
June qtr	4 232.0	4 993.3	5 138.3	2 605.7	3 551.1	7 599.0	8 689.4
Sept qtr	4 451.6	5 288.5	5 447.0	2 766.7	3 621.7	8 055.2	9 068.6
Dec qtr	4 550.5	5 434.7	5 565.8	2 583.5	3 443.5	8 018.2	9 009.2
2000							
Mar qtr	4 590.0	5 377.6	5 490.7	2 196.2	2 935.8	7 573.8	8 426.5
SEASONALLY ADJUSTED (\$m)							
1998							
Dec qtr	4 157.1	4 920.8	5 064.6	2 700.7	3 632.2	7 613.6	8 695.9
1999							
Mar qtr	4 172.1	4 964.0	5 116.6	2 522.8	3 476.5	7 515.1	8 602.4
June qtr	4 226.9	4 999.5	5 135.2	2 685.4	3 543.5	7 651.8	8 686.3
Sept qtr	4 342.1	5 171.3	5 319.7	2 618.9	3 517.2	7 807.7	8 824.5
Dec qtr	4 350.8	5 159.5	5 283.9	2 404.0	3 234.3	7 552.4	8 514.4
2000							
Mar qtr	4 871.5	5 784.6	5 925.8	2 430.4	3 244.0	8 261.9	9 196.4
TREND ESTIMATES (\$m)							
1998							
Dec qtr	4 126.8	4 898.4	5 047.5	2 594.6	3 502.0	7 496.4	8 548.6
1999							
Mar qtr	4 179.0	4 959.3	5 107.2	2 640.4	3 561.3	7 603.1	8 672.3
June qtr	4 221.5	5 009.7	5 152.5	2 627.2	3 531.3	7 632.1	8 685.2
Sept qtr	4 317.5	5 126.6	5 265.3	2 567.0	3 435.3	7 692.1	8 699.8
Dec qtr	4 495.6	5 338.2	5 473.8	2 486.9	3 327.9	7 836.0	8 805.0
2000							
Mar qtr	4 728.9	5 617.0	5 752.3	2 395.4	3 224.0	8 029.1	8 964.3

(a) Reference year for chain volume measures is 1997-98. See paragraphs 17-20 of the Explanatory Notes.

Period	RESIDENTIAL BUILDING.....			NON-RESIDENTIAL BUILDING.....		TOTAL BUILDING.....	
	New private sector	Total private sector	Total	Private sector	Total	Private sector	Total
ORIGINAL (% change from preceding period)							
1996-97	-0.4	-0.4	-0.8	10.3	9.0	3.4	3.3
1997-98	20.4	19.7	18.5	-0.9	0.4	11.8	10.3
1998-99	8.1	7.8	8.2	7.3	5.2	7.6	6.9
1998							
Dec qtr	4.9	5.4	5.0	9.1	11.6	6.7	7.7
1999							
Mar qtr	-10.2	-11.1	-11.3	-21.6	-18.8	-14.8	-14.4
June qtr	8.7	8.5	8.7	14.7	13.1	10.5	10.4
Sept qtr	5.2	5.9	6.0	6.2	2.0	6.0	4.4
Dec qtr	2.2	2.8	2.2	-6.6	-4.9	-0.5	-0.7
2000							
Mar qtr	0.9	-1.1	-1.3	-15.0	-14.7	-5.5	-6.5
SEASONALLY ADJUSTED (% change from preceding quarter)							
1998							
Dec qtr	3.2	2.5	2.2	7.2	8.0	3.8	4.7
1999							
Mar qtr	0.4	0.9	1.0	-6.6	-4.3	-1.3	-1.1
June qtr	1.3	0.7	0.4	6.4	1.9	1.8	1.0
Sept qtr	2.7	3.4	3.6	-2.5	-0.7	2.0	1.6
Dec qtr	0.2	-0.2	-0.7	-8.2	-8.0	-3.3	-3.5
2000							
Mar qtr	12.0	12.1	12.1	1.1	0.3	9.4	8.0
TREND ESTIMATES (% change from preceding quarter)							
1998							
Dec qtr	0.8	0.7	0.8	1.9	2.0	1.1	1.3
1999							
Mar qtr	1.3	1.2	1.2	1.8	1.7	1.4	1.4
June qtr	1.0	1.0	0.9	-0.5	-0.8	0.4	0.1
Sept qtr	2.3	2.3	2.2	-2.3	-2.7	0.8	0.2
Dec qtr	4.1	4.1	4.0	-3.1	-3.1	1.9	1.2
2000							
Mar qtr	5.2	5.2	5.1	-3.7	-3.1	2.5	1.8

(a) Reference year for chain volume measures is 1997-98. See paragraphs 17-20 of the Explanatory Notes.

Period	RESIDENTIAL BUILDING.....			NON-RESIDENTIAL BUILDING.....		TOTAL BUILDING.....	
	New private sector	Total private sector	Total	Private sector	Total	Private sector	Total
ORIGINAL (\$m)							
1996-97	12 574.0	15 076.9	15 619.3	9 413.3	12 754.9	24 490.2	28 374.2
1997-98	15 343.4	18 268.5	18 738.9	9 721.6	13 328.7	27 990.1	32 067.6
1998-99	16 999.0	20 154.6	20 754.3	10 824.7	14 534.4	30 979.2	35 288.7
1998							
Dec qtr	4 414.4	5 269.1	5 424.5	2 995.6	3 990.5	8 264.7	9 415.0
1999							
Mar qtr	4 001.4	4 728.1	4 856.4	2 369.7	3 270.6	7 097.8	8 127.0
June qtr	4 401.6	5 187.5	5 337.7	2 740.9	3 731.7	7 928.4	9 069.4
Sept qtr	4 676.6	5 551.2	5 717.3	2 938.1	3 843.9	8 489.3	9 561.2
Dec qtr	4 843.0	5 779.9	5 918.7	2 771.2	3 690.0	8 551.1	9 608.8
2000							
Mar qtr	4 979.8	5 835.4	5 956.7	2 373.3	3 166.6	8 208.7	9 123.2
SEASONALLY ADJUSTED (\$m)							
1998							
Dec qtr	4 239.9	5 008.8	5 159.8	2 791.6	3 749.5	7 793.2	8 904.5
1999							
Mar qtr	4 295.2	5 097.1	5 245.2	2 630.5	3 620.9	7 756.4	8 884.9
June qtr	4 402.7	5 192.6	5 332.4	2 822.3	3 721.8	7 980.5	9 064.5
Sept qtr	4 564.5	5 437.5	5 597.7	2 785.4	3 735.2	8 238.7	9 312.1
Dec qtr	4 633.3	5 496.5	5 632.4	2 582.7	3 468.0	8 064.5	9 089.3
2000							
Mar qtr	5 288.5	6 287.8	6 429.7	2 630.3	3 501.0	8 965.8	9 966.0
TREND ESTIMATES (\$m)							
1998							
Dec qtr	4 211.6	4 988.4	5 140.9	2 681.0	3 614.7	7 673.2	8 754.9
1999							
Mar qtr	4 303.6	5 093.9	5 243.7	2 752.2	3 708.3	7 849.7	8 959.0
June qtr	4 389.3	5 198.5	5 345.9	2 764.8	3 712.4	7 957.4	9 060.1
Sept qtr	4 545.2	5 393.3	5 540.3	2 728.3	3 647.1	8 117.4	9 181.6
Dec qtr	4 799.0	5 701.6	5 846.0	2 668.8	3 564.8	8 379.0	9 410.1
2000							
Mar qtr	5 118.9	6 089.2	6 230.2	2 588.3	3 466.0	8 707.6	9 708.0

Period	RESIDENTIAL BUILDING.....			NON-RESIDENTIAL BUILDING.....		TOTAL BUILDING.....	
	<i>New private sector</i>	<i>Total private sector</i>	<i>Total</i>	<i>Private sector</i>	<i>Total</i>	<i>Private sector</i>	<i>Total</i>
ORIGINAL (% change from preceding period)							
1996-97	—	—	-0.4	13.8	12.5	4.9	5.0
1997-98	22.0	21.2	20.0	3.3	4.5	14.3	13.0
1998-99	10.8	10.3	10.8	11.3	9.0	10.7	10.0
1998							
Dec qtr	5.6	6.0	5.6	10.2	12.7	7.5	8.5
1999							
Mar qtr	-9.4	-10.3	-10.5	-20.9	-18.0	-14.1	-13.7
June qtr	10.0	9.7	9.9	15.7	14.1	11.7	11.6
Sept qtr	6.2	7.0	7.1	7.2	3.0	7.1	5.4
Dec qtr	3.6	4.1	3.5	-5.7	-4.0	0.7	0.5
2000							
Mar qtr	2.8	1.0	0.6	-14.4	-14.2	-4.0	-5.1
SEASONALLY ADJUSTED (% change from preceding quarter)							
1998							
Dec qtr	3.8	3.0	2.7	8.2	9.0	4.5	5.5
1999							
Mar qtr	1.3	1.8	1.7	-5.8	-3.4	-0.5	-0.2
June qtr	2.5	1.9	1.7	7.3	2.8	2.9	2.0
Sept qtr	3.7	4.7	5.0	-1.3	0.4	3.2	2.7
Dec qtr	1.5	1.1	0.6	-7.3	-7.2	-2.1	-2.4
2000							
Mar qtr	14.1	14.4	14.2	1.8	1.0	11.2	9.6
TREND ESTIMATES (% change from preceding quarter)							
1998							
Dec qtr	1.5	1.3	1.4	2.7	2.8	1.8	2.0
1999							
Mar qtr	2.2	2.1	2.0	2.7	2.6	2.3	2.3
June qtr	2.0	2.1	1.9	0.5	0.1	1.4	1.1
Sept qtr	3.6	3.7	3.6	-1.3	-1.8	2.0	1.3
Dec qtr	5.6	5.7	5.5	-2.2	-2.3	3.2	2.5
2000							
Mar qtr	6.7	6.8	6.6	-3.0	-2.8	3.9	3.2

EXPLANATORY NOTES

INTRODUCTION

1 This publication contains preliminary estimates from the quarterly Building Activity Survey of the value of building work done during the quarter. The data contained in this publication are early estimates based on a response rate of approximately 85% of the value of building work done during the quarter. More comprehensive and updated results for the last two quarters will be available shortly in *Building Activity, Australia* (Cat. no. 8752.0).

2 The statistics were compiled on the basis of returns collected from builders and other individuals and organisations engaged in building activity. The quarterly survey consists of two components:

- a sample survey of private sector jobs involving new house construction or alterations and additions valued at \$10,000 or more to houses
- a complete enumeration of jobs involving construction of new residential buildings other than private sector houses, all alterations and additions to residential buildings (other than private sector houses) with an approval value of \$10,000 or more, and all non-residential building jobs with an approval value of \$50,000 or more.

SCOPE AND COVERAGE

3 The statistics relate to *building* activity which includes construction of new buildings and alterations and additions to existing buildings. Construction activity not defined as building (e.g. construction of roads, bridges, railways, earthworks, etc.) is excluded.

RELATIONSHIP WITH NATIONAL ACCOUNTS

4 Data on the value of work done on the construction of new residential buildings, alterations and additions to residential buildings, private sector non-residential buildings (from the Building Activity Survey) and the value of engineering construction activity (from Cat. no. 8762.0) are the major source data which are used to compile the national accounts estimates for private gross fixed capital formation on dwellings, and other buildings and structures. However, there are some adjustments to the survey data which are made in the process of compiling these national accounts series. Allowances are made for the value of building activity which is out of scope of the Building Activity Survey and the Engineering Construction Activity Survey. Such activity includes work done on projects which fall below the size cut-offs used for the surveys and also the value of work done which is undertaken without obtaining a building permit, either because such a permit is not required or because the requisite permit is not obtained. The national accounts estimates also make allowances for purchases (less sales) of buildings and other structures from (to) the public sector.

DEFINITIONS

5 A *building* is defined as a rigid, fixed and permanent structure which has a roof. Its intended purpose is primarily to house people, plant, machinery, vehicles, goods or livestock. An integral feature of a building's design, to satisfy its intended use, is the provision for regular access by persons.

6 A *dwelling unit* is defined as a self-contained suite of rooms, including cooking and bathing facilities and intended for long-term residential use. Units (whether self-contained or not) within buildings offering institutional care, such as hospitals, or temporary accommodation such as motels, hostels and holiday apartments, are not defined as dwelling units. The value of units of this type is included in non-residential building.

EXPLANATORY NOTES *continued*

DEFINITIONS *continued*

7 A *residential building* is defined as a building predominantly consisting of one or more dwelling units. Residential buildings can be either *houses* or *other residential buildings*:

- A *house* is defined as a detached building predominantly used for long-term residential purposes and consisting of only one dwelling unit. Thus, detached 'granny flats' and detached dwelling units (such as caretakers' residences) associated with non-residential buildings are defined as houses for the purpose of these statistics.
- An *other residential building* is defined as a building which is predominantly used for long-term residential purposes and which contains (or has attached to it) more than one dwelling unit (e.g. includes townhouses, duplexes, blocks of flats, apartment buildings, etc.).

8 *Total residential building work done* is included for the private sector, split between 'new private' and 'total private'. The latter series includes work done on alterations and additions jobs valued at \$10,000 or more.

9 The *value of building work done during the period* represents the estimated value of building work actually carried out during the quarter on jobs which have commenced.

BUILDING CLASSIFICATION

10 *Ownership*. The ownership of a building is classified as either *public sector* or *private sector*, according to the sector of the intended owner of the completed building as evident at the time of approval. Residential buildings being constructed by private sector builders under government housing authority schemes whereby the authority has contracted, or intends to contract, to purchase the buildings on or before completion, are classified as public sector.

SEASONAL ADJUSTMENT

11 Seasonally adjusted building statistics are shown in tables 1–4. In the seasonally adjusted series, account has been taken of normal seasonal factors and the effect of movement in the date of Easter which may, in successive years, affect figures for different quarters. Details regarding the methods used in seasonally adjusting the series are available on request.

12 Since seasonally adjusted statistics reflect both irregular and trend movements, an upward or downward movement in a seasonally adjusted series does not necessarily indicate a change of trend. Particular care should therefore be taken in interpreting individual quarter-to-quarter movements. Each of the component series shown has been seasonally adjusted independently. As a consequence, while the unadjusted components in the original series shown add to the totals, the adjusted components may not add to the adjusted totals.

13 As happens with all seasonally adjusted series, the seasonal factors are reviewed annually to take account of each additional year's data. For the Building Activity Survey, the results of the latest review are shown in the December quarter issue each year.

TREND ESTIMATES

14 Seasonally adjusted series can be smoothed to reduce the impact of the irregular component in the adjusted series. This smoothed seasonally adjusted series is called a trend estimate.

15 The trend estimates are derived by applying a 7-term Henderson moving average to the seasonally adjusted series. The 7-term Henderson average (like all Henderson averages) is symmetric but, as the end of a time series is approached, asymmetric forms of the average are applied. Unlike weights of the standard 7-term Henderson moving average, the weights employed here have been tailored to suit the particular characteristics of individual series.

16 While the smoothing technique described in paragraphs 14 and 15 enables trend estimates to be produced for recent quarters, it does result in revisions to the estimates for the most recent three quarters as additional observations become available. There may also be revisions because of changes in the original data and as a result of the re-estimation of the seasonal factors. For further information, see *Information Paper: A Guide to Interpreting Time Series — Monitoring Trends: an Overview* (Cat. no. 1348.0) or contact the Assistant Director, Time Series Analysis on Canberra 02 6252 6345.

CHAIN VOLUME MEASURES

17 Chain volume estimates of the value of work done are presented in original, seasonally adjusted and trend terms.

18 While current price estimates of value of work done reflect both price and volume changes, chain volume estimates measure changes in value after the direct effects of price changes have been eliminated and therefore only reflect volume changes. The deflators used to revalue the current price estimates in this publication are derived from the same price data underlying the deflators compiled for the dwellings and new other building components of the national accounts aggregate 'Gross fixed capital formation'.

19 The chain volume measures of building work done appearing in this publication are annually reweighted chain Laspeyres indexes referenced to current price values in a chosen reference year (currently 1997–98). The reference year will be updated annually in the June quarter publication. Each year's data in the value of building work done series are based on the prices of the previous year, except for the quarters of the latest incomplete year which are based upon the current reference year (i.e. 1997–98). Comparability with previous years is achieved by linking (or chaining) the series together to form a continuous time series. Further information on the nature and concepts of chain volume measures is contained in the *ABS Information Paper: Introduction of Chain Volume Measures in the Australian National Accounts* (Cat. no. 5248.0).

20 The factors used to seasonally adjust the chain volume series are identical to those used to adjust the corresponding current price series.

ACKNOWLEDGMENT

21 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*.

EXPLANATORY NOTES *continued*

UNPUBLISHED DATA

22 The ABS can also make available certain building approvals and activity data which are not published. Where the data cannot be provided by telephone, it can be provided via fax, photocopy, computer print-out, floppy disk and email. A charge may be made for providing unpublished information in these forms.

RELATED PUBLICATIONS

23 Users may also wish to refer to the following publications which are available on request:

- Building Activity, Australia: Dwelling Unit Commencements, Preliminary* (Cat. no. 8750.0) — issued quarterly
- Building Activity, Australia* (Cat. no. 8752.0) — issued quarterly
- Building Approvals, Australia* (Cat. no. 8731.0) — issued monthly
- Private Sector Construction Industry, Australia, 1996–97* (Cat. no. 8772.0)
- Engineering Construction Activity, Australia* (Cat. no. 8762.0) — issued quarterly
- House Price Indexes: Eight Capital Cities* (Cat. no. 6416.0) — issued quarterly
- Housing Finance for Owner Occupation, Australia* (Cat. no. 5609.0) — issued monthly
- Price Index of Materials Used in Building Other Than House Building, Six State Capital Cities* (Cat. no. 6407.0) — issued quarterly
- Price Index of Materials Used in House Building, Six State Capital Cities* (Cat. no. 6408.0) — issued quarterly

24 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.

SYMBOLS AND OTHER USAGES

ABS	Australian Bureau of Statistics
..	not applicable
—	nil or rounded to zero

Where figures have been rounded, discrepancies may occur between sums of the component items and totals.

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 75c 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 75c per minute).

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