JUNE QUARTER 2003
8755.0

Value of construction work done
Volume terms


Jun Jun Jun Jun Jun
19951997199920012003

Value of building work done
Volume terms


I N Q U I R I E S

- For further information about these and related statistics, contact Tony Bammann on Adelaide 088237 7316, or the National Information and Referral Service on 1300135070.


## JUNE QTR KEY FIGURES

| TREND ESTIMATES(a) | $\begin{aligned} & \text { Jun qtr } 03 \\ & \$ m \end{aligned}$ | Mar qtr 03 to Jun qtr 03 \% change | Jun qtr 02 to Jun qtr 03 \% change |
| :---: | :---: | :---: | :---: |
| Value of work done |  |  |  |
| Building | 11474.8 | -0.5 | 7.2 |
| Residential | 7796.0 | -0.4 | 7.8 |
| Non-residential | 3681.4 | -0.6 | 6.0 |
| Engineering | 6222.9 | 1.5 | 15.4 |
| Total construction | 17723.1 | 0.4 | 10.1 |


| SEASONALLY ADJUSTED (a) | Jun qtr 03 <br> \$m | Mar qtr 03 to <br> Jun qtr 03 <br> \% change | Jun qtr 02 to <br> Jun qtr 03 <br> \% change |
| :--- | ---: | :---: | :---: |
| Value of work done |  |  |  |
| Building | 11282.0 | -3.4 | 5.5 |
| Residential | 7648.5 | -3.4 | 4.7 |
| Non-residential | 3633.5 | -3.6 | 7.0 |
| Engineering | 6206.2 | 1.0 | 19.6 |
| Total construction | 17488.2 | -1.9 | 10.1 |

(a) Chain volume measures, reference year 2001-02.

## JUNE QTR KEY POINTS

## VALUE OF CONSTRUCTION WORK DONE, VOLUME TERMS

## TREND ESTIMATES

- The trend estimate of building work done fell $0.5 \%$ in the June quarter 2003, with falls in both residential and non-residential building. In each sector, the fall follows eight successive quarters of growth.
- Engineering work rose for the ninth successive quarter, up $1.5 \%$ in the latest quarter. Growth for the last eight quarters has been driven by the private sector, up $4.1 \%$ in the latest quarter compared with a fall of $0.5 \%$ in the public sector.
- Total construction work done rose $0.4 \%$, the ninth successive quarterly increase.


## SEASONALLY ADJUSTED ESTIMATES

- The seasonally adjusted estimate of building work done fell $3.4 \%$ in the June quarter to $\$ 11,282.0 \mathrm{~m}$. Residential building fell $3.4 \%$ to $\$ 7,648.5 \mathrm{~m}$, following nine successive quarterly increases. Non-residential building fell $3.6 \%$ to $\$ 3,633.5 \mathrm{~m}$. However, the March quarter 2003 levels for both sectors were the highest since the June quarter 2000.
- Engineering work done rose $1.0 \%$ to $\$ 6,206.2 \mathrm{~m}$, the fourth successive quarterly record level. Work for the private sector fell $1.8 \%$ from last quarter's record level, to $\$ 3,364.8 \mathrm{~m}$, whereas the public sector rose $4.6 \%$ to $\$ 2,841.4 \mathrm{~m}$.
- Following nine successive quarterly increases, total construction work fell $1.9 \%$ from the previous quarter's record level, to $\$ 17,488.2 \mathrm{~m}$.


## N OTES

FORTHCOMING ISSUES

ABOUT THIS ISSUE

ISSUE (Quarter)
September 2003
December 2003

## RELEASE DATE

26 November 2003
25 February 2004

CHANGES IN THIS ISSUE

This publication provides an early indication of trends in building and engineering construction activity. The data are estimates based on a response rate of approximately $80 \%$ of the value of both building and engineering work done during the quarter. More comprehensive and updated results will be released in Building Activity, Australia (cat. no. 8752.0) and in Engineering Construction Activity, Australia (cat. no. 8762.0) on 10 October 2003.

Note that additional time series are available on AusStats. For the state and territory building work done series shown in tables 9 and 10, work done (and corresponding percentage changes) for each state and territory is available by private sector/all sectors and by type of building, i.e. by the same dissections as shown for Australia in tables 7 and 8.

Quarterly chain volume data incorporate a new base year, 2001-02, which has resulted in revisions to growth rates, small in most cases, for subsequent periods. In addition, the reference year has been advanced to 2001-02, thereby preserving additivity in the quarters after the reference year. Re-referencing resulted in revisions to levels, but not growth rates, for all periods.

Seasonally adjusted and trend estimates have been revised as a result of the adoption of new seasonal adjustment methodology. Concurrent seasonal adjustment has replaced forward factor methodology for all seasonally adjusted series in this publication. See paragraphs 26 and 27 of the Explanatory Notes.

R.W. Edwards<br>Acting Australian Statistician

CONSTRUCTION WORK DONE:Chain volume measures (a)

## TREND PERCENTAGE CHANGE

NOTE: Trend estimates are subject to revisions. See Explanatory Notes, paragraph 30.

## TOTAL CONSTRUCTION



Engineering

Building

Residential

Non-residential

(a) Reference year 2001-02.

The total value of construction work done rose for the ninth successive quarter, but the rate of growth has slowed, particularly over the last three quarters.

Engineering construction work done has risen for each of the last nine quarters, but the rate of growth has eased over the last four quarters.

Total building work done fell, following eight quarters of growth.

Residential building work fell following eight quarters of growth.

Non-residential building work fell following eight quarters of growth.

|  | BUILDING WORK DONE |  |  | ENGINEERING WORK DONE.. |  |  | CONSTRUCTION <br> WORK DONE..... |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Period | Private | Public | Total | Private | Public | Total | Private | Public | Total |
| ORIGINAL (\$m) |  |  |  |  |  |  |  |  |  |
| 2000-01 | 29968.7 | 4128.4 | 34100.9 | 6813.2 | 11657.5 | 18474.2 | 36784.9 | 15782.7 | 52571.1 |
| 2001-02 | 35357.7 | 4299.1 | 39656.9 | 8899.0 | 11133.1 | 20032.1 | 44256.7 | 15432.3 | 59689.0 |
| 2002-03 | 41591.1 | 4091.2 | 45682.3 | 12704.0 | 11264.3 | 23968.4 | 54295.1 | 15355.5 | 69650.6 |
| 2002 |  |  |  |  |  |  |  |  |  |
| Mar qtr | 8454.1 | 957.3 | 9410.5 | 2616.2 | 2507.8 | 5123.2 | 11068.0 | 3465.0 | 14529.9 |
| Jun qtr | 9646.1 | 1129.2 | 10774.6 | 2506.9 | 3117.4 | 5624.4 | 12152.4 | 4246.2 | 16394.6 |
| Sep qtr | 10526.8 | 1127.7 | 11654.6 | 2955.0 | 2537.0 | 5492.1 | 13481.8 | 3664.8 | 17146.6 |
| Dec qtr | 10768.4 | 1087.6 | 11855.9 | 3234.7 | 2918.4 | 6153.1 | 14003.1 | 4006.0 | 18009.0 |
| 2003 |  |  |  |  |  |  |  |  |  |
| Mar qtr | 9931.4 | 912.5 | 10843.9 | 3192.0 | 2590.0 | 5782.0 | 13123.4 | 3502.5 | 16625.9 |
| Jun qtr | 10364.4 | 963.4 | 11327.8 | 3322.4 | 3218.9 | 6541.2 | 13686.8 | 4182.3 | 17869.1 |


| SEASONALLY ADJUSTED (\$m) |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2002 |  |  |  |  |  |  |  |  |  |
| Mar qtr | 9055.0 | 1045.9 | 10100.7 | 2786.8 | 2684.9 | 5474.2 | 11842.1 | 3757.3 | 15573.2 |
| Jun qtr | 9611.4 | 1084.9 | 10696.1 | 2518.9 | 2667.9 | 5188.0 | 12129.7 | 3747.8 | 15883.0 |
| Sep qtr | 10125.5 | 1105.4 | 11230.9 | 2832.3 | 2804.7 | 5637.0 | 12957.9 | 3910.1 | 16867.9 |
| Dec qtr | 10419.6 | 1066.8 | 11486.4 | 3078.7 | 2902.4 | 5981.1 | 13498.3 | 3969.2 | 17467.5 |
| 2003 |  |  |  |  |  |  |  |  |  |
| Mar qtr | 10689.5 | 993.5 | 11683.0 | 3428.2 | 2715.8 | 6144.1 | 14117.7 | 3709.3 | 17827.1 |
| Jun qtr | 10356.4 | 925.5 | 11282.0 | 3364.8 | 2841.4 | 6206.2 | 13721.2 | 3767.0 | 17488.2 |
| TREND ESTIMATES (\$m) |  |  |  |  |  |  |  |  |  |
| 2002 |  |  |  |  |  |  |  |  |  |
| Mar qtr | 9118.6 | 1074.5 | 10193.0 | 2398.9 | 2733.6 | 5133.2 | 11517.2 | 3811.7 | 15325.3 |
| Jun qtr | 9620.6 | 1083.9 | 10704.4 | 2665.6 | 2727.2 | 5393.9 | 12286.1 | 3815.7 | 16097.3 |
| Sep qtr | 10103.4 | 1089.7 | 11193.0 | 2876.3 | 2772.2 | 5649.1 | 12979.5 | 3863.2 | 16841.6 |
| Dec qtr | 10406.3 | 1056.6 | 11465.6 | 3082.2 | 2817.3 | 5902.4 | 13487.3 | 3872.4 | 17364.3 |
| 2003 |  |  |  |  |  |  |  |  |  |
| Mar qtr | 10531.1 | 998.0 | 11530.3 | 3313.3 | 2814.5 | 6129.5 | 13843.7 | 3812.8 | 17657.8 |
| Jun qtr | 10542.7 | 950.1 | 11474.8 | 3449.7 | 2800.1 | 6222.9 | 14004.7 | 3750.2 | 17723.1 |

(a) Reference year for chain volume measures is 2001-02. See paragraphs 31-34 of the

Explanatory Notes.

CONSTRUCTION WORK DONE, Chain volume measures(a): All series-Percentage change

|  | BUILDING <br> WORK DONE. |  |  | ENGINEERING WORK DONE.. |  |  | CONSTRUCTION WORK DONE.... |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Period | Private | Public | Total | Private | Public | Total | Private | Public | Total |
| ORIGINAL (\% change from preceding period) |  |  |  |  |  |  |  |  |  |
| 2000-01 | -25.0 | -7.0 | -23.1 | -16.9 | -8.6 | -11.9 | -23.6 | -8.2 | -19.4 |
| 2001-02 | 18.0 | 4.1 | 16.3 | 30.6 | -4.5 | 8.4 | 20.3 | -2.2 | 13.5 |
| 2002-03 | 17.6 | -4.8 | 15.2 | 42.8 | 1.2 | 19.6 | 22.7 | -0.5 | 16.7 |
| 2002 |  |  |  |  |  |  |  |  |  |
| Mar qtr | -5.6 | -13.8 | -6.5 | 40.1 | -14.5 | 6.7 | 2.2 | -14.3 | -2.3 |
| Jun qtr | 14.1 | 18.0 | 14.5 | -4.2 | 24.3 | 9.8 | 9.8 | 22.5 | 12.8 |
| Sep qtr | 9.1 | -0.1 | 8.2 | 17.9 | -18.6 | -2.4 | 10.9 | -13.7 | 4.6 |
| Dec qtr | 2.3 | -3.6 | 1.7 | 9.5 | 15.0 | 12.0 | 3.9 | 9.3 | 5.0 |
| 2003 |  |  |  |  |  |  |  |  |  |
| Mar qtr | -7.8 | -16.1 | -8.5 | -1.3 | -11.3 | -6.0 | -6.3 | -12.6 | -7.7 |
| Jun qtr | 4.4 | 5.6 | 4.5 | 4.1 | 24.3 | 13.1 | 4.3 | 19.4 | 7.5 |


|  | SEASONALLY ADJUSTED (\% change from preceding period) |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2002 |  |  |  |  |  |  |  |  |  |
| Mar qtr | 4.5 | -3.6 | 3.6 | 57.7 | -7.9 | 16.9 | 13.5 | -5.7 | 7.9 |
| Jun qtr | 6.1 | 3.7 | 5.9 | -9.6 | -0.6 | -5.2 | 2.4 | -0.3 | 2.0 |
| Sep qtr | 5.3 | 1.9 | 5.0 | 12.4 | 5.1 | 8.7 | 6.8 | 4.3 | 6.2 |
| Dec qtr | 2.9 | -3.5 | 2.3 | 8.7 | 3.5 | 6.1 | 4.2 | 1.5 | 3.6 |
| 2003 |  |  |  |  |  |  |  |  |  |
| Mar qtr | 2.6 | -6.9 | 1.7 | 11.4 | -6.4 | 2.7 | 4.6 | -6.5 | 2.1 |
| Jun qtr | -3.1 | -6.8 | -3.4 | -1.8 | 4.6 | 1.0 | -2.8 | 1.6 | -1.9 |

TREND ESTIMATES (\% change from preceding period)
2002

| Mar qtr | 6.4 | 0.5 | 5.7 | 15.9 | -3.8 | 4.5 | 8.2 | -2.5 | 5.3 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Jun qtr | 5.5 | 0.9 | 5.0 | 11.1 | -0.2 | 5.1 | 6.7 | 0.1 | 5.0 |
| Sep qtr | 5.0 | 0.5 | 4.6 | 7.9 | 1.7 | 4.7 | 5.6 | 1.2 | 4.6 |
| Dec qtr | 3.0 | -3.0 | 2.4 | 7.2 | 1.6 | 4.5 | 3.9 | 0.2 | 3.1 |
| $\mathbf{0 0 3}$ |  |  |  |  |  |  |  |  |  |
| Mar qtr | 1.2 | -5.5 | 0.6 | 7.5 | -0.1 | 3.8 | 2.6 | -1.5 | 1.7 |
| Jun qtr | 0.1 | -4.8 | -0.5 | 4.1 | -0.5 | 1.5 | 1.2 | -1.6 | 0.4 |

(a) Reference year for chain volume measures is 2001-02. See paragraphs 31-34 of the Explanatory Notes.

|  | BUILDING |  |  | ENGINEERING WORK DONE.. |  |  | CONSTRUCTION WORK DONE(a) |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Period | Private | Public | Total | Private | Public | Total | Private | Public | Total |
| ORIGINAL (\$m) |  |  |  |  |  |  |  |  |  |
| 2000-01 | 29547.2 | 4106.6 | 33653.8 | 6682.3 | 11461.4 | 18143.7 | 36229.5 | 15568.0 | 51797.5 |
| 2001-02 | 35357.7 | 4299.1 | 39656.9 | 8899.0 | 11132.3 | 20031.3 | 44256.7 | 15431.4 | 59688.2 |
| 2002-03 | 43207.9 | 4237.2 | 47445.0 | 13070.4 | 11521.4 | 24591.8 | 56278.3 | 15758.5 | 72036.8 |
| 2002 |  |  |  |  |  |  |  |  |  |
| Mar qtr | 8474.4 | 959.0 | 9433.5 | 2611.4 | 2508.8 | 5120.2 | 11085.8 | 3467.8 | 14553.7 |
| Jun qtr | 9759.5 | 1141.5 | 10901.0 | 2526.7 | 3142.9 | 5669.6 | 12286.2 | 4284.4 | 16570.5 |
| Sep qtr | 10757.7 | 1149.9 | 11907.6 | 3016.6 | 2572.4 | 5589.0 | 13774.3 | 3722.3 | 17496.5 |
| Dec qtr | 11095.3 | 1119.8 | 12215.2 | 3317.8 | 2980.6 | 6298.5 | 14413.2 | 4100.5 | 18513.6 |
| 2003 |  |  |  |  |  |  |  |  |  |
| Mar qtr | 10349.2 | 949.1 | 11298.3 | 3274.6 | 2655.7 | 5930.3 | 13623.9 | 3604.8 | 17228.7 |
| Jun qtr | 11005.7 | 1018.3 | 12023.9 | 3461.3 | 3312.7 | 6774.0 | 14467.0 | 4331.0 | 18798.0 |
| SEASONALLY ADJUSTED (\$m) |  |  |  |  |  |  |  |  |  |
| 2002 |  |  |  |  |  |  |  |  |  |
| Mar qtr | 9105.7 | 1047.1 | 10152.8 | 2793.0 | 2715.1 | 5508.1 | 11898.7 | 3762.2 | 15660.9 |
| Jun qtr | 9751.9 | 1095.9 | 10847.9 | 2561.1 | 2686.6 | 5247.7 | 12313.0 | 3782.6 | 16095.6 |
| Sep qtr | 10366.7 | 1126.7 | 11493.5 | 2916.0 | 2841.8 | 5757.8 | 13282.7 | 3968.6 | 17251.3 |
| Dec qtr | 10748.0 | 1098.6 | 11846.5 | 3179.8 | 2943.8 | 6123.6 | 13927.8 | 4042.3 | 17970.1 |
| 2003 |  |  |  |  |  |  |  |  |  |
| Mar qtr | 11145.5 | 1033.9 | 12179.4 | 3499.7 | 2814.2 | 6313.8 | 14645.2 | 3848.1 | 18493.3 |
| Jun qtr | 11000.9 | 978.9 | 11979.8 | 3507.9 | 2911.2 | 6419.2 | 14508.8 | 3890.1 | 18398.9 |
| 2002 TREND ESTIMATES (\$m) |  |  |  |  |  |  |  |  |  |
| 2002 ( |  |  |  |  |  |  |  |  |  |
| Mar qtr | 9172.1 | 1075.9 | 10248.0 | 2419.4 | 2743.1 | 5162.5 | 11591.6 | 3818.9 | 15410.5 |
| Jun qtr | 9760.2 | 1094.7 | 10854.8 | 2711.9 | 2750.6 | 5462.5 | 12472.0 | 3845.2 | 16317.3 |
| Sep qtr | 10333.5 | 1110.7 | 11444.2 | 2947.9 | 2810.4 | 5758.3 | 13281.4 | 3921.1 | 17202.5 |
| Dec qtr | 10746.9 | 1088.9 | 11835.9 | 3171.3 | 2871.6 | 6042.8 | 13918.2 | 3960.4 | 17878.7 |
| 2003 |  |  |  |  |  |  |  |  |  |
| Mar qtr | 11003.4 | 1040.3 | 12043.8 | 3415.9 | 2887.7 | 6303.6 | 14419.3 | 3928.0 | 18347.4 |
| Jun qtr | 11162.8 | 987.4 | 12146.4 | 3568.3 | 2883.8 | 6452.1 | 14731.1 | 3871.2 | 18598.5 |

ENGINEERING

CONSTRUCTION
(a) From the September quarter 2000, data is inclusive of non-deductible GST payable on
residential buildings. See paragraphs 10 and 11 of the Explanatory Notes.

CONSTRUCTION WORK DONE, Current prices: All series—Percentage change

|  | BUILDING <br> WORK DONE(a) |  |  | ENGINEERING WORK DONE. |  |  | CONSTRUCTION <br> WORK DONE(a). |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Period | Private | Public | Total | Private | Public | Total | Private | Public | Total |
| ORIGINAL (\% change from preceding period) |  |  |  |  |  |  |  |  |  |
| 2000-01 | -17.8 | -4.1 | -16.4 | -14.2 | -5.4 | -8.9 | -17.2 | -5.1 | -13.9 |
| 2001-02 | 19.7 | 4.7 | 17.8 | 33.2 | -2.9 | 10.4 | 22.2 | -0.9 | 15.2 |
| 2002-03 | 22.2 | -1.4 | 19.6 | 46.9 | 3.5 | 22.8 | 27.2 | 2.1 | 20.7 |
| 2002 |  |  |  |  |  |  |  |  |  |
| Mar qtr | -5.0 | -13.2 | -5.9 | 40.2 | -14.0 | 7.1 | 2.8 | -13.8 | -1.7 |
| Jun qtr | 15.2 | 19.0 | 15.6 | -3.2 | 25.3 | 10.7 | 10.8 | 23.5 | 13.9 |
| Sep qtr | 10.2 | 0.7 | 9.2 | 19.4 | -18.2 | -1.4 | 12.1 | -13.1 | 5.6 |
| Dec qtr | 3.1 | -2.6 | 2.6 | 10.0 | 15.9 | 12.7 | 4.6 | 10.2 | 5.8 |
| 2003 |  |  |  |  |  |  |  |  |  |
| Mar qtr | -6.7 | -15.2 | -7.5 | -1.3 | -10.9 | -5.8 | -5.5 | -12.1 | -6.9 |
| Jun qtr | 6.3 | 7.3 | 6.4 | 5.7 | 24.7 | 14.2 | 6.2 | 20.1 | 9.1 |


|  |  |  |  |  |  |  |  |  |  |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| $\mathbf{2 0 0 2}$ | SEASONALLY ADJUSTED (\% change from preceding period) |  |  |  |  |  |  |  |  |
| Mar qtr | 5.3 | -3.0 | 4.4 | 56.4 | -6.0 | 17.9 | 14.0 | -5.2 | 8.7 |
| Jun qtr | 7.1 | 4.7 | 6.8 | -8.3 | -1.0 | -4.7 | 3.5 | 0.5 | 2.8 |
| Sep qtr | 6.3 | 2.8 | 6.0 | 13.9 | 5.8 | 9.7 | 7.9 | 4.9 | 7.2 |
| Dec qtr | 3.7 | -2.5 | 3.1 | 9.0 | 3.6 | 6.4 | 4.9 | 1.9 | 4.2 |
|  |  |  |  |  |  |  |  |  |  |
| $\mathbf{2 0 3}$ |  |  |  |  |  |  |  |  |  |
| Mar qtr | 3.7 | -5.9 | 2.8 | 10.1 | -4.4 | 3.1 | 5.2 | -4.8 | 2.9 |
| Jun qtr | -1.3 | -5.3 | -1.6 | 0.2 | 3.4 | 1.7 | -0.9 | 1.1 | -0.5 |

TREND ESTIMATES (\% change from preceding period)
2002

| Mar qtr | 7.2 | 1.1 | 6.6 | 16.4 | -2.7 | 5.4 | 9.0 | -1.6 | 6.2 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Jun qtr | 6.4 | 1.7 | 5.9 | 12.1 | 0.3 | 5.8 | 7.6 | 0.7 | 5.9 |
| Sep qtr | 5.9 | 1.5 | 5.4 | 8.7 | 2.2 | 5.4 | 6.5 | 2.0 | 5.4 |
| Dec qtr | 4.0 | -2.0 | 3.4 | 7.6 | 2.2 | 4.9 | 4.8 | 1.0 | 3.9 |
| $\mathbf{0 0 3}$ |  |  |  |  |  |  |  |  |  |
| Mar qtr | 2.4 | -4.5 | 1.8 | 7.7 | 0.6 | 4.3 | 3.6 | -0.8 | 2.6 |
| Jun qtr | 1.4 | -5.1 | 0.9 | 4.5 | -0.1 | 2.4 | 2.2 | -1.4 | 1.4 |

(a) From the September quarter 2000, data is inclusive of non-deductible GST payable on residential buildings. See paragraphs 10 and 11 of the Explanatory Notes.

|  | NEW RESIDEN | IAL...... | ALTERATIONS AND ADDITIONS TO RESIDENTIAL BUILDING. |  | TOTAL RESIDENTIAL....... |  | NON- <br> RESIDENTIAL...... |  | TOTAL BUILDING(a)...... |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Period | Private | Total | Private | Total | Private | Total | Private | Total | Private | Total |
| ORIGINAL (\$m) |  |  |  |  |  |  |  |  |  |  |
| 2000-01 | 17675.1 | 18101.7 | 3329.0 | 3471.8 | 21003.5 | 21573.0 | 8955.3 | 12514.1 | 29968.7 | 34100.9 |
| 2001-02 | 21834.4 | 22299.3 | 3982.9 | 4152.1 | 25817.2 | 26451.4 | 9540.5 | 13205.5 | 35357.7 | 39656.9 |
| 2002-03 | 25928.2 | 26364.6 | 4421.1 | 4596.4 | 30349.3 | 30961.0 | 11241.8 | 14721.3 | 41591.1 | 45682.3 |
| 2002 |  |  |  |  |  |  |  |  |  |  |
| Mar qtr | 5262.5 | 5369.7 | 893.6 | 932.3 | 6156.5 | 6302.4 | 2297.2 | 3108.4 | 8454.1 | 9410.5 |
| Jun qtr | 6129.8 | 6233.7 | 1077.8 | 1129.0 | 7207.9 | 7363.0 | 2439.3 | 3413.2 | 9646.1 | 10774.6 |
| Sep qtr | 6542.4 | 6648.6 | 1133.8 | 1167.1 | 7676.1 | 7815.6 | 2850.7 | 3838.9 | 10526.8 | 11654.6 |
| Dec qtr | 6731.9 | 6853.7 | 1158.3 | 1197.3 | 7890.3 | 8050.9 | 2878.1 | 3805.0 | 10768.4 | 11855.9 |
| 2003 |  |  |  |  |  |  |  |  |  |  |
| Mar qtr | 6214.6 | 6308.7 | 1044.0 | 1089.1 | 7258.6 | 7397.8 | 2672.8 | 3446.1 | 9931.4 | 10843.9 |
| Jun qtr | 6439.3 | 6553.6 | 1085.0 | 1143.0 | 7524.3 | 7696.6 | 2840.1 | 3631.3 | 10364.4 | 11327.8 |
| SEASONALLY ADJUSTED (\$m) |  |  |  |  |  |  |  |  |  |  |
| 2002 |  |  |  |  |  |  |  |  |  |  |
| Mar qtr | 5597.3 | 5719.5 | 976.1 | 1017.8 | 6573.7 | 6737.7 | 2480.8 | 3362.9 | 9055.0 | 10100.7 |
| Jun qtr | 6079.4 | 6187.0 | 1074.8 | 1115.0 | 7154.4 | 7302.2 | 2458.4 | 3395.1 | 9611.4 | 10696.1 |
| Sep qtr | 6303.2 | 6404.9 | 1101.2 | 1134.8 | 7404.3 | 7539.7 | 2721.2 | 3691.2 | 10125.5 | 11230.9 |
| Dec qtr | 6587.7 | 6698.3 | 1111.8 | 1159.4 | 7699.5 | 7857.6 | 2720.1 | 3628.7 | 10419.6 | 11486.4 |
| 2003 |  |  |  |  |  |  |  |  |  |  |
| Mar qtr | 6635.2 | 6741.7 | 1125.1 | 1173.5 | 7760.3 | 7915.2 | 2929.2 | 3767.8 | 10689.5 | 11683.0 |
| Jun qtr | 6402.1 | 6519.7 | 1083.0 | 1128.8 | 7485.1 | 7648.5 | 2871.3 | 3633.5 | 10356.4 | 11282.0 |
| 002 TREND ESTIMATES (\$m) |  |  |  |  |  |  |  |  |  |  |
| 2002 (\$m) |  |  |  |  |  |  |  |  |  |  |
| Mar qtr | 5665.1 | 5784.0 | 1011.4 | 1052.2 | 6676.7 | 6836.4 | 2442.2 | 3357.0 | 9118.6 | 10193.0 |
| Jun qtr | 6027.0 | 6138.4 | 1055.7 | 1094.2 | 7082.9 | 7232.9 | 2538.2 | 3472.1 | 9620.6 | 10704.4 |
| Sep qtr | 6352.0 | 6457.2 | 1098.1 | 1137.9 | 7450.3 | 7595.2 | 2653.5 | 3598.2 | 10103.4 | 11193.0 |
| Dec qtr | 6520.2 | 6626.6 | 1115.2 | 1158.4 | 7634.9 | 7784.7 | 2772.2 | 3680.3 | 10406.3 | 11465.6 |
| 2003 |  |  |  |  |  |  |  |  |  |  |
| Mar qtr | 6560.5 | 6670.9 | 1110.2 | 1157.1 | 7670.6 | 7827.9 | 2860.8 | 3702.2 | 10531.1 | 11530.3 |
| Jun qtr | 6531.9 | 6646.9 | 1100.8 | 1149.2 | 7631.9 | 7796.0 | 2906.7 | 3681.4 | 10542.7 | 11474.8 |

(a) Reference year for chain volume measures is 2001-02. See paragraphs 31-34 of the Explanatory Notes.

VALUE OF BUILDING WORK DONE, Chain volume measures(a): All series—Percentage change

|  | NEW <br> RESID | IAL.... | ALTERATIONS AND ADDITIONS TO RESIDENTIAL BUILDING. |  | TOTAL RESID | IAL.... | NON- <br> RESIDENTIAL |  | TOTAL BUILDING...... |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Period | Private | Total | Private | Total | Private | Total | Private | Total | Private | Total |
| ORIGINAL (\% change from preceding period) |  |  |  |  |  |  |  |  |  |  |
| 2000-01 | -27.5 | -27.2 | -24.3 | -23.4 | -27.0 | -26.6 | -20.5 | -17.0 | -25.0 | -23.1 |
| 2001-02 | 23.5 | 23.2 | 19.6 | 19.6 | 22.9 | 22.6 | 6.5 | 5.5 | 18.0 | 16.3 |
| 2002-03 | 18.7 | 18.2 | 11.0 | 10.7 | 17.6 | 17.0 | 17.8 | 11.5 | 17.6 | 15.2 |
| 2002 |  |  |  |  |  |  |  |  |  |  |
| Mar qtr | -3.1 | -3.5 | -15.3 | -14.5 | -5.1 | -5.3 | -7.2 | -8.9 | -5.6 | -6.5 |
| Jun qtr | 16.5 | 16.1 | 20.6 | 21.1 | 17.1 | 16.8 | 6.2 | 9.8 | 14.1 | 14.5 |
| Sep qtr | 6.7 | 6.7 | 5.2 | 3.4 | 6.5 | 6.1 | 16.9 | 12.5 | 9.1 | 8.2 |
| Dec qtr | 2.9 | 3.1 | 2.2 | 2.6 | 2.8 | 3.0 | 1.0 | -0.9 | 2.3 | 1.7 |
| 2003 |  |  |  |  |  |  |  |  |  |  |
| Mar qtr | -7.7 | -8.0 | -9.9 | -9.0 | -8.0 | -8.1 | -7.1 | -9.4 | -7.8 | -8.5 |
| Jun qtr | 3.6 | 3.9 | 3.9 | 4.9 | 3.7 | 4.0 | 6.3 | 5.4 | 4.4 | 4.5 |

SEASONALLY ADJUSTED (\% change from preceding quarter)
2002

| Mar qtr | 5.6 | 5.4 | -1.5 | -1.5 | 4.5 | 4.3 | 4.6 | 2.3 | 4.5 | 3.6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Jun qtr | 8.6 | 8.2 | 10.1 | 9.6 | 8.8 | 8.4 | -0.9 | 1.0 | 6.1 | 5.9 |
| Sep qtr | 3.7 | 3.5 | 2.5 | 1.8 | 3.5 | 3.3 | 10.7 | 8.7 | 5.3 | 5.0 |
| Dec qtr | 4.5 | 4.6 | 1.0 | 2.2 | 4.0 | 4.2 | - | -1.7 | 2.9 | 2.3 |
| 003 |  |  |  |  |  |  |  |  |  |  |
| Mar qtr | 0.7 | 0.6 | 1.2 | 1.2 | 0.8 | 0.7 | 7.7 | 3.8 | 2.6 | 1.7 |
| Jun qtr | -3.5 | -3.3 | -3.7 | -3.8 | -3.5 | -3.4 | -2.0 | -3.6 | -3.1 | -3.4 |

TREND ESTIMATES (\% change from preceding quarter)

| 2002 |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mar qtr | 7.9 | 7.7 | 3.9 | 3.5 | 7.3 | 7.1 | 4.0 | 3.2 | 6.4 | 5.7 |
| Jun qtr | 6.4 | 6.1 | 4.4 | 4.0 | 6.1 | 5.8 | 3.9 | 3.4 | 5.5 | 5.0 |
| Sep qtr | 5.4 | 5.2 | 4.0 | 4.0 | 5.2 | 5.0 | 4.5 | 3.6 | 5.0 | 4.6 |
| Dec qtr | 2.6 | 2.6 | 1.6 | 1.8 | 2.5 | 2.5 | 4.5 | 2.3 | 3.0 | 2.4 |
| 2003 |  |  |  |  |  |  |  |  |  |  |
| Mar qtr | 0.6 | 0.7 | -0.4 | -0.1 | 0.5 | 0.6 | 3.2 | 0.6 | 1.2 | 0.6 |
| Jun qtr | -0.4 | -0.4 | -0.8 | -0.7 | -0.5 | -0.4 | 1.6 | -0.6 | 0.1 | -0.5 |

(a) Reference year for chain volume measures is 2001-02. See paragraphs 31-34 of the

Explanatory Notes.

VALUE OF BUILDING WORK DONE, Current prices: All series

|  | NEW RESIDEN | $\operatorname{TIAL}(\mathrm{a}) \ldots$ | ALTERATIONS <br> AND ADDITIONS TO RESIDENTIAL BUILDING(a)..... |  | TOTAL <br> RESIDENTIAL(a)... |  | NON- <br> RESIDENTIAL...... |  | TOTAL BUILDING(a)...... |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Period | Private | Total | Private | Total | Private | Total | Private | Total | Private | Total |
| ORIGINAL (\$m) |  |  |  |  |  |  |  |  |  |  |
| 2000-01 | 17389.7 | 17811.5 | 3255.3 | 3395.0 | 20645.0 | 21206.6 | 8902.2 | 12447.2 | 29547.2 | 33653.8 |
| 2001-02 | 21834.4 | 22299.3 | 3982.9 | 4152.1 | 25817.2 | 26451.4 | 9540.5 | 13205.5 | 35357.7 | 39656.9 |
| 2002-03 | 26996.8 | 27452.4 | 4587.7 | 4770.4 | 31584.5 | 32222.8 | 11623.4 | 15222.2 | 43207.9 | 47445.0 |
| 2002 |  |  |  |  |  |  |  |  |  |  |
| Mar qtr | 5277.5 | 5385.2 | 897.5 | 936.4 | 6175.0 | 6321.6 | 2299.5 | 3111.9 | 8474.4 | 9433.5 |
| Jun qtr | 6205.0 | 6310.6 | 1090.3 | 1142.1 | 7295.3 | 7452.7 | 2464.2 | 3448.3 | 9759.5 | 10901.0 |
| Sep qtr | 6692.9 | 6801.7 | 1157.9 | 1191.9 | 7850.8 | 7993.6 | 2906.9 | 3914.0 | 10757.7 | 11907.6 |
| Dec qtr | 6947.3 | 7073.5 | 1192.5 | 1232.7 | 8139.9 | 8306.2 | 2955.5 | 3908.9 | 11095.3 | 12215.2 |
| 2003 |  |  |  |  |  |  |  |  |  |  |
| Mar qtr | 6491.6 | 6590.2 | 1087.3 | 1134.2 | 7578.9 | 7724.5 | 2770.3 | 3573.9 | 10349.2 | 11298.3 |
| Jun qtr | 6865.0 | 6986.9 | 1149.9 | 1211.6 | 8014.9 | 8198.5 | 2990.7 | 3825.4 | 11005.7 | 12023.9 |
| SEASONALLY ADJUSTED (\$m) |  |  |  |  |  |  |  |  |  |  |
| 2002 |  |  |  |  |  |  |  |  |  |  |
| Mar qtr | 5632.6 | 5754.9 | 980.9 | 1023.0 | 6613.5 | 6777.9 | 2492.2 | 3375.0 | 9105.7 | 10152.8 |
| Jun qtr | 6172.6 | 6281.3 | 1086.9 | 1127.8 | 7259.4 | 7409.1 | 2492.5 | 3438.7 | 9751.9 | 10847.9 |
| Sep qtr | 6458.8 | 6562.8 | 1123.2 | 1157.6 | 7582.1 | 7720.5 | 2784.7 | 3773.0 | 10366.7 | 11493.5 |
| Dec qtr | 6803.6 | 6918.2 | 1142.3 | 1191.4 | 7945.9 | 8109.6 | 2802.0 | 3736.9 | 10748.0 | 11846.5 |
| 2003 |  |  |  |  |  |  |  |  |  |  |
| Mar qtr | 6932.0 | 7043.7 | 1168.7 | 1219.1 | 8100.7 | 8262.8 | 3044.8 | 3916.7 | 11145.5 | 12179.4 |
| Jun qtr | 6824.3 | 6949.9 | 1144.6 | 1193.3 | 7968.9 | 8143.3 | 3031.9 | 3836.5 | 11000.9 | 11979.8 |
| 2002 TREND ESTIMATES (\$m) |  |  |  |  |  |  |  |  |  |  |
| 2002 (\$m) |  |  |  |  |  |  |  |  |  |  |
| Mar qtr | 5701.1 | 5819.9 | 1016.1 | 1057.2 | 6717.2 | 6877.1 | 2454.9 | 3370.9 | 9172.1 | 10248.0 |
| Jun qtr | 6119.2 | 6231.7 | 1068.3 | 1107.5 | 7187.5 | 7339.2 | 2572.7 | 3515.7 | 9760.2 | 10854.8 |
| Sep qtr | 6502.4 | 6609.9 | 1119.1 | 1159.8 | 7621.5 | 7769.7 | 2712.0 | 3674.5 | 10333.5 | 11444.2 |
| Dec qtr | 6742.5 | 6852.8 | 1146.8 | 1191.7 | 7889.0 | 8044.2 | 2858.4 | 3792.1 | 10746.9 | 11835.9 |
| 2003 |  |  |  |  |  |  |  |  |  |  |
| Mar qtr | 6869.2 | 6985.3 | 1155.1 | 1204.1 | 8024.2 | 8189.3 | 2979.4 | 3854.7 | 11003.4 | 12043.8 |
| Jun qtr | 6936.5 | 7059.3 | 1158.1 | 1209.9 | 8095.3 | 8270.2 | 3063.1 | 3876.4 | 11162.8 | 12146.4 |

(a) From the September quarter 2000, data is inclusive of non-deductible GST payable on residential buildings. See paragraphs 10 and 11 of the Explanatory Notes.

VALUE OF BUILDING WORK DONE, Current prices: All series—Percentage change

|  | NEW <br> RESIDE | IAL(a) | ALTERATIONS AND ADDITIONS TO RESIDENTIAL BUILDING(a)..... |  | TOTAL RESID | $\operatorname{IAL}(a)$ | NON- <br> RESIDENTIAL |  | TOTAL BUILDING(a).. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Period | Private | Total | Private | Total | Private | Total | Private | Total | Private | Total |
| ORIGINAL (\% change from preceding period) |  |  |  |  |  |  |  |  |  |  |
| 2000-01 | -18.0 | -17.8 | -13.9 | -12.8 | -17.4 | -17.0 | -18.8 | -15.3 | -17.8 | -16.4 |
| 2001-02 | 25.6 | 25.2 | 22.3 | 22.3 | 25.1 | 24.7 | 7.2 | 6.1 | 19.7 | 17.8 |
| 2002-03 | 23.6 | 23.1 | 15.2 | 14.9 | 22.3 | 21.8 | 21.8 | 15.3 | 22.2 | 19.6 |
| 2002 |  |  |  |  |  |  |  |  |  |  |
| Mar qtr | -2.3 | -2.8 | -14.6 | -13.8 | -4.3 | -4.6 | -6.6 | -8.4 | -5.0 | -5.9 |
| Jun qtr | 17.6 | 17.2 | 21.5 | 22.0 | 18.1 | 17.9 | 7.2 | 10.8 | 15.2 | 15.6 |
| Sep qtr | 7.9 | 7.8 | 6.2 | 4.4 | 7.6 | 7.3 | 18.0 | 13.5 | 10.2 | 9.2 |
| Dec qtr | 3.8 | 4.0 | 3.0 | 3.4 | 3.7 | 3.9 | 1.7 | -0.1 | 3.1 | 2.6 |
| 2003 |  |  |  |  |  |  |  |  |  |  |
| Mar qtr | -6.6 | -6.8 | -8.8 | -8.0 | -6.9 | -7.0 | -6.3 | -8.6 | -6.7 | -7.5 |
| Jun qtr | 5.8 | 6.0 | 5.8 | 6.8 | 5.8 | 6.1 | 8.0 | 7.0 | 6.3 | 6.4 |

SEASONALLY ADJUSTED (\% change from preceding quarter)

## 2002

| Mar qtr | 6.4 | 6.2 | -0.8 | -0.8 | 5.3 | 5.1 | 5.2 | 2.9 | 5.3 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| Jun qtr | 9.6 | 9.1 | 10.8 | 10.2 | 9.8 | 9.3 | 0.0 | 1.9 | 7.1 |
| Sep qtr | 4.6 | 4.5 | 3.3 | 2.6 | 4.4 | 4.2 | 11.7 | 9.7 | 6.8 |
| Dec qtr | 5.3 | 5.4 | 1.7 | 2.9 | 4.8 | 5.0 | 0.6 | -1.0 | 3.7 |
| $\mathbf{0 3}$ |  |  |  |  |  |  |  |  |  |
| Mar qtr | 1.9 | 1.8 | 2.3 | 2.3 | 1.9 | 1.9 | 8.1 |  |  |
| Jun qtr | -1.6 | -1.3 | -2.1 | -2.1 | -1.6 | -1.4 | -0.4 | -2.0 | 4.8 |


| 2002 |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mar qtr | 8.9 | 8.7 | 4.7 | 4.3 | 8.2 | 8.0 | 4.7 | 3.8 | 7.2 | 6.6 |
| Jun qtr | 7.3 | 7.1 | 5.1 | 4.8 | 7.0 | 6.7 | 4.8 | 4.3 | 6.4 | 5.9 |
| Sep qtr | 6.3 | 6.1 | 4.8 | 4.7 | 6.0 | 5.9 | 5.4 | 4.5 | 5.9 | 5.4 |
| Dec qtr | 3.7 | 3.7 | 2.5 | 2.7 | 3.5 | 3.5 | 5.4 | 3.2 | 4.0 | 3.4 |
| 2003 |  |  |  |  |  |  |  |  |  |  |
| Mar qtr | 1.9 | 1.9 | 0.7 | 1.0 | 1.7 | 1.8 | 4.2 | 1.7 | 2.4 | 1.8 |
| Jun qtr | 1.0 | 1.1 | 0.3 | 0.5 | 0.9 | 1.0 | 2.8 | 0.6 | 1.4 | 0.9 |

(a) From the September quarter 2000, data is inclusive of non-deductible GST payable on
residential buildings. See paragraphs 10 and 11 of the Explanatory Notes.

| Period | NSW | Vic. | Qld | SA | WA | Tas. | NT | ACT | Aust. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| BUILDING WORK DONE(a) (\$m) |  |  |  |  |  |  |  |  |  |
| 2000-01 | 11222.2 | 10210.0 | 5962.2 | 1630.9 | 3395.8 | 340.6 | 313.8 | 578.4 | 33653.8 |
| 2001-02 | 12851.7 | 12130.1 | 7463.6 | 2037.4 | 3698.1 | 430.9 | 361.5 | 683.6 | 39656.9 |
| 2002-03 | 15645.0 | 14252.0 | 8849.2 | 2483.2 | 4404.4 | 508.5 | 366.5 | 936.4 | 47445.0 |
| 2002 |  |  |  |  |  |  |  |  |  |
| Mar qtr | 3093.1 | 2806.3 | 1833.2 | 500.4 | 869.0 | 93.9 | 93.3 | 144.3 | 9433.5 |
| Jun qtr | 3536.6 | 3429.3 | 2059.2 | 558.7 | 915.7 | 133.6 | 82.0 | 185.9 | 10901.0 |
| Sep qtr | 3787.5 | 3765.8 | 2248.7 | 609.6 | 1081.2 | 127.0 | 92.6 | 195.2 | 11907.6 |
| Dec qtr | 4145.4 | 3561.2 | 2302.1 | 609.9 | 1120.5 | 133.4 | 109.1 | 233.5 | 12215.2 |
| 2003 |  |  |  |  |  |  |  |  |  |
| Mar qtr | 3754.9 | 3365.1 | 2066.5 | 592.2 | 1078.6 | 117.7 | 75.6 | 247.8 | 11298.3 |
| Jun qtr | 3957.1 | 3560.0 | 2231.9 | 671.6 | 1124.0 | 130.3 | 89.2 | 259.9 | 12023.9 |
| ENGINEERING WORK DONE (\$m) |  |  |  |  |  |  |  |  |  |
| 1999-00 | 6156.5 | 3216.4 | 4744.4 | 1129.5 | 2256.6 | 264.2 | 168.3 | 207.9 | 18143.7 |
| 2000-01 | 5597.6 | 3389.0 | 4627.5 | 1417.4 | 3119.3 | 453.8 | 1226.7 | 199.9 | 20031.3 |
| 2001-02 | 6522.9 | 4112.8 | 5667.0 | 1763.7 | 4723.8 | 359.8 | 1226.8 | 215.0 | 24591.8 |
| 2002 |  |  |  |  |  |  |  |  |  |
| Mar qtr | 1163.4 | 852.5 | 1027.7 | 369.8 | 701.2 | 157.3 | 800.7 | 47.5 | 5120.2 |
| Jun qtr | 1566.1 | 976.2 | 1305.3 | 385.5 | 907.3 | 188.5 | 283.1 | 57.4 | 5669.6 |
| Sep qtr | 1383.4 | 977.5 | 1347.9 | 316.5 | 1015.3 | 109.9 | 389.1 | 49.3 | 5589.0 |
| Dec qtr | 1649.1 | 1009.4 | 1445.5 | 495.0 | 1192.3 | 80.2 | 375.9 | 51.1 | 6298.5 |
| 2003 |  |  |  |  |  |  |  |  |  |
| Mar qtr | 1583.6 | 1012.0 | 1408.4 | 451.8 | 1108.3 | 80.6 | 233.9 | 51.6 | 5930.3 |
| Jun qtr | 1906.8 | 1113.8 | 1465.2 | 500.2 | 1408.0 | 89.1 | 227.8 | 63.0 | 6774.0 |
| CONSTRUCTION WORK DONE(a) (\$m) |  |  |  |  |  |  |  |  |  |
| 1999-00 | 17378.6 | 13426.4 | 10706.6 | 2760.3 | 5652.3 | 604.8 | 482.1 | 786.3 | 51797.5 |
| 2000-01 | 18449.3 | 15519.2 | 12091.2 | 3454.8 | 6817.4 | 884.7 | 1588.2 | 883.5 | 59688.2 |
| 2001-02 | 22167.9 | 18364.7 | 14516.2 | 4246.9 | 9128.2 | 868.3 | 1593.2 | 1151.4 | 72036.8 |
| 2002 |  |  |  |  |  |  |  |  |  |
| Mar qtr | 4256.5 | 3658.8 | 2860.9 | 870.2 | 1570.2 | 251.2 | 894.0 | 191.9 | 14553.7 |
| Jun qtr | 5102.7 | 4405.5 | 3364.6 | 944.2 | 1823.1 | 322.1 | 365.1 | 243.3 | 16570.5 |
| Sep qtr | 5170.8 | 4743.2 | 3596.7 | 926.1 | 2096.5 | 237.0 | 481.7 | 244.5 | 17496.5 |
| Dec qtr | 5794.6 | 4570.6 | 3747.5 | 1104.9 | 2312.8 | 213.6 | 484.9 | 284.6 | 18513.6 |
| 2003 |  |  |  |  |  |  |  |  |  |
| Mar qtr | 5338.5 | 4377.1 | 3474.8 | 1044.1 | 2186.9 | 198.3 | 309.5 | 299.4 | 17228.7 |
| Jun qtr | 5864.0 | 4673.8 | 3697.1 | 1171.8 | 2532.0 | 219.5 | 317.0 | 322.8 | 18798.0 |

(a) From the September quarter 2000, data is inclusive of non-deductible GST payable on residential buildings. See paragraphs 10 and 11 of the Explanatory Notes

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Period NSW Vic. Qld SA WA Tas. NT ACT Aust.
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BUILDING WORK DONE(a) (\% change from preceding period)

| 2000-01 | -27.5 | -2.9 | -14.3 | -10.6 | -15.1 | -14.6 | -20.3 | -12.4 | -16.4 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 2001-02 | 14.5 | 18.8 | 25.2 | 24.9 | 8.9 | 26.5 | 15.2 | 18.2 | 17.8 |
| 2002-03 | 21.7 | 17.5 | 18.6 | 21.9 | 19.1 | 18.0 | 1.4 | 37.0 | 19.6 |
|  |  |  |  |  |  |  |  |  |  |
| $\mathbf{2 0 0 2}$ | -7.2 | -5.4 | 2.3 | -5.2 | -12.5 | -17.0 | -8.2 | -25.8 | -5.9 |
| Mar qtr | 14.3 | 22.2 | 12.3 | 11.7 | 5.4 | 42.2 | -12.1 | 28.8 | 15.6 |
| Jun qtr | 7.1 | 9.8 | 9.2 | 9.1 | 18.1 | -4.9 | 12.9 | 5.0 | 9.2 |
| Sep qtr | 9.5 | -5.4 | 2.4 | 0.1 | 3.6 | 5.1 | 17.8 | 19.6 | 2.6 |
| Dec qtr |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| 2003 | -9.4 | -5.5 | -10.2 | -2.9 | -3.7 | -11.8 | -30.7 | 6.1 | -7.5 |
| Mar qtr | 5.4 | 5.8 | 8.0 | 13.4 | 4.2 | 10.8 | 18.0 | 4.9 | 6.4 |

ENGINEERING WORK DONE (\% change from preceding period)

| 1999-00 | -1.2 | -6.8 | -9.1 | -20.7 | -18.7 | 4.0 | -39.2 | -23.8 | -8.9 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 2000-01 | -9.1 | 5.4 | -2.5 | 25.5 | 38.2 | 71.7 | 629.1 | -3.9 | 10.4 |
| 2001-02 | 16.5 | 21.4 | 22.5 | 24.4 | 51.4 | -20.7 | - | 7.5 | 22.8 |
|  |  |  |  |  |  |  |  |  |  |
| $\mathbf{2 0 0 2}$ | -23.8 | 0.4 | -10.3 | 3.9 | -1.3 | 139.9 | 992.2 | -13.6 | 7.1 |
| Mar qtr | 34.6 | 14.5 | 27.0 | 4.3 | 29.4 | 19.8 | -64.6 | 20.8 | 10.7 |
| Jun qtr | -11.7 | 0.1 | 3.3 | -17.9 | 11.9 | -41.7 | 37.5 | -14.2 | -1.4 |
| Sep qtr | 19.2 | 3.3 | 7.2 | 56.4 | 17.4 | -27.1 | -3.4 | 3.6 | 12.7 |
| Dec qtr |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |
| $\mathbf{2 0 0 3}$ | -4.0 | 0.3 | -2.6 | -8.7 | -7.0 | 0.6 | -37.8 | 1.1 | -5.8 |
| Mar qtr | 20.4 | 10.1 | 4.0 | 10.7 | 27.0 | 10.5 | -2.6 | 21.9 | 14.2 |

CONSTRUCTION WORK DONE(a) (\% change from preceding period)

| 1999-00 | -20.0 | -3.9 | -12.1 | -15.1 | -16.6 | -7.4 | -28.1 | -15.7 | -13.9 |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| 2000-01 | 6.2 | 15.6 | 12.9 | 25.2 | 20.6 | 46.3 | 229.5 | 12.4 | 15.2 |
| 2001-02 | 20.2 | 18.3 | 20.1 | 22.9 | 33.9 | -1.8 | 0.3 | 30.3 | 20.7 |
|  |  |  |  |  |  |  |  |  |  |
| $\mathbf{2 0 0 2}$ | -12.4 | -4.1 | -2.6 | -1.5 | -7.8 | 40.6 | 411.0 | -23.1 | -1.7 |
| Mar qtr | 19.9 | 20.4 | 17.6 | 8.5 | 16.1 | 28.2 | -59.2 | 26.8 | 13.9 |
| Jun qtr | 1.3 | 7.7 | 6.9 | -1.9 | 15.0 | -26.4 | 32.0 | 0.5 | 5.6 |
| Sep qtr | 12.1 | -3.6 | 4.2 | 19.3 | 10.3 | -9.9 | 0.7 | 16.4 | 5.8 |
| Dec qtr |  |  |  |  |  |  |  |  |  |
| 2003 |  |  |  |  |  |  |  |  |  |
| Mar qtr | -7.9 | -4.2 | -7.3 | -5.5 | -5.4 | -7.2 | -36.2 | 5.2 | -6.9 |
| Jun qtr | 9.8 | 6.8 | 6.4 | 12.2 | 15.8 | 10.7 | 2.4 | 7.8 | 9.1 |

[^0]
## INTRODUCTION

1 This publication contains preliminary estimates of building and engineering construction work done during the current quarter and revised estimates for the previous two quarters. The estimates of building work done and engineering work done are from the quarterly Building Activity Survey and the quarterly Engineering Construction Survey respectively. Estimates of work done are based upon a response from each survey of approximately $80 \%$ of the value of work done during the current quarter. More comprehensive and updated results will be available shortly in Building Activity, Australia (cat. no. 8752.0) and Engineering Construction Activity, Australia (cat. no. 8762.0).

## SCOPE AND COVERAGE

2 The scope of the Building Activity Survey is building activity which includes construction of new building, and alterations and additions to existing buildings. Value of building activity includes the costs of materials fixed in place, labour, and architects fees. It excludes the value of land and landscaping and non-building components such as fencing, paving, roadworks, tennis courts, outdoor pools and car parks.

3 The building statistics were compiled on the basis of returns collected from builders and other individuals and organisations engaged in building activity. From the March quarter 2002, the quarterly survey consists of a sample survey of private sector building jobs involving residential building jobs valued at $\$ 10,000$ or more and non-residential building jobs valued at $\$ 50,000$ or more and a complete enumeration of all such public sector building jobs.
4 The scope of the Engineering Construction Survey is the value of all engineering construction work undertaken in Australia. The cost of land and the value of building construction is excluded from the scope of the Engineering Construction Survey. Where projects include elements of both building and engineering construction every effort is taken to exclude the building component from the engineering construction statistics. Repair and maintenance activity is also excluded as are the value of any transfers of existing assets, the value of installed machinery and equipment not integral to the structure and the expenses for relocation of utility services. A contract for the installation of machinery and equipment which is an integral part of a construction project is included.

The statistical unit
5 In the Engineering Construction Survey, the statistical unit used to represent businesses, and for which statistics are reported, is the Australian Business Number (ABN) unit, in most cases. The ABN unit is the business unit which has registered for an ABN, and thus appears on the Australian Taxation Office (ATO) administered Australian Business Register. This unit is suitable for ABS statistical needs when the business is simple in structure. For more significant and diverse businesses where the $A B N$ unit is not suitable for ABS statistical needs, the statistical unit used is the Type of Activity Unit (TAU). A TAU is comprised of one or more business entities, sub-entities or branches of a business entity within an enterprise group that can report production and employment data for similar economic activities. When a minimum set of data items is available, a TAU is created which covers all the operations within an industry subdivision-and the TAU is classified to the relevant subdivision of the Australian and New Zealand Standard Industrial Classification (ANZSIC). Where a business cannot supply adequate data for each industry, a TAU is formed which contains activity in more than one industry subdivision and the TAU is classified to the predominant ANZSIC subdivision.

6 Further details about the ABS economic statistical units used in the Engineering Construction Survey, and in other ABS economic surveys (both sample surveys and censuses), can be found in Chapter 2 of the Standard Economic Sector Classifications of Australia (SESCA) 2002 (cat. no. 1218.0).

## RELATIONSHIP WITH NATIONAL ACCOUNTS

7 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 and the value of total and new engineering construction activity are the major sources of 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 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.

8 Statistics on value of work (current prices) show residential building work done on a GST inclusive basis and non-residential work and engineering construction work done on a GST exclusive basis. This approach is consistent with that adopted in the Australian National Accounts which is based on the conceptual framework described in the 1993 edition of the international statistical standard System of National Accounts (SNA93).

9 SNA93 requires value added taxes (VAT), such as the GST, to be recorded on a net basis where:
(a) both outputs of goods and services and imports are valued excluding invoiced VAT
(b) purchases of goods and services are recorded including non-deductible VAT.

Under the net system, VAT is recorded as being payable by purchasers, not sellers, and then only by those purchasers who are not able to deduct it. Almost all VAT is therefore recorded in the SNA93 as being paid on final uses-mainly on household consumption. Small amounts of VAT, may however, be paid by businesses in respect of certain kinds of purchases on which VAT may not be deductible.

10 The ABS records value of work done inclusive of GST in respect of residential construction and exclusive of GST in respect of non-residential construction and engineering construction. Purchasers of residential structures are unable to deduct GST from the purchase price. For non-residential structures and engineering construction, the reverse is true in most circumstances.

11 Total construction work is derived by adding total building work and total engineering construction work. To derive total building activity it is appropriate to add the residential and non-residential components. Valuation of the components of the total is consistent, since, for both components, the value of work done is recorded inclusive of non-deductible GST paid by the purchaser. As such, total building activity and total construction includes the non-deductible GST payable on residential building.
12 As estimates for engineering work are provided on a GST exclusive basis, and the majority of construction materials used were exempt from Wholesale Sales Tax, the introduction of the GST had little direct effect on the estimates of engineering construction.

## DEFINITIONS

13 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.
14 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.

15 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 bouse 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.).
16 A non-residential building is primarily intended for purposes other than long term residential purposes.

17 Alterations and additions refer to building activity carried out on existing building. It includes adding to or diminishing floor area, altering the structural design of a building and affixing rigid components which are integral to the functioning of the building.
18 The value of engineering work done for the private sector consists of the value of work done on prime contracts, plus speculative contracts, plus work done on own account.

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

20 The ownership of a building is classified as either private sector or public sector, according to the sector of the intended owner of the completed building or project as evident at the time of approval.

21 Engineering projects are classified as either private sector or public sector according to the expected ownership of the project at the time of completion.

22 The estimates of engineering activity in this publication are based on a sample survey as are the estimates of private sector building activity. A complete enumeration of public sector building activity is done. Because data are not collected for all engineering jobs nor for all 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.

23 Relative standard errors for the value of work done in the June quarter 2003 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.
$\qquad$
Australia \%

| New private residential building | 0.9 |
| :---: | :---: |
| Total private residential building | 0.8 |
| Private non-residential building | 1.0 |
| Total private building | 0.7 |
| Total residential building | 0.8 |
| Total non-residential building | 0.8 |
| Total building | 0.6 |
| Engineering for the private sector | 3.5 |
| Total engineering | 2.0 |

$\qquad$ Total building Total engineering
States \% \%

|  |  |  |
| :--- | ---: | ---: |
| NSW | 1.0 | 2.9 |
| Vic. | 1.3 | 4.3 |
| Qld | 1.6 | 6.3 |
| SA | 1.8 | 4.3 |
| WA | 1.3 | 4.7 |
| Tas. | 1.6 | 6.6 |
| NT | - | 1.5 |
| ACT | 1.1 | 16.5 |

24 In the seasonally adjusted series, account has been taken of normal seasonal factors, 'trading day' effects arising from the varying numbers of working days in a quarter and the effect of movement in the date of Easter which may, in successive years, affect figures for different quarters.
25 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.

26 From the June 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 seasonal adjustment methodology replaces the forward factor methodology previously used to adjust both the Building Activity and the Engineering Construction series, when seasonal factors were only revised following an annual re-analysis. 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. In most instances, the only noticeable revisions will be to the previous quarter and the same quarter of a year earlier.
27 A more detailed review of concurrent seasonal factors will be conducted annually, generally prior to the release of data for the December quarter.

28 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.

29 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.

30 While the smoothing technique described in paragraphs 28 and 29 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. 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 0262526540 or email [timeseries@abs.gov.au](mailto:timeseries@abs.gov.au).

## CHAIN VOLUME MEASURES

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

32 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 direct impact of the GST is a price change, and hence is removed from chain volume estimates. 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, and the new engineering construction component, of the national accounts aggregate 'Gross fixed capital formation'.
33 The chain volume measures of work done appearing in this publication are annually reweighted chain Laspeyres indexes referenced to current price values in a chosen reference year (currently 2001-2002). The reference year is updated annually in the June quarter publication. Each year's data in the value of 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. 2001-2002). 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).

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

## ACKNOWLEDGMENT

35 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 PRODUCTS

36 Users may also wish to refer to the following publications which are available from ABS Bookshops:

Building Activity, Australia: Dwelling Unit Commencements, Preliminary, cat. no. 8750.0, quarterly
Building Activity, Australia, cat. no. 8752.0, quarterly
Building Approvals, Australia, cat. no. 8731.0, monthly
Private Sector Construction Industry, Australia, 1996-97, cat. no. 8772.0
Engineering Construction Activity, Australia, cat. no. 8762.0, quarterly
House Price Indexes: Eight Capital Cities, cat. no. 6416.0, quarterly
Housing Finance for Owner Occupation, Australia, cat. no. 5609.0, monthly
Producer Price Indexes, Australia, cat. no. 6427.0, quarterly.
37 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](http:%5C%5Cwww.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.

## EXPLANATORY NOTES continued

ABS DATA AVAILABLE ON REQUEST
38 As well as the statistics included in this and related publications, the ABS may have other relevant data available on request. Inquiries should be made to the National Information and Referral Service on 1300135070.

SYMBOLS AND OTHER USAGES

| ABS | Australian Bureau of Statistics |
| :--- | :--- |
| ABN | Australian Business Number |
| ATO | Australian Taxation Office |
| GST | Goods and Services Tax |
| qtr | quarter |
| TAU | Type of activity unit |
| VAT | Value added tax |
| n.a. | not available |
| . | not applicable |
| - | nil or rounded to zero |

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

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[^1]
[^0]:    (a) From the September quarter 2000, data is inclusive of non-deductible GST payable on residential buildings. See paragraphs 10 and 11 of the Explanatory Notes.

[^1]:    © Commonwealth of Australia 2003

