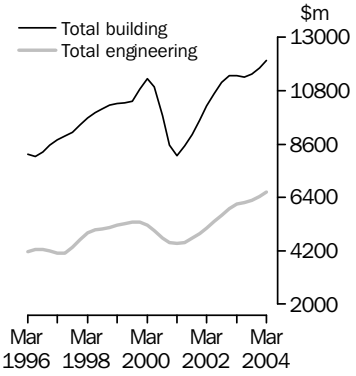
Australian Bureau of Statistics

CONSTRUCTION WORK DONE

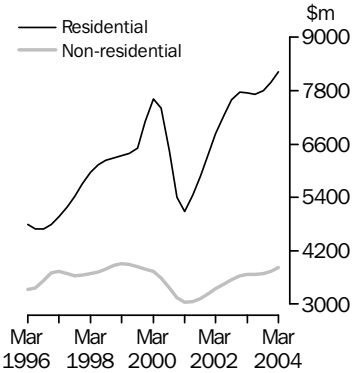
AUSTRALIA
PRELIMINARY

EMBARGO: 11.30AM (CANBERRA TIME) WED 26 MAY 2004

Value of construction work done
Volume terms
Trend estimates



Value of building work done
Volume terms
Trend estimates



KEY FIGURES

	Mar qtr 04 $m	Dec qtr 03 to Mar qtr 04 % change	Mar qtr 03 to Mar qtr 04 % change
TREND ESTIMATES (a)			
Value of work done			
Building	12 044.6	2.6	5.5
Residential	8 218.3	2.8	6.2
Non-residential	3 817.8	1.9	4.0
Engineering	6 635.1	2.8	8.1
Total construction	**18 717.3**	**2.9**	**6.6**
SEASONALLY ADJUSTED ESTIMATES (a)			
Value of work done			
Building	11 940.6	–0.5	2.7
Residential	8 146.5	0.1	3.1
Non-residential	3 794.1	–1.9	1.8
Engineering	6 736.0	3.8	9.8
Total construction	**18 676.6**	**1.0**	**5.1**

(a) Reference year for Chain Volume Measures is 2001-2002.

KEY POINTS

VALUE OF CONSTRUCTION WORK DONE, VOLUME TERMS

TREND ESTIMATES

- The trend estimate of building work done rose 2.6% in the March quarter 2004. The latest quarterly increase was due to continued growth in both residential building (up 2.8%) and non-residential building (up 1.9%).
- Engineering work done rose by 2.8% in the latest quarter, the twelfth successive quarterly increase. Total construction rose by 2.9%.

SEASONALLY ADJUSTED ESTIMATES

- The seasonally adjusted estimate of building work done fell by 0.5% in the March quarter to $11,940.6m, still the third highest level on record. Residential building rose marginally to $8,146.5m, with new residential work up 0.8% to $6,910.7m. Both series recorded their second highest levels on record. Non-residential building fell 1.9% to $3,794.1m, down from the high level recorded in the previous quarter.
- Engineering work done rose 3.8%, to a record $6,736.0m. Work done for the private sector rose by 3.1% to a record $3,959.2m while work for the public sector rose 4.8%, to $2,776.8m.
- Total construction work rose 1.0% to a record $18,676.6m.

INQUIRIES

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

NOTES

FORTHCOMING ISSUES

ISSUE (Quarter)	*RELEASE DATE*
June 2004	25 August 2004
September 2004	24 November 2004

ABOUT 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) on 20 July 2004 and in *Engineering Construction Activity, Australia* (cat. no. 8762.0) on 19 July 2004.

CHANGES IN THIS ISSUE

Two new tables (9 and 10) showing state and territory Construction Work Done in Chain Volume Measures have been added. The previous tables 9 and 10 have been re-numbered 11 and 12.

The state and territory graphs on page 4 are trend estimates of chain volume measures - the data is available in Table 9c of AusStats.

The Explanatory Notes have been revised by the inclusion of a separate Glossary of terms.

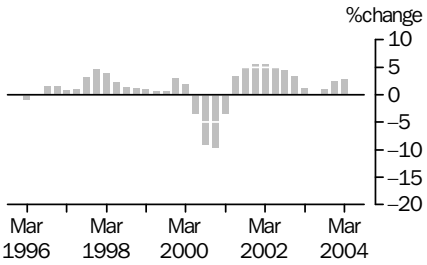
ABBREVIATIONS

ABN	Australian Business Number
ABS	Australian Bureau of Statistics
ANZSIC	Australian and New Zealand Standard Industrial Classification
ATO	Australian Taxation Office
GST	Goods and Services Tax
qtr	quarter
TAU	type of activity unit
VAT	value added tax

Dennis Trewin
Australian Statistician

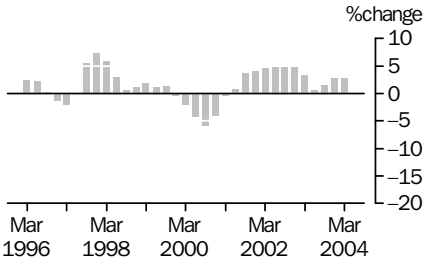
TREND PERCENTAGE CHANGE

TOTAL CONSTRUCTION



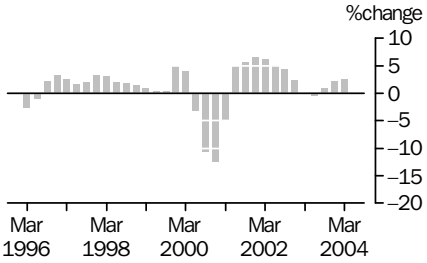
The total value of construction work done has increased each quarter for the last three years, with the exception of the June quarter 2003.

ENGINEERING



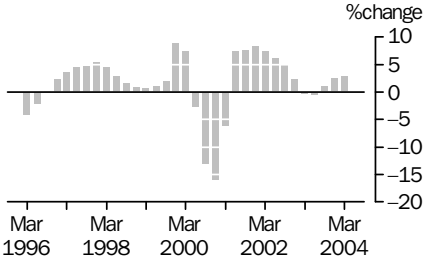
Engineering construction work done has increased for twelve successive quarters. While growth slowed markedly during the June quarter 2003, it has increased over the last three quarters.

BUILDING



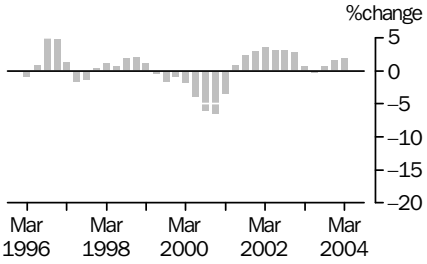
Total building work done has increased for the last three quarters, following a small decline in the June quarter 2003.

Residential



Residential building work has increased for the last three quarters, following small declines in the first half of 2003.

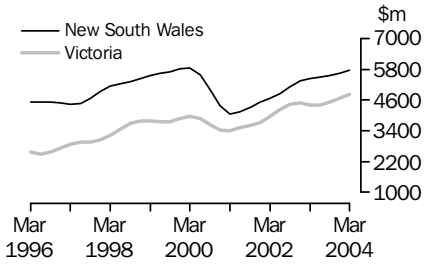
Non-residential



Non-residential building work has increased for the last three quarters, following a small decline in the June quarter 2003.

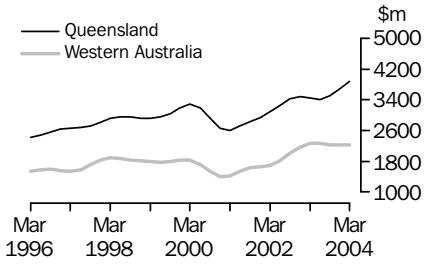
CHAIN VOLUME MEASURES—TREND ESTIMATES

NEW SOUTH WALES
VICTORIA



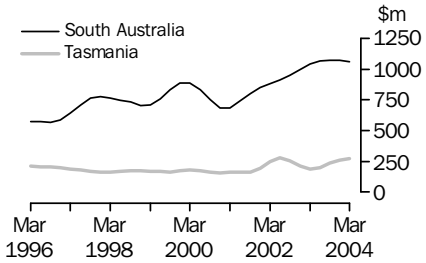
Since early 2001, construction work done has risen strongly in New South Wales and Victoria. Growth in the engineering sector has been stronger than in building in both states for the last six quarters.

QUEENSLAND
WESTERN AUSTRALIA



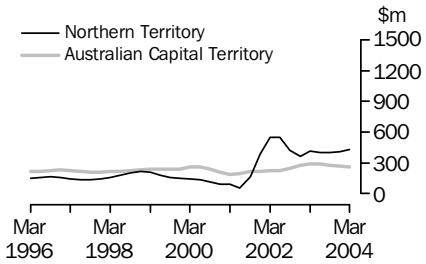
Construction work done has risen strongly in Queensland since early 2001, with growth in the last four quarters dominated by building work. In Western Australia, while both sectors were strong in 2002-03, total construction work has been flat for the last four quarters.

SOUTH AUSTRALIA
TASMANIA



Following strong growth since early 2001, construction work done has fallen in South Australia over the last two quarters, due to declines in the engineering sector. In Tasmania, growth has been strong for the last four quarters in both sectors.

NORTHERN TERRITORY
AUSTRALIAN CAPITAL TERRITORY



Construction work done in the Northern Territory has risen in the last two quarters with growth in both sectors. In the Australian Capital Territory, the fall over the last four quarters has been due to declines in both sectors.

LIST OF TABLES

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TABLES

1 CONSTRUCTION WORK DONE, Chain volume measures(a)

	BUILDING WORK DONE			ENGINEERING WORK DONE			CONSTRUCTION WORK DONE		
	Private	*Public*	*Total*	*Private*	*Public*	*Total*	*Private*	*Public*	*Total*
Period	$m	$m	$m	$m	$m	$m	$m	$m	$m
				ORIGINAL					
2000–01	29 927.9	4 109.3	34 041.0	6 813.2	11 657.5	18 474.2	36 744.2	15 763.8	52 511.3
2001–02	35 265.7	4 277.2	39 542.9	8 899.0	11 133.1	20 032.1	44 164.7	15 410.3	59 575.0
2002–03	41 237.0	4 101.8	45 338.8	12 877.7	11 158.3	24 036.0	54 114.7	15 260.1	69 374.7
2002									
Dec Qtr	10 764.4	1 087.3	11 851.7	3 238.8	2 911.2	6 150.0	14 003.2	3 998.5	18 001.6
2003									
Mar Qtr	9 823.0	909.2	10 732.2	3 197.5	2 561.3	5 758.8	13 020.5	3 470.4	16 491.0
Jun Qtr	10 164.1	978.8	11 142.9	3 486.8	3 149.1	6 635.9	13 650.9	4 127.9	17 778.7
Sep Qtr	10 834.6	990.7	11 825.3	3 618.0	2 367.6	5 985.7	14 452.6	3 358.4	17 811.0
Dec Qtr	11 473.3	1 023.6	12 496.9	3 970.5	2 675.2	6 645.7	15 443.7	3 698.9	19 142.6
2004									
Mar Qtr	10 332.9	885.2	11 218.1	3 715.1	2 620.1	6 335.2	14 048.0	3 505.3	17 553.3
				SEASONALLY ADJUSTED					
2002									
Dec Qtr	10 317.3	1 068.7	11 385.8	3 137.3	2 884.6	6 021.9	13 454.7	3 953.3	17 407.7
2003									
Mar Qtr	10 602.0	1 026.4	11 628.7	3 428.9	2 705.2	6 134.1	14 031.0	3 731.6	17 762.8
Jun Qtr	10 262.5	947.2	11 210.3	3 478.4	2 754.2	6 232.7	13 740.9	3 701.4	17 443.0
Sep Qtr	10 359.3	923.6	11 281.9	3 495.7	2 620.3	6 116.0	13 855.0	3 543.9	17 397.9
Dec Qtr	11 016.0	988.9	12 003.5	3 841.2	2 650.3	6 491.5	14 857.2	3 639.2	18 495.0
2004									
Mar Qtr	10 961.4	980.5	11 940.6	3 959.2	2 776.8	6 736.0	14 920.6	3 757.3	18 676.6
				TREND					
2002									
Dec Qtr	10 352.8	1 055.9	11 408.6	3 113.6	2 817.0	5 930.5	13 466.5	3 872.9	17 339.3
2003									
Mar Qtr	10 403.0	1 010.9	11 414.2	3 357.7	2 780.0	6 137.7	13 760.7	3 790.9	17 551.9
Jun Qtr	10 409.3	964.6	11 373.9	3 479.9	2 697.1	6 177.0	13 889.1	3 661.7	17 550.9
Sep Qtr	10 536.5	949.4	11 485.9	3 603.3	2 664.2	6 270.9	14 138.7	3 613.9	17 753.4
Dec Qtr	10 778.9	962.8	11 740.6	3 769.8	2 681.4	6 452.3	14 548.2	3 644.2	18 191.2
2004									
Mar Qtr	11 060.6	981.4	12 044.6	3 946.1	2 712.3	6 635.1	15 017.9	3 694.2	18 717.3

(a) Chain volume measures, reference year 2001-02. See paragraphs 25-28 of the Explanatory Notes.

2 CONSTRUCTION WORK DONE, Chain volume measures(a)—Change from previous period

	BUILDING WORK DONE			ENGINEERING WORK DONE			CONSTRUCTION WORK DONE		
	Private	*Public*	*Total*	*Private*	*Public*	*Total*	*Private*	*Public*	*Total*
Period	%	%	%	%	%	%	%	%	%
				ORIGINAL					
2000–01	–25.1	–7.5	–23.3	–16.9	–8.6	–11.9	–23.7	–8.3	–19.5
2001–02	17.8	4.1	16.2	30.6	–4.5	8.4	20.2	–2.2	13.5
2002–03	16.9	–4.1	14.7	44.7	0.2	20.0	22.5	–1.0	16.4
2002									
Dec Qtr	2.7	–3.5	2.1	9.6	14.8	12.0	4.2	9.1	5.3
2003									
Mar Qtr	–8.7	–16.4	–9.4	–1.3	–12.0	–6.4	–7.0	–13.2	–8.4
Jun Qtr	3.5	7.7	3.8	9.0	23.0	15.2	4.8	18.9	7.8
Sep Qtr	6.6	1.2	6.1	3.8	–24.8	–9.8	5.9	–18.6	0.2
Dec Qtr	5.9	3.3	5.7	9.7	13.0	11.0	6.9	10.1	7.5
2004									
Mar Qtr	–9.9	–13.5	–10.2	–6.4	–2.1	–4.7	–9.0	–5.2	–8.3
				SEASONALLY ADJUSTED					
2002									
Dec Qtr	2.6	0.9	2.4	10.7	2.4	6.6	4.4	2.0	3.8
2003									
Mar Qtr	2.8	–4.0	2.1	9.3	–6.2	1.9	4.3	–5.6	2.0
Jun Qtr	–3.2	–7.7	–3.6	1.4	1.8	1.6	–2.1	–0.8	–1.8
Sep Qtr	0.9	–2.5	0.6	0.5	–4.9	–1.9	0.8	–4.3	–0.3
Dec Qtr	6.3	7.1	6.4	9.9	1.1	6.1	7.2	2.7	6.3
2004									
Mar Qtr	–0.5	–0.9	–0.5	3.1	4.8	3.8	0.4	3.2	1.0
				TREND					
2002									
Dec Qtr	2.8	–1.3	2.4	8.2	1.6	4.9	4.0	0.8	3.3
2003									
Mar Qtr	0.5	–4.3	—	7.8	–1.3	3.5	2.2	–2.1	1.2
Jun Qtr	0.1	–4.6	–0.4	3.6	–3.0	0.6	0.9	–3.4	—
Sep Qtr	1.2	–1.6	1.0	3.5	–1.2	1.5	1.8	–1.3	1.2
Dec Qtr	2.3	1.4	2.2	4.6	0.6	2.9	2.9	0.8	2.5
2004									
Mar Qtr	2.6	1.9	2.6	4.7	1.2	2.8	3.2	1.4	2.9

— nil or rounded to zero (including null cells)

(a) Chain volume measures, reference year 2001-02. See paragraphs 25-28 of the Explanatory Notes.

3 CONSTRUCTION WORK DONE, Current prices

	BUILDING WORK DONE(a)			ENGINEERING WORK DONE			CONSTRUCTION WORK DONE(a)		
	Private	*Public*	*Total*	*Private*	*Public*	*Total*	*Private*	*Public*	*Total*
Period	$m	$m	$m	$m	$m	$m	$m	$m	$m
				ORIGINAL					
2000–01	29 507.2	4 087.5	33 594.7	6 682.3	11 461.4	18 143.7	36 189.5	15 548.9	51 738.4
2001–02	35 265.7	4 277.2	39 542.9	8 899.0	11 132.3	20 031.3	44 164.7	15 409.5	59 574.2
2002–03	42 835.9	4 248.2	47 084.2	13 283.0	11 445.8	24 728.8	56 119.0	15 694.0	71 812.9
2002									
Dec Qtr	11 091.8	1 119.5	12 211.3	3 323.2	2 973.2	6 296.4	14 415.0	4 092.7	18 507.7
2003									
Mar Qtr	10 237.6	945.6	11 183.2	3 292.3	2 638.8	5 931.2	13 529.9	3 584.5	17 114.4
Jun Qtr	10 791.2	1 034.3	11 825.5	3 650.9	3 261.3	6 912.2	14 442.1	4 295.7	18 737.8
Sep Qtr	11 755.3	1 067.9	12 823.2	3 783.9	2 477.0	6 260.8	15 539.2	3 544.8	19 084.0
Dec Qtr	12 678.9	1 125.3	13 804.2	4 171.7	2 814.0	6 985.7	16 850.6	3 939.3	20 790.0
2004									
Mar Qtr	11 624.0	994.7	12 618.7	3 939.0	2 788.2	6 727.2	15 563.0	3 782.9	19 345.9
				SEASONALLY ADJUSTED					
2002									
Dec Qtr	10 641.4	1 100.8	11 742.2	3 230.3	2 945.6	6 175.9	13 871.7	4 046.4	17 918.0
2003									
Mar Qtr	11 047.0	1 064.3	12 111.3	3 538.8	2 785.2	6 324.0	14 585.8	3 849.5	18 435.2
Jun Qtr	10 886.6	996.2	11 882.7	3 648.3	2 852.8	6 501.1	14 534.8	3 849.0	18 383.8
Sep Qtr	11 298.5	1 011.0	12 309.5	3 680.7	2 742.4	6 423.0	14 979.1	3 753.4	18 732.5
Dec Qtr	12 238.6	1 104.0	13 342.6	4 062.9	2 789.0	6 851.9	16 301.5	3 893.0	20 194.5
2004									
Mar Qtr	12 394.7	1 118.8	13 513.5	4 226.1	2 955.1	7 181.2	16 620.8	4 074.0	20 694.7
				TREND					
2002									
Dec Qtr	10 676.5	1 086.3	11 762.8	3 252.2	2 877.2	6 129.4	13 928.7	3 963.5	17 892.2
2003									
Mar Qtr	10 853.5	1 048.8	11 902.2	3 480.1	2 859.8	6 340.0	14 333.6	3 908.6	18 242.2
Jun Qtr	11 065.4	1 020.5	12 085.9	3 635.0	2 796.0	6 431.0	14 700.4	3 816.5	18 516.9
Sep Qtr	11 460.4	1 033.7	12 494.1	3 794.3	2 785.9	6 580.2	15 254.7	3 819.6	19 074.3
Dec Qtr	11 975.4	1 075.9	13 051.2	3 995.6	2 826.7	6 822.2	15 971.0	3 902.6	19 873.4
2004									
Mar Qtr	12 530.4	1 124.3	13 658.2	4 202.2	2 883.2	7 085.4	16 732.6	4 007.5	20 743.6

(a) From the September quarter 2000, data is inclusive of non-deductible GST payable on residential buildings. See paragraphs 11 and 12 of the Explanatory Notes.

4 CONSTRUCTION WORK DONE, Current prices—Change from previous period

	BUILDING WORK DONE(a)			ENGINEERING WORK DONE			CONSTRUCTION WORK DONE(a)		
	Private	*Public*	*Total*	*Private*	*Public*	*Total*	*Private*	*Public*	*Total*
Period	%	%	%	%	%	%	%	%	%
				ORIGINAL					
2000–01	–17.9	–4.6	–16.5	–14.2	–5.4	–8.9	–17.3	–5.2	–14.0
2001–02	19.5	4.6	17.7	33.2	–2.9	10.4	22.0	–0.9	15.1
2002–03	21.5	–0.7	19.1	49.3	2.8	23.5	27.1	1.8	20.5
2002									
Dec Qtr	3.5	–2.5	2.9	10.2	15.6	12.7	5.0	10.0	6.0
2003									
Mar Qtr	–7.7	–15.5	–8.4	–0.9	–11.2	–5.8	–6.1	–12.4	–7.5
Jun Qtr	5.4	9.4	5.7	10.9	23.6	16.5	6.7	19.8	9.5
Sep Qtr	8.9	3.2	8.4	3.6	–24.1	–9.4	7.6	–17.5	1.8
Dec Qtr	7.9	5.4	7.7	10.3	13.6	11.6	8.4	11.1	8.9
2004									
Mar Qtr	–8.3	–11.6	–8.6	–5.6	–0.9	–3.7	–7.6	–4.0	–6.9
				SEASONALLY ADJUSTED					
2002									
Dec Qtr	3.3	1.3	3.1	11.1	3.1	7.1	5.0	2.6	4.5
2003									
Mar Qtr	3.8	–3.3	3.1	9.5	–5.4	2.4	5.1	–4.9	2.9
Jun Qtr	–1.5	–6.4	–1.9	3.1	2.4	2.8	–0.3	—	–0.3
Sep Qtr	3.8	1.5	3.6	0.9	–3.9	–1.2	3.1	–2.5	1.9
Dec Qtr	8.3	9.2	8.4	10.4	1.7	6.7	8.8	3.7	7.8
2004									
Mar Qtr	1.3	1.3	1.3	4.0	6.0	4.8	2.0	4.6	2.5
				TREND					
2002									
Dec Qtr	3.6	–1.1	3.1	12.2	2.2	7.3	5.5	1.3	4.5
2003									
Mar Qtr	1.7	–3.5	1.2	7.0	–0.6	3.4	2.9	–1.4	2.0
Jun Qtr	2.0	–2.7	1.5	4.4	–2.2	1.4	2.6	–2.4	1.5
Sep Qtr	3.6	1.3	3.4	4.4	–0.4	2.3	3.8	0.1	3.0
Dec Qtr	4.5	4.1	4.5	5.3	1.5	3.7	4.7	2.2	4.2
2004									
Mar Qtr	4.6	4.5	4.7	5.2	2.0	3.9	4.8	2.7	4.4

— nil or rounded to zero (including null cells)

(a) From the September quarter 2000, data is inclusive of non-deductible GST payable on residential buildings. See paragraphs 11 and 12 of the Explanatory Notes.

5 VALUE OF BUILDING WORK DONE, Chain volume measures(a)

	NEW RESIDENTIAL BUILDING		ALTERATIONS AND ADDITIONS		RESIDENTIAL BUILDING		NON-RESIDENTIAL BUILDING		TOTAL BUILDING(a)	
	Private	*Total*	*Private*	*Total*	*Private*	*Total*	*Private*	*Total*	*Private*	*Total*
Period	$m	$m	$m	$m	$m	$m	$m	$m	$m	$m
					ORIGINAL					
2000–01	17 661.5	18 087.0	3 323.7	3 466.0	20 984.6	21 552.4	8 933.4	12 474.8	29 927.9	34 041.0
2001–02	21 820.8	22 285.6	3 953.1	4 122.1	25 773.9	26 407.7	9 491.7	13 135.1	35 265.7	39 542.9
2002–03	25 719.6	26 149.6	4 412.5	4 588.6	30 132.1	30 738.2	11 104.8	14 600.6	41 237.0	45 338.8
2002										
Dec Qtr	6 737.0	6 858.7	1 152.4	1 191.3	7 889.4	8 050.0	2 875.0	3 801.7	10 764.4	11 851.7
2003										
Mar Qtr	6 188.3	6 282.8	1 033.6	1 078.2	7 221.9	7 360.9	2 601.2	3 371.3	9 823.0	10 732.2
Jun Qtr	6 261.8	6 369.4	1 102.5	1 161.9	7 364.3	7 531.3	2 799.7	3 611.5	10 164.1	11 142.9
Sep Qtr	6 602.4	6 732.0	1 224.7	1 265.6	7 827.1	7 997.6	3 007.5	3 827.7	10 834.6	11 825.3
Dec Qtr	6 950.1	7 074.8	1 321.5	1 352.5	8 271.6	8 427.3	3 201.7	4 069.6	11 473.3	12 496.9
2004										
Mar Qtr	6 425.5	6 532.1	1 109.0	1 143.7	7 534.5	7 675.8	2 798.4	3 542.3	10 332.9	11 218.1
					SEASONALLY ADJUSTED					
2002										
Dec Qtr	6 519.7	6 630.9	1 094.6	1 142.4	7 614.3	7 773.3	2 703.0	3 612.5	10 317.3	11 385.8
2003										
Mar Qtr	6 623.7	6 728.9	1 126.4	1 173.8	7 750.1	7 902.7	2 852.0	3 726.0	10 602.0	11 628.7
Jun Qtr	6 263.0	6 376.0	1 103.9	1 150.3	7 366.9	7 526.4	2 895.6	3 683.9	10 262.5	11 210.3
Sep Qtr	6 366.8	6 489.4	1 201.1	1 244.0	7 567.9	7 733.3	2 791.4	3 548.5	10 359.3	11 281.9
Dec Qtr	6 738.8	6 852.9	1 246.4	1 284.3	7 985.1	8 137.2	3 030.9	3 866.3	11 016.0	12 003.5
2004										
Mar Qtr	6 791.1	6 910.7	1 199.1	1 235.7	7 990.1	8 146.5	2 971.2	3 794.1	10 961.4	11 940.6
					TREND					
2002										
Dec Qtr	6 512.8	6 617.9	1 101.6	1 145.5	7 614.4	7 763.4	2 738.6	3 645.4	10 352.8	11 408.6
2003										
Mar Qtr	6 477.1	6 586.3	1 108.7	1 155.9	7 585.8	7 742.2	2 817.1	3 671.9	10 403.0	11 414.2
Jun Qtr	6 408.5	6 522.3	1 142.2	1 188.8	7 550.7	7 711.1	2 858.5	3 662.8	10 409.3	11 373.9
Sep Qtr	6 455.5	6 572.3	1 184.7	1 227.3	7 639.8	7 799.2	2 897.0	3 687.2	10 536.5	11 485.9
Dec Qtr	6 619.2	6 737.7	1 216.4	1 255.5	7 835.4	7 993.1	2 943.6	3 747.7	10 778.9	11 740.6
2004										
Mar Qtr	6 828.1	6 946.7	1 231.2	1 267.7	8 063.7	8 218.3	2 994.0	3 817.8	11 060.6	12 044.6

(a) Chain volume measures, reference year 2001–02. See paragraphs 25–28 of the Explanatory Notes.

6 VALUE OF BUILDING WORK DONE, Chain volume measures(a)—Change from previous period

	NEW RESIDENTIAL BUILDING		ALTERATIONS AND ADDITIONS		RESIDENTIAL BUILDING		NON-RESIDENTIAL BUILDING		TOTAL BUILDING	
	Private	*Total*	*Private*	*Total*	*Private*	*Total*	*Private*	*Total*	*Private*	*Total*
Period	%	%	%	%	%	%	%	%	%	%
					ORIGINAL					
2000–01	–27.5	–27.3	–24.4	–23.5	–27.1	–26.7	–20.7	–17.3	–25.1	–23.3
2001–02	23.5	23.2	18.9	18.9	22.8	22.5	6.3	5.3	17.8	16.2
2002–03	17.9	17.3	11.6	11.3	16.9	16.4	17.0	11.2	16.9	14.7
2002										
Dec Qtr	3.1	3.3	2.5	2.9	3.0	3.3	1.6	–0.4	2.7	2.1
2003										
Mar Qtr	–8.1	–8.4	–10.3	–9.5	–8.5	–8.6	–9.5	–11.3	–8.7	–9.4
Jun Qtr	1.2	1.4	6.7	7.8	2.0	2.3	7.6	7.1	3.5	3.8
Sep Qtr	5.4	5.7	11.1	8.9	6.3	6.2	7.4	6.0	6.6	6.1
Dec Qtr	5.3	5.1	7.9	6.9	5.7	5.4	6.5	6.3	5.9	5.7
2004										
Mar Qtr	–7.5	–7.7	–16.1	–15.4	–8.9	–8.9	–12.6	–13.0	–9.9	–10.2
					SEASONALLY ADJUSTED					
2002										
Dec Qtr	3.3	3.4	0.6	1.8	2.9	3.1	1.8	1.0	2.6	2.4
2003										
Mar Qtr	1.6	1.5	2.9	2.7	1.8	1.7	5.5	3.1	2.8	2.1
Jun Qtr	–5.4	–5.2	–2.0	–2.0	–4.9	–4.8	1.5	–1.1	–3.2	–3.6
Sep Qtr	1.7	1.8	8.8	8.1	2.7	2.7	–3.6	–3.7	0.9	0.6
Dec Qtr	5.8	5.6	3.8	3.2	5.5	5.2	8.6	9.0	6.3	6.4
2004										
Mar Qtr	0.8	0.8	–3.8	–3.8	0.1	0.1	–2.0	–1.9	–0.5	–0.5
					TREND					
2002										
Dec Qtr	2.4	2.4	1.4	1.7	2.3	2.3	4.3	2.7	2.8	2.4
2003										
Mar Qtr	–0.5	–0.5	0.6	0.9	–0.4	–0.3	2.9	0.7	0.5	—
Jun Qtr	–1.1	–1.0	3.0	2.8	–0.5	–0.4	1.5	–0.2	0.1	–0.4
Sep Qtr	0.7	0.8	3.7	3.2	1.2	1.1	1.3	0.7	1.2	1.0
Dec Qtr	2.5	2.5	2.7	2.3	2.6	2.5	1.6	1.6	2.3	2.2
2004										
Mar Qtr	3.2	3.1	1.2	1.0	2.9	2.8	1.7	1.9	2.6	2.6

— nil or rounded to zero (including null cells)

(a) Chain volume measures, reference year 2001–02. See paragraphs 25–28 of the Explanatory Notes.

7 VALUE OF BUILDING WORK DONE, Current prices

	NEW RESIDENTIAL BUILDING(a)		ALTERATIONS AND ADDITIONS(a)		RESIDENTIAL BUILDING(a)		NON-RESIDENTIAL BUILDING		TOTAL BUILDING(a)	
	Private	*Total*	*Private*	*Total*	*Private*	*Total*	*Private*	*Total*	*Private*	*Total*
Period	$m	$m	$m	$m	$m	$m	$m	$m	$m	$m
					ORIGINAL					
2000–01	17 376.7	17 797.4	3 250.0	3 389.2	20 626.7	21 186.6	8 880.5	12 408.1	29 507.2	33 594.7
2001–02	21 820.8	22 285.6	3 953.1	4 122.1	25 773.9	26 407.7	9 491.7	13 135.1	35 265.7	39 542.9
2002–03	26 776.0	27 224.6	4 578.2	4 761.8	31 354.2	31 986.4	11 481.8	15 097.7	42 835.9	47 084.2
2002										
Dec Qtr	6 953.0	7 079.2	1 186.4	1 226.5	8 139.4	8 305.7	2 952.4	3 905.6	11 091.8	12 211.3
2003										
Mar Qtr	6 464.5	6 563.5	1 076.3	1 122.7	7 540.8	7 686.2	2 696.8	3 497.0	10 237.6	11 183.2
Jun Qtr	6 675.5	6 790.2	1 167.6	1 230.8	7 843.1	8 021.0	2 948.1	3 804.5	10 791.2	11 825.5
Sep Qtr	7 197.0	7 338.7	1 319.5	1 363.7	8 516.5	8 702.4	3 238.8	4 120.8	11 755.3	12 823.2
Dec Qtr	7 719.8	7 858.0	1 445.6	1 479.7	9 165.3	9 337.6	3 513.6	4 466.6	12 678.9	13 804.2
2004										
Mar Qtr	7 256.6	7 377.1	1 224.7	1 263.6	8 481.3	8 640.7	3 142.7	3 978.0	11 624.0	12 618.7
					SEASONALLY ADJUSTED					
2002										
Dec Qtr	6 733.5	6 848.7	1 125.2	1 174.4	7 858.8	8 023.1	2 782.6	3 719.1	10 641.4	11 742.2
2003										
Mar Qtr	6 919.4	7 029.7	1 170.5	1 219.7	8 089.9	8 249.4	2 957.1	3 861.9	11 047.0	12 111.3
Jun Qtr	6 674.5	6 795.2	1 166.4	1 215.6	7 840.9	8 010.8	3 045.7	3 871.9	10 886.6	11 882.7
Sep Qtr	6 961.0	7 094.4	1 296.4	1 342.8	8 257.4	8 437.2	3 041.1	3 872.3	11 298.5	12 309.5
Dec Qtr	7 507.7	7 633.6	1 365.9	1 407.6	8 873.6	9 041.2	3 365.0	4 301.4	12 238.6	13 342.6
2004										
Mar Qtr	7 692.2	7 826.9	1 326.6	1 367.7	9 018.8	9 194.6	3 375.9	4 318.9	12 394.7	13 513.5
					TREND					
2002										
Dec Qtr	6 726.5	6 835.3	1 132.3	1 177.5	7 858.8	8 012.8	2 817.6	3 750.0	10 676.5	11 762.8
2003										
Mar Qtr	6 776.0	6 890.8	1 153.4	1 202.6	7 929.5	8 093.4	2 924.0	3 808.9	10 853.5	11 902.2
Jun Qtr	6 835.2	6 956.8	1 209.0	1 258.2	8 044.2	8 215.0	3 021.2	3 870.9	11 065.4	12 085.9
Sep Qtr	7 044.3	7 171.2	1 276.6	1 322.5	8 320.5	8 493.4	3 140.4	4 001.2	11 460.4	12 494.1
Dec Qtr	7 373.1	7 504.1	1 330.9	1 374.0	8 703.9	8 877.9	3 271.8	4 173.6	11 975.4	13 051.2
2004										
Mar Qtr	7 750.1	7 883.5	1 366.8	1 407.2	9 121.0	9 294.6	3 403.5	4 354.2	12 530.4	13 658.2

(a) From the September quarter 2000, data is inclusive of non-deductible GST payable on residential buildings. See paragraphs 11 and 12 of the Explanatory Notes.

8 VALUE OF BUILDING WORK DONE, Current Prices—Change from previous period

	NEW RESIDENTIAL BUILDING(a)		ALTERATIONS AND ADDITIONS(a)		RESIDENTIAL BUILDING(a)		NON-RESIDENTIAL BUILDING		TOTAL BUILDING(a)	
	Private	*Total*	*Private*	*Total*	*Private*	*Total*	*Private*	*Total*	*Private*	*Total*
Period	%	%	%	%	%	%	%	%	%	%
					ORIGINAL					
2000–01	–18.1	–17.8	–14.0	–12.9	–17.5	–17.1	–19.0	–15.5	–17.9	–16.5
2001–02	25.6	25.2	21.6	21.6	25.0	24.6	6.9	5.9	19.5	17.7
2002–03	22.7	22.2	15.8	15.5	21.7	21.1	21.0	14.9	21.5	19.1
2002										
Dec Qtr	4.0	4.2	3.4	3.8	3.9	4.2	2.4	0.4	3.5	2.9
2003										
Mar Qtr	–7.0	–7.3	–9.3	–8.5	–7.4	–7.5	–8.7	–10.5	–7.7	–8.4
Jun Qtr	3.3	3.5	8.5	9.6	4.0	4.4	9.3	8.8	5.4	5.7
Sep Qtr	7.8	8.1	13.0	10.8	8.6	8.5	9.9	8.3	8.9	8.4
Dec Qtr	7.3	7.1	9.6	8.5	7.6	7.3	8.5	8.4	7.9	7.7
2004										
Mar Qtr	–6.0	–6.1	–15.3	–14.6	–7.5	–7.5	–10.6	–10.9	–8.3	–8.6
					SEASONALLY ADJUSTED					
2002										
Dec Qtr	4.1	4.2	1.4	2.5	3.7	4.0	2.2	1.3	3.3	3.1
2003										
Mar Qtr	2.8	2.6	4.0	3.9	2.9	2.8	6.3	3.8	3.8	3.1
Jun Qtr	–3.5	–3.3	–0.4	–0.3	–3.1	–2.9	3.0	0.3	–1.5	–1.9
Sep Qtr	4.3	4.4	11.1	10.5	5.3	5.3	–0.2	—	3.8	3.6
Dec Qtr	7.9	7.6	5.4	4.8	7.5	7.2	10.7	11.1	8.3	8.4
2004										
Mar Qtr	2.5	2.5	–2.9	–2.8	1.6	1.7	0.3	0.4	1.3	1.3
					TREND					
2002										
Dec Qtr	3.3	3.3	2.2	2.5	3.2	3.2	4.7	3.0	3.6	3.1
2003										
Mar Qtr	0.7	0.8	1.9	2.1	0.9	1.0	3.8	1.6	1.7	1.2
Jun Qtr	0.9	1.0	4.8	4.6	1.4	1.5	3.3	1.6	2.0	1.5
Sep Qtr	3.1	3.1	5.6	5.1	3.4	3.4	3.9	3.4	3.6	3.4
Dec Qtr	4.7	4.6	4.3	3.9	4.6	4.5	4.2	4.3	4.5	4.5
2004										
Mar Qtr	5.1	5.1	2.7	2.4	4.8	4.7	4.0	4.3	4.6	4.7

— nil or rounded to zero (including null cells)

(a) From the September quarter 2000, data is inclusive of non-deductible GST payable on residential buildings. See paragraphs 11 and 12 of the Explanatory Notes.

9 CONSTRUCTION WORK DONE, States and territories—Chain volume measures(a): **Original**

Period	NSW $m	Vic. $m	Qld $m	SA $m	WA $m	Tas. $m	NT $m	ACT $m	**Aust.** $m
BUILDING WORK DONE									
2000–01	11 235.2	10 486.5	5 948.2	1 684.4	3 443.7	347.2	309.5	593.2	**34 041.0**
2001–02	12 783.7	12 062.9	7 508.7	2 032.7	3 686.1	429.2	358.1	681.5	**39 542.9**
2002–03	15 074.5	13 653.3	8 370.5	2 333.2	4 206.8	475.3	354.0	871.2	**45 338.8**
2002									
Dec Qtr	4 025.8	3 479.2	2 213.1	583.4	1 094.8	127.1	105.4	222.8	**11 851.7**
2003									
Mar Qtr	3 569.1	3 207.1	1 959.2	551.0	1 032.8	108.2	69.9	234.8	**10 732.2**
Jun Qtr	3 790.1	3 287.2	2 008.6	610.0	1 016.7	117.1	88.4	224.7	**11 142.9**
Sep Qtr	3 851.9	3 460.2	2 310.6	630.0	1 122.4	141.9	94.8	213.5	**11 825.3**
Dec Qtr	4 021.8	3 600.6	2 649.2	687.7	1 046.0	165.4	105.4	220.7	**12 496.9**
2004									
Mar Qtr	3 565.5	3 283.7	2 224.9	644.0	1 080.5	156.3	79.0	184.4	**11 218.1**
ENGINEERING WORK DONE									
2000–01	6 264.0	3 274.5	4 830.0	1 151.4	2 298.2	268.3	171.9	211.4	**18 474.2**
2001–02	5 597.6	3 389.0	4 627.5	1 417.4	3 119.3	453.8	1 226.7	199.9	**20 032.1**
2002–03	6 289.4	4 130.4	5 401.0	1 721.6	4 605.5	352.8	1 297.3	238.0	**24 036.0**
2002									
Dec Qtr	1 608.2	986.0	1 409.6	485.5	1 164.9	78.0	367.7	50.0	**6 150.0**
2003									
Mar Qtr	1 524.4	1 015.4	1 330.6	440.5	1 080.9	79.3	226.9	60.7	**5 758.8**
Jun Qtr	1 797.1	1 168.4	1 337.1	483.7	1 362.3	88.1	320.4	78.8	**6 635.9**
Sep Qtr	1 692.1	1 061.4	1 170.4	424.6	1 116.5	71.3	398.5	50.9	**5 985.7**
Dec Qtr	1 843.3	1 207.0	1 411.1	426.0	1 175.7	110.8	413.1	58.7	**6 645.7**
2004									
Mar Qtr	1 825.8	1 248.6	1 257.0	360.7	1 127.9	97.0	360.6	57.6	**6 335.2**
CONSTRUCTION WORK DONE									
2000–01	17 447.5	13 765.8	10 784.8	2 822.4	5 722.0	614.2	485.1	810.1	**52 511.3**
2001–02	18 381.3	15 451.9	12 136.2	3 450.1	6 805.4	883.0	1 584.9	881.4	**59 575.0**
2002–03	21 363.9	17 783.7	13 771.4	4 054.8	8 812.3	828.0	1 651.3	1 109.2	**69 374.7**
2002									
Dec Qtr	5 634.1	4 465.1	3 622.7	1 069.0	2 259.7	205.1	473.1	272.9	**18 001.6**
2003									
Mar Qtr	5 093.5	4 222.5	3 289.9	991.5	2 113.7	187.5	296.8	295.5	**16 491.0**
Jun Qtr	5 587.2	4 455.7	3 345.6	1 093.6	2 379.0	205.3	408.8	303.5	**17 778.7**
Sep Qtr	5 543.9	4 521.6	3 481.0	1 054.7	2 238.9	213.2	493.4	264.3	**17 811.0**
Dec Qtr	5 865.2	4 807.6	4 060.3	1 113.7	2 221.6	276.3	518.5	279.4	**19 142.6**
2004									
Mar Qtr	5 391.4	4 532.2	3 481.8	1 004.7	2 208.3	253.2	439.6	241.9	**17 553.3**

(a) Chain volume measures, reference year 2001-02. See paragraphs 25-28 of the Explanatory Notes.

10 CONSTRUCTION WORK DONE, States and territories—Chain volume measures—Change from previous period(a): **Original**

Period	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	**Aust.**
	%	%	%	%	%	%	%	%	%
BUILDING WORK DONE									
2000–01	–33.2	–12.8	–19.4	–18.5	–22.0	–19.7	–24.5	–18.9	**–23.3**
2001–02	13.8	15.0	26.2	20.7	7.0	23.6	15.7	14.9	**16.2**
2002–03	17.9	13.2	11.5	14.8	14.1	10.7	–1.2	27.8	**14.7**
2002									
Dec Qtr	9.1	–5.5	1.1	–0.9	3.1	3.4	16.8	18.0	**2.1**
2003									
Mar Qtr	–11.3	–7.8	–11.5	–5.6	–5.7	–14.8	–33.7	5.4	**–9.4**
Jun Qtr	6.2	2.5	2.5	10.7	–1.6	8.2	26.4	–4.3	**3.8**
Sep Qtr	1.6	5.3	15.0	3.3	10.4	21.2	7.3	–5.0	**6.1**
Dec Qtr	4.4	4.1	14.7	9.2	–6.8	16.6	11.1	3.4	**5.7**
2004									
Mar Qtr	–11.3	–8.8	–16.0	–6.4	3.3	–5.5	–25.0	–16.5	**–10.2**
ENGINEERING WORK DONE									
2000–01	–4.4	–9.9	–12.2	–23.4	–21.3	0.2	–41.2	–26.4	**–11.9**
2001–02	–10.6	3.5	–4.2	23.1	35.7	69.2	613.8	–5.4	**8.4**
2002–03	12.4	21.9	16.7	21.5	47.6	–22.3	5.8	19.1	**20.0**
2002									
Dec Qtr	18.3	2.6	6.5	55.7	16.8	–27.3	–3.8	3.2	**12.0**
2003									
Mar Qtr	–5.2	3.0	–5.6	–9.3	–7.2	1.6	–38.3	21.4	**–6.4**
Jun Qtr	17.9	15.1	0.5	9.8	26.0	11.2	41.2	29.8	**15.2**
Sep Qtr	–5.8	–9.2	–12.5	–12.2	–18.0	–19.1	24.4	–35.5	**–9.8**
Dec Qtr	8.9	13.7	20.6	0.3	5.3	55.5	3.7	15.4	**11.0**
2004									
Mar Qtr	–0.9	3.4	–10.9	–15.3	–4.1	–12.5	–12.7	–2.0	**–4.7**
CONSTRUCTION WORK DONE									
2000–01	–24.9	–12.1	–16.2	–20.3	–21.6	–11.9	–31.2	–21.0	**–19.5**
2001–02	5.4	12.2	12.5	22.2	18.9	43.8	226.7	8.8	**13.5**
2002–03	16.2	15.1	13.5	17.5	29.5	–6.2	4.2	25.9	**16.4**
2002									
Dec Qtr	11.6	–3.8	3.1	18.7	9.7	–10.9	0.1	15.0	**5.3**
2003									
Mar Qtr	–9.6	–5.4	–9.2	–7.2	–6.5	–8.6	–37.3	8.3	**–8.4**
Jun Qtr	9.7	5.5	1.7	10.3	12.5	9.5	37.7	2.7	**7.8**
Sep Qtr	–0.8	1.5	4.0	–3.6	–5.9	3.9	20.7	–12.9	**0.2**
Dec Qtr	5.8	6.3	16.6	5.6	–0.8	29.6	5.1	5.7	**7.5**
2004									
Mar Qtr	–8.1	–5.7	–14.2	–9.8	–0.6	–8.3	–15.2	–13.4	**–8.3**

(a) Chain volume measures, reference year 2001-02. See paragraphs 25-28 of the Explanatory Notes.

11 CONSTRUCTION WORK DONE, States and territories—Current prices: **Original**

Period	NSW $m	Vic. $m	Qld $m	SA $m	WA $m	Tas. $m	NT $m	ACT $m	**Aust.** $m
BUILDING WORK DONE(a)									
2000–01	11 189.9	10 189.4	5 964.7	1 629.7	3 391.7	340.2	311.1	578.0	**33 594.7**
2001–02	12 783.7	12 062.9	7 508.7	2 032.7	3 686.1	429.2	358.1	681.5	**39 542.9**
2002–03	15 594.8	14 050.0	8 881.5	2 436.5	4 335.0	504.2	366.3	915.8	**47 084.2**
2002									
Dec Qtr	4 132.9	3 548.0	2 330.5	607.8	1 118.7	133.2	108.4	231.8	**12 211.3**
2003									
Mar Qtr	3 701.2	3 307.3	2 092.8	578.0	1 067.5	116.0	72.8	247.8	**11 183.2**
Jun Qtr	4 000.0	3 456.4	2 192.4	643.3	1 070.6	128.2	92.9	241.8	**11 825.5**
Sep Qtr	4 150.5	3 694.1	2 601.0	671.5	1 212.7	157.1	99.7	236.5	**12 823.2**
Dec Qtr	4 414.5	3 868.1	3 075.4	743.8	1 155.4	185.7	111.9	249.5	**13 804.2**
2004									
Mar Qtr	4 013.1	3 561.6	2 645.1	708.8	1 215.8	178.8	84.4	211.0	**12 618.7**
ENGINEERING WORK DONE									
2000–01	6 156.5	3 216.4	4 744.4	1 129.5	2 256.6	264.2	168.3	207.9	**18 143.7**
2001–02	5 597.6	3 389.0	4 627.5	1 417.4	3 119.3	453.8	1 226.7	199.9	**20 031.3**
2002–03	6 483.7	4 244.3	5 558.8	1 766.4	4 735.3	364.0	1 331.6	244.7	**24 728.8**
2002									
Dec Qtr	1 647.1	1 009.4	1 445.5	495.0	1 192.3	80.2	375.9	51.1	**6 296.4**
2003									
Mar Qtr	1 576.6	1 043.3	1 369.9	451.8	1 111.1	82.2	233.8	62.4	**5 931.2**
Jun Qtr	1 876.6	1 214.0	1 395.5	503.0	1 416.7	91.7	332.8	81.9	**6 912.2**
Sep Qtr	1 777.1	1 108.1	1 231.7	441.4	1 162.1	74.7	412.7	53.0	**6 260.8**
Dec Qtr	1 948.7	1 267.3	1 491.2	445.7	1 226.1	117.5	427.5	61.9	**6 985.7**
2004									
Mar Qtr	1 951.7	1 325.2	1 343.1	382.8	1 186.1	103.9	374.0	60.4	**6 727.2**
CONSTRUCTION WORK DONE(a)									
2000–01	17 346.4	13 405.8	10 709.1	2 759.2	5 648.3	604.5	479.4	785.9	**51 738.4**
2001–02	18 381.3	15 451.9	12 136.2	3 450.1	6 805.4	883.0	1 584.9	881.4	**59 574.2**
2002–03	22 078.5	18 294.3	14 440.4	4 203.0	9 070.3	868.2	1 697.9	1 160.4	**71 812.9**
2002									
Dec Qtr	5 780.0	4 557.5	3 775.9	1 102.9	2 311.0	213.3	484.3	282.9	**18 507.7**
2003									
Mar Qtr	5 277.8	4 350.6	3 462.7	1 029.8	2 178.6	198.2	306.6	310.2	**17 114.4**
Jun Qtr	5 876.6	4 670.4	3 587.9	1 146.3	2 487.3	219.9	425.7	323.7	**18 737.8**
Sep Qtr	5 927.6	4 802.2	3 832.7	1 112.9	2 374.8	231.8	512.4	289.5	**19 084.0**
Dec Qtr	6 363.2	5 135.3	4 566.6	1 189.6	2 381.5	303.2	539.3	311.3	**20 790.0**
2004									
Mar Qtr	5 964.9	4 886.9	3 988.2	1 091.5	2 401.9	282.7	458.4	271.4	**19 345.9**

(a) From the September quarter 2000, data is inclusive of non-deductible GST payable on residential buildings. See paragraphs 11 and 12 of the Explanatory Notes.

12 CONSTRUCTION WORK DONE, States and territories—Current prices—Change from previous period: **Original**

Period	*NSW*	*Vic.*	*Qld*	*SA*	*WA*	*Tas.*	*NT*	*ACT*	***Aust.***
BUILDING WORK DONE(a)									
2000–01	–27.8	–3.1	–14.3	–10.7	–15.2	–14.7	–21.0	–12.4	**–16.5**
2001–02	14.2	18.4	25.9	24.7	8.7	26.2	15.1	17.9	**17.7**
2002–03	22.0	16.5	18.3	19.9	17.6	17.5	2.3	34.4	**19.1**
2002									
Dec Qtr	9.9	–5.1	2.8	0.1	3.8	5.0	17.5	19.2	**2.9**
2003									
Mar Qtr	–10.4	–6.8	–10.2	–4.9	–4.6	–12.9	–32.8	6.9	**–8.4**
Jun Qtr	8.1	4.5	4.8	11.3	0.3	10.5	27.6	–2.4	**5.7**
Sep Qtr	3.8	6.9	18.6	4.4	13.3	22.6	7.4	–2.2	**8.4**
Dec Qtr	6.4	4.7	18.2	10.8	–4.7	18.2	12.2	5.5	**7.7**
2004									
Mar Qtr	–9.1	–7.9	–14.0	–4.7	5.2	–3.7	–24.6	–15.4	**–8.6**
ENGINEERING WORK DONE									
2000–01	–1.2	–6.8	–9.1	–20.7	–18.7	4.0	–39.2	–23.8	**–8.9**
2001–02	–9.1	5.4	–2.5	25.5	38.2	71.7	629.1	–3.9	**10.4**
2002–03	15.8	25.2	20.1	24.6	51.8	–19.8	8.5	22.4	**23.5**
2002									
Dec Qtr	19.1	3.3	7.2	56.4	17.4	–27.1	–3.4	3.6	**12.7**
2003									
Mar Qtr	–4.3	3.4	–5.2	–8.7	–6.8	2.6	–37.8	22.2	**–5.8**
Jun Qtr	19.0	16.4	1.9	11.3	27.5	11.6	42.4	31.3	**16.5**
Sep Qtr	–5.3	–8.7	–11.7	–12.2	–18.0	–18.6	24.0	–35.3	**–9.4**
Dec Qtr	9.7	14.4	21.1	1.0	5.5	57.3	3.6	16.8	**11.6**
2004									
Mar Qtr	0.2	4.6	–9.9	–14.1	–3.3	–11.5	–12.5	–2.4	**–3.7**
CONSTRUCTION WORK DONE(a)									
2000–01	–20.1	–4.0	–12.1	–15.1	–16.6	–7.4	–28.5	–15.8	**–14.0**
2001–02	6.0	15.3	13.3	25.0	20.5	46.1	230.6	12.1	**15.1**
2002–03	20.1	18.4	19.0	21.8	33.3	–1.7	7.1	31.7	**20.5**
2002									
Dec Qtr	12.4	–3.4	4.5	19.4	10.4	–9.9	0.6	16.1	**6.0**
2003									
Mar Qtr	–8.7	–4.5	–8.3	–6.6	–5.7	–7.1	–36.7	9.6	**–7.5**
Jun Qtr	11.3	7.4	3.6	11.3	14.2	10.9	38.9	4.4	**9.5**
Sep Qtr	0.9	2.8	6.8	–2.9	–4.5	5.4	20.4	–10.6	**1.8**
Dec Qtr	7.3	6.9	19.1	6.9	0.3	30.8	5.2	7.5	**8.9**
2004									
Mar Qtr	–6.3	–4.8	–12.7	–8.2	0.9	–6.7	–15.0	–12.8	**–6.9**

(a) From the September quarter 2000, data is inclusive of non-deductible GST payable on residential buildings. See paragraphs 11 and 12 of the Explanatory Notes.

EXPLANATORY NOTES

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 buildings and alterations and additions to existing buildings.

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
- 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. Where projects include elements of both building and engineering construction every effort is taken to exclude the building component from the engineering construction statistics.

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 ABN 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 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 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

RELATIONSHIP WITH NATIONAL ACCOUNTS *continued*

Building Activity survey and also the value of building 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.

TREATMENT OF THE GST

8 Statistics on the 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.

10 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.

11 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.

12 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.

13 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.

CLASSIFICATION

14 *Ownership.* 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 as evident at the time of approval. Engineering projects are classified as either *private sector* or *public sector* according to the expected ownership of the project at the time of completion.

15 Building jobs are classified both by the TYPE OF BUILDING (e.g. 'residential', 'non-residential') and by the TYPE OF WORK involved (e.g. 'new' and 'alterations and additions'). These classifications are used in conjunction with each other and are defined in the Glossary.

RELIABILITY OF THE ESTIMATES

16 The estimates of engineering activity 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

RELIABILITY OF THE ESTIMATES *continued*

standard errors give a measure of this variability and therefore indicate the degree of confidence that can be attached to the data.

17 Relative standard errors for the value of work done in the March quarter 2004 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.

	%
Australia	%
New private residential building	1.0
Total private residential building	0.9
Private non-residential building	0.9
Total private building	0.7
Total residential building	0.9
Total non-residential building	0.7
Total building	**0.7**
Engineering for the private sector	2.5
Total engineering	**1.7**

States and territories	*Total building* %	*Total engineering* %
NSW	1.1	3.1
Vic.	1.4	4.2
Qld	1.7	5.1
SA	1.1	4.1
WA	1.3	3.7
Tas.	1.4	3.9
NT	—	1.5
ACT	1.6	9.1

— nil or rounded to zero (including null cells)

SEASONAL ADJUSTMENT

18 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.

19 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.

20 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, 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, 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.

SEASONAL ADJUSTMENT *continued*

21 A more detailed review of concurrent seasonal factors will be conducted annually, generally prior to the release of data for the December quarter.

TREND ESTIMATES

22 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.

23 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.

24 While the smoothing technique described in paragraphs 22 and 23 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, 2003* (cat. no. 1349.0) or contact the Assistant Director, Time Series Analysis on Canberra 02 6252 6540 or email <timeseries@abs.gov.au>.

CHAIN VOLUME MEASURES

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

26 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'.

27 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).

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

ACKNOWLEDGMENT

29 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

30 All tables in this publication, plus some additional state and territory series are available in electronic form on the ABS website <http://www.abs.gov.au>.

RELATED PRODUCTS *continued*

31 Users may also wish to refer to the following publications:
Building Activity, Australia, cat. no. 8752.0
Building Approvals, Australia, cat. no. 8731.0
Dwelling Unit Commencements, Australia, Preliminary, cat. no. 8750.0
Engineering Construction Activity, Australia, cat. no. 8762.0
House Price Indexes: Eight Capital Cities, cat. no. 6416.0
Housing Finance for Owner Occupation, Australia, cat. no. 5609.0
Private Sector Construction Industry, Australia, 1996–97, cat. no. 8772.0
Producer Price Indexes, Australia, cat. no. 6427.0.

32 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 the National Information and Referral Service on 1300 135 070 or the ABS web site <http://www.abs.gov.au>. The ABS also issues a daily Release Advice on the web site which details products to be released in the week ahead.

ABS DATA AVAILABLE ON REQUEST

33 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 1300 135 070.

GLOSSARY

Alterations and additions — Building activity carried out on existing buildings. 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.

Alterations and additions to residential buildings — Alterations and additions carried out on existing residential buildings, which may result in the creation of new dwelling units.

Building — A building is 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.

Construction work done — The sum of building work done and engineering construction work done.

Dwelling unit — A dwelling unit is 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.

House — A house is 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) associatedwith non-residential buildings are defined as houses for the purpose of these statistics.

New — Building activity which will result in the creation of a building which previously did not exist.

Non-residential building — A non-residential building is primarily intended for purposes other than long term residential purposes.

Other residential building — An other residential building is a building other than a house primarily used for long-term residential purposes and which contains (or has attached to it) more than one dwelling unit (e.g. includes blocks of flats, attached townhouses, duplexes, apartment buildings, etc.).

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

Value of building and engineering work done during the period — Represents the estimated value of work carried out during the quarter on jobs which have commenced.

Value of building work done — 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.

Value of engineering work done — 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. The value of engineering work done for the public sector is the work done by the organisation's own workforce and sub-contractors. In each case, the value excludes the cost of land and repair and maintenance activity, as well as 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. However, a contract for the installation of machinery and equipment which is an integral part of a construction project is included.

FOR MORE INFORMATION . . .

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