

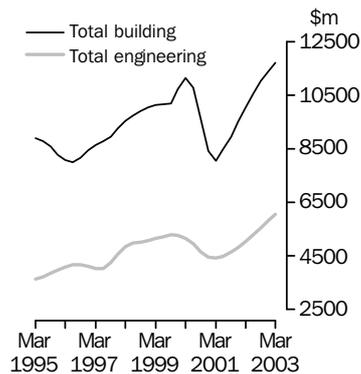
CONSTRUCTION WORK DONE

AUSTRALIA
PRELIMINARY

EMBARGO: 11:30AM (CANBERRA TIME) WED 28 MAY 2003

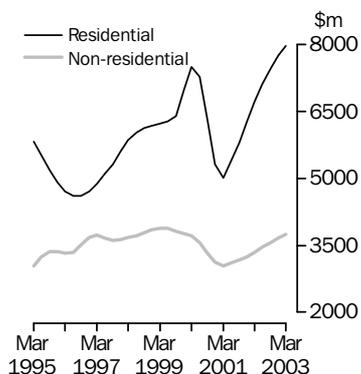
Value of construction work done

Volume terms
Trend estimates



Value of building work done

Volume terms
Trend estimates



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

MARCH QTR KEY FIGURES

TREND ESTIMATES (a)	Mar qtr 03 \$m	Dec qtr 02 to Mar qtr 03 % change	Mar qtr 02 to Mar qtr 03 % change
Value of work done			
Building	11 713.2	2.5	16.4
Residential	7 969.1	2.8	18.6
Non-residential	3 752.5	2.3	12.2
Engineering	6 069.3	4.1	20.5
Total construction	17 827.4	3.3	18.1

SEASONALLY ADJUSTED (a)	Mar qtr 03 \$m	Dec qtr 02 to Mar qtr 03 % change	Mar qtr 02 to Mar qtr 03 % change
Value of work done			
Building	11 685.7	2.1	16.6
Residential	7 887.2	0.2	18.5
Non-residential	3 798.5	6.3	12.6
Engineering	6 058.4	2.0	12.7
Total construction	17 744.1	2.1	15.2

(a) Chain volume measures, reference year 2000-01.

MARCH QTR KEY POINTS

VALUE OF CONSTRUCTION WORK DONE, VOLUME TERMS

TREND ESTIMATES

- The trend estimate of building work done continued to rise in the March quarter 2003, up 2.5%, but the rate of growth has eased. Over the last eight quarters growth was initially driven by the residential sector. However, in recent quarters, both the residential and non-residential sectors have contributed more equally.
- Engineering work rose for the eighth successive quarter, up 4.1%. Overall growth for the last seven quarters has been driven by the private sector, up 8.6% in the latest quarter.
- Total construction work done rose 3.3%, the eighth successive quarterly increase.

SEASONALLY ADJUSTED ESTIMATES

- The seasonally adjusted estimate of building work done rose for the ninth successive quarter, by 2.1% in the March quarter to \$11,685.7m. Growth in the latest quarter was due to a 6.3% increase in non-residential building work to \$3,798.5m, the highest level since the June quarter 2000. Residential building work rose a marginal 0.2% in the March quarter to \$7,887.2m, a level exceeded only by the June quarter 2000.
- Engineering work done rose 2.0% to \$6,058.4m, the third successive quarterly record level. Work for the private sector rose 7.8% to a record \$3,305.4m whereas the public sector fell 4.1% to \$2,753.0m.
- Total construction work rose 2.1% to \$17,744.1m, the second successive quarterly record.

NOTES

FORTHCOMING ISSUES

<i>ISSUE (Quarter)</i>	<i>RELEASE DATE</i>
June 2003	27 August 2003
September 2003	26 November 2003



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 85% of the value of building work done and 80% of the value of 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 17 July 2003. Please note that the former publication was previously advertised to be released on 18 July 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.

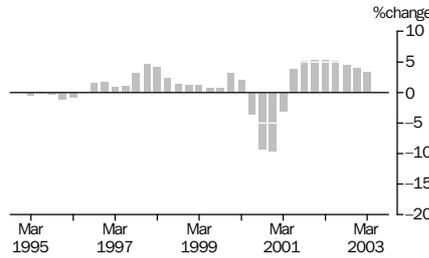
Dennis Trewin
Australian Statistician

CONSTRUCTION WORK DONE: Chain volume measures(a)

TREND PERCENTAGE CHANGE

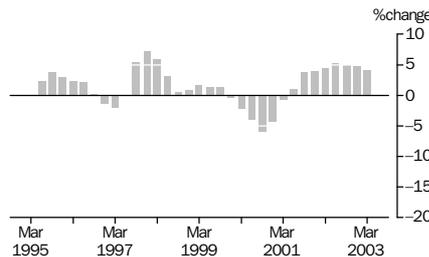
NOTE: Trend estimates are subject to revisions. See Explanatory Notes, paragraph 29.

TOTAL CONSTRUCTION



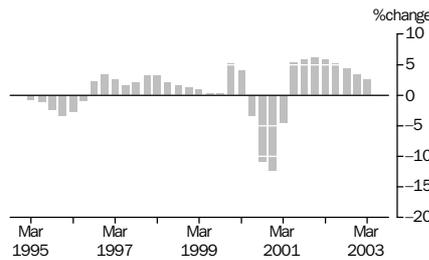
The total value of construction work done rose for the eighth successive quarter, but the rate of growth has slowed over the last four quarters.

Engineering



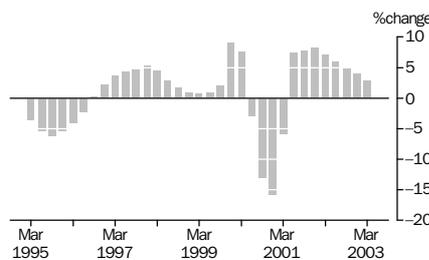
Engineering construction work done has risen for each of the last eight quarters.

Building



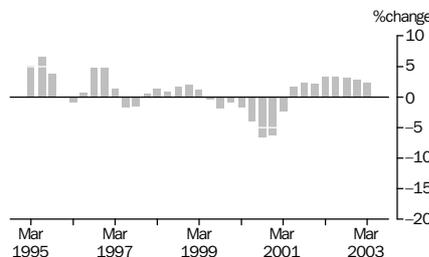
Building work done grew for the eighth successive quarter, but the rate of growth has been slowing for the last five quarters.

Residential



Residential building work grew for the eighth successive quarter, but the rate of growth has been slowing for the last five quarters.

Non-residential



Non-residential building work done has increased for eight successive quarters, but the rate of growth has eased over the last three quarters.

(a) Reference year 2000-01.

Period	BUILDING WORK DONE.....			ENGINEERING WORK DONE.....			CONSTRUCTION WORK DONE.....		
	Private	Public	Total	Private	Public	Total	Private	Public	Total
ORIGINAL (\$m)									
1999-00	39 412.0	4 416.6	43 770.4	8 043.1	12 545.8	20 589.8	47 412.3	16 962.2	64 260.9
2000-01	29 547.2	4 106.6	33 653.8	6 682.3	11 462.2	18 144.5	36 229.5	15 568.8	51 798.3
2001-02	34 860.5	4 276.5	39 137.0	8 727.8	10 946.4	19 674.3	43 588.3	15 222.9	58 811.2
2001									
Dec qtr	8 833.4	1 104.3	9 937.7	1 831.0	2 882.6	4 713.6	10 664.4	3 986.9	14 651.3
2002									
Mar qtr	8 334.4	952.1	9 286.5	2 565.8	2 465.7	5 031.5	10 900.2	3 417.8	14 318.1
Jun qtr	9 509.7	1 123.1	10 632.8	2 459.7	3 064.9	5 524.6	11 969.4	4 188.0	16 157.4
Sep qtr	10 349.8	1 152.0	11 501.8	2 896.5	2 494.9	5 391.4	13 246.2	3 647.0	16 893.2
Dec qtr	10 769.2	1 081.4	11 850.5	3 210.2	2 890.3	6 100.5	13 979.4	3 971.7	17 951.0
2003									
Mar qtr	9 777.1	986.4	10 763.6	3 071.1	2 631.3	5 702.4	12 848.2	3 617.7	16 465.9
SEASONALLY ADJUSTED (\$m)									
2001									
Dec qtr	8 508.6	1 080.8	9 589.3	1 734.6	2 868.4	4 603.0	10 243.2	3 949.2	14 192.3
2002									
Mar qtr	8 985.5	1 039.8	10 025.5	2 733.6	2 639.8	5 373.4	11 719.1	3 679.6	15 398.9
Jun qtr	9 451.5	1 076.7	10 528.1	2 466.8	2 622.0	5 088.8	11 918.3	3 698.7	15 616.9
Sep qtr	9 976.9	1 131.8	11 109.1	2 793.5	2 755.9	5 549.5	12 770.5	3 887.7	16 658.6
Dec qtr	10 384.5	1 058.4	11 443.3	3 066.9	2 870.6	5 937.5	13 451.5	3 929.0	17 380.8
2003									
Mar qtr	10 611.9	1 073.6	11 685.7	3 305.4	2 753.0	6 058.4	13 917.3	3 826.6	17 744.1
TREND ESTIMATES (\$m)									
2001									
Dec qtr	8 450.7	1 062.8	9 513.3	2 030.1	2 795.4	4 825.4	10 480.9	3 858.0	14 339.2
2002									
Mar qtr	8 990.3	1 070.5	10 060.9	2 350.5	2 686.4	5 037.0	11 340.7	3 757.0	15 097.6
Jun qtr	9 490.5	1 081.2	10 571.9	2 623.7	2 676.5	5 300.2	12 114.2	3 757.8	15 872.1
Sep qtr	9 939.6	1 091.1	11 033.9	2 822.4	2 735.8	5 563.0	12 760.3	3 826.7	16 591.8
Dec qtr	10 335.6	1 086.4	11 423.5	3 031.8	2 799.4	5 832.4	13 366.8	3 885.6	17 254.1
2003									
Mar qtr	10 666.2	1 072.8	11 713.2	3 291.5	2 812.6	6 069.3	13 975.3	3 888.0	17 827.4

(a) Reference year for chain volume measures is 2000-01. See paragraphs 30-33 of the Explanatory Notes.

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

Period	BUILDING WORK DONE.....			ENGINEERING WORK DONE.....			CONSTRUCTION WORK DONE.....		
	Private	Public	Total	Private	Public	Total	Private	Public	Total
ORIGINAL (% change from preceding period)									
1999-00	10.6	-4.1	8.8	-11.5	10.0	0.5	5.9	6.0	5.9
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
2001									
Dec qtr	7.9	0.7	7.1	-2.2	13.8	7.0	6.1	9.8	7.1
2002									
Mar qtr	-5.6	-13.8	-6.6	40.1	-14.5	6.7	2.2	-14.3	-2.3
Jun qtr	14.1	18.0	14.5	-4.1	24.3	9.8	9.8	22.5	12.8
Sep qtr	8.8	2.6	8.2	17.8	-18.6	-2.4	10.7	-12.9	4.6
Dec qtr	4.1	-6.1	3.0	10.8	15.8	13.2	5.5	8.9	6.3
2003									
Mar qtr	-9.2	-8.8	-9.2	-4.3	-9.0	-6.5	-8.1	-8.9	-8.3
SEASONALLY ADJUSTED (% change from preceding period)									
2001									
Dec qtr	7.5	0.1	6.6	-3.3	1.9	-0.1	5.5	1.4	4.3
2002									
Mar qtr	5.6	-3.8	4.5	57.6	-8.0	16.7	14.4	-6.8	8.5
Jun qtr	5.2	3.5	5.0	-9.8	-0.7	-5.3	1.7	0.5	1.4
Sep qtr	5.6	5.1	5.5	13.2	5.1	9.1	7.2	5.1	6.7
Dec qtr	4.1	-6.5	3.0	9.8	4.2	7.0	5.3	1.1	4.3
2003									
Mar qtr	2.2	1.4	2.1	7.8	-4.1	2.0	3.5	-2.6	2.1
TREND ESTIMATES (% change from preceding period)									
2001									
Dec qtr	6.9	-0.1	6.1	14.9	-2.8	4.0	8.4	-2.1	5.3
2002									
Mar qtr	6.4	0.7	5.8	15.8	-3.9	4.4	8.2	-2.6	5.3
Jun qtr	5.6	1.0	5.1	11.6	-0.4	5.2	6.8	—	5.1
Sep qtr	4.7	0.9	4.4	7.6	2.2	5.0	5.3	1.8	4.5
Dec qtr	4.0	-0.4	3.5	7.4	2.3	4.8	4.8	1.5	4.0
2003									
Mar qtr	3.2	-1.2	2.5	8.6	0.5	4.1	4.6	0.1	3.3

(a) Reference year for chain volume measures is 2000-01. See paragraphs 30-33 of the Explanatory Notes.

Period	BUILDING WORK DONE(a).....			ENGINEERING WORK DONE.....			CONSTRUCTION WORK DONE(a).....		
	Private	Public	Total	Private	Public	Total	Private	Public	Total
ORIGINAL (\$m)									
1999-00	35 958.4	4 283.4	40 241.9	7 786.0	12 121.6	19 907.5	43 744.4	16 405.0	60 149.4
2000-01	29 547.2	4 106.6	33 653.8	6 682.3	11 461.4	18 143.7	36 229.5	15 568.0	51 797.5
2001-02	35 357.7	4 299.1	39 656.9	8 899.0	11 132.3	20 031.3	44 256.7	15 431.4	59 688.2
2001									
Dec qtr	8 917.2	1 104.6	10 021.8	1 863.2	2 918.6	4 781.8	10 780.4	4 023.2	14 803.6
2002									
Mar qtr	8 474.4	959.0	9 433.5	2 611.4	2 508.8	5 120.2	11 085.8	3 467.8	14 553.7
Jun qtr	9 759.5	1 141.5	10 901.0	2 526.7	3 142.9	5 669.6	12 286.2	4 284.4	16 570.5
Sep qtr	10 722.7	1 184.9	11 907.6	3 015.7	2 572.8	5 588.5	13 738.4	3 757.7	17 496.1
Dec qtr	11 243.5	1 120.5	12 364.0	3 353.3	2 999.3	6 352.5	14 596.7	4 119.8	18 716.5
2003									
Mar qtr	10 323.2	1 033.9	11 357.1	3 213.6	2 751.1	5 964.6	13 536.7	3 785.0	17 321.7
SEASONALLY ADJUSTED (\$m)									
2001									
Dec qtr	8 612.6	1 080.8	9 693.4	1 779.5	2 906.4	4 685.9	10 392.1	3 987.2	14 379.4
2002									
Mar qtr	9 166.0	1 046.4	10 212.3	2 810.3	2 688.2	5 498.5	11 976.3	3 734.6	15 710.9
Jun qtr	9 733.1	1 092.6	10 825.7	2 561.9	2 690.8	5 252.7	12 295.0	3 783.5	16 078.4
Sep qtr	10 335.5	1 165.8	11 501.3	2 907.6	2 843.8	5 751.4	13 243.1	4 009.6	17 252.7
Dec qtr	10 841.4	1 098.4	11 939.8	3 202.6	2 980.9	6 183.5	14 043.9	4 079.3	18 123.3
2003									
Mar qtr	11 202.6	1 127.1	12 329.7	3 457.6	2 879.6	6 337.2	14 660.2	4 006.7	18 666.9
TREND ESTIMATES (\$m)									
2001									
Dec qtr	8 554.1	1 062.8	9 616.9	2 080.9	2 819.6	4 900.6	10 635.1	3 882.4	14 517.5
2002									
Mar qtr	9 173.8	1 077.4	10 251.2	2 422.9	2 737.0	5 159.9	11 596.7	3 814.5	15 411.1
Jun qtr	9 760.9	1 099.1	10 860.0	2 718.5	2 744.2	5 462.8	12 479.4	3 843.3	16 322.7
Sep qtr	10 303.0	1 121.4	11 424.3	2 938.0	2 824.2	5 762.1	13 241.0	3 945.6	17 186.4
Dec qtr	10 802.1	1 128.5	11 930.5	3 166.1	2 907.5	6 073.6	13 968.2	4 036.0	18 004.1
2003									
Mar qtr	11 257.6	1 123.3	12 381.2	3 442.4	2 947.8	6 390.3	14 700.1	4 071.1	18 771.4

(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.

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

Period	BUILDING WORK DONE(a).....			ENGINEERING WORK DONE.....			CONSTRUCTION WORK DONE(a).....		
	Private	Public	Total	Private	Public	Total	Private	Public	Total
ORIGINAL (% change from preceding period)									
1999-00	16.1	-0.6	14.0	-7.6	12.7	3.8	11.0	8.9	10.4
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
2001									
Dec qtr	8.7	1.0	7.8	-1.8	13.9	7.2	6.7	10.0	7.6
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	9.9	3.8	9.2	19.4	-18.1	-1.4	11.8	-12.3	5.6
Dec qtr	4.9	-5.4	3.8	11.2	16.6	13.7	6.2	9.6	7.0
2003									
Mar qtr	-8.2	-7.7	-8.1	-4.2	-8.3	-6.1	-7.3	-8.1	-7.5
SEASONALLY ADJUSTED (% change from preceding period)									
2001									
Dec qtr	8.3	0.4	7.3	-2.7	2.0	0.2	6.2	1.5	4.9
2002									
Mar qtr	6.4	-3.2	5.4	57.9	-7.5	17.3	15.2	-6.3	9.3
Jun qtr	6.2	4.4	6.0	-8.8	0.1	-4.5	2.7	1.3	2.3
Sep qtr	6.2	6.7	6.2	13.5	5.7	9.5	7.7	6.0	7.3
Dec qtr	4.9	-5.8	3.8	10.1	4.8	7.5	6.0	1.7	5.0
2003									
Mar qtr	3.3	2.6	3.3	8.0	-3.4	2.5	4.4	-1.8	3.0
TREND ESTIMATES (% change from preceding period)									
2001									
Dec qtr	7.6	—	6.7	15.5	-3.0	4.1	9.0	-2.2	5.8
2002									
Mar qtr	7.2	1.4	6.6	16.4	-2.9	5.3	9.0	-1.8	6.2
Jun qtr	6.4	2.0	5.9	12.2	0.3	5.9	7.6	0.8	5.9
Sep qtr	5.6	2.0	5.2	8.1	2.9	5.5	6.1	2.7	5.3
Dec qtr	4.8	0.6	4.4	7.8	3.0	5.4	5.5	2.3	4.8
2003									
Mar qtr	4.2	-0.5	3.8	8.7	1.4	5.2	5.2	0.9	4.3

(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	NEW RESIDENTIAL.....		ALTERATIONS AND ADDITIONS TO RESIDENTIAL BUILDING.....		TOTAL RESIDENTIAL.....		NON-RESIDENTIAL.....		TOTAL BUILDING(a).....	
	Private	Total	Private	Total	Private	Total	Private	Total	Private	Total
ORIGINAL (\$m)										
1999-00	23 980.5	24 471.7	4 300.9	4 430.3	28 282.4	28 903.4	11 201.7	14 995.9	39 412.0	43 770.4
2000-01	17 389.7	17 811.6	3 255.3	3 395.0	20 645.0	21 206.6	8 902.2	12 447.2	29 547.2	33 653.8
2001-02	21 481.8	21 941.8	3 894.7	4 060.3	25 376.6	26 002.1	9 483.9	13 134.9	34 860.5	39 137.0
2001										
Dec qtr	5 342.0	5 477.4	1 031.6	1 065.8	6 373.6	6 543.2	2 459.8	3 394.5	8 833.4	9 937.7
2002										
Mar qtr	5 177.2	5 283.3	873.9	911.7	6 051.1	6 195.0	2 283.3	3 091.5	8 334.4	9 286.5
Jun qtr	6 031.6	6 134.5	1 054.0	1 104.1	7 085.6	7 238.6	2 424.1	3 394.3	9 509.7	10 632.8
Sep qtr	6 441.1	6 546.0	1 109.8	1 142.3	7 550.9	7 688.3	2 798.9	3 813.5	10 349.8	11 501.8
Dec qtr	6 760.7	6 880.1	1 148.1	1 186.4	7 908.7	8 066.4	2 860.4	3 784.1	10 769.2	11 850.5
2003										
Mar qtr	6 181.1	6 275.6	1 019.4	1 060.6	7 200.5	7 336.2	2 576.7	3 427.3	9 777.1	10 763.6
SEASONALLY ADJUSTED (\$m)										
2001										
Dec qtr	5 212.2	5 341.5	962.0	1 004.2	6 174.2	6 345.7	2 334.5	3 243.6	8 508.6	9 589.3
2002										
Mar qtr	5 533.9	5 654.4	957.3	998.9	6 491.1	6 653.3	2 494.4	3 372.2	8 985.5	10 025.5
Jun qtr	5 962.2	6 068.2	1 054.3	1 093.5	7 016.5	7 161.7	2 435.0	3 366.5	9 451.5	10 528.1
Sep qtr	6 214.4	6 310.9	1 075.2	1 107.9	7 289.6	7 418.8	2 687.3	3 690.3	9 976.9	11 109.1
Dec qtr	6 619.1	6 732.1	1 088.3	1 136.6	7 707.3	7 868.7	2 677.2	3 574.6	10 384.5	11 443.3
2003										
Mar qtr	6 637.1	6 743.7	1 097.3	1 143.5	7 734.4	7 887.2	2 877.5	3 798.5	10 611.9	11 685.7
TREND ESTIMATES (\$m)										
2001										
Dec qtr	5 166.8	5 286.5	950.2	992.7	6 117.0	6 279.2	2 333.8	3 234.3	8 450.7	9 513.3
2002										
Mar qtr	5 570.6	5 688.6	988.8	1 029.1	6 559.4	6 717.7	2 430.9	3 343.2	8 990.3	10 060.9
Jun qtr	5 935.2	6 044.5	1 033.8	1 071.9	6 969.0	7 116.4	2 521.5	3 455.5	9 490.5	10 571.9
Sep qtr	6 253.0	6 357.2	1 070.6	1 109.5	7 322.9	7 466.2	2 617.5	3 566.3	9 939.6	11 033.9
Dec qtr	6 514.7	6 620.2	1 091.4	1 134.1	7 605.7	7 754.1	2 730.2	3 668.8	10 335.6	11 423.5
2003										
Mar qtr	6 713.8	6 822.6	1 096.3	1 144.1	7 812.9	7 969.1	2 844.9	3 752.5	10 666.2	11 713.2

(a) Reference year for chain volume measures is 2000-01. See paragraphs 30-33 of the Explanatory Notes.

Period	NEW RESIDENTIAL....		ALTERATIONS AND ADDITIONS TO RESIDENTIAL BUILDING.....		TOTAL RESIDENTIAL....		NON-RESIDENTIAL		TOTAL BUILDING.....	
	Private	Total	Private	Total	Private	Total	Private	Total	Private	Total
ORIGINAL (% change from preceding period)										
1999-00	18.3	17.3	13.2	13.2	17.5	16.7	-2.3	-2.4	10.6	8.8
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
2001										
Dec qtr	8.3	8.5	10.3	8.9	8.6	8.6	6.2	4.3	7.9	7.1
2002										
Mar qtr	-3.1	-3.5	-15.3	-14.5	-5.1	-5.3	-7.2	-8.9	-5.6	-6.6
Jun qtr	16.5	16.1	20.6	21.1	17.1	16.8	6.2	9.8	14.1	14.5
Sep qtr	6.8	6.7	5.3	3.5	6.6	6.2	15.5	12.4	8.8	8.2
Dec qtr	5.0	5.1	3.5	3.9	4.7	4.9	2.2	-0.8	4.1	3.0
2003										
Mar qtr	-8.6	-8.8	-11.2	-10.6	-9.0	-9.1	-9.9	-9.4	-9.2	-9.2
SEASONALLY ADJUSTED (% change from preceding quarter)										
2001										
Dec qtr	9.2	9.5	4.4	4.2	8.4	8.6	5.2	2.9	7.5	6.6
2002										
Mar qtr	6.2	5.9	-0.5	-0.5	5.1	4.8	6.8	4.0	5.6	4.5
Jun qtr	7.7	7.3	10.1	9.5	8.1	7.6	-2.4	-0.2	5.2	5.0
Sep qtr	4.2	4.0	2.0	1.3	3.9	3.6	10.4	9.6	5.6	5.5
Dec qtr	6.5	6.7	1.2	2.6	5.7	6.1	-0.4	-3.1	4.1	3.0
2003										
Mar qtr	0.3	0.2	0.8	0.6	0.4	0.2	7.5	6.3	2.2	2.1
TREND ESTIMATES (% change from preceding quarter)										
2001										
Dec qtr	9.2	9.2	3.5	3.3	8.3	8.2	3.4	2.1	6.9	6.1
2002										
Mar qtr	7.8	7.6	4.1	3.7	7.2	7.0	4.2	3.4	6.4	5.8
Jun qtr	6.5	6.3	4.6	4.2	6.2	5.9	3.7	3.4	5.6	5.1
Sep qtr	5.4	5.2	3.6	3.5	5.1	4.9	3.8	3.2	4.7	4.4
Dec qtr	4.2	4.1	1.9	2.2	3.9	3.9	4.3	2.9	4.0	3.5
2003										
Mar qtr	3.1	3.1	0.5	0.9	2.7	2.8	4.2	2.3	3.2	2.5

(a) Reference year for chain volume measures is 2000-01. See paragraphs 30-33 of the Explanatory Notes.

7

VALUE OF BUILDING WORK DONE, Current prices: **All series**

Period	NEW RESIDENTIAL(a)...		ALTERATIONS AND ADDITIONS TO RESIDENTIAL BUILDING(a).....		TOTAL RESIDENTIAL(a)...		NON-RESIDENTIAL.....		TOTAL BUILDING(a).....	
	Private	Total	Private	Total	Private	Total	Private	Total	Private	Total
ORIGINAL (\$m)										
1999-00	21 217.0	21 658.8	3 779.4	3 892.9	24 996.4	25 551.7	10 962.0	14 690.1	35 958.4	40 241.9
2000-01	17 389.7	17 811.5	3 255.3	3 395.0	20 645.0	21 206.6	8 902.2	12 447.2	29 547.2	33 653.8
2001-02	21 834.4	22 299.3	3 982.9	4 152.1	25 817.2	26 451.4	9 540.5	13 205.5	35 357.7	39 656.9
2001										
Dec qtr	5 402.9	5 539.2	1 051.4	1 086.1	6 454.3	6 625.3	2 462.9	3 396.5	8 917.2	10 021.8
2002										
Mar qtr	5 277.5	5 385.2	897.5	936.4	6 175.0	6 321.6	2 299.5	3 111.9	8 474.4	9 433.5
Jun qtr	6 205.0	6 310.6	1 090.3	1 142.1	7 295.3	7 452.7	2 464.2	3 448.3	9 759.5	10 901.0
Sep qtr	6 692.9	6 801.7	1 157.9	1 191.9	7 850.8	7 993.6	2 871.9	3 914.0	10 722.7	11 907.6
Dec qtr	7 081.3	7 206.7	1 207.6	1 247.9	8 288.9	8 454.5	2 954.6	3 909.5	11 243.5	12 364.0
2003										
Mar qtr	6 551.7	6 652.4	1 084.8	1 128.7	7 636.4	7 781.0	2 686.7	3 576.1	10 323.2	11 357.1
SEASONALLY ADJUSTED (\$m)										
2001										
Dec qtr	5 285.0	5 414.9	981.8	1 024.9	6 266.8	6 439.8	2 345.8	3 253.6	8 612.6	9 693.4
2002										
Mar qtr	5 660.1	5 782.2	984.0	1 027.1	6 644.1	6 809.2	2 521.9	3 403.1	9 166.0	10 212.3
Jun qtr	6 156.2	6 264.6	1 091.3	1 132.2	7 247.6	7 396.7	2 485.5	3 429.0	9 733.1	10 825.7
Sep qtr	6 452.4	6 552.8	1 124.6	1 157.9	7 577.1	7 710.7	2 758.4	3 790.6	10 335.5	11 501.3
Dec qtr	6 927.6	7 046.4	1 147.5	1 197.5	8 075.1	8 243.8	2 766.3	3 695.9	10 841.4	11 939.8
2003										
Mar qtr	7 030.6	7 144.3	1 170.5	1 218.9	8 201.1	8 363.2	3 001.5	3 966.5	11 202.6	12 329.7
TREND ESTIMATES (\$m)										
2001										
Dec qtr	5 239.0	5 359.2	968.7	1 012.1	6 207.7	6 371.3	2 346.5	3 245.6	8 554.1	9 616.9
2002										
Mar qtr	5 698.2	5 817.6	1 016.2	1 057.8	6 714.4	6 875.3	2 459.4	3 375.9	9 173.8	10 251.2
Jun qtr	6 120.0	6 231.9	1 071.2	1 110.6	7 191.2	7 342.4	2 569.7	3 517.5	9 760.9	10 860.0
Sep qtr	6 498.0	6 606.1	1 118.6	1 159.1	7 616.2	7 764.8	2 687.3	3 660.1	10 303.0	11 424.3
Dec qtr	6 827.1	6 938.1	1 151.5	1 195.9	7 978.4	8 133.9	2 824.0	3 797.0	10 802.1	11 930.5
2003										
Mar qtr	7 107.7	7 223.7	1 170.0	1 219.2	8 279.7	8 445.1	2 970.9	3 929.3	11 257.6	12 381.2

(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	NEW RESIDENTIAL(a)		ALTERATIONS AND ADDITIONS TO RESIDENTIAL BUILDING(a).....		TOTAL RESIDENTIAL(a)		NON-RESIDENTIAL		TOTAL BUILDING(a)..	
	Private	Total	Private	Total	Private	Total	Private	Total	Private	Total
ORIGINAL (% change from preceding period)										
1999-00	24.8	23.7	19.8	19.8	24.0	23.1	1.3	1.1	16.1	14.0
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
2001										
Dec qtr	9.2	9.4	11.4	10.0	9.5	9.5	6.4	4.5	8.7	7.8
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	16.5	13.5	9.9	9.2
Dec qtr	5.8	6.0	4.3	4.7	5.6	5.8	2.9	-0.1	4.9	3.8
2003										
Mar qtr	-7.5	-7.7	-10.2	-9.6	-7.9	-8.0	-9.1	-8.5	-8.2	-8.1
SEASONALLY ADJUSTED (% change from preceding quarter)										
2001										
Dec qtr	10.1	10.4	5.4	5.2	9.4	9.6	5.5	3.1	8.3	7.3
2002										
Mar qtr	7.1	6.8	0.2	0.2	6.0	5.7	7.5	4.6	6.4	5.4
Jun qtr	8.8	8.3	10.9	10.2	9.1	8.6	-1.4	0.8	6.2	6.0
Sep qtr	4.8	4.6	3.1	2.3	4.5	4.2	11.0	10.5	6.2	6.2
Dec qtr	7.4	7.5	2.0	3.4	6.6	6.9	0.3	-2.5	4.9	3.8
2003										
Mar qtr	1.5	1.4	2.0	1.8	1.6	1.4	8.5	7.3	3.3	3.3
TREND ESTIMATES (% change from preceding quarter)										
2001										
Dec qtr	10.1	10.0	4.2	4.1	9.1	9.0	3.7	2.4	7.6	6.7
2002										
Mar qtr	8.8	8.6	4.9	4.5	8.2	7.9	4.8	4.0	7.2	6.6
Jun qtr	7.4	7.1	5.4	5.0	7.1	6.8	4.5	4.2	6.4	5.9
Sep qtr	6.2	6.0	4.4	4.4	5.9	5.8	4.6	4.1	5.6	5.2
Dec qtr	5.1	5.0	2.9	3.2	4.8	4.8	5.1	3.7	4.8	4.4
2003										
Mar qtr	4.1	4.1	1.6	2.0	3.8	3.8	5.2	3.5	4.2	3.8

(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.

<i>Period</i>	<i>NSW</i>	<i>Vic.</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas.</i>	<i>NT</i>	<i>ACT</i>	<i>Aust.</i>
BUILDING WORK DONE(a) (\$m)									
1999-00	15 488.9	10 520.1	6 956.8	1 824.8	3 998.6	398.9	393.8	660.0	40 241.9
2000-01	11 222.2	10 210.0	5 962.2	1 630.9	3 395.8	340.6	313.8	578.4	33 653.8
2001-02	12 851.7	12 130.1	7 463.6	2 037.4	3 698.1	430.9	361.5	683.6	39 656.9
2001									
Dec qtr	3 333.3	2 966.9	1 791.6	527.7	993.1	113.1	101.7	194.4	10 021.8
2002									
Mar qtr	3 093.1	2 806.3	1 833.2	500.4	869.0	93.9	93.3	144.3	9 433.5
Jun qtr	3 536.6	3 429.3	2 059.2	558.7	915.7	133.6	82.0	185.9	10 901.0
Sep qtr	3 787.5	3 765.8	2 248.7	609.6	1 081.2	127.0	92.6	195.2	11 907.6
Dec qtr	4 227.3	3 596.0	2 322.7	613.9	1 124.2	133.1	111.7	235.0	12 364.0
2003									
Mar qtr	3 695.6	3 446.0	2 085.1	587.3	1 084.0	111.8	75.9	271.5	11 357.1
ENGINEERING WORK DONE (\$m)									
1999-00	6 231.0	3 451.0	5 221.4	1 424.8	2 775.4	254.0	276.8	273.0	19 907.5
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
2001									
Dec qtr	1 526.9	849.4	1 145.4	355.7	710.4	65.6	73.3	55.1	4 781.8
2002									
Mar qtr	1 163.4	852.5	1 027.7	369.8	701.2	157.3	800.7	47.5	5 120.2
Jun qtr	1 566.1	976.2	1 305.3	385.5	907.3	188.5	283.1	57.4	5 669.6
Sep qtr	1 383.2	977.1	1 347.5	316.5	1 015.8	109.9	389.1	49.3	5 588.5
Dec qtr	1 662.2	1 030.3	1 432.0	511.9	1 197.8	89.3	377.8	51.2	6 352.5
2003									
Mar qtr	1 605.5	1 011.9	1 414.5	436.9	1 118.9	81.2	241.9	53.9	5 964.6
CONSTRUCTION WORK DONE(a) (\$m)									
1999-00	21 719.9	13 971.0	12 178.2	3 249.6	6 774.0	652.9	670.6	933.1	60 149.4
2000-01	17 378.6	13 426.4	10 706.6	2 760.3	5 652.3	604.8	482.1	786.3	51 797.5
2001-02	18 449.3	15 519.2	12 091.2	3 454.8	6 817.4	884.7	1 588.2	883.5	59 688.2
2001									
Dec qtr	4 860.2	3 816.3	2 937.1	883.4	1 703.4	178.7	175.0	249.4	14 803.6
2002									
Mar qtr	4 256.5	3 658.8	2 860.9	870.2	1 570.2	251.2	894.0	191.9	14 553.7
Jun qtr	5 102.7	4 405.5	3 364.6	944.2	1 823.1	322.1	365.1	243.3	16 570.5
Sep qtr	5 170.7	4 742.8	3 596.3	926.1	2 097.0	237.0	481.7	244.5	17 496.1
Dec qtr	5 889.6	4 626.3	3 754.7	1 125.8	2 322.1	222.3	489.5	286.2	18 716.5
2003									
Mar qtr	5 301.0	4 457.8	3 499.6	1 024.2	2 202.9	193.0	317.8	325.4	17 321.7

(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

<i>Period</i>	<i>NSW</i>	<i>Vic.</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas.</i>	<i>NT</i>	<i>ACT</i>	<i>Aust.</i>
.....									
BUILDING WORK DONE(a) (% change from preceding period)									
1999-00	10.7	18.4	11.8	25.2	26.4	11.2	-29.7	1.8	14.0
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
2001									
Dec qtr	15.4	1.3	0.7	17.1	7.9	25.2	20.2	22.2	7.8
2002									
Mar qtr	-7.2	-5.4	2.3	-5.2	-12.5	-17.0	-8.2	-25.8	-5.9
Jun qtr	14.3	22.2	12.3	11.7	5.4	42.2	-12.1	28.8	15.6
Sep qtr	7.1	9.8	9.2	9.1	18.1	-4.9	12.9	5.0	9.2
Dec qtr	11.6	-4.5	3.3	0.7	4.0	4.8	20.7	20.4	3.8
2003									
Mar qtr	-12.6	-4.2	-10.2	-4.3	-3.6	-16.0	-32.0	15.5	-8.1
.....									
ENGINEERING WORK DONE (% change from preceding period)									
1999-00	11.3	-11.2	14.1	37.2	-16.0	-3.0	-20.7	59.4	3.8
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
2001									
Dec qtr	13.8	19.5	-0.3	16.1	-11.2	54.8	5.4	38.2	7.2
2002									
Mar qtr	-23.8	0.4	-10.3	3.9	-1.3	139.9	992.2	-13.6	7.1
Jun qtr	34.6	14.5	27.0	4.3	29.4	19.8	-64.6	20.8	10.7
Sep qtr	-11.7	0.1	3.2	-17.9	12.0	-41.7	37.5	-14.2	-1.4
Dec qtr	20.2	5.4	6.3	61.7	17.9	-18.8	-2.9	3.9	13.7
2003									
Mar qtr	-3.4	-1.8	-1.2	-14.7	-6.6	-9.0	-36.0	5.3	-6.1
.....									
CONSTRUCTION WORK DONE(a) (% change from preceding period)									
1999-00	10.9	9.4	12.8	30.2	4.7	5.2	-26.3	13.8	10.4
2000-01	-20.0	-3.9	-12.1	-15.1	-16.6	-7.4	-28.1	-15.7	-13.9
2001-02	6.2	15.6	12.9	25.2	20.6	46.3	229.5	12.4	15.2
2001									
Dec qtr	14.9	4.9	0.3	16.7	-1.0	34.6	13.5	25.4	7.6
2002									
Mar qtr	-12.4	-4.1	-2.6	-1.5	-7.8	40.6	411.0	-23.1	-1.7
Jun qtr	19.9	20.4	17.6	8.5	16.1	28.2	-59.2	26.8	13.9
Sep qtr	1.3	7.7	6.9	-1.9	15.0	-26.4	32.0	0.5	5.6
Dec qtr	13.9	-2.5	4.4	21.6	10.7	-6.2	1.6	17.1	7.0
2003									
Mar qtr	-10.0	-3.6	-6.8	-9.0	-5.1	-13.2	-35.1	13.7	-7.5

(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.

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 are from the quarterly Building Activity Survey and are based upon a response of approximately 85% of the value of work done during the current quarter. The estimates of engineering work done are from the quarterly Engineering Construction Survey and are based upon a response 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 buildings 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 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.

EXPLANATORY NOTES *continued*

SCOPE AND COVERAGE *continued*

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.

TREATMENT OF THE GST

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.

EXPLANATORY NOTES *continued*

TREATMENT OF THE GST *continued*

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

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.

EXPLANATORY NOTES *continued*

CLASSIFICATION: OWNERSHIP

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.

RELIABILITY OF THE ESTIMATES

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 March 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.

.....
Australia %

.....

New private residential building	1.0
Total private residential building	0.9
Private non-residential building	1.0
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	2.7
Total engineering	1.7

.....

.....

	<i>Total building</i>	<i>Total engineering</i>
States	%	%
NSW	1.1	2.5
Vic.	1.3	4.9
Qld	2.1	4.8
SA	1.5	3.8
WA	1.2	3.2
Tas.	1.6	5.9
NT	—	2.1
ACT	1.0	16.2

.....

EXPLANATORY NOTES *continued*

SEASONAL ADJUSTMENT

24 In the seasonally adjusted series, account has been taken of normal seasonal factors and the effect of movement in the date of Easter which may, in successive years, affect figures for different quarters.

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. In most instances, the seasonally adjusted components of a series add to the seasonally adjusted total. However, for Building Work Done, the 'Public' series shown in tables 1 and 3 has been seasonally adjusted independently. As a consequence, while the unadjusted components in the original series shown add to the totals, the adjusted 'Private' and 'Public' components of both 'Building Work Done' and 'Construction Work Done' may not add to the respective totals.

26 The seasonal factors are reviewed annually to take account of each additional year's data. The results of the latest review for Construction Work Done are reflected in the December quarter issue each year.

TREND ESTIMATES

27 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.

28 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.

29 While the smoothing technique described in paragraphs 27 and 28 enables trend estimates to be produced for recent quarters, it does result in revisions to the estimates for the most recent three quarters as additional observations become available. There may also be revisions because of changes in the original data and as a result of the re-estimation of the seasonal factors. For further information, see *Information Paper: A Guide to Interpreting Time Series — Monitoring Trends: an Overview* (cat. no. 1348.0) or contact the Assistant Director, Time Series Analysis on Canberra 02 6252 6076.

CHAIN VOLUME MEASURES

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

31 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'.

32 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 2000–2001). 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. 2000–2001). 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).

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

ACKNOWLEDGMENT

34 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

35 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.

36 Current publications and other products released by the ABS are listed in the *Catalogue of Publications and Products* (cat. no. 1101.0). The Catalogue is available from any ABS office or the ABS web site <<http://www.abs.gov.au>>. The ABS also issues a daily Release Advice on the web site which details products to be released in the week ahead.

ABS DATA AVAILABLE ON REQUEST

37 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.

EXPLANATORY NOTES *continued*

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.

FOR MORE INFORMATION...

- INTERNET* **www.abs.gov.au** the ABS web site is the best place to start for access to summary data from our latest publications, information about the ABS, advice about upcoming releases, our catalogue, and Australia Now—a statistical profile.
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