

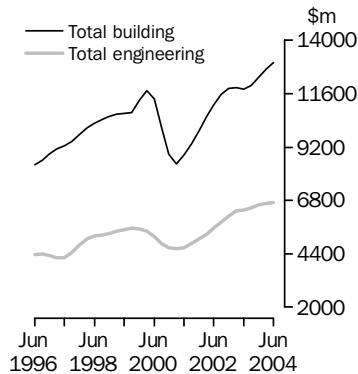
CONSTRUCTION WORK DONE AUSTRALIA
PRELIMINARY

EMBARGO: 11.30AM (CANBERRA TIME) WED 25 AUG 2004

KEY FIGURES

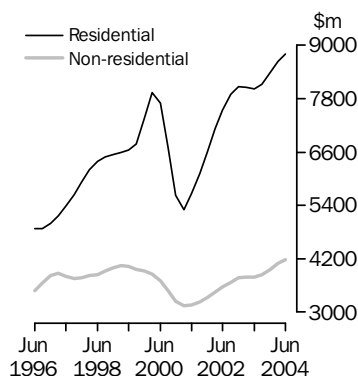
Value of construction work done

Volume terms
Trend estimates



Value of building work done

Volume terms
Trend estimates



INQUIRIES

- For further information about these and related statistics, contact the National Information and Referral Service on 1300 135 070 or David Finlay on Adelaide (08) 8237 7431.

	<i>Jun qtr 04</i>	<i>Mar qtr 04 to Jun qtr 04</i>	<i>Jun qtr 03 to Jun qtr 04</i>
	<i>\$m</i>	<i>% change</i>	<i>% change</i>
TREND ESTIMATES (a)			
Value of work done			
Building	13 005.0	2.2	10.1
Residential	8 800.7	1.9	9.7
Non-residential	4 185.9	2.3	10.3
Engineering	6 713.0	0.4	5.5
Total construction	19 731.1	1.7	8.5

SEASONALLY ADJUSTED ESTIMATES (a)

Value of work done			
Building	12 888.3	0.8	10.8
Residential	8 716.8	0.2	11.3
Non-residential	4 171.5	1.9	9.7
Engineering	6 571.5	-3.4	2.4
Total construction	19 459.8	-0.7	7.8

(a) Reference year for Chain Volume Measures is 2002-2003.

KEY POINTS

VALUE OF CONSTRUCTION WORK DONE, VOLUME TERMS

TREND ESTIMATES

- The trend estimate of building work done rose 2.2% in the June quarter 2004. There was continued growth in both residential (+1.9%) and non-residential building (+2.3%).
- Engineering work done rose by 0.4% in the latest quarter, the thirteenth successive quarterly increase. Total construction rose by 1.7%.

SEASONALLY ADJUSTED ESTIMATES

- The seasonally adjusted estimate of building work done rose by 0.8% in the June quarter to \$12,888.3m, the highest level on record. Residential building rose 0.2% to \$8,716.8m, with new residential work up marginally to \$7,372.2m. Both series recorded their second highest levels on record. Non-residential building rose 1.9% to \$4,171.5m, the highest level recorded since the December quarter 1990.
- Engineering work done fell 3.4%, to \$6,571.5m. Work done for the private sector fell by 6.3%, to \$3,725.0m, while work for the public sector rose 0.8%, to \$2,846.5m.
- Total construction work fell 0.7% to \$19,459.8m.

NOTES

FORTHCOMING ISSUES

<i>ISSUE (Quarter)</i>	<i>RELEASE DATE</i>
September 2004	24 November 2004
December 2004	23 February 2005



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 13 October 2004 and in *Engineering Construction Activity, Australia* (cat. no. 8762.0) on 12 October 2004.

CHANGES IN THIS ISSUE

A new base year, 2002-03, has been introduced into the chain volume estimates which has resulted in revisions to growth rates in subsequent periods.

In addition, the chain volume estimates have been re-referenced to 2002-03, thereby preserving additivity in the quarters after the reference year. Re-referencing affects the levels of, but not the movements in, chain volume estimates.

A feature article, 'Work in the pipeline', is included on pages 5-7. Updated data on this topic will also be included in future issues of this publication.

The AusStats series contains two new tables (13 and 14) showing state and territory Construction Work Done in Chain Volume Measures for original, seasonally adjusted and trend data.



ABBREVIATIONS

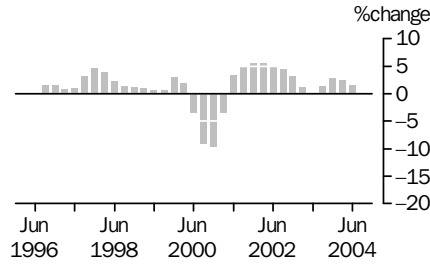
ABN	Australian Business Number
ABS	Australian Bureau of Statistics
ANZSIC	Australian and New Zealand Standard Industrial Classification
ATO	Australian Taxation Office
GST	Goods and Services Tax
qtr	quarter
TAU	type of activity unit
VAT	value added tax

Dennis Trewin
Australian Statistician

CONSTRUCTION WORK DONE CHAIN VOLUME MEASURES

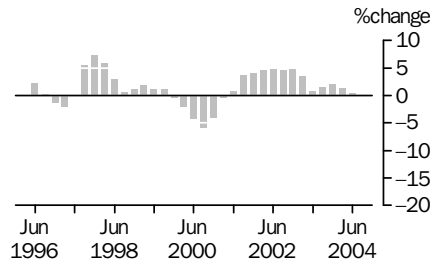
TREND PERCENTAGE CHANGE

TOTAL CONSTRUCTION



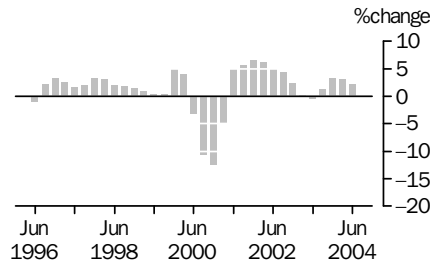
The total value of construction work done has increased each quarter for the last three years, with the exception of the June quarter 2003.

ENGINEERING



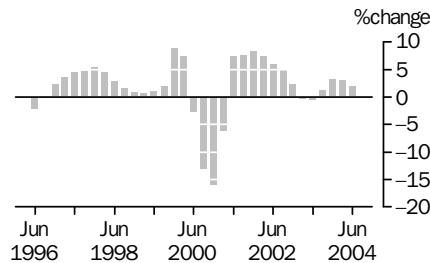
Engineering construction work done has increased for thirteen successive quarters.

BUILDING



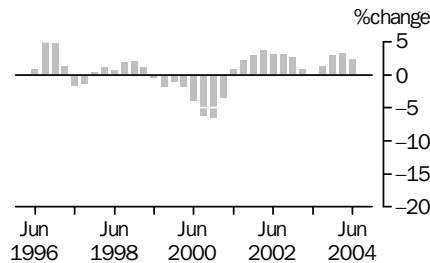
Total building work done has increased for the last four quarters, following a small decline in the June quarter 2003.

Residential



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

Non-residential

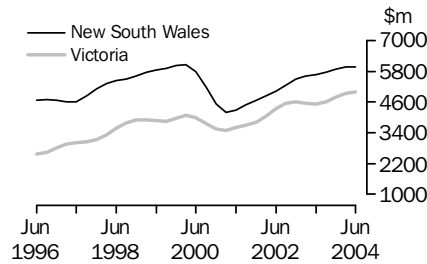


Non-residential building work has increased for the last four quarters, following a small decline in the June quarter 2003.

CONSTRUCTION WORK DONE STATES AND TERRITORIES

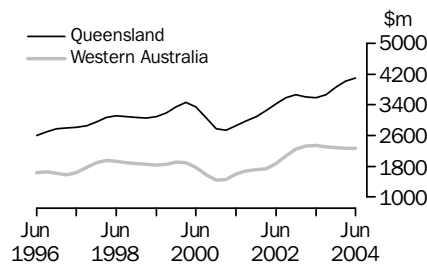
CHAIN VOLUME MEASURES—TREND ESTIMATES

NEW SOUTH WALES
VICTORIA



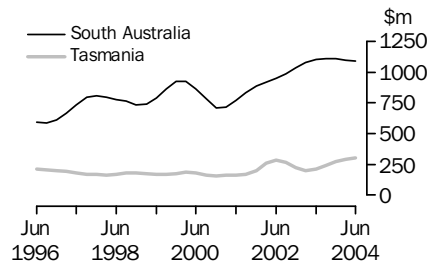
The strong growth in construction work done, evident since early 2001, has eased over recent quarters in both New South Wales and Victoria.

QUEENSLAND
WESTERN AUSTRALIA



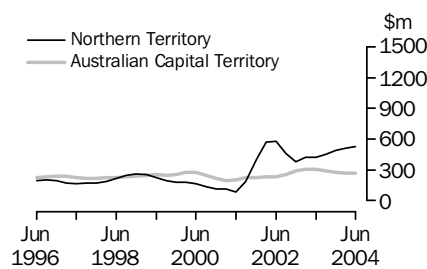
Construction work done has risen strongly in Queensland since early 2001, with growth in the last five quarters dominated by building work. In Western Australia, while both sectors were strong in 2002-03, total construction work has been flat for the last five quarters.

SOUTH AUSTRALIA
TASMANIA



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

NORTHERN TERRITORY
AUSTRALIAN CAPITAL
TERRITORY



Construction work done in the Northern Territory has risen over the last six quarters driven mainly by the engineering sector. In the Australian Capital Territory, the fall over the last five quarters has been due to declines in both sectors.

FEATURE ARTICLE

WORK IN THE PIPELINE

The main purpose of the Building Activity Survey is to measure the value of building work done on a quarterly basis. The collection is a sample survey of approved building work. Another output available from the survey is a measure of the value of building work that has been approved, but as yet, has not been undertaken. This is often referred to as 'work in the pipeline'.

Work in the pipeline has two components. Firstly, there is an estimate of the amount of building work still to be done on projects that have already commenced. This is referred to as 'work yet to be done' and is defined as the difference between the anticipated completion value of the project and the estimated value of work already done up to the end of the reference period.

The second component is the building work that has been approved, but had not commenced by the end of the reference period. This is referred to as 'work approved but not yet commenced' and is defined as the anticipated completion value of the project, or if that is not known, the approval value. For residential building, 'work approved but not yet commenced' also provides a measure of the number of dwellings that have been approved, but have not commenced by the end of the reference period. Information on 'work in the pipeline' is available from the June quarter 2003.

1. WORK IN THE PIPELINE

	<i>New houses</i>	<i>New other residential building</i>	<i>New residential building</i>	<i>Alterations and additions to residential building</i>	<i>Total residential building</i>	<i>Non-residential building</i>	<i>Total building</i>
	\$m	\$m	\$m	\$m	\$m	\$m	\$m
WORK YET TO BE DONE AT END OF QUARTER							
2003							
June	4 807.2	6 670.8	11 478.0	1 221.5	12 699.5	8 209.2	20 908.7
September	5 537.6	6 507.4	12 045.0	1 347.9	13 392.9	8 154.6	21 547.5
December	5 958.3	6 949.6	12 907.9	1 355.0	14 262.9	8 462.1	22 725.0
2004							
March	6 178.2	6 839.6	13 017.7	1 374.9	14 392.7	9 052.1	23 444.8
June	6 409.3	7 094.3	13 443.6	1 428.6	14 941.4	8 870.2	23 811.6
WORK APPROVED BUT NOT YET COMMENCED AT END OF QUARTER							
2003							
June	2 229.1	1 084.1	3 313.2	807.9	4 121.1	1 774.9	5 896.0
September	2 333.1	1 174.0	3 507.1	824.4	4 331.5	1 822.4	6 153.9
December	2 498.2	1 370.5	3 868.7	903.4	4 772.1	1 678.8	6 450.9
2004							
March	2 425.1	1 523.7	3 948.7	879.6	4 828.3	1 575.6	6 403.9
June	2 371.6	1 648.3	4 019.9	865.5	4 885.4	1 555.4	6 440.9
WORK IN THE PIPELINE AT END OF QUARTER							
2003							
June	7 036.3	7 754.9	14 791.2	2 029.4	16 820.6	9 984.1	26 804.7
September	7 870.7	7 681.4	15 552.1	2 172.3	17 724.4	9 977.0	27 701.4
December	8 456.5	8 320.1	16 776.6	2 258.4	19 035.0	10 140.9	29 175.9
2004							
March	8 603.3	8 363.3	16 966.4	2 254.5	19 221.0	10 627.7	29 848.7
June	8 780.9	8 742.6	17 463.5	2 294.1	19 826.8	10 425.6	30 252.5

FEATURE ARTICLE *continued*

WORK IN THE PIPELINE *continued*

Table 1 provides estimates of the value of building work in the pipeline for Australia. When considering this information the following should be taken into account:

- values are in current prices;
- the anticipated completion value is often revised upwards in future quarters as a result of price increases and/or changes in specifications;
- some approvals may not proceed to commencement;
- the approval value is not always an accurate indication of the completion value; and
- the data are not seasonally adjusted.

The table shows that the value of new residential work in the pipeline continued to rise in the June quarter 2004 for both houses and other residential building. However, the value of approval of new houses that have not yet commenced has fallen over the last two quarters, whereas other residential building is still rising strongly. This latter point is also evident in table 2. Non-residential work in the pipeline fell in the June quarter, after rising in the previous two quarters.

2. NUMBER OF DWELLINGS APPROVED BUT NOT YET COMMENCED AT END OF QUARTER

	<i>New houses</i>	<i>New other residential building</i>	<i>Conversions</i>	<i>Total dwellings</i>
2003				
June	13 185	7 294	541	21 020
September	13 641	7 579	471	21 691
December	14 146	8 978	554	23 679
2004				
March	13 409	9 399	572	23 380
June	12 897	10 178	687	23 761

The number of dwellings yet to be commenced rose sharply in the December quarter 2003 and has remained close to that level for the last two quarters. However, a fall in houses has been matched by a rise in other residential buildings.

3. NUMBER OF DWELLINGS APPROVED BUT NOT YET COMMENCED AT END OF QUARTER, by States

	<u>NSW</u>		<u>VIC.</u>		<u>QLD</u>	
	<i>New houses</i>	<i>New other residential building</i>	<i>New houses</i>	<i>New other residential building</i>	<i>New houses</i>	<i>New other residential building</i>
2003						
June	4 549	4 565	3 668	1 102	1 844	869
September	4 735	4 364	3 394	1 226	1 615	1 174
December	4 766	5 580	3 328	1 530	1 698	1 125
2004						
March	4 733	5 455	2 813	2 025	1 678	877
June	4 745	5 811	2 280	2 418	1 471	795

FEATURE ARTICLE *continued*

WORK IN THE PIPELINE *continued*

In New South Wales new houses and other residential buildings not yet commenced have remained relatively constant, in contrast to Victoria where there has been a sharp rise in other residential buildings and a fall in houses. In Queensland there have been falls in both types of dwellings.

4. NUMBER OF DWELLINGS APPROVED BUT NOT YET COMMENCED AT END OF QUARTER, by States and territories

	SA		WA		TAS., NT & ACT	
	New houses	Other residential building	New houses	Other residential building	New houses	Other residential building
2003						
June	1 149	362	1 654	382	321	14
September	1 330	396	2 191	369	376	50
December	1 370	475	2 582	174	403	95
2004						
March	1 605	709	2 252	298	328	35
June	1 572	630	2 421	360	408	164

Table 4 shows data for the remaining states. Separate data is not available for Tasmania, the Northern Territory and the Australian Capital Territory.

Updated data on this topic will be included in future issues of this publication.

For more information about these statistics contact Jeff Allen on 08 8237 7302.

LIST OF TABLES

page

TABLES

1	Construction work done, chain volume measures	10
2	Construction work done, chain volume measures, change from previous period	11
3	Construction work done, current prices	12
4	Construction work done, current prices, change from previous period	13
5	Value of building work done, chain volume measures	14
6	Value of building work done, chain volume measures, change from previous period	15
7	Value of building work done, current prices	16
8	Value of building work done, current prices, change from previous period	17
9	Construction work done, states and territories, chain volume measures, original	18
10	Construction work done, states and territories, chain volume measures, change from previous period, original	19
11	Construction work done, states and territories, current prices, original	20
12	Construction work done, states and territories, current prices, change from previous period, original	21

CONSTRUCTION WORK DONE, Chain volume measures(a)

Period	BUILDING WORK DONE			ENGINEERING WORK DONE			CONSTRUCTION WORK DONE		
	Private	Public	Total	Private	Public	Total	Private	Public	Total
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
ORIGINAL									
2001-02	36 633.1	4 429.9	41 065.1	9 179.1	11 420.9	20 610.3	45 800.4	15 849.5	61 669.6
2002-03	42 835.9	4 248.2	47 084.1	13 283.0	11 446.7	24 729.7	56 118.9	15 695.0	71 813.9
2003-04	45 896.2	4 085.7	49 981.9	15 247.7	11 078.2	26 325.9	61 143.9	15 163.9	76 307.8
2003									
Mar Qtr	10 204.1	941.6	11 145.6	3 297.9	2 627.5	5 924.9	13 502.9	3 569.2	17 071.6
Jun Qtr	10 559.4	1 014.0	11 573.5	3 596.3	3 228.5	6 825.2	14 157.2	4 243.4	18 403.0
Sep Qtr	11 256.8	1 026.4	12 283.2	3 710.2	2 430.4	6 140.6	14 966.9	3 456.8	18 423.8
Dec Qtr	11 892.7	1 058.1	12 950.7	4 092.8	2 739.8	6 832.6	15 985.4	3 797.9	19 783.4
2004									
Mar Qtr	10 977.7	955.8	11 933.5	3 722.4	2 651.0	6 373.4	14 700.1	3 606.9	18 307.0
Jun Qtr	11 769.1	1 045.4	12 814.5	3 722.3	3 257.0	6 979.3	15 491.5	4 302.3	19 793.8
SEASONALLY ADJUSTED									
2003									
Mar Qtr	11 029.1	1 056.0	12 085.6	3 534.9	2 785.2	6 319.2	14 564.8	3 840.0	18 404.7
Jun Qtr	10 648.6	987.9	11 637.2	3 606.9	2 814.9	6 420.6	14 257.2	3 805.3	18 060.0
Sep Qtr	10 822.0	968.4	11 790.8	3 586.0	2 694.8	6 280.7	14 408.0	3 663.2	18 071.5
Dec Qtr	11 478.8	1 035.6	12 514.5	3 960.6	2 712.4	6 673.0	15 439.4	3 748.0	19 187.5
2004									
Mar Qtr	11 725.1	1 063.3	12 788.3	3 976.2	2 824.5	6 800.7	15 701.3	3 887.8	19 589.0
Jun Qtr	11 870.3	1 018.4	12 888.3	3 725.0	2 846.5	6 571.5	15 595.3	3 864.9	19 459.8
TREND									
2003									
Mar Qtr	10 810.5	1 046.1	11 857.0	3 463.4	2 853.1	6 315.8	14 274.6	3 899.3	18 173.5
Jun Qtr	10 812.8	1 001.3	11 814.7	3 597.1	2 768.1	6 364.4	14 410.9	3 770.1	18 180.0
Sep Qtr	10 973.9	993.4	11 967.8	3 735.0	2 724.0	6 458.5	14 709.4	3 718.1	18 426.9
Dec Qtr	11 325.4	1 019.3	12 344.8	3 845.6	2 744.3	6 590.1	15 170.6	3 763.7	18 933.8
2004									
Mar Qtr	11 686.9	1 040.2	12 726.7	3 893.3	2 790.3	6 683.6	15 579.9	3 830.3	19 409.7
Jun Qtr	11 958.0	1 042.7	13 005.0	3 870.1	2 835.7	6 713.0	15 830.9	3 881.3	19 731.1

(a) Chain volume measures, reference year 2002-03. See paragraphs 25-28 of the Explanatory Notes.

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

Period	BUILDING WORK DONE			ENGINEERING WORK DONE			CONSTRUCTION WORK DONE		
	Private	Public	Total	Private	Public	Total	Private	Public	Total
	%	%	%	%	%	%	%	%	%
ORIGINAL									
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
2003-04	7.1	-3.8	6.2	14.8	-3.2	6.5	9.0	-3.4	6.3
2003									
Mar Qtr	-8.7	-16.4	-9.4	-1.3	-12.1	-6.4	-7.0	-13.2	-8.4
Jun Qtr	3.5	7.7	3.8	9.0	22.9	15.2	4.8	18.9	7.8
Sep Qtr	6.6	1.2	6.1	3.2	-24.7	-10.0	5.7	-18.5	0.1
Dec Qtr	5.6	3.1	5.4	10.3	12.7	11.3	6.8	9.9	7.4
2004									
Mar Qtr	-7.7	-9.7	-7.9	-9.0	-3.2	-6.7	-8.0	-5.0	-7.5
Jun Qtr	7.2	9.4	7.4	—	22.9	9.5	5.4	19.3	8.1
SEASONALLY ADJUSTED									
2003									
Mar Qtr	2.9	-4.8	2.2	9.5	-5.8	2.2	4.5	-5.5	2.2
Jun Qtr	-3.5	-6.4	-3.7	2.0	1.1	1.6	-2.1	-0.9	-1.9
Sep Qtr	1.6	-2.0	1.3	-0.6	-4.3	-2.2	1.1	-3.7	0.1
Dec Qtr	6.1	6.9	6.1	10.4	0.7	6.2	7.2	2.3	6.2
2004									
Mar Qtr	2.1	2.7	2.2	0.4	4.1	1.9	1.7	3.7	2.1
Jun Qtr	1.2	-4.2	0.8	-6.3	0.8	-3.4	-0.7	-0.6	-0.7
TREND									
2003									
Mar Qtr	0.5	-4.2	0.1	8.0	-1.3	3.6	2.3	-2.1	1.3
Jun Qtr	—	-4.3	-0.4	3.9	-3.0	0.8	1.0	-3.3	—
Sep Qtr	1.5	-0.8	1.3	3.8	-1.6	1.5	2.1	-1.4	1.4
Dec Qtr	3.2	2.6	3.2	3.0	0.7	2.0	3.1	1.2	2.8
2004									
Mar Qtr	3.2	2.0	3.1	1.2	1.7	1.4	2.7	1.8	2.5
Jun Qtr	2.3	0.2	2.2	-0.6	1.6	0.4	1.6	1.3	1.7

— nil or rounded to zero (including null cells)

(a) Chain volume measures, reference year 2002-03. See paragraphs 25-28 of the Explanatory Notes.

CONSTRUCTION WORK DONE, Current prices

Period	BUILDING WORK DONE(a)			ENGINEERING WORK DONE			CONSTRUCTION WORK DONE(a)		
	Private	Public	Total	Private	Public	Total	Private	Public	Total
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
ORIGINAL									
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
2003-04	49 298.7	4 384.1	53 682.8	15 717.6	11 483.5	27 201.1	65 016.3	15 867.6	80 883.9
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	3 766.8	2 476.1	6 242.8	15 522.1	3 544.0	19 066.0
Dec Qtr	12 643.8	1 121.3	13 765.1	4 176.2	2 815.8	6 992.0	16 820.0	3 937.1	20 757.1
2004									
Mar Qtr	11 889.1	1 035.7	12 924.8	3 838.1	2 762.8	6 600.9	15 727.1	3 798.5	19 525.6
Jun Qtr	13 010.5	1 159.3	14 169.8	3 936.6	3 428.8	7 365.4	16 947.1	4 588.1	21 535.2
SEASONALLY ADJUSTED									
2003									
Mar Qtr	11 062.5	1 057.0	12 119.5	3 537.9	2 796.5	6 334.4	14 600.4	3 853.5	18 453.9
Jun Qtr	10 875.1	1 004.7	11 879.8	3 670.6	2 844.6	6 515.2	14 545.7	3 849.3	18 395.0
Sep Qtr	11 297.6	1 007.9	12 305.5	3 652.5	2 743.6	6 396.1	14 950.0	3 751.6	18 701.6
Dec Qtr	12 202.6	1 100.1	13 302.8	4 056.9	2 786.6	6 843.5	16 259.6	3 886.7	20 146.3
2004									
Mar Qtr	12 697.6	1 156.7	13 854.3	4 117.4	2 942.2	7 059.6	16 815.0	4 098.9	20 913.9
Jun Qtr	13 122.7	1 134.8	14 257.5	3 957.2	2 997.1	6 954.3	17 079.9	4 131.9	21 211.8
TREND									
2003									
Mar Qtr	10 857.9	1 047.9	11 905.8	3 481.4	2 861.8	6 343.2	14 339.3	3 909.7	18 249.0
Jun Qtr	11 045.0	1 018.7	12 063.7	3 641.7	2 796.6	6 438.3	14 686.7	3 815.3	18 502.0
Sep Qtr	11 439.2	1 032.7	12 472.0	3 804.5	2 774.1	6 578.7	15 243.8	3 806.9	19 050.7
Dec Qtr	12 047.1	1 084.7	13 131.7	3 949.8	2 823.8	6 773.6	15 997.0	3 908.5	19 905.3
2004									
Mar Qtr	12 667.7	1 131.6	13 799.2	4 046.0	2 904.1	6 950.1	16 713.7	4 035.7	20 749.3
Jun Qtr	13 211.7	1 161.9	14 376.9	4 078.4	2 993.4	7 071.8	17 290.1	4 155.3	21 448.7

(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.

CONSTRUCTION WORK DONE, Current prices—Change from previous period

Period	BUILDING WORK DONE(a)			ENGINEERING WORK DONE			CONSTRUCTION WORK DONE(a)		
	Private	Public	Total	Private	Public	Total	Private	Public	Total
	%	%	%	%	%	%	%	%	%
ORIGINAL									
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
2003-04	15.1	3.2	14.0	18.3	0.3	10.0	15.9	1.1	12.6
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	3.2	-24.1	-9.7	7.5	-17.5	1.8
Dec Qtr	7.6	5.0	7.3	10.9	13.7	12.0	8.4	11.1	8.9
2004									
Mar Qtr	-6.0	-7.6	-6.1	-8.1	-1.9	-5.6	-6.5	-3.5	-5.9
Jun Qtr	9.4	11.9	9.6	2.6	24.1	11.6	7.8	20.8	10.3
SEASONALLY ADJUSTED									
2003									
Mar Qtr	4.0	-4.0	3.2	9.8	-4.9	2.8	5.3	-4.7	3.1
Jun Qtr	-1.7	-4.9	-2.0	3.8	1.7	2.9	-0.4	-0.1	-0.3
Sep Qtr	3.9	0.3	3.6	-0.5	-3.5	-1.8	2.8	-2.5	1.7
Dec Qtr	8.0	9.1	8.1	11.1	1.6	7.0	8.8	3.6	7.7
2004									
Mar Qtr	4.1	5.1	4.1	1.5	5.6	3.2	3.4	5.5	3.8
Jun Qtr	3.3	-1.9	2.9	-3.9	1.9	-1.5	1.6	0.8	1.4
TREND									
2003									
Mar Qtr	1.7	-3.4	1.2	7.1	-0.6	3.5	3.0	-1.4	2.0
Jun Qtr	1.7	-2.8	1.3	4.6	-2.3	1.5	2.4	-2.4	1.4
Sep Qtr	3.6	1.4	3.4	4.5	-0.8	2.2	3.8	-0.2	3.0
Dec Qtr	5.3	5.0	5.3	3.8	1.8	3.0	4.9	2.7	4.5
2004									
Mar Qtr	5.2	4.3	5.1	2.4	2.8	2.6	4.5	3.3	4.2
Jun Qtr	4.3	2.7	4.2	0.8	3.1	1.8	3.4	3.0	3.4

(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.

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

Period	NEW RESIDENTIAL BUILDING		ALTERATIONS AND ADDITIONS		RESIDENTIAL BUILDING		NON-RESIDENTIAL BUILDING		TOTAL BUILDING(a)	
	Private	Total	Private	Total	Private	Total	Private	Total	Private	Total
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
ORIGINAL										
2001-02	22 717.0	23 201.7	4 101.6	4 277.7	26 819.2	27 480.1	9 813.9	13 582.4	36 633.1	41 065.1
2002-03	26 776.0	27 224.6	4 578.2	4 761.8	31 354.2	31 986.4	11 481.8	15 097.8	42 835.9	47 084.1
2003-04	28 160.0	28 645.0	5 153.5	5 306.0	33 313.4	33 951.1	12 582.8	16 030.8	45 896.2	49 981.9
2003										
Mar Qtr	6 442.3	6 541.0	1 072.4	1 118.9	7 514.6	7 659.7	2 689.7	3 486.2	10 204.1	11 145.6
Jun Qtr	6 520.0	6 632.3	1 144.0	1 205.8	7 664.0	7 838.2	2 894.9	3 734.9	10 559.4	11 573.5
Sep Qtr	6 873.7	7 008.9	1 270.8	1 313.3	8 144.5	8 322.2	3 112.3	3 961.0	11 256.8	12 283.2
Dec Qtr	7 221.2	7 351.2	1 367.6	1 399.1	8 588.7	8 750.3	3 303.9	4 200.5	11 892.7	12 950.7
2004										
Mar Qtr	6 827.7	6 934.8	1 195.4	1 231.2	8 023.1	8 166.0	2 954.6	3 767.5	10 977.7	11 933.5
Jun Qtr	7 237.4	7 350.1	1 319.7	1 362.4	8 557.2	8 712.5	3 211.9	4 101.9	11 769.1	12 814.5
SEASONALLY ADJUSTED										
2003										
Mar Qtr	6 899.5	7 009.7	1 169.7	1 218.7	8 069.0	8 228.3	2 959.8	3 856.9	11 029.1	12 085.6
Jun Qtr	6 525.8	6 644.0	1 140.0	1 188.5	7 665.8	7 832.4	2 982.1	3 804.1	10 648.6	11 637.2
Sep Qtr	6 643.6	6 770.5	1 251.2	1 295.6	7 894.9	8 066.1	2 927.1	3 724.7	10 822.0	11 790.8
Dec Qtr	7 021.1	7 139.1	1 295.2	1 333.6	8 316.3	8 472.7	3 162.5	4 041.8	11 478.8	12 514.5
2004										
Mar Qtr	7 243.0	7 363.3	1 295.2	1 332.3	8 538.3	8 695.6	3 186.8	4 092.8	11 725.1	12 788.3
Jun Qtr	7 252.2	7 372.2	1 311.8	1 344.6	8 564.0	8 716.8	3 306.3	4 171.5	11 870.3	12 888.3
TREND										
2003										
Mar Qtr	6 745.3	6 859.4	1 150.5	1 199.7	7 895.7	8 059.0	2 914.4	3 797.6	10 810.5	11 857.0
Jun Qtr	6 669.9	6 788.8	1 181.9	1 230.2	7 851.7	8 018.9	2 960.7	3 795.3	10 812.8	11 814.7
Sep Qtr	6 726.1	6 847.5	1 232.4	1 276.3	7 958.5	8 123.8	3 015.2	3 843.7	10 973.9	11 967.8
Dec Qtr	6 947.8	7 069.3	1 278.1	1 318.0	8 225.4	8 386.8	3 100.4	3 959.1	11 325.4	12 344.8
2004										
Mar Qtr	7 176.0	7 296.0	1 304.7	1 340.9	8 480.4	8 636.7	3 206.7	4 090.9	11 686.9	12 726.7
Jun Qtr	7 335.0	7 453.8	1 311.4	1 344.9	8 648.8	8 800.7	3 301.9	4 185.9	11 958.0	13 005.0

(a) Chain volume measures, reference year 2002-03. See paragraphs 25-28 of the Explanatory Notes.

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

Period	NEW RESIDENTIAL BUILDING		ALTERATIONS AND ADDITIONS		RESIDENTIAL BUILDING		NON-RESIDENTIAL BUILDING		TOTAL BUILDING	
	Private	Total	Private	Total	Private	Total	Private	Total	Private	Total
	%	%	%	%	%	%	%	%	%	%
ORIGINAL										
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
2003-04	5.2	5.2	12.6	11.4	6.2	6.1	9.6	6.2	7.1	6.2
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	7.5	6.1	6.6	6.1
Dec Qtr	5.1	4.9	7.6	6.5	5.5	5.1	6.2	6.0	5.6	5.4
2004										
Mar Qtr	-5.4	-5.7	-12.6	-12.0	-6.6	-6.7	-10.6	-10.3	-7.7	-7.9
Jun Qtr	6.0	6.0	10.4	10.7	6.7	6.7	8.7	8.9	7.2	7.4
SEASONALLY ADJUSTED										
2003										
Mar Qtr	1.7	1.6	2.7	2.5	1.8	1.7	6.0	3.3	2.9	2.2
Jun Qtr	-5.4	-5.2	-2.5	-2.5	-5.0	-4.8	0.8	-1.4	-3.5	-3.7
Sep Qtr	1.8	1.9	9.8	9.0	3.0	3.0	-1.8	-2.1	1.6	1.3
Dec Qtr	5.7	5.4	3.5	2.9	5.3	5.0	8.0	8.5	6.1	6.1
2004										
Mar Qtr	3.2	3.1	—	-0.1	2.7	2.6	0.8	1.3	2.1	2.2
Jun Qtr	0.1	0.1	1.3	0.9	0.3	0.2	3.8	1.9	1.2	0.8
TREND										
2003										
Mar Qtr	-0.5	-0.4	0.6	0.8	-0.3	-0.2	2.9	0.8	0.5	0.1
Jun Qtr	-1.1	-1.0	2.7	2.5	-0.6	-0.5	1.6	-0.1	—	-0.4
Sep Qtr	0.8	0.9	4.3	3.7	1.4	1.3	1.8	1.3	1.5	1.3
Dec Qtr	3.3	3.2	3.7	3.3	3.4	3.2	2.8	3.0	3.2	3.2
2004										
Mar Qtr	3.3	3.2	2.1	1.7	3.1	3.0	3.4	3.3	3.2	3.1
Jun Qtr	2.2	2.2	0.5	0.3	2.0	1.9	3.0	2.3	2.3	2.2

— nil or rounded to zero (including null cells)

(a) Chain volume measures, reference year 2002-03. See paragraphs 25-28 of the Explanatory Notes.

VALUE OF BUILDING WORK DONE, Current prices

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
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
ORIGINAL										
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
2003-04	30 309.6	30 830.5	5 459.9	5 622.3	35 769.6	36 452.8	13 529.1	17 230.0	49 298.7	53 682.8
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	7 698.5	7 836.8	1 441.1	1 474.4	9 139.6	9 311.2	3 504.2	4 453.9	12 643.8	13 765.1
2004										
Mar Qtr	7 408.2	7 524.5	1 272.9	1 311.3	8 681.1	8 835.9	3 208.0	4 088.9	11 889.1	12 924.8
Jun Qtr	8 005.9	8 130.5	1 426.5	1 472.9	9 432.4	9 603.4	3 578.2	4 566.4	13 010.5	14 169.8
SEASONALLY ADJUSTED										
2003										
Mar Qtr	6 923.3	7 034.1	1 171.4	1 220.1	8 094.7	8 254.3	2 967.8	3 865.2	11 062.5	12 119.5
Jun Qtr	6 679.2	6 800.1	1 161.5	1 210.9	7 840.7	8 011.0	3 034.4	3 868.8	10 875.1	11 879.8
Sep Qtr	6 955.3	7 088.2	1 298.0	1 344.3	8 253.3	8 432.6	3 044.3	3 872.9	11 297.6	12 305.5
Dec Qtr	7 484.4	7 609.9	1 364.6	1 405.5	8 848.9	9 015.4	3 353.7	4 287.4	12 202.6	13 302.8
2004										
Mar Qtr	7 857.3	7 987.9	1 379.5	1 419.8	9 236.9	9 407.7	3 460.7	4 446.5	12 697.6	13 854.3
Jun Qtr	8 019.5	8 152.3	1 418.6	1 454.8	9 438.1	9 607.1	3 684.7	4 650.5	13 122.7	14 257.5
TREND										
2003										
Mar Qtr	6 778.9	6 893.8	1 153.5	1 202.6	7 932.3	8 096.4	2 925.5	3 809.4	10 857.9	11 905.8
Jun Qtr	6 825.7	6 947.6	1 204.6	1 253.8	8 030.3	8 201.4	3 014.7	3 862.3	11 045.0	12 063.7
Sep Qtr	7 031.4	7 158.2	1 277.7	1 323.6	8 309.1	8 481.8	3 130.2	3 990.2	11 439.2	12 472.0
Dec Qtr	7 409.6	7 539.1	1 344.8	1 387.3	8 754.0	8 926.0	3 293.7	4 206.5	12 047.1	13 131.7
2004										
Mar Qtr	7 790.9	7 921.2	1 391.4	1 430.7	9 182.0	9 351.6	3 486.0	4 448.0	12 667.7	13 799.2
Jun Qtr	8 108.6	8 239.9	1 417.3	1 454.0	9 528.7	9 696.5	3 673.8	4 667.7	13 211.7	14 376.9

(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.

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

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
	%	%	%	%	%	%	%	%	%	%
ORIGINAL										
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
2003-04	13.2	13.2	19.3	18.1	14.1	14.0	17.8	14.1	15.1	14.0
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	7.0	6.8	9.2	8.1	7.3	7.0	8.2	8.1	7.6	7.3
2004										
Mar Qtr	-3.8	-4.0	-11.7	-11.1	-5.0	-5.1	-8.5	-8.2	-6.0	-6.1
Jun Qtr	8.1	8.1	12.1	12.3	8.7	8.7	11.5	11.7	9.4	9.6
SEASONALLY ADJUSTED										
2003										
Mar Qtr	2.9	2.7	3.9	3.7	3.0	2.9	6.8	4.0	4.0	3.2
Jun Qtr	-3.5	-3.3	-0.8	-0.8	-3.1	-2.9	2.2	0.1	-1.7	-2.0
Sep Qtr	4.1	4.2	11.8	11.0	5.3	5.3	0.3	0.1	3.9	3.6
Dec Qtr	7.6	7.4	5.1	4.5	7.2	6.9	10.2	10.7	8.0	8.1
2004										
Mar Qtr	5.0	5.0	1.1	1.0	4.4	4.4	3.2	3.7	4.1	4.1
Jun Qtr	2.1	2.1	2.8	2.5	2.2	2.1	6.5	4.6	3.3	2.9
TREND										
2003										
Mar Qtr	0.8	0.9	1.8	2.1	0.9	1.0	3.8	1.6	1.7	1.2
Jun Qtr	0.7	0.8	4.4	4.3	1.2	1.3	3.0	1.4	1.7	1.3
Sep Qtr	3.0	3.0	6.1	5.6	3.5	3.4	3.8	3.3	3.6	3.4
Dec Qtr	5.4	5.3	5.3	4.8	5.4	5.2	5.2	5.4	5.3	5.3
2004										
Mar Qtr	5.1	5.1	3.5	3.1	4.9	4.8	5.8	5.7	5.2	5.1
Jun Qtr	4.1	4.0	1.9	1.6	3.8	3.7	5.4	4.9	4.3	4.2

(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.

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

<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>
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
BUILDING WORK DONE									
2001-02	13 224.9	12 413.4	7 967.1	2 122.8	3 798.4	455.3	370.6	716.3	41 065.1
2002-03	15 594.8	14 050.0	8 881.5	2 436.5	4 335.0	504.2	366.3	915.8	47 084.1
2003-04	15 947.4	14 563.7	10 355.2	2 763.5	4 439.5	659.1	384.6	868.9	49 981.9
2003									
Mar Qtr	3 692.4	3 300.3	2 078.7	575.4	1 064.4	114.8	72.4	246.8	11 145.6
Jun Qtr	3 921.4	3 383.3	2 131.6	637.0	1 047.9	124.2	91.6	236.2	11 573.5
Sep Qtr	3 983.1	3 560.9	2 451.6	657.4	1 157.4	150.2	98.1	224.4	12 283.2
Dec Qtr	4 154.9	3 689.4	2 801.6	715.0	1 075.9	174.9	107.4	231.6	12 950.7
2004									
Mar Qtr	3 849.6	3 463.8	2 384.0	677.8	1 114.9	161.4	87.2	194.9	11 933.5
Jun Qtr	3 959.8	3 849.5	2 718.1	713.3	1 091.3	172.5	91.8	218.1	12 814.5
ENGINEERING WORK DONE									
2001-02	5 770.5	3 482.4	4 762.8	1 454.3	3 207.2	468.3	1 259.1	205.5	20 610.3
2002-03	6 483.7	4 244.3	5 558.8	1 766.4	4 735.3	364.0	1 331.6	244.7	24 729.7
2003-04	7 624.7	4 792.7	5 310.4	1 659.7	4 653.3	465.6	1 586.6	233.0	26 325.9
2003									
Mar Qtr	1 571.6	1 043.4	1 369.5	451.9	1 111.4	81.8	232.9	62.4	5 924.9
Jun Qtr	1 852.0	1 200.0	1 376.1	496.3	1 400.3	90.8	328.8	81.0	6 825.2
Sep Qtr	1 743.7	1 079.7	1 209.2	433.6	1 140.6	74.2	407.4	52.2	6 140.6
Dec Qtr	1 908.6	1 216.7	1 458.2	430.2	1 222.3	113.7	422.6	60.3	6 832.6
2004									
Mar Qtr	1 911.7	1 223.8	1 191.8	385.5	1 118.5	120.6	363.1	58.5	6 373.4
Jun Qtr	2 060.7	1 272.4	1 451.2	410.4	1 171.8	157.1	393.5	62.1	6 979.3
CONSTRUCTION WORK DONE									
2001-02	18 992.0	15 890.0	12 726.0	3 572.8	7 002.4	922.8	1 627.9	922.8	61 669.6
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	71 813.9
2003-04	23 572.2	19 356.4	15 665.6	4 423.1	9 092.7	1 124.7	1 971.2	1 102.0	76 307.8
2003									
Mar Qtr	5 264.1	4 344.1	3 449.9	1 027.8	2 175.8	196.6	305.2	309.2	17 071.6
Jun Qtr	5 774.5	4 584.1	3 508.5	1 133.9	2 449.2	215.3	420.5	317.6	18 403.0
Sep Qtr	5 726.9	4 640.7	3 660.7	1 090.9	2 298.0	224.4	505.5	276.6	18 423.8
Dec Qtr	6 063.5	4 906.1	4 259.8	1 145.2	2 298.2	288.6	530.1	291.8	19 783.4
2004									
Mar Qtr	5 761.3	4 687.7	3 575.8	1 063.2	2 233.3	282.0	450.3	253.4	18 307.0
Jun Qtr	6 020.5	5 122.0	4 169.3	1 123.7	2 263.2	329.6	485.3	280.1	19 793.8

(a) Chain volume measures, reference year 2002-03. See paragraphs 25-28 of the Explanatory Notes.

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
Period	%	%	%	%	%	%	%	%	%
.....									
BUILDING WORK DONE									
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
2003-04	2.3	3.7	16.6	13.4	2.4	30.7	5.0	-5.1	6.2
2003									
Mar Qtr	-11.3	-7.8	-11.5	-5.6	-5.7	-14.8	-33.6	5.4	-9.4
Jun Qtr	6.2	2.5	2.5	10.7	-1.5	8.3	26.5	-4.3	3.8
Sep Qtr	1.6	5.3	15.0	3.2	10.5	20.9	7.2	-5.0	6.1
Dec Qtr	4.3	3.6	14.3	8.8	-7.0	16.4	9.5	3.2	5.4
2004									
Mar Qtr	-7.3	-6.1	-14.9	-5.2	3.6	-7.7	-18.8	-15.8	-7.9
Jun Qtr	2.9	11.1	14.0	5.2	-2.1	6.9	5.3	11.9	7.4
.....									
ENGINEERING WORK DONE									
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
2003-04	17.6	12.9	-4.5	-6.0	-1.7	27.9	19.1	-4.8	6.5
2003									
Mar Qtr	-5.2	3.0	-5.6	-9.3	-7.2	1.5	-38.3	21.3	-6.4
Jun Qtr	17.8	15.0	0.5	9.8	26.0	11.0	41.2	29.7	15.2
Sep Qtr	-5.8	-10.0	-12.1	-12.6	-18.5	-18.3	23.9	-35.5	-10.0
Dec Qtr	9.5	12.7	20.6	-0.8	7.2	53.3	3.7	15.4	11.3
2004									
Mar Qtr	0.2	0.6	-18.3	-10.4	-8.5	6.0	-14.1	-2.9	-6.7
Jun Qtr	7.8	4.0	21.8	6.5	4.8	30.3	8.4	6.1	9.5
.....									
CONSTRUCTION WORK DONE									
2001-02	5.4	12.2	12.5	22.2	18.9	43.8	226.7	8.8	13.5
2002-03	16.3	15.1	13.5	17.6	29.5	-5.9	4.3	25.7	16.4
2003-04	6.8	5.8	8.5	5.2	0.2	29.5	16.1	-5.0	6.3
2003									
Mar Qtr	-9.6	-5.4	-9.2	-7.2	-6.4	-8.6	-37.2	8.3	-8.4
Jun Qtr	9.7	5.5	1.7	10.3	12.6	9.5	37.8	2.7	7.8
Sep Qtr	-0.8	1.2	4.3	-3.8	-6.2	4.3	20.2	-12.9	0.1
Dec Qtr	5.9	5.7	16.4	5.0	—	28.6	4.9	5.5	7.4
2004									
Mar Qtr	-5.0	-4.5	-16.1	-7.2	-2.8	-2.3	-15.0	-13.2	-7.5
Jun Qtr	4.5	9.3	16.6	5.7	1.3	16.9	7.8	10.5	8.1

— nil or rounded to zero (including null cells)

(a) Chain volume measures, reference year 2002-03. See paragraphs 25-28 of the Explanatory Notes.

	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Aust.
<i>Period</i>	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
BUILDING WORK DONE (a)									
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
2003-04	17 167.3	15 324.3	11 462.9	2 890.4	4 797.4	706.1	396.7	937.6	53 682.8
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	4 410.9	3 851.1	3 064.6	741.5	1 152.5	185.1	110.1	249.1	13 765.1
2004									
Mar Qtr	4 191.9	3 652.2	2 672.1	715.4	1 216.6	174.1	90.1	212.4	12 924.8
Jun Qtr	4 414.1	4 126.9	3 125.1	762.1	1 215.6	189.7	96.8	239.6	14 169.8
ENGINEERING WORK DONE									
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
2003-04	7 906.3	4 953.6	5 495.1	1 710.3	4 785.0	486.5	1 623.6	240.7	27 201.1
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	1 776.6	1 097.2	1 231.7	439.8	1 156.4	75.5	412.7	53.0	6 242.8
Dec Qtr	1 961.4	1 246.2	1 494.9	439.2	1 243.4	117.5	427.6	61.9	6 992.0
2004									
Mar Qtr	1 991.1	1 269.4	1 236.2	398.7	1 149.8	126.2	368.8	60.6	6 600.9
Jun Qtr	2 177.1	1 340.9	1 532.3	432.6	1 235.4	167.3	414.5	65.3	7 365.4
CONSTRUCTION WORK DONE (a)									
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
2003-04	25 073.7	20 277.9	16 958.1	4 600.7	9 582.4	1 192.6	2 020.3	1 178.4	80 883.9
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	5 927.1	4 791.3	3 832.7	1 111.3	2 369.1	232.6	512.4	289.5	19 066.0
Dec Qtr	6 372.4	5 097.2	4 559.5	1 180.7	2 395.9	302.6	537.7	311.0	20 757.1
2004									
Mar Qtr	6 183.0	4 921.6	3 908.4	1 114.0	2 366.4	300.3	458.9	273.0	19 525.6
Jun Qtr	6 591.2	5 467.7	4 657.5	1 194.6	2 451.0	357.0	511.3	304.9	21 535.2

(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.

<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)									
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
2003-04	10.1	9.1	29.1	18.6	10.7	40.0	8.3	2.4	14.0
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	6.3	4.2	17.8	10.4	-5.0	17.8	10.5	5.3	7.3
2004									
Mar Qtr	-5.0	-5.2	-12.8	-3.5	5.6	-6.0	-18.2	-14.7	-6.1
Jun Qtr	5.3	13.0	17.0	6.5	-0.1	8.9	7.5	12.8	9.6
.....									
ENGINEERING WORK DONE									
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
2003-04	21.9	16.7	-1.1	-3.2	1.0	33.6	21.9	-1.6	10.0
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	-9.6	-11.7	-12.6	-18.4	-17.7	24.0	-35.3	-9.7
Dec Qtr	10.4	13.6	21.4	-0.1	7.5	55.6	3.6	16.8	12.0
2004									
Mar Qtr	1.5	1.9	-17.3	-9.2	-7.5	7.4	-13.7	-2.0	-5.6
Jun Qtr	9.3	5.6	23.9	8.5	7.4	32.6	12.4	7.7	11.6
.....									
CONSTRUCTION WORK DONE (a)									
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
2003-04	13.6	10.8	17.4	9.5	5.6	37.4	19.0	1.5	12.6
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	2.6	6.8	-3.0	-4.8	5.8	20.4	-10.6	1.8
Dec Qtr	7.5	6.4	19.0	6.2	1.1	30.1	4.9	7.4	8.9
2004									
Mar Qtr	-3.0	-3.4	-14.3	-5.6	-1.2	-0.8	-14.7	-12.2	-5.9
Jun Qtr	6.6	11.1	19.2	7.2	3.6	18.9	11.4	11.7	10.3

(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

EXPLANATORY NOTES *continued*

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

EXPLANATORY NOTES *continued*

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 June 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.

<i>Australia</i>	%
New private residential building	0.9
Total private residential building	0.8
Private non-residential building	0.9
Total private building	0.7
Total residential building	0.8
Total non-residential building	0.7
Total building	0.6
Engineering for the private sector	2.4
Total engineering	1.4

<i>States and territories</i>	<i>Total building</i>	<i>Total engineering</i>
	%	%
NSW	1.0	2.2
Vic.	1.3	3.4
Qld	1.5	4.4
SA	1.2	4.3
WA	1.4	3.3
Tas.	1.2	2.3
NT	—	1.0
ACT	1.0	2.3

— 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.

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

EXPLANATORY NOTES *continued*

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 2002–2003). 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. 2002–2003). 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>>.

EXPLANATORY NOTES *continued*

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) associated with 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 <i>houses</i> or <i>other residential buildings</i> .
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.

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