

8755.0

BUILDING ACTIVITY

BUILDING WORK DONE

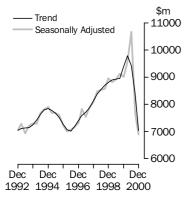
AUSTRALIA

PRELIMINARY

EMBARGO: 11:30AM (CANBERRA TIME) FRI 2 MAR 2001

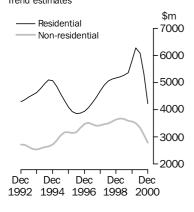
Value of work done Total building

Volume terms



Value of work done

Volume terms Trend estimates



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

DECEMBER QTR KEY FIGURES

TREND ESTIMATES(a)	Dec qtr 00 \$m	Sep qtr 00 to Dec qtr 00 % change	Dec qtr 99 to Dec qtr 00 % change
Value of work done	7 034.9	-16.2	-25.1
Total residential building	4 235.8	-20.4	-27.3
Non-residential building	2 797.5	-8.9	-21.6
SEASONALLY ADJUSTED(a)	Dec qtr 00	Sep qtr 00 to Dec qtr 00	Dec qtr 99 to Dec qtr 00
SEASONALLI ADJUSIED(a)	\$m	% change	% change
Value of work done	\$m 6 888.1	% change -10.2	% change –23.6
		e	e
Value of work done	6 888.1	-10.2	-23.6

(a) Chain volume measures, reference year 1998-99.

DECEMBER QTR KEY POINTS

VALUE OF WORK DONE, VOLUME TERMS

TREND ESTIMATES

- The trend estimate for building work done fell by 16.2% in the December quarter 2000. This follows an 11.0% fall in the September quarter.
- Recent falls continue to be dominated by the residential sector, which fell by 20.4% in the December quarter, following a 12.7% fall in the September quarter.
- The non-residential sector continued to show a decline, falling by 8.9% in the December quarter.

SEASONALLY ADJUSTED ESTIMATES

- After a record quarterly fall in the September quarter 2000, the seasonally adjusted estimate of building work done fell a further 10.2% in the December quarter to \$6,888.1m. This was the lowest level since the September quarter 1992.
- Following a record fall in the September quarter 2000, work done on residential building fell a further 12.8% to \$4,143.9m, the lowest since the March quarter 1997.
- After a record fall in the September quarter, work done on non-residential building also declined further, by 5.8% to \$2,744.1m, the lowest for six years.

NOTES

FORTHCOMING ISSUES	ISSUE (Quarter)	RELEASE DATE
	March 2001	31 May 2001
	June 2001	6 September 2001
	• • • • • • • • • • • • • • • • •	
ABOUT THIS ISSUE	estimates based on a response rat	r indication of trends in building activity. The data are the of approximately 85% of the value of building work emprehensive and updated results will be released in no. 8752.0) on 18 April 2001.
	estimates of engineering construct There will be some format change proposed that the publication be <i>Preliminary</i> but it will retain catal	e content of this publication to include preliminary etion and additional estimates of building work done. es to the tables to accommodate this expansion. It is titled <i>Construction Work Done, Australia,</i> logue number 8755.0. A copy of the proposed e ABS web site from 17 May 2001(see www.abs.gov.au hen go to 8755.0).
	• • • • • • • • • • • • • • • • •	
DATA NOTES	System (TNTS), introduced in Aus Wholesale Sales Tax and the introd	Gervices Tax (GST) pacted to varying degrees as a result of The New Tax stralia from 1 July 2000. TNTS included the removal of duction of a GST, and as a result, a wide range of ABS mmediate and subsequent impacts.
	September quarter 2000 onwards work done on a GST exclusive bas treatment is that the value of work cannot claim a deduction on resid non-residential buildings. An expla	rice estimates of residential building work done for the on a GST inclusive basis and non-residential building sis (see tables 3 and 4). The conceptual basis for this k done is net of deductible GST. The final consumer lential buildings, while GST paid is deductible for anation of the treatment and its relationship to the yen in paragraphs 5 to 8 in the Explanatory Notes.
		ata comparisons by removing the effects of price ting from the introduction of the GST are removed les 1 and 2.
	may be affected by the 'bringing fo	analysing movements in the value series as the series orward' of building activity prior to 1 July 2000, and the abolition of the Wholesale Sales Tax.
	• • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
SIGNIFICANT REVISIONS THIS ISSUE		l series have been revised as a result of the annual more details, see Explanatory Notes 17–19.
	Dennis Trewin	

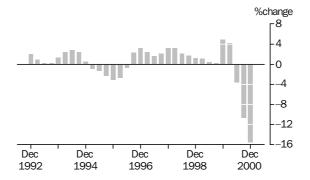
Dennis Trewin Australian Statistician

TREND PERCENTAGE CHANGE

NOTE: Trend estimates are subject to revisions. See Explanatory Notes, paragraph 22.

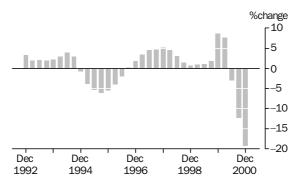
TOTAL BUILDING

The trend estimate fell by 16.2% in the December quarter, continuing the sharp decline in the September quarter.



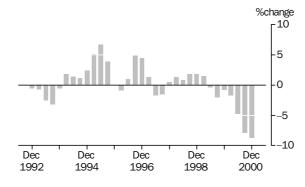
TOTAL RESIDENTIAL BUILDING

The fall in total building work done continued to be due mainly to the fall in residential building, for which the trend estimate fell a further 20.4% in the December quarter.



NON-RESIDENTIAL BUILDING

Having now fallen for seven quarters, the rate of decline in non-residential building work done continued to increase (to -8.9%) in the December quarter.



⁽a) Reference year 1998-99.

	RESIDENTIAL BUILDING		G	NON-RESIDENTIAL BUILDING		TOTAL BUILDING	
	New	Total					
5	private	private	-	Private	-	Private	-
Period	sector	sector	Total	sector	Total	sector	Total
•••••	•••••	•••••	•••••	•••••	•••••	•••••	• • • • • • • •
			ORIGINA	L (\$m)			
1997–98	15 696.9	18 673.7	19 153.8	10 111.8	13 851.0	28 784.5	33 000.6
1998–99	16 999.0	20 154.6	20 754.3	10 824.7	14 534.4	30 979.2	35 288.8
1999–00	20 116.2	23 687.6	24 218.9	10 575.7	14 179.3	34 263.3	38 398.1
1999							
Sep qtr	4 559.8	5 411.5	5 573.8	2 872.5	3 759.1	8 284.0	9 333.0
Dec qtr	4 758.0	5 666.5	5 801.1	2 787.2	3 716.8	8 453.8	9 517.9
2000							
Mar gtr	4 807.0	5 616.0	5 730.0	2 321.9	3 096.6	7 937.9	8 826.6
Jun gtr	5 991.5	6 993.5	7 113.9	2 594.1	3 606.8	9 587.6	10 720.7
Sep qtr	4 072.6	4 712.8	4 841.5	2 132.6	2 983.6	6 845.4	7 825.2
Dec qtr	3 573.6	4 230.6	4 343.0	2 059.5	2 926.8	6 290.1	7 269.8
		S	EASONALLY AD	DJUSTED (\$m)			
1999							
Sep qtr	4 515.9	5 319.2	5 466.9	2 738.3	3 664.9	8 061.1	9 131.8
Dec qtr	4 557.4	5 360.5	5 523.5	2 589.5	3 488.4	7 955.5	9 011.8
2000							
Mar qtr	5 065.3	6 029.1	6 147.1	2 579.3	3 427.4	8 628.2	9 574.5
Jun qtr	5 977.6	6 978.7	7 081.4	2 668.6	3 598.6	9 618.5	10 680.1
Sep qtr	4 020.2	4 640.0	4 753.1	2 036.1	2 913.5	6 673.4	7 666.6
Dec qtr	3 450.2	4 008.0	4 143.9	1 913.3	2 744.1	5 929.1	6 888.1
•••••	•••••	••••		•••••	• • • • • • • • • • •	•••••	• • • • • • • •
1999			TREND ESTIM	IATES (\$m)			
Sep qtr	4 415.9	5 218.8	5 368.7	2 692.3	3 596.2	7 905.7	8 959.0
Dec qtr	4 814.1	5 684.5	5 828.6	2 676.6	3 566.3	8 365.5	9 394.7
0000							
2000 Mar otr	5 220 0	6 160 7	6 286.6	0 610 1	2 505 1	0 777 0	9 792.5
Mar qtr Jun qtr	5 229.0 5 105.0	6 160.7 5 979.5	6 286.6 6 092.3	2 613.1 2 449.5	3 505.1 3 336.2	8 777.0 8 423.1	9 792.5 9 430.2
Sep qtr	5 105.0 4 476.4	5 979.5 5 204.3	5 318.8	2 449.5 2 195.2	3 336.2 3 071.2	8 423.1 7 392.9	9 430.2 8 390.5
Dec gtr	3 568.9	5 204.5 4 108.7	4 235.8	2 195.2 1 923.1	2 797.5	6 051.8	8 390.5 7 034.9
Dec qu	0 000.9	- 100.1	7 200.0	1 020.1	2101.0	0 001.0	1 004.0

(a) Reference year for chain volume measures is 1998–99. See paragraphs 23–26 of the Explanatory Notes.

4 ABS • BUILDING WORK DONE, PRELIMINARY • 8755.0 • DECEMBER QUARTER 2000

	RESIDEN	TIAL BUILDIN	G	NON-RESI BUILDING.		TOTAL BUI	ILDING
	New	Total					
	private	private		Private		Private	
Period	sector	sector	Total	sector	Total	sector	Total
• • • • • • • • • • •	• • • • • • • • •	• • • • • • • • • •	• • • • • • • • • •	• • • • • • • • • • •		• • • • • • • • • • •	• • • • • • •
		ORIGINAL (% change fro	om preceding	period)		
1997–98	20.6	19.9	18.7	-0.8	0.5	11.9	10.5
1998–99	8.3	7.9	8.4	7.0	4.9	7.6	6.9
1999–00	18.3	17.5	16.7	-2.3	-2.4	10.6	8.8
1999							
Sep qtr	5.0	5.8	5.9	6.2	2.1	5.9	4.3
Dec qtr	4.3	4.7	4.1	-3.0	-1.1	2.0	2.0
2000	1.0	0.0	-1.2	16.7	167	6.1	7.0
Mar qtr Jun qtr	1.0 24.6	-0.9 24.5	-1.2 24.2	-16.7 11.7	-16.7 16.5	-6.1 20.8	-7.3 21.5
Sep qtr	-32.0	_32.6	-31.9	-17.8	-17.3	-28.6	-27.0
Dec gtr	-12.3	-10.2	-10.3	-3.4	-1.9	-28.0	-7.1
Doo qu	12.0	1012	10.0	0.1	1.0	0.12	
• • • • • • • • • • •				· · · · · · · · · · · · · · · · · · ·	•••••	· · · · · · · · · · · · · · · · · · ·	• • • • • • •
1999	SEASU	JNALLY ADJU	ISTED (% cha	inge from prec	eaing quarte	r)	
Sep qtr	4.5	4.0	4.1	-1.6	-0.2	2.6	2.4
Dec qtr	0.9	0.8	1.0	-5.4	-4.8	-1.3	-1.3
2000		10 -					
Mar qtr	11.1	12.5	11.3	-0.4	-1.7	8.5	6.2
Jun qtr Sep qtr	18.0 -32.7	15.8 -33.5	15.2 -32.9	3.5 -23.7	5.0 -19.0	11.5 -30.6	11.5 -28.2
Dec gtr	-32.7	-33.5 -13.6	-32.9 -12.8	-23.7	-19.0 -5.8	-11.2	-28.2 -10.2
Dec qu	-14.2	-13.0	-12.0	-0.0	-5.6	-11.2	-10.2
• • • • • • • • • • •	•••••	• • • • • • • • • •		· · · · · · · · · · · · · · · · · · ·	•••••	•••••	• • • • • • •
1999	IRE	ND ESTIMAT	ES (% chang	e from preced	ing quarter)		
Sep qtr	2.0	1.7	1.8	-1.5	-2.0	0.7	0.2
Dec qtr	9.0	8.9	8.6	-0.6	-0.8	5.8	4.9
·							
2000							
Mar qtr	8.6	8.4	7.9	-2.4	-1.7	4.9	4.2
Jun qtr	-2.4	-2.9	-3.1	-6.3	-4.8	-4.0	-3.7
Sep qtr	-12.3	-13.0	-12.7	-0.4	-7.9	-12.2	-11.0
Dec qtr	-20.3	-21.1	-20.4	-12.4	-8.9	-18.1	-16.2
• • • • • • • • • • •							

(a) Reference year for chain volume measures is 1998–99. See paragraphs 23–26 of the Explanatory Notes.

2

	RESIDENTI	AL BUILDING	a(a)	NON-RESI BUILDING	DENTIAL	TOTAL BUI	LDING(a)
Period	New private sector	Total private sector	Total	Private sector	Total	Private sector	Total
• • • • • • • • • • • •	•••••	• • • • • • • • •	ORIGINAI	_ (\$m)	• • • • • • • • • • •	• • • • • • • • • • •	• • • • • • •
1997–98 1998–99 1999–00	15 343.4 16 999.0 21 217.0	18 268.5 20 154.6 24 996.4	18 738.9 20 754.3 25 551.7	9 721.6 10 824.7 10 962.0	13 328.7 14 534.4 14 690.1	27 990.1 30 979.2 35 958.4	32 067.6 35 288.7 40 241.9
1999 Sep qtr Dec qtr	4 676.6 4 950.7	5 551.2 5 896.7	5 717.3 6 036.3	2 938.1 2 877.8	3 843.9 3 836.2	8 489.3 8 774.6	9 561.2 9 872.5
2000 Mar qtr Jun qtr Sep qtr Dec qtr	5 108.8 6 480.9 4 848.4 4 248.0	5 972.4 7 576.0 5 616.7 5 035.4	6 093.0 7 705.1 5 768.3 5 167.0	2 420.3 2 725.8 2 253.8 2 181.8	3 225.3 3 784.7 3 144.9 3 092.5	8 392.7 10 301.9 7 870.6 7 217.2	9 318.3 11 489.8 8 913.2 8 259.5
1999		SI	EASONALLY AD	JUSTED (\$m)			
Sep qtr Dec qtr	4 627.3 4 733.9	5 462.9 5 588.5	5 612.8 5 723.5	2 798.3 2 671.8	3 744.6 3 597.1	8 268.5 8 270.7	9 363.6 9 348.3
2000 Mar qtr Jun qtr Sep qtr Dec qtr	5 371.2 6 449.3 4 788.4 4 103.3	6 426.5 7 579.4 5 530.4 4 770.9	6 583.1 7 695.2 5 664.8 4 897.9	2 687.0 2 802.8 2 149.5 2 024.7	3 566.2 3 772.2 3 070.0 2 898.5	9 141.8 10 359.4 7 670.2 6 800.7	10 132.3 11 448.4 8 739.6 7 819.0
• • • • • • • • • • • •	•••••	• • • • • • • • •	TREND ESTIM	ATES (\$m)	•••••	•••••	• • • • • • •
1999 Sep qtr Dec qtr	4 565.5 4 916.2	5 409.1 5 615.1	5 546.0 5 739.7	2 751.1 2 762.5	3 674.5 3 678.4	8 148.1 8 403.3	9 182.2 9 487.7
2000 Mar qtr Jun qtr Sep qtr Dec qtr	5 274.1 5 253.9 4 878.6 4 289.0	5 805.5 5 744.0 5 452.7 5 009.6	5 933.3 5 882.4 5 597.1 5 152.9	2 722.8 2 570.6 2 315.9 2 021.0	3 647.4 3 496.9 3 234.7 2 920.7	8 598.1 8 390.0 7 816.6 7 021.2	9 827.6 9 695.0 9 063.6 8 121.5

(a) From the September quarter 2000 data is inclusive of the non-deductible GST payable on residential buildings.

4

	RESIDEN	TIAL BUILDIN	IG(a)	NON-RES BUILDING		TOTAL BUI	LDING(a)
	New	Total					
	private	private		Private		Private	
Period	sector	sector	Total	sector	Total	sector	Total
• • • • • • • • • • • •		• • • • • • • • •		• • • • • • • • • •		• • • • • • • • • • •	• • • • • • •
		ORIGINAL (%	6 change fro	m preceding p	eriod)		
1997–98	22.0	21.2	20.0	3.3	4.5	14.3	13.0
1998–99	10.8	10.3	10.8	11.3	9.0	10.7	10.0
1999–00	24.8	24.0	23.1	1.3	1.1	16.1	14.0
1999							
Sep qtr	6.2	7.0	7.1	7.2	3.0	7.1	5.4
Dec qtr	5.9	6.2	5.6	-2.1	-0.2	3.4	3.3
2000							
Mar qtr	3.2	1.3	0.9	-15.9	-15.9	-4.4	-5.6
Jun qtr	26.9	26.8	26.5	12.6	17.3	22.7	23.3
Sep qtr	-25.2	-25.9	-25.1	-17.3	-16.9	-23.6	-22.4
Dec qtr	-12.4	-10.3	-10.4	-3.2	-1.7	-8.3	-7.3
• • • • • • • • • • • •				nge from prec			•••••
1999	SEASUR	ALLI ADJUS		ige nom preci	eunig quarte	r)	
Sep qtr	5.6	5.3	5.3	-0.7	0.7	3.8	3.6
Dec qtr	2.3	2.3	2.0	-4.5	-3.9	_	-0.2
2000							
Mar qtr	13.5	15.0	15.0	0.6	-0.9	10.5	8.4
Jun qtr	20.1	17.9	16.9	4.3	5.8	13.3	13.0
Sep qtr Dec qtr	-25.8 -14.3	-27.0 -13.7	-26.4 -13.5	–23.3 –5.8	-18.6 -5.6	-26.0 -11.3	-23.7 -10.5
Dec qu	-14.5	-13.1	-13.5	-5.6	-5.0	-11.5	-10.5
•••••	•••••	•••••	•••••		••••••	•••••	••••
1999	TREN	D ESTIMATE	S (% change	e from precedi	ng quarter)		
Sep gtr	3.9	3.2	2.8	-0.6	-1.2	1.9	0.9
Dec qtr	3.9 7.7	3.2 3.8	2.8 3.5	-0.8	-1.2 0.1	3.1	0.9 3.3
Dee qu		0.0	0.0	0.1	0.1	0.1	0.0
2000							
Mar qtr	7.3	3.4	3.4	-1.4	-0.8	2.3	3.6
Jun qtr	-0.4	-1.1	-0.9	-5.6	-4.1	-2.4	-1.3
Sep qtr	-7.1	-5.1	-4.9	-9.9	-7.5	-6.8	-6.5
Dec qtr	-12.1	-8.1	-7.9	-12.7	-9.7	-10.2	-10.4
••••	• • • • • • • • • •	•••••	•••••	•••••	• • • • • • • • • •	•••••	••••

(a) From the September quarter 2000 data is inclusive of the non-deductible GST payable on residential buildings.

EXPLANATORY NOTES

INTRODUCTION

.

	1 This publication contains preliminary estimates from the quarterly Building Activity Survey of the value of building work done during the quarter. The data contained in this publication are early estimates based on a response rate of approximately 85% of the value of building work done during the quarter. More comprehensive and updated results for the last two quarters will be available shortly in <i>Building Activity, Australia</i> (Cat. no. 8752.0).
	 2 The statistics were compiled on the basis of returns collected from builders and other individuals and organisations engaged in building activity. The quarterly survey consists of two components: a sample survey of private sector jobs involving new house construction or alterations and additions valued at \$10,000 or more to houses a complete enumeration of jobs involving construction of new residential buildings other than private sector houses, all alterations and additions to residential buildings (other than private sector houses) with an approval value of \$10,000 or more, and all non-residential building jobs with an approval value of \$50,000 or more.
SCOPE AND COVERAGE	
	3 The statistics relate to <i>building</i> activity which includes construction of new buildings and alterations and additions to existing buildings. Construction activity not defined as building (e.g. construction of roads, bridges, railways, earthworks, etc.) is excluded.
RELATIONSHIP WITH NATIONAL AC	COUNTS
	4 Data on the value of work done on the construction of new residential buildings, alterations and additions to residential buildings, private sector non-residential buildings (from the Building Activity Survey) and the value of engineering construction activity (from Cat. no. 8762.0) are the major source data which are used to compile the national accounts estimates for private gross fixed capital formation on dwellings, and other buildings and structures. However, there are some adjustments to the survey data which are made in the process of compiling these national accounts series. Allowances are made for the value of building activity which is out of scope of the Building Activity Survey and the Engineering Construction Activity Survey. Such activity includes work done on projects which fall below the size cut-offs used for the surveys and also the value of work done which is undertaken without obtaining a building permit, either because such a permit is not required or because the requisite permit is not obtained. The national accounts estimates also make allowances for purchases (less sales) of buildings and other structures from (to) the public sector.
TREATMENT OF GST	
	5 Statistics on value of building work (current prices) show residential building work done on a GST inclusive basis and non-residential 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 <i>System of National Accounts</i>

8 ABS • BUILDING WORK DONE, PRELIMINARY • 8755.0 • DECEMBER QUARTER 2000

(SNA93).

6 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.

7 Within building activity statistics, purchasers of residential structures are unable to deduct GST from the purchase price. For non-residential structures, the reverse is true. While the ABS collects all building activity data on a GST inclusive basis, it publishes value of work done inclusive of GST in respect of residential construction and exclusive of GST in respect of non-residential construction.

8 It is appropriate to add the residential and non-residential components to derive total building activity. 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 includes the non-deductible GST payable on residential building.

DEFINITIONS

9 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.

10 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.

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

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

EXPLANATORY NOTES continued

DEFINITIONS continued

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

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

BUILDING CLASSIFICATION

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

RELIABILITY OF THE ESTIMATES

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

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

%

···

New private residential building	0.9
Total private residential building	0.8
Total residential building	0.8
Private non-residential building	
Total non-residential building	
Private total building	0.6
Total building	0.5

SEASONAL ADJUSTMENT

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

SEASONAL ADJUSTMENT continued

	18 Since seasonally adjusted statistics reflect both irregular and trend movements, an upward or downward movement in a seasonally adjusted series does not necessarily indicate a change of trend. Particular care should therefore be taken in interpreting individual quarter-to-quarter movements. Each of the component series shown has been seasonally adjusted independently. As a consequence, while the unadjusted components in the original series shown add to the totals, the adjusted components may not add to the adjusted totals.
	19 As happens with all seasonally adjusted series, the seasonal factors are reviewed annually to take account of each additional year's data. For the Building Activity Survey, the results of the latest review are shown in the December quarter issue each year.
TREND ESTIMATES	
	20 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.
	21 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.
	22 While the smoothing technique described in paragraphs 20 and 21 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 <i>Information Paper: A Guide to Interpreting Time Series</i> — <i>Monitoring Trends: an Overview</i> (Cat. no. 1348.0) or contact the Assistant Director, Time Series Analysis on Canberra 02 6252 6076.
CHAIN VOLUME MEASURES	
	23 Chain volume estimates of the value of work done are presented in original, seasonally adjusted and trend terms.
	24 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 of the national accounts aggregate 'Gross fixed capital formation'.
	components of the national accounts aggregate 'Gross fixed capital formation'.

CHAIN VOLUME MEASURES continued

	25 The chain volume measures of building work done appearing in this publication are annually reweighted chain Laspeyres indexes referenced to current price values in a chosen reference year (currently 1998–99). The reference year is updated annually in the June quarter publication. Each year's data in the value of building work done series are based on the prices of the previous year, except for the quarters of the latest incomplete year which are based upon the current reference year (i.e. 1998–99). 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 <i>Information Paper: Introduction of Chain Volume Measures in the Australian National Accounts</i> (Cat. no. 5248.0).
	26 The factors used to seasonally adjust the chain volume series are identical to those used to adjust the corresponding current price series.
ACKNOWLEDGMENT	
	27 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 <i>Census and Statistics Act 1905</i> .
UNPUBLISHED DATA	
	28 The ABS can also make available certain building approvals and activity data which are not published. Where the data cannot be provided by telephone, it can be provided via fax, photocopy, computer print-out, floppy disk and email. A charge may be made for providing unpublished information in these forms.
RELATED PUBLICATIONS	
	 29 Users may also wish to refer to the following publications which are available on request: Building Activity, Australia: Dwelling Unit Commencements, Preliminary (Cat. no. 8750.0)—issued quarterly Building Activity, Australia (Cat. no. 8752.0)—issued quarterly Building Approvals, Australia (Cat. no. 8731.0)—issued monthly Private Sector Construction Industry, Australia, 1996–97 (Cat. no. 8772.0) Engineering Construction Activity, Australia (Cat. no. 8762.0)—issued quarterly House Price Indexes: Eight Capital Cities (Cat. no. 6416.0)—issued quarterly Housing Finance for Owner Occupation, Australia (Cat. no. 5609.0) —issued monthly Price Index of Materials Used in Building Other Than House Building, Six State Capital Cities (Cat. no. 6407.0)—issued quarterly Price Index of Materials Used in House Building, Six State Capital Cities (Cat. no. 6408.0)—issued quarterly O Current publications produced by the ABS are listed in the Catalogue of Publications and Products (Cat. no. 1101.0). The ABS also issues, on Tuesdays and Fridays, a Release Advice (Cat. no. 1105.0) which lists publications to be released in the next few days. The Catalogue and Release Advice are available from any ABS office.

EXPLANATORY NOTES continued

SYMBOLS AND OTHER USAGES

- ABS Australian Bureau of Statistics
- \$m million dollars
- .. not applicable
- nil or rounded to zero

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

FOR MORE INFORMATION...

INTERNET	www.abs.gov.au the ABS web site is the best place to start for access to summary data from our latest publications, information about the ABS, advice about upcoming releases, our catalogue, and Australia Now—a statistical profile.
LIBRARY	A range of ABS publications is available from public and tertiary libraries Australia-wide. Contact your nearest library to determine whether it has the ABS statistics you require, or visit our web site for a list of libraries.
CPI INFOLINE	For current and historical Consumer Price Index data, call 1902 981 074 (call cost 77c per minute).
DIAL-A-STATISTIC	For the latest figures for National Accounts, Balance of Payments, Labour Force, Average Weekly Earnings, Estimated Resident Population and the Consumer Price

INFORMATION SERVICE

	Data which have been published and can be provided within five minutes are free of charge. Our information consultants can also help you to access the full range of ABS information—ABS user-pays services can be tailored to your needs, time frame and budget. Publications may be purchased. Specialists are on hand to help you with analytical or methodological advice.
PHONE	1300 135 070
EMAIL	client.services@abs.gov.au
FAX	1300 135 211
POST	Client Services, ABS, GPO Box 796, Sydney 1041

Index call 1900 986 400 (call cost 77c per minute).

WHY NOT SUBSCRIBE?

ABS subscription services provide regular, convenient and prompt deliveries of ABS publications and products as they are released. Email delivery of monthly and quarterly publications is available.

PHONE	1300 366 323
EMAIL	subscriptions@abs.gov.au
FAX	03 9615 7848
POST	Subscription Services, ABS, GPO Box 2796Y, Melbourne 3001

© Commonwealth of Australia 2001



ISSN 1441-0877

RRP \$17.00

Produced by the Australian Bureau of Statistics

.....