

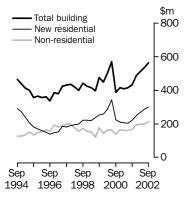
# **BUILDING ACTIVITY**

SOUTH AUSTRALIA

EMBARGO: 11:30AM (CANBERRA TIME) FRI 31 JAN 2003

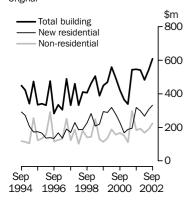
#### Value of work done

Volume terms Seasonally adjusted



#### Value of work commenced

Volume terms Original



 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.

# SEPTEMBER QTR KEY FIGURES

SEASONALLY ADJUSTED	Sep qtr 02	Jun qtr 02 to Sep qtr 02 % change	Sep qtr 01 to Sep qtr 02 % change
Value of work done(a) (\$m)	563.3	5.0	29.6
New residential building (\$m)	300.1	3.7	35.6
Alterations and additions(b) (\$m)	51.2	4.4	11.5
Non-residential building (\$m)	212.0	7.0	26.7
Total dwelling units commenced (no.)	2 602	-7.2	14.5
New private sector houses (no.)	2 251	6.4	25.8

(a) Chain volume measures, reference year 2000-01. (b) To residential buildings.

## SEPTEMBER QTR KEY POINTS

## VALUE OF WORK DONE, SEASONALLY ADJUSTED, VOLUME TERMS

- In seasonally adjusted terms, total building work done rose 5.0% in the September quarter 2002 to \$563.3m, the second highest level since the March quarter 1991.
- New residential work done rose 3.7% to \$300.1m, the second highest level for nine years. New houses rose 6.7% to \$248.3m, also the second highest for nine years, but new other residential buildings fell 8.9% to \$51.8m. Work on alterations and additions rose 4.4% to \$51.2m, a level exceeded only by the March and June quarters 2000.
- Non-residential building work rose 7.0% to \$212.0m, the highest level since the June quarter 1991.

## VALUE OF WORK COMMENCED, ORIGINAL, VOLUME TERMS

- Total building work commenced rose 12.2% in the September quarter to \$609.2m, the highest level for 13 years.
- New residential commencements rose 8.0% to \$330.9m, the highest level for 26 years. New houses rose 11.6% to \$291.8m, a level exceeded only by the September quarter 1976 (\$298.6m), but new other residential buildings fell 13.0% to \$39.1m. Alterations and additions rose 15.7% to \$53.2m, a level exceeded only by the March and June quarters 2000.
- Non-residential commencements rose 18.1% to \$225.0m.

## NUMBER OF DWELLING UNITS COMMENCED, SEASONALLY ADJUSTED

■ In seasonally adjusted terms, the total number of dwellings commenced fell 7.2% in the September quarter to 2,602, but the previous quarter was the most for eight years. Commencements of new private sector houses rose 6.4% to 2,251, the most for eight years.

## NOTES

FORTHCOMING ISSUES

 ISSUE (Quarter)
 RELEASE DATE

 December 2002
 2 May 2003

 March 2003
 31 July 2003

ABOUT THIS ISSUE

This publication contains the first detailed estimates for South Australia from the quarterly Building Activity Survey. The data are subject to revision when returns from the following quarter are processed. Final data for the September quarter 2002 will be released in *Building Activity, South Australia* (cat. no. 8752.4) on 2 May 2003.

SIGNIFICANT REVISIONS TH

Compared with the estimates in original terms published in the previous issue of this publication, the value of non-residential building work commenced during the June quarter 2002 has been revised upwards by 17.3m (+9.5%), due mainly to revisions in the private sector Educational and Entertainment and recreational categories.

lan Crettenden Regional Director South Australia

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TABLE 1. VALUE OF BUILDING WORK COMMENCED, CHAIN VOLUME MEASURES(a) (\$ million)

	New re	sidential building		Alterations and	Non-residential bu	ilding	
Period	Or Houses	her residential building	Total	additions to — residential buildings	Private sector	Total	Total building
1999-2000	975.4	207.3	1,181.2	225.8	359.2	591.5	1,970.9
2000-2001	620.8	158.5	779.2	161.4	390.5	729.6	1,670.1
2001-2002	965.5	225.3	1,190.8	188.9	554.0	733.9	2,113.7
2001 Jun qtr	171.0	23.9	194.4	47.4	90.7	297.4	543.7
Sep. qtr	218.5	99.9	318.4	44.2	141.8	184.4	547.0
Dec. qtr	261.5	37.0	298.5	50.7	161.5	192.6	541.8
2002 Mar. qtr	224.0	43.5	267.5	48.0	117.5	166.4	481.9
Jun qtr	261.5	44.9	306.4	46.0	133.2	190.5	543.0
Sep. qtr	291.8	39.1	330.9	53.2	162.2	225.0	609.2

<sup>(</sup>a) Reference year for chain volume measures is 2000-2001. See paragraphs 29 and 30 of the Explanatory Notes.

TABLE 2. VALUE OF BUILDING WORK DONE, CHAIN VOLUME MEASURES(a) (\$ million)

	New re	sidential building		Alterations and	Non-residential bu	Total building	
iod	Other resident Houses buildi		Total	additions to — residential buildings	Private sector		Total
			ORIGINA	L			
9-2000	926.8	215.1	1,141.9	223.1	421.3	647.1	1,999.0
0-2001	686.8	158.2	845.0	161.8	395.0	624.0	1,631.0
01-2002	840.0	187.8	1,027.8	187.0	507.7	756.7	1,971.4
1 Jun qtr	162.9	36.4	199.3	48.0	96.5	162.7	410.5
Sep. qtr	184.2	43.6	227.8	48.0	111.3	168.6	444.4
Dec. qtr	216.2	42.2	258.4	47.0	143.7	209.2	514.6
2 Mar. qtr	210.7	47.0	257.7	44.9	127.3	179.3	481.8
Jun qtr	228.9	55.0	283.9	47.1	125.4	199.6	530.6
Sep. qtr	252.1	56.5	308.6	53.6	154.4	213.3	575.5
		SEAS	SONALLY AI	DJUSTED			
11 Jun qtr	166.0	38.3	204.2	49.7	100.9	161.9	416.2
Sep. qtr	181.4	39.9	221.3	45.9	101.5	167.3	434.5
Dec. qtr	208.5	39.8	248.2	43.5	132.4	195.3	487.0
2 Mar. qtr	217.4	51.4	268.8	48.5	142.6	195.8	513.2
Jun qtr	232.7	56.8	289.5	49.1	131.2	198.2	536.7
Sep. qtr	248.3	51.8	300.1	51.2	140.8	212.0	563.3

<sup>(</sup>a) Reference year for chain volume measures is 2000-2001. See paragraphs 29 to 31 of the Explanatory Notes.

TABLE 3. VALUE OF BUILDING WORK DONE(a):SEASONALLY ADJUSTED SERIES (\$ million)

	New re	sidential building		Alterations and	Non-residential bu	ilding	
Period	Oi Houses	her residential building	Total	additions to — residential buildings	Private sector	Total	Total building
2001 Jun qtr	166.8	38.3	205.1	50.3	102.4	163.0	418.4
Sep. qtr	184.4	40.4	224.8	46.9	103.5	169.3	441.0
Dec. qtr	214.9	40.8	255.7	45.0	136.4	199.6	500.3
2002 Mar. qtr	227.4	53.8	281.2	50.8	148.4	202.2	534.2
Jun qtr	246.6	60.7	307.3	52.0	138.5	207.7	566.9
Sep. qtr	266.3	54.7	321.0	55.4	149.7	223.9	600.2

<sup>(</sup>a) From the September quarter 2000, data is inclusive of non-deductible GST payable on residential buildings. See paragraphs 9 and 10 of the Explanatory Notes.

TABLE 4. NUMBER OF DWELLING UNITS COMMENCED AND COMPLETED: SEASONALLY ADJUSTED SERIES

		New hor	uses		Total dwelling units (includes conversions etc)					
Period	Prive secte		Tota	al	Prive sect		Total			
	Commenced	Completed (a)	Commenced	Completed (a)	Commenced	Completed (a)	Commenced	Completed (a)		
2001 Jun qtr	1,415	n.a.	1,434	n.a.	1,709	n.a.	1,726	n.a.		
Sep. qtr	1,790	n.a.	1,834	n.a.	2,253	n.a.	2,273	n.a.		
Dec. qtr	2,132	n.a.	2,167	n.a.	2,466	n.a.	2,567	n.a.		
2002 Mar. qtr	1,991	n.a.	2,089	n.a.	2,270	n.a.	2,376	n.a.		
Jun qtr	2,115	n.a.	2,190	n.a.	2,736	n.a.	2,804	n.a.		
Sep. qtr	2,251	n.a.	2,371	n.a.	2,514	n.a.	2,602	n.a.		

<sup>(</sup>a) Seasonally adjusted estimates for the number of dwelling units completed are suspended following strong evidence of a recent and sudden change to the seasonal pattern. Seasonally adjusted estimates will be reinstated as soon as the new seasonal pattern can be identified.

TABLE 5. NUMBER AND VALUE OF BUILDING COMMENCED(a): ORIGINAL

		Number of dw	elling units					Value (\$m)			
Period	New houses	New other residential building	Con- versions etc.	Total dwelling units	New houses	New other residential building	New residential building	Alterations and additions to residential buildings	Total residential building	Total non-resi- dential building	Tota. building
				PR	IVATE SE	CTOR					
1999-2000	7,730	1,381	156	9,267	844.7	188.3	1,033.0	193.2	1,226.2	351.2	1,577.4
2000-2001	5,304	1,097	42	6,442	612.4	156.0	768.3	154.6	922.9	390.5	1,313.4
2001-2002	8,030	1,614	59	9,703	977.8	230.1	1,207.9	193.1	1,401.0	575.0	1,976.0
2001 Jun qtr	1,422	178	5	1,605	169.3	23.9	193.2	46.2	239.4	91.9	331.4
Sep. qtr	1,835	522	8	2,365	219.8	100.7	320.5	42.9	363.5	145.3	508.7
Dec. qtr	2,217	296	30	2,543	264.2	37.0	301.2	52.2	353.4	167.2	520.6
2002 Mar. qtr	1,853	369	10	2,232	225.6	45.2	270.8	49.6	320.4	122.6	443.1
Jun qtr	2,125	427	11	2,563	268.2	47.1	315.4	48.3	363.7	139.9	503.6
Sep. qtr	2,309	311	25	2,645	303.1	40.5	343.6	57.0	400.6	171.0	571.6
				PU	JBLIC SEC	CTOR					
1999-2000	127	17	_	144	10.7	1.2	11.8	5.6	17.5	225.6	243.1
2000-2001	87	23	4	114	8.4	2.5	10.9	6.7	17.6	339.1	356.7
2001-2002	251	38	_	289	24.6	3.7	28.3	4.3	32.6	186.9	219.5
2001 Jun qtr	21	2	_	23	2.6	0.2	2.8	1.7	4.5	208.8	213.2
Sep. qtr	22	13	_	35	2.2	1.3	3.5	2.2	5.7	43.5	49.2
Dec. qtr	56	14	_	70	5.2	1.5	6.6	0.5	7.1	32.1	39.3
2002 Mar. qtr	96	7	_	103	8.6	0.6	9.1	0.9	10.1	51.0	61.1
Jun qtr	77	4	_	81	8.7	0.4	9.0	0.7	9.7	60.3	70.0
Sep. qtr	93	12		105	10.1	1.0	11.2	0.5	11.7	65.8	77.5
					TOTAL						
1999-2000	7,857	1,398	156	9,411	855.4	189.4	1,044.8	198.8	1,243.6	576.8	1,820.5
2000-2001	5,391	1,120	46	6,556	620.8	158.4	779.2	161.3	940.5	729.6	1,670.1
2001-2002	8,281	1,652	59	9,992	1,002.4	233.8	1,236.2	197.4	1,433.6	761.9	2,195.5
2001 Jun qtr	1,443	180	5	1,628	171.9	24.1	196.0	47.9	243.9	300.7	544.6
Sep. qtr	1,857	535	8	2,400	222.0	102.0	324.0	45.1	369.2	188.7	557.9
Dec. qtr	2,273	310	30	2,613	269.4	38.4	307.8	52.7	360.5	199.4	559.9
2002 Mar. qtr	1,949	376	10	2,335	234.2	45.8	280.0	50.5	330.5	173.7	504.1
Jun qtr	2,202	431	11	2,644	276.9	47.5	324.4	49.0	373.4	200.1	573.6
Sep. qtr	2,401	323	25	2,749	313.2	41.5	354.7	57.6	412.3	236.8	649.1

<sup>(</sup>a) Data is inclusive of non-deductible GST payable on residential buildings. See paragraphs 9 and 10 of the Explanatory Notes.

## TABLE 6. VALUE OF NON-RESIDENTIAL BUILDING COMMENCED: ORIGINAL (\$ million)

Period	Hotels etc.	Shops	Factories	Offices	Other business premises	Educational	Religious	Health	Entertain- ment and recreational	Miscel- laneous	Total non-resi- dential building
				PR	IVATE SE	CTOR					
1999-2000	19.7	70.4	24.7	59.4	83.9	36.9	13.4	17.0	16.2	9.6	351.2
2000-2001	24.9	92.0	37.6	68.7	49.6	39.3	5.3	42.7	21.4	9.0	390.5
2001-2002	53.3	107.6	82.9	73.5	77.6	53.2	3.7	76.9	26.3	20.0	575.0
2001 Jun qtr	2.8	18.4	10.6	17.9	14.8	9.2	0.1	15.3	1.3	1.5	91.9
Sep. qtr	4.7	31.6	28.5	6.6	26.3	16.9	0.6	26.6	0.7	2.8	145.3
Dec. qtr	33.1	32.6	18.8	22.2	21.5	9.8	_	20.9	6.2	2.2	167.2
2002 Mar. qtr	13.7	26.4	19.4	20.3	17.2	4.9	1.4	7.7	1.8	9.8	122.6
Jun qtr	1.8	17.1	16.1	24.4	12.6	21.6	1.7	21.6	17.6	5.2	139.9
Sep. qtr	31.1	34.9	6.7	6.7	21.7	14.5	0.5	29.2	5.5	20.3	171.0
				PU	JBLIC SEC	TOR					
1999-2000	0.5	_	0.1	30.6	2.3	43.1	_	31.5	104.6	13.0	225.6
2000-2001	0.8	3.4	_	17.0	4.2	92.5	_	160.3	8.7	52.1	339.1
2001-2002	0.2	1.1	_	37.7	9.1	55.3	_	47.7	28.2	7.4	186.9
2001 Jun qtr	0.2	2.2	_	2.9	0.7	40.7	_	148.7	1.6	11.8	208.8
Sep. qtr	_	_	_	7.2	0.6	10.1	_	4.2	20.2	1.2	43.5
Dec. qtr	0.1	1.0	_	8.8	1.3	7.4	_	6.9	3.4	3.3	32.1
2002 Mar. qtr	0.1	_	_	4.9	3.6	10.7	_	26.5	4.5	0.7	51.0
Jun qtr	_	0.1	_	16.8	3.7	27.2	_	10.2	_	2.3	60.3
Sep. qtr	_	_	_	1.8	2.9	17.0	_	0.9	0.2	43.0	65.8
					TOTAL						
1999-2000	20.2	70.4	24.8	90.0	86.1	80.0	13.4	48.6	120.8	22.5	576.8
2000-2001	25.7	95.4	37.6	85.8	53.8	131.9	5.3	203.0	30.1	61.1	729.6
2001-2002	53.5	108.7	82.9	111.3	86.8	108.6	3.7	124.6	54.5	27.4	761.9
2001 Jun qtr	3.0	20.7	10.6	20.8	15.5	49.9	0.1	163.9	2.8	13.3	300.7
Sep. qtr	4.7	31.6	28.5	13.9	26.8	27.0	0.6	30.8	20.9	3.9	188.7
Dec. qtr	33.2	33.6	18.8	31.0	22.8	17.1	_	27.8	9.6	5.5	199.4
2002 Mar. qtr	13.8	26.4	19.4	25.2	20.8	15.6	1.4	34.2	6.3	10.5	173.7
Jun qtr	1.8	17.1	16.1	41.2	16.3	48.8	1.7	31.8	17.6	7.5	200.1
Sep. qtr	31.1	35.0	6.7	8.5	24.6	31.4	0.5	30.1	5.6	63.2	236.8

TABLE 7. NUMBER AND VALUE OF BUILDING UNDER CONSTRUCTION AT END OF PERIOD(a): ORIGINAL

		Number of dw	elling units		Value (\$m)							
Period	New houses	New other residential building	Con- versions etc.	Total dwelling units	New houses	New other residential building	New residential building	Alterations and additions to residential buildings	Total residential building	Total non-resi- dential building	Total building	
				PRI	VATE SE	CTOR						
1999-2000	3.269	907	91	4.267	406.9	140.1	547.1	66.1	613.2	219.0	832.1	
2000-2001	2,079	796	18	2,893	272.0	122.4	394.5	78.0	472.5	187.7	660.1	
2001-2002	3,740	1,504	51	5,296	504.9	219.7	724.5	103.3	827.8	340.2	1,168.0	
2001 Jun qtr	2,079	796	18	2,893	272.0	122.4	394.5	78.0	472.5	187.7	660.1	
Sep. qtr	2,603	1,149	21	3,773	344.3	200.7	545.0	70.1	615.0	263.6	878.7	
Dec. qtr	3,193	1,224	34	4,451	412.1	204.6	616.7	86.9	703.6	293.7	997.3	
2002 Mar. qtr	3,554	1,306	42	4,902	464.4	199.3	663.7	101.1	764.8	337.6	1,102.4	
Jun qtr	3,740	1,504	51	5,296	504.9	219.7	724.5	103.3	827.8	340.2	1,168.0	
Sep. qtr	4,367	1,591	64	6,021	608.8	231.1	839.9	118.9	958.8	405.5	1,364.3	
				PU	BLIC SEC	CTOR						
1999-2000	42	7	_	49	2.9	0.5	3.3	3.2	6.5	234.6	241.1	
2000-2001	70	17	_	87	7.0	1.7	8.6	2.4	11.1	445.7	456.8	
2001-2002	146	19	_	165	14.8	1.9	16.6	0.2	16.9	340.3	357.1	
2001 Jun qtr	70	17	_	87	7.0	1.7	8.6	2.4	11.1	445.7	456.8	
Sep. qtr	55	17	_	72	5.3	1.7	7.0	1.5	8.5	424.4	432.9	
Dec. qtr	82	24	_	106	7.2	2.4	9.7	0.4	10.1	326.6	336.7	
2002 Mar. qtr	152	25	_	177	13.3	2.5	15.8	_	15.8	334.0	349.8	
Jun qtr	146	19	_	165	14.8	1.9	16.6	0.2	16.9	340.3	357.1	
Sep. qtr	145	12		157	14.6	1.0	15.7	0.1	15.7	353.7	369.5	
					TOTAL	,						
1999-2000	3,311	914	91	4,316	409.8	140.6	550.4	69.3	619.7	453.5	1,073.2	
2000-2001	2,149	813	18	2,980	279.0	124.1	403.1	80.4	483.5	633.4	1,116.9	
2001-2002	3,886	1,523	51	5,461	519.6	221.6	741.2	103.5	844.7	680.5	1,525.1	
2001 Jun qtr	2,149	813	18	2,980	279.0	124.1	403.1	80.4	483.5	633.4	1,116.9	
Sep. qtr	2,658	1,166	21	3,845	349.6	202.4	551.9	71.6	623.5	688.0	1,311.6	
Dec. qtr	3,275	1,248	34	4,557	419.3	207.0	626.4	87.4	713.7	620.3	1,334.0	
2002 Mar. qtr	3,706	1,331	42	5,079	477.7	201.7	679.5	101.1	780.6	671.6	1,452.2	
Jun qtr	3,886	1,523	51	5,461	519.6	221.6	741.2	103.5	844.7	680.5	1,525.1	
Sep. qtr	4,512	1,603	64	6,178	623.4	232.2	855.6	119.0	974.6	759.2	1,733.8	

<sup>(</sup>a) Data is inclusive of non-deductible GST payable on residential buildings. See paragraphs 9 and 10 of the Explanatory Notes.

## TABLE 8. VALUE OF NON-RESIDENTIAL BUILDING UNDER CONSTRUCTION AT END OF PERIOD: ORIGINAL (\$ million)

Period	Hotels etc.	Shops	Factories	Offices	Other business premises	Educational	Religious	Health 1	Entertain- ment and recreational	Miscel- laneous	Total non-resi- dential building
				PR	IVATE SEC	CTOR					
1999-2000	11.8	86.0	8.4	33.0	26.6	19.2	6.1	8.0	18.3	1.5	219.0
2000-2000	18.6	41.9	17.4	19.8	18.5	20.5	2.1	34.1	11.5	3.3	187.7
2001-2002	48.1	58.2	20.9	42.6	25.2	28.5	2.7	76.6	21.8	15.7	340.2
2001 Jun qtr	18.6	41.9	17.4	19.8	18.5	20.5	2.1	34.1	11.5	3.3	187.7
Sep. qtr	22.7	52.4	44.9	11.1	28.5	29.6	1.9	60.5	6.9	5.0	263.6
Dec. qtr	51.9	39.8	46.7	19.7	26.7	23.1	1.3	69.9	10.1	4.5	293.7
2002 Mar. qtr	63.0	59.8	55.2	33.6	19.5	19.6	1.8	66.5	5.9	12.8	337.6
Jun qtr	48.1	58.2	20.9	42.6	25.2	28.5	2.7	76.6	21.8	15.7	340.2
Sep. qtr	65.2	68.0	24.0	32.8	29.5	32.6	2.8	92.0	25.7	32.8	405.5
				PU	JBLIC SEC	TOR					
1999-2000	_	_	0.1	11.8	0.5	71.0	_	34.4	106.2	10.5	234.6
2000-2000	0.2	1.9	_	3.3	0.8	84.0	_	170.1	117.3	68.0	445.7
2001-2002	_	0.6	_	16.1	7.4	76.9	_	180.6	17.6	41.0	340.3
2001 Jun qtr	0.2	1.9	_	3.3	0.8	84.0	_	170.1	117.3	68.0	445.7
Sep. qtr	_	0.8	_	7.5	0.4	81.5	_	142.1	129.1	63.0	424.4
Dec. qtr	0.1	1.4	_	9.4	1.6	75.8	_	148.9	22.7	66.7	326.6
2002 Mar. qtr	_	0.6	_	10.5	4.5	52.2	_	168.5	25.6	72.1	334.0
Jun qtr	_	0.6	_	16.1	7.4	76.9	_	180.6	17.6	41.0	340.3
Sep. qtr	_	_	_	6.7	6.1	84.2	_	181.5	17.0	58.2	353.7
					TOTAL						
1999-2000	11.8	86.0	8.5	44.9	27.2	90.2	6.1	42.4	124.6	12.0	453.5
2000-2000	18.8	43.8	17.4	23.2	19.4	104.5	2.1	204.2	128.8	71.2	633.4
2001-2002	48.1	58.8	20.9	58.7	32.6	105.4	2.7	257.2	39.4	56.7	680.5
2001 Jun qtr	18.8	43.8	17.4	23.2	19.4	104.5	2.1	204.2	128.8	71.2	633.4
Sep. qtr	22.7	53.2	44.9	18.6	28.9	111.1	1.9	202.7	136.0	68.1	688.0
Dec. qtr	52.0	41.2	46.7	29.2	28.3	98.9	1.3	218.8	32.8	71.2	620.3
2002 Mar. qtr	63.0	60.4	55.2	44.0	24.0	71.8	1.8	235.1	31.6	84.8	671.6
Jun qtr	48.1	58.8	20.9	58.7	32.6	105.4	2.7	257.2	39.4	56.7	680.5
Sep. qtr	65.2	68.0	24.0	39.4	35.6	116.8	2.8	273.6	42.7	91.0	759.2

TABLE 9. NUMBER AND VALUE OF BUILDING COMPLETED(a): ORIGINAL

		Number of dwe	elling units					Value (\$m)			
Period	New houses	New other residential building	Con- versions etc.	Total dwelling units	New houses	New other residential building	New residential building	Alterations and additions to residential buildings	Total residential building	Total non-resi- dential building	Total building
				PRI	VATE SE	CTOR					
1999-2000	6,768	1,026	70	7,864	713.5	154.1	867.6	188.9	1,056.5	362.9	1,419.4
2000-2001	6,462	1,193	115	7,770	758.7	184.0	942.8	147.5	1,090.2	436.3	1,526.5
2001-2002	6,310	882	26	7,218	750.8	134.2	884.9	174.1	1,059.0	430.7	1,489.7
2001 Jun qtr	1,606	204	78	1,888	188.0	25.6	213.7	50.8	264.5	137.9	402.4
Sep. qtr	1,293	169	5	1,467	149.9	23.2	173.1	51.9	225.0	75.5	300.5
Dec. qtr	1,614	212	17	1,843	194.3	26.2	220.5	36.5	257.0	129.3	386.3
2002 Mar. qtr	1,474	285	2	1,761	174.8	57.1	231.9	38.0	269.9	83.8	353.7
Jun qtr	1,929	216	2	2,147	231.7	27.7	259.4	47.7	307.1	142.0	449.2
Sep. qtr	1,682	222	12	1,916	209.1	31.0	240.1	44.9	284.9	111.7	396.6
				PU	BLIC SEC	CTOR					
1999-2000	187	23		210	16.7	1.9	18.6	3.0	21.6	175.4	197.0
2000-2001	59	13	4	76	4.8	1.4	6.2	6.9	13.1	155.3	168.4
2001-2002	175	36		211	16.1	3.2	19.4	6.5	25.8	288.0	313.8
2001 Jun qtr	2	_	3	5	0.2	_	0.2	1.4	1.6	27.0	28.6
Sep. qtr	37	13	_	50	3.3	1.2	4.5	3.1	7.7	45.5	53.2
Dec. qtr	29	7	_	36	3.3	0.6	3.9	1.6	5.5	130.6	136.1
2002 Mar. qtr	26	6	_	32	2.4	0.5	2.9	1.4	4.3	43.6	47.8
Jun qtr	83	10	_	93	7.2	0.9	8.0	0.5	8.5	68.3	76.8
Sep. qtr	94	19	_	113	10.2	1.8	12.1	0.7	12.8	53.2	66.0
					TOTAL	,					
1999-2000	6,955	1,049	70	8,074	730.1	156.0	886.2	191.9	1,078.1	538.4	1,616,4
2000-2001	6,521	1,206	119	7,846	763.6	185.5	949.0	154.4	1,103.4	591.5	1,694.9
2001-2002	6,485	918	26	7,429	766.9	137.4	904.3	180.5	1,084.8	718.7	1,803.5
2001 Jun qtr	1,608	204	81	1,893	188.3	25.6	213.9	52.2	266.1	164.9	431.0
Sep. qtr	1,330	182	5	1,517	153.2	24.4	177.6	55.0	232.6	121.0	353.7
Dec. qtr	1,643	219	17	1,879	197.6	26.8	224.4	38.1	262.5	259.9	522.4
2002 Mar. qtr	1,500	291	2	1,793	177.2	57.6	234.8	39.4	274.2	127.4	401.6
Jun qtr	2,012	226	2	2,240	238.9	28.5	267.4	48.1	315.6	210.3	525.9
Sep. qtr	1,776	241	12	2,029	219.3	32.8	252.2	45.5	297.7	164.9	462.6

<sup>(</sup>a) Data is inclusive of non-deductible GST payable on residential buildings. See paragraphs 9 and 10 of the Explanatory Notes.

# TABLE 10. VALUE OF NON-RESIDENTIAL BUILDING COMPLETED: ORIGINAL (\$ million)

Period	Hotels etc.	Shops	Factories	Offices	Other business premises	Educational	Religious	Health	Entertain- ment and recreational	Miscel- laneous	Total non-resi- dential building
				PR	IVATE SEC	CTOR					
1999-2000	32.2	71.7	23.7	41.1	85.4	28.9	11.6	28.2	27.5	12.7	362.9
2000-2001	17.0	138.4	28.2	89.3	62.5	38.7	9.6	16.7	28.4	7.5	436.3
2001-2002	26.2	98.1	81.1	53.2	72.0	36.7	3.2	34.9	16.4	8.9	430.7
2001 Jun qtr	5.7	24.7	11.3	42.9	13.3	13.6	1.6	9.6	11.3	3.9	137.9
Sep. qtr	2.3	21.8	2.2	15.6	16.8	8.8	0.9	0.4	5.8	1.0	75.5
Dec. qtr	3.9	43.4	18.1	13.8	24.0	7.4	0.6	12.7	2.7	2.7	129.3
2002 Mar. qtr	2.0	12.5	10.2	7.7	23.5	8.6	0.8	10.5	6.2	1.8	83.8
Jun qtr	18.0	20.4	50.5	16.2	7.8	11.8	0.8	11.3	1.7	3.5	142.0
Sep. qtr	13.7	29.5	3.9	17.0	17.6	10.1	0.3	14.5	1.7	3.5	111.7
				PU	JBLIC SEC	TOR					
1999-2000	0.5	_	0.3	25.6	8.7	79.9	_	31.4	11.2	17.7	175.4
2000-2001	0.6	1.6	0.1	25.2	3.7	83.1	_	26.4	8.4	6.2	155.3
2001-2002	0.4	2.6	_	25.2	2.6	69.5	_	25.5	116.6	45.6	288.0
2001 Jun qtr	_	0.7	_	2.4	1.0	13.4	_	5.0	3.2	1.4	27.0
Sep. qtr	0.2	1.2	_	3.1	1.0	11.3	_	18.7	1.4	8.6	45.5
Dec. qtr	_	0.4	_	7.0	0.1	11.9	_	0.1	105.2	6.0	130.6
2002 Mar. qtr	0.2	0.9	_	4.4	0.7	34.6	_	_	1.8	0.9	43.6
Jun qtr	_	0.1	_	10.7	0.8	11.6	_	6.8	8.2	30.1	68.3
Sep. qtr	_	0.6	_	11.3	3.8	10.0	_	0.9	0.7	25.8	53.2
					TOTAL						
1999-2000	32.7	71.7	24.0	66.7	94.1	108.8	11.6	59.6	38.7	30.4	538.4
2000-2001	17.6	140.0	28.3	114.5	66.2	121.8	9.6	43.0	36.8	13.7	591.5
2001-2002	26.6	100.7	81.1	78.5	74.6	106.1	3.2	60.5	133.0	54.5	718.7
2001 Jun qtr	5.7	25.5	11.3	45.3	14.2	27.0	1.6	14.5	14.5	5.3	164.9
Sep. qtr	2.5	23.0	2.2	18.6	17.8	20.1	0.9	19.1	7.3	9.6	121.0
Dec. qtr	3.9	43.8	18.1	20.8	24.0	19.3	0.6	12.8	107.9	8.7	259.9
2002 Mar. qtr	2.3	13.4	10.2	12.1	24.2	43.3	0.8	10.5	7.9	2.7	127.4
Jun qtr	18.0	20.5	50.5	26.9	8.5	23.4	0.8	18.1	10.0	33.6	210.3
Sep. qtr	13.7	30.1	3.9	28.3	21.4	20.2	0.3	15.4	2.4	29.3	164.9

TABLE 11. VALUE OF BUILDING WORK DONE(a): ORIGINAL (\$ million)

		New other	New	Alterations and additions to	Total	Total non-resi-	
Period	New houses	residential building	residential building	residential buildings	residential building	dential building	Total building
			PRIVATE SE	CTOR			
1999-2000	798.1	186.4	984.5	190.7	1,175.2	409.9	1,585.1
2000-2001	679.7	155.8	835.5	154.9	990.4	395.0	1,385.4
2001-2002	852.9	190.4	1,043.3	189.2	1,232.5	522.1	1,754.6
2001 Jun qtr	161.6	35.7	197.3	46.1	243.4	97.2	340.6
Sep. qtr	184.2	43.5	227.7	46.5	274.2	112.7	386.9
Dec. qtr	219.4	42.5	261.9	47.5	309.4	146.8	456.3
2002 Mar. qtr	215.1	47.5	262.5	45.9	308.4	131.3	439.7
Jun qtr	234.2	57.0	291.2	49.3	340.4	131.3	471.7
Sep. qtr	261.1	59.2	320.3	56.9	377.2	163.1	540.3
			PUBLIC SEC	TOR			
1999-2000	14.1	1.4	15.5	4.7	20.2	219.5	239.7
2000-2001	7.2	2.3	9.5	7.0	16.5	229.0	245.5
2001-2002	18.8	3.2	22.0	4.6	26.6	256.1	282.8
2001 Jun qtr	2.2	0.9	3.1	2.1	5.2	66.7	71.9
Sep. qtr	3.0	0.5	3.5	2.2	5.7	58.0	63.6
Dec. qtr	3.2	0.4	3.6	0.9	4.5	66.9	71.4
2002 Mar. qtr	4.9	1.2	6.1	1.0	7.0	53.7	60.7
Jun qtr	7.8	1.0	8.8	0.5	9.4	77.6	87.0
Sep. qtr	9.3	0.8	10.1	0.6	10.8	62.2	73.0
			TOTAL				
1999-2000	812.2	187.7	999.9	195.5	1,195.4	629.4	1,824.8
2000-2001	686.9	158.1	845.0	161.9	1,006.8	624.0	1,630.9
2001-2002	871.7	193.6	1,065.3	193.9	1,259.2	778.2	2,037.4
2001 Jun qtr	163.8	36.5	200.3	48.2	248.6	163.9	412.5
Sep. qtr	187.2	44.0	231.2	48.7	279.9	170.6	450.5
Dec. qtr	222.6	42.9	265.5	48.4	314.0	213.8	527.7
2002 Mar. qtr	220.0	48.6	268.6	46.9	315.4	185.0	500.4
Jun qtr	242.0	58.0	300.0	49.8	349.8	208.9	558.7
Sep. qtr	270.4	60.0	330.4	57.5	388.0	225.3	613.3

<sup>(</sup>a) From the September quarter 2000, data is inclusive of non-deductible GST payable on residential buildings. See paragraphs 9 and 10 of the Explanatory Notes.

TABLE 12. VALUE OF NON-RESIDENTIAL BUILDING WORK DONE: ORIGINAL (\$ million)

Period	Hotels etc.	Shops	Factories	Offices	Other business premises	Educational	Religious	Health	Entertain- ment and recreational	Miscel- laneous	Total non-resi- dential building
				PR	IVATE SE	CTOR					
1999-2000	18.6	121.4	24.5	46.9	87.9	37.3	14.8	26.2	21.9	10.3	409.9
2000-2001	14.8	102.7	32.9	85.3	58.1	37.4	6.8	23.4	24.7	8.8	395.0
2001-2002	53.3	111.6	79.5	64.3	77.0	37.5	2.6	65.2	17.1	14.0	522.1
2001 Jun qtr	4.0	25.2	14.1	18.3	11.0	9.3	1.0	9.2	3.1	2.1	97.2
Sep. qtr	9.8	23.5	17.9	15.4	21.4	7.9	0.4	13.1	1.8	1.4	112.7
Dec. qtr	11.4	34.5	26.9	15.0	24.8	10.6	0.3	16.7	4.5	2.1	146.8
2002 Mar. gtr	16.8	25.7	24.6	13.7	17.3	5.7	1.1	16.7	4.5	5.2	131.3
Jun qtr	15.3	27.9	10.2	20.2	13.5	13.3	0.8	18.6	6.2	5.2	131.3
Sep. qtr	16.7	34.9	7.7	16.8	21.0	17.7	1.3	29.0	6.4	11.5	163.1
				PU	JBLIC SEC	CTOR					
1999-2000	0.5	_	0.1	32.2	7.3	92.2	_	39.9	26.3	21.0	219.5
2000-2001	0.8	2.3	_	16.5	4.2	64.1	_	28.0	68.3	44.8	229.0
2001-2002	0.3	2.4	_	33.1	6.4	72.0	_	53.8	53.0	35.1	256.1
2001 Jun qtr	0.2	1.3	_	2.5	1.0	16.7	_	12.3	10.2	22.6	66.7
Sep. qtr	_	1.1	_	4.3	0.6	15.8	_	6.8	14.1	15.2	58.0
Dec. qtr	0.1	0.8	_	11.3	0.2	18.4	_	6.9	22.4	6.9	66.9
2002 Mar. qtr	0.2	0.4	_	5.2	2.0	18.4	_	13.4	7.1	6.9	53.7
Jun qtr	_	0.1	_	12.4	3.6	19.4	_	26.6	9.4	6.1	77.6
Sep. qtr	_	0.1	_	4.9	2.7	18.9	_	25.3	2.0	8.4	62.2
					TOTAL						
1999-2000	19.1	121.4	24.7	79.1	95.2	129.5	14.8	66.1	48.2	31.3	629.4
2000-2001	15.5	105.1	32.9	101.9	62.4	101.5	6.8	51.4	93.0	53.6	624.0
2001-2002	53.6	114.1	79.5	97.5	83.4	109.5	2.6	118.9	70.1	49.1	778.2
2001 Jun qtr	4.1	26.5	14.1	20.8	11.9	26.1	1.0	21.5	13.3	24.7	163.9
Sep. qtr	9.8	24.6	17.9	19.6	22.0	23.7	0.4	20.0	15.9	16.6	170.6
Dec. qtr	11.5	35.4	26.9	26.3	25.0	28.9	0.3	23.6	26.9	9.0	213.8
2002 Mar. qtr	17.0	26.1	24.6	19.0	19.4	24.0	1.1	30.1	11.6	12.1	185.0
Jun qtr	15.3	28.0	10.2	32.6	17.1	32.8	0.8	45.3	15.7	11.3	208.9
Sep. qtr	16.7	35.0	7.7	21.7	23.7	36.7	1.3	54.3	8.4	19.9	225.3

TABLE 13. VALUE OF BUILDING WORK YET TO BE DONE AT END OF PERIOD(a): ORIGINAL (\$ million)

			(\$ million	1)			
Period	New houses	New other residential building	New residential building	Alterations and additions to residential buildings	Total residential building	Total non-resi- dential building	Total building
			PRIVATE SE	CTOR			
1999-2000	187.3	57.4	244.7	34.7	279.4	84.9	364.3
2000-2001	131.2	67.6	198.8	39.5	238.3	94.6	333.0
2001-2002	263.9	110.9	374.8	50.0	424.7	156.5	581.2
2001 Jun qtr	131.2	67.6	198.8	39.5	238.3	94.6	333.0
Sep. qtr	169.1	125.9	295.1	36.9	332.0	133.4	465.4
Dec. qtr	212.3	115.0	327.4	42.9	370.3	146.2	516.5
2002 Mar. qtr	225.3	119.3	344.6	49.3	393.9	143.4	537.4
Jun qtr	263.9	110.9	374.8	50.0	424.7	156.5	581.2
Sep. qtr	315.9	94.4	410.3	53.5	463.8	170.6	634.4
			PUBLIC SEC	CTOR			
1999-2000	1.7	_	1.7	1.3	3.1	129.0	132.1
2000-2001	3.4	0.4	3.8	0.5	4.3	262.8	267.1
2001-2002	8.5	0.6	9.1	0.1	9.3	193.8	203.0
2001 Jun qtr	3.4	0.4	3.8	0.5	4.3	262.8	267.1
Sep. qtr	2.1	1.0	3.1	0.5	3.6	232.9	236.6
Dec. qtr	4.1	2.0	6.1	0.1	6.2	199.3	205.5
2002 Mar. qtr	7.7	1.4	9.1	_	9.1	196.9	205.9
Jun qtr	8.5	0.6	9.1	0.1	9.3	193.8	203.0
Sep. qtr	9.3	0.8	10.1	0.1	10.1	198.2	208.3
			TOTAL	ı			
1999-2000	189.0	57.4	246.4	36.1	282.5	213.8	496.4
2000-2001	134.6	68.0	202.6	40.0	242.6	357.4	600.0
2001-2002	272.4	111.5	383.9	50.1	434.0	350.3	784.3
2001 Jun qtr	134.6	68.0	202.6	40.0	242.6	357.4	600.0
Sep. qtr	171.2	127.0	298.2	37.4	335.6	366.4	702.0
Dec. qtr	216.5	117.0	333.5	43.0	376.4	345.5	721.9
2002 Mar. qtr	233.0	120.7	353.7	49.3	403.0	340.3	743.3
Jun qtr	272.4	111.5	383.9	50.1	434.0	350.3	784.3
Sep. qtr	325.2	95.2	420.4	53.6	473.9	368.7	842.7

<sup>(</sup>a) Data is inclusive of non-deductible GST payable on residential buildings. See paragraphs 9 and 10 of the Explanatory Notes.

TABLE 14. VALUE OF NON-RESIDENTIAL BUILDING WORK YET TO BE DONE AT END OF PERIOD: ORIGINAL (\$ million)

Period	Hotels etc.	Shops	Factories	Offices	Other business premises	Educational	Religious	Health	Entertain- ment and recreational	Miscel- laneous	Total non-resi- dential building
				PR	IVATE SE	CTOR					
1999-2000	5.7	20.2	4.2	20.9	11.1	7.4	2.4	4.3	7.8	0.7	84.9
2000-2001	14.8	12.1	8.6	11.8	7.4	9.6	1.1	23.5	4.5	1.1	94.6
2001-2002	16.8	15.4	14.4	23.4	9.1	16.9	2.3	35.7	14.0	8.5	156.5
2001 Jun qtr	14.8	12.1	8.6	11.8	7.4	9.6	1.1	23.5	4.5	1.1	94.6
Sep. qtr	11.2	20.9	20.5	3.3	12.9	19.7	1.3	37.3	3.9	2.4	133.4
Dec. qtr	32.9	17.2	13.4	10.6	10.5	10.0	1.0	42.7	5.3	2.5	146.2
2002 Mar. qtr	29.1	24.4	8.3	18.4	9.3	9.5	1.3	33.1	2.7	7.3	143.4
Jun qtr	16.8	15.4	14.4	23.4	9.1	16.9	2.3	35.7	14.0	8.5	156.5
Sep. qtr	31.1	19.7	13.7	13.8	10.1	13.4	1.5	36.6	13.2	17.6	170.6
				PU	JBLIC SEC	CTOR					
1999-2000	_	_	_	1.9	0.5	22.4	_	13.1	89.2	1.8	129.0
2000-2001	_	1.2	_	2.1	0.3	54.2	_	147.1	36.8	21.1	262.8
2001-2002	_	0.1	_	7.0	3.1	44.4	_	130.2	5.2	3.9	193.8
2001 Jun gtr	_	1.2	_	2.1	0.3	54.2	_	147.1	36.8	21.1	262.8
Sep. qtr	_	0.2	_	5.0	0.3	47.1	_	130.9	40.3	9.1	232.9
Dec. qtr	0.1	0.5	_	2.7	1.4	34.8	_	130.8	16.7	12.3	199.3
2002 Mar. qtr	_	0.1	_	3.0	2.9	27.5	_	138.0	14.4	10.9	196.9
Jun qtr	_	0.1	_	7.0	3.1	44.4	_	130.2	5.2	3.9	193.8
Sep. qtr	_	_	_	3.9	2.9	42.8	_	106.7	3.4	38.5	198.2
					TOTAL	ı					
1999-2000	5.7	20.2	4.3	22.8	11.7	29.8	2.4	17.4	97.0	2.5	213.8
2000-2001	14.8	13.3	8.6	13.9	7.8	63.8	1.1	170.7	41.3	22.2	357.4
2001-2002	16.8	15.5	14.4	30.4	12.2	61.3	2.3	165.9	19.2	12.4	350.3
2001 Jun qtr	14.8	13.3	8.6	13.9	7.8	63.8	1.1	170.7	41.3	22.2	357.4
Sep. qtr	11.2	21.1	20.5	8.3	13.3	66.8	1.3	168.2	44.2	11.5	366.4
Dec. qtr	33.0	17.6	13.4	13.4	11.8	44.8	1.0	173.5	22.0	14.8	345.5
2002 Mar. qtr	29.1	24.5	8.3	21.4	12.2	37.0	1.3	171.1	17.1	18.2	340.3
Jun qtr	16.8	15.5	14.4	30.4	12.2	61.3	2.3	165.9	19.2	12.4	350.3
Sep. qtr	31.1	19.8	13.7	17.7	13.0	56.1	1.5	143.2	16.6	56.1	368.7

# TABLE 15. BUILDING ACTIVITY RELATIVE STANDARD ERRORS, SEPTEMBER QUARTER 2002 (Percentage)

			New residen	tial building		Value			
	House	?s	Other reside	ntial	Total		47		
Stage of construction	Number	Value	Number of dwelling units	Value	Number of dwelling units	Value	Alterations and additions to residential buildings	Non- residential	Total building
Commenced	3.0	3.3	3.1	3.0	2.7	3.0	6.4	2.0	1.9
Under construction at end of period	2.2	2.4	0.8	0.7	1.6	1.7	4.6	1.0	1.0
Completed	4.1	4.4	3.8	3.3	3.7	3.8	8.1	2.2	2.4
Value of work done		2.3		1.0		1.9	4.8	2.1	1.4
Value of work yet to be done		2.9		1.1		2.3	5.5	1.0	1.3

# TABLE 16. BUILDING ACTIVITY RELATIVE STANDARD ERRORS, NON-RESIDENTIAL: SEPTEMBER QUARTER 2002 (Percentage)

State of construction	Hotels etc.	Shops	Factories	Offices	Other business premises	Educational	Religious	Health	Entertain- ment and recreational	Miscel- laneous	Total non-resi- dential building
Value of work commenced	4.0	12.3	10.4	8.1	4.8	1.7	59.8	5.4	_	1.6	2.0
Value of work under construction	1.9	10.7	2.0	1.7	5.5	0.6	_	0.7	0.9	0.8	1.0
Value of work completed	4.1	6.9	20.4	4.1	6.9	3.5	92.4	10.2	34.8	3.4	2.2
Value of work done	3.9	11.6	9.4	2.5	5.0	1.9	21.6	3.5	4.5	4.8	2.1
Value of work yet to be done	2.9	17.9	2.0	2.5	6.8	0.1	_	0.3	1.1	0.6	1.0

#### INTRODUCTION

- **1** This publication contains detailed estimates from the quarterly Building Activity Survey. Each issue includes revisions to the previous quarter. Therefore data for the latest quarter should be considered to be preliminary only.
- **2** The 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 jobs involving residential building jobs valued at \$10,000 or more and non-residential building jobs valued at \$50,000 or more; and
- a complete enumeration of all such public sector building jobs.
- **3** From the September quarter 1990, only non-residential building jobs (both new and alterations and additions) with an approval value of \$50,000 (previously \$30,000) or more are included in the survey.
- **4** The use of sample survey techniques in the Building Activity Survey means that reliable estimates of private sector building activity are generally available only at state, territory and Australia levels. Although subject to higher relative standard errors (refer to paragraphs 23–25), a range of sub-state estimates of building activity may be available. For further information on the availability of Building Activity estimates, contact the ABS in Adelaide on 08 8237 7316. Detailed data on building approvals, based on information reported by local government and other reporting authorities, are available for regions below state and territory level from the Building Approvals series compiled by the ABS.

### SCOPE AND COVERAGE

- **5** The statistics relate to *building* 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.
- **6** Building jobs included in each quarter in the Building Activity Survey comprise those jobs selected in previous quarters which have not been completed (or commenced) by the end of the previous quarter and those jobs newly selected in the current quarter. The population list from which jobs are selected for inclusion comprises all approved building jobs which were notified to the ABS (refer to paragraph 2) up to but not including the last month of the reference quarter (e.g. up to the end of August in respect of the September quarter survey). This introduces a lag to the statistics in respect of those jobs notified *and* commenced in the last month of the reference quarter (e.g. for the month of September in respect of the September quarter survey). For example, jobs which were notified as approved in the month of June and which actually commenced in that month are shown as commencements in the September quarter. Similarly, building jobs which were notified in the month of September and which actually commenced in that month are shown as commencements in the December quarter.

#### TREATMENT OF GST

- **7** Statistics on value of building work (current prices) show residential building on a GST inclusive basis and non-residential building 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).
- **8** 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.

- **9** 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 data inclusive of GST in respect of residential construction and exclusive of GST in respect of non-residential construction.
- **10** 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 data 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**

- **11** 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.
- **12** 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 the appropriate category of non-residential building.
- **13** 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, apartment buildings, etc.).

**DEFINITIONS** continued

- **14** From the June quarter 1996 issue of this publication, the number of dwelling units created as part of alterations and additions to, or conversions of, existing residential or non-residential buildings, and as part of the construction of non-residential building is shown separately in tables 5, 7, and 9 under the heading of 'Conversions, etc.', and is included in the total number of dwelling units shown in these tables. Previously, such dwellings were only included as a footnote.
- **15** In addition, the seasonally adjusted estimates for the total number of dwelling units commenced and completed, shown in table 4, include these conversions, etc. Previously, only dwelling units created as part of the construction of new residential buildings were included in these estimates.
- **16** *Commenced*. A building job is regarded as commenced when the first physical building activity has been performed on site in the form of materials fixed in place and/or labour expended (this includes site preparation but excludes delivery of building materials, the drawing of plans and specifications and the construction of non-building infrastructures such as roads).
- **17** *Under construction*. A building job is regarded as being under construction at the end of a period if it has been commenced but has not been completed, and work on it has not been abandoned.
- **18** *Completed.* A building job is regarded as completed when building activity has progressed to the stage when the building can fulfil its intended function. In practice, the ABS regards buildings as completed when notified as such by respondents to the survey.

### VALUATION OF BUILDING JOBS

- **19** The value series in this publication are derived from estimates reported on survey returns as follows.
- Value of building commenced or under construction represents the anticipated completion value based, where practicable, on estimated market or contract price of building jobs excluding the value of land and landscaping. Site preparation costs are included. Where jobs proceed over several quarters, the anticipated completion value reported on the return for the first (commencement) quarter may be amended on returns for subsequent (under construction) quarters as the job nears completion.
- Value of building completed represents the actual completion value based, where practicable, on the market or contract price of jobs including site preparation costs but excluding the value of land and landscaping.
- 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.
- Value of building work yet to be done represents the difference between the
  anticipated completion value and the estimated value of work done up to the
  end of the period on jobs commenced but not completed.

#### **BUILDING CLASSIFICATION**

- **20** *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.
- **21** Functional classification of buildings. A building is classified according to its intended major function. Hence, a building which is ancillary to other buildings or forms a part of a group of related buildings is classified to the function of the building and not to the function of the group as a whole. An example of this can be seen in the treatment of building work approved for a factory complex. In this case a detached administration building would be classified to Offices, a detached cafeteria building to Shops, while factory buildings would be classified to Factories. An exception to this rule is the treatment of group accommodation buildings where, for example, a student accommodation building on a university campus would be classified to Educational.
- **22** Examples of the types of buildings included under each main functional heading are shown in the following list.
- Houses. Includes cottages, bungalows, detached caretakers'/managers' cottages, rectories.
- Other residential buildings. Includes blocks of flats, home units, attached townhouses, villa units, terrace houses, semi-detached houses, maisonettes.
- Hotels, etc. Includes motels, hostels, boarding houses, guest houses, holiday apartment buildings.
- Shops. Includes retail shops, restaurants, cafes, taverns, dry cleaners, laundromats, hair salons, shopping arcades.
- Factories. Includes paper mills, oil refinery buildings, brickworks, foundries, powerhouses, manufacturing laboratories, workshops as part of a manufacturing process.
- Offices. Includes banks, post offices, council chambers, head and regional offices.
- Other business premises. Includes warehouses, storage depots, service stations, transport depots and terminals, car parks, electricity substation buildings, pumping station buildings, telephone exchanges, mail sorting centres, broadcasting stations, film studios.
- Educational. Includes schools, colleges, universities, kindergartens, libraries, museums, art galleries, research and teaching laboratories, theological colleges
- *Religious*. Includes churches, chapels, temples.
- Health. Includes hospitals, nursing homes, surgeries, clinics, medical centres.
- *Entertainment and recreational*. Includes clubs, theatres, cinemas, public halls, gymnasiums, grandstands, squash courts, sports and recreation centres.
- Miscellaneous. Includes law courts, homes for the aged (where medical care is not provided as a normal service), orphanages, gaols, barracks, mine buildings, glasshouses, livestock sheds, shearing sheds, fruit and skin drying sheds, public toilets, and ambulance, fire and police stations.

#### RELIABILITY OF THE ESTIMATES

- 23 Since the figures for private sector building activity (including alterations and additions) are derived from information obtained from a sample of approved building jobs, they are subject to sampling error; that is, they may differ from the figures that would have been obtained if information for all approved jobs for the relevant period had been included in the survey. One measure of the likely difference is given by the standard error (SE), which indicates the extent to which an estimate might have varied by chance because only a sample of approved jobs was included. There are about two chances in three that a sample estimate will differ by less than one SE from the figure that would have been obtained if all approved jobs had been included, and about nineteen chances in twenty that the difference will be less than two SEs. Another measure of sampling variability is the relative standard error (RSE), which is obtained by expressing the SE as a percentage of the estimate to which it refers. The RSEs of estimates provide an indication of the percentage errors likely to have occurred due to sampling, and are shown in tables 15 and 16.
- **24** An example of the use of RSEs is as follows. Assume that the estimate of the number of new private sector houses commenced during the latest quarter is 2,000 (for actual estimate see table 5) and that the associated RSE is 2.5% (for actual percentage see table 15). There would then be about two chances in three that the number which would have been obtained if information had been collected about all approved private sector house jobs would have been within the range 1,950 to 2,050 (2.5% of 2,000 is 50) and about nineteen chances in twenty that the number would have been within the range 1,900 to 2,100.
- **25** The imprecision due to sampling variability, which is measured by the RSE, should not be confused with inaccuracies that may occur because of inadequacies in the source of building approval information, imperfections in reporting by respondents, and errors made in the coding and processing of data. Inaccuracies of this kind are referred to as non-sampling error, and may occur in any enumeration whether it be a full count or only a sample. Every effort is made to reduce the non-sampling error to a minimum by the careful design of questionnaires, efforts to obtain responses for all selected jobs, and efficient operating procedures.

#### SEASONAL ADJUSTMENT

**26** Seasonally adjusted building statistics are shown in tables 2 to 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. Further information about seasonal adjustment can be obtained from the Assistant Director of Time Series Analysis on Canberra 02 6252 6076.

#### SEASONAL ADJUSTMENT continued

- 27 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. Some of the component series shown have 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. Therefore, figures should not be derived using the adjusted totals. (For example, seasonally adjusted public sector dwelling units should not be derived by subtracting seasonally adjusted private sector dwellings units from the seasonally adjusted total). In table 3, the components of the current price value series have, however, been seasonally adjusted dependently, and the seasonally adjusted components of series in that table add to the seasonally adjusted total.
- **28** 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.

#### CHAIN VOLUME MEASURES

- 29 Chain volume estimates of the value of commencements and work done are shown in tables 1 and 2. While current price estimates of the value of commencements and 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'.
- **30** The chain volume measures of commencements and work done appearing in this publication are annually reweighted chain Laspeyres indexes referenced to current price values in a chosen reference year (currently 2000–01). The reference year is updated annually in the June quarter publication. Each year's data in the value of commencements and 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. 2000–01). 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).
- **31** The factors used to seasonally adjust the chain volume series are identical to those used to adjust the corresponding current price series.

#### **ACKNOWLEDGMENT**

**32** 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

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

Building Activity, Australia (cat. no. 8752.0) Quarterly Construction Work Done, Australia, Preliminary (cat. no. 8755.0) Quarterly Building Activity, Australia: Dwelling Unit Commencements, Preliminary (cat. no. 8750.0) Quarterly

Building Approvals, Australia (cat. no. 8731.0) Monthly Building Approvals, South Australia (cat. no. 8731.4) Quarterly Engineering Construction Activity, Australia (cat. no. 8762.0) Quarterly Housing Finance for Owner Occupation, Australia (cat. no. 5609.0) Monthly.

**34** 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 <a href="http://www.abs.gov.au">http://www.abs.gov.au</a>. The ABS also issues a daily Release Advice on the web site which details products to be released in the week ahead.

### ABA DATA AVAILABLE ON REQUEST

**35** 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.

### SYMBOLS AND OTHER USAGES

ABS Australian Bureau of Statistics
RSE relative standard error
SE standard error
.. not applicable
— nil or rounded to zero

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

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