



# BUILDING ACTIVITY

NEW SOUTH WALES

EMBARGO: 11:30AM (CANBERRA TIME) THURS 31 JAN 2002

## SEPTEMBER QTR KEY FIGURES

SEASONALLY ADJUSTED	Sep qtr 01	Jun qtr 01 to Sep qtr 01 % change	Sep qtr 00 to Sep qtr 01 % change
Value of work done(a) (\$m)	2 642.9	6.4	-10.7
New residential building (\$m)	1 341.2	12.8	-11.9
Alterations and additions(b) (\$m)	293.4	4.8	7.1
Non-residential building (\$m)	1 008.3	-0.7	-13.3
Total dwelling units commenced (no.)	10 601	24.4	37.3
New private sector houses (no.)	5 715	25.3	32.4

(a) Chain volume measures, reference year 1999–2000. (b) To residential buildings.

## SEPTEMBER QTR KEY POINTS

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

- The seasonally adjusted estimate of total building work done rose 6.4% in the September quarter 2001 to \$2,642.9m. This was the second successive quarterly increase from the lowest for 14 years.
- The latest increase was confined to the residential sector. Work done on new residential buildings was up 12.8%, with new houses up by 13.2% to \$779.6m. Work on new other residential buildings rose 12.2% to \$561.5m, the first increase since the June quarter 2000. Alterations and additions rose 4.8% to \$293.4m.
- Non-residential building work done fell marginally, by 0.7% to \$1,008.3m.

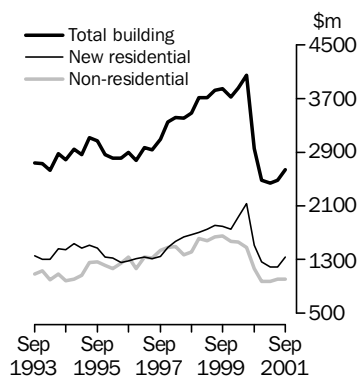
### VALUE OF WORK COMMENCED, ORIGINAL, VOLUME TERMS

- Total building work commenced jumped 36.4% in the September quarter to \$2,993.9m, the highest since the March quarter 2000.
- New residential commencements jumped 49.5% to \$1,698.8m. New houses jumped 21.1% to \$824.5m, while new other residential buildings surged 91.9% to \$874.3m, the highest since the record level of two years earlier. Alterations and additions jumped 21.0% in the September quarter to \$306.3m.
- Non-residential commencements jumped 22.7% to \$988.9m. The previous quarter was the lowest for nine years.

### NUMBER OF DWELLING UNITS COMMENCED, SEASONALLY ADJUSTED

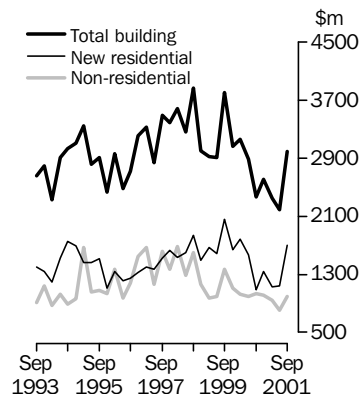
- In seasonally adjusted terms, the total number of dwelling units commenced jumped 24.4% in the September quarter to 10,601, and were 37.3% more than a year earlier. Commencements of new private sector houses jumped by 25.3% to 5,715.

### Value of work done

Volume terms  
Seasonally adjusted

### Value of work commenced

Volume terms



- 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.

## NOTES

### FORTHCOMING ISSUES

<i>ISSUE (Quarter)</i>	<i>RELEASE DATE</i>
December 2001	1 May 2002
March 2002	30 July 2002

### ABOUT THIS ISSUE

This publication contains the first detailed estimates for New South Wales 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 2001 will be released in *Building Activity, New South Wales* (Cat. no. 8752.1) on 1 May 2002.

### SIGNIFICANT REVISIONS THIS ISSUE

Compared with the estimates in original terms published in the previous issue of this publication:

- the total number of dwellings commenced during the June quarter 2001 has been revised downwards by 196 (-2.3%), and
- while the total value of building work commenced during the June quarter is little changed, residential building has been revised downwards by \$24.0m (-1.5%) and non-residential building upwards by \$24.9m (+3.2%).

Geoff Smith  
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New South Wales

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

Period	New residential building			Alterations and additions to residential buildings	Non-residential building		Total building
	Houses	Other residential building	Total		Private sector	Total	
1998-1999	3,936.7	2,654.6	6,590.3	1,370.9	3,868.1	4,729.3	12,698.5
1999-2000	4,464.5	2,589.7	7,054.3	1,380.9	3,336.8	4,490.6	12,926.0
2000-2001	2,529.1	2,169.1	4,698.2	1,025.9	3,037.3	3,805.3	9,529.4
2000 Jun qtr	1,136.3	435.7	1,571.8	332.8	775.4	990.8	2,895.0
Sep. qtr	601.7	488.6	1,090.3	241.9	826.1	1,037.6	2,369.9
Dec. qtr	636.4	701.4	1,337.8	259.0	779.3	1,014.4	2,611.2
2001 Mar. qtr	610.1	523.5	1,133.6	271.9	778.0	947.2	2,352.7
Jun qtr	680.9	455.6	1,136.5	253.1	653.9	806.1	2,195.6
Sep. qtr	824.5	874.3	1,698.8	306.3	737.6	988.9	2,993.9

(a) Reference year for chain volume measures is 1999-2000. See paragraphs 29 and 30 of the Explanatory Notes.

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

Period	New residential building			Alterations and additions to residential buildings	Non-residential building		Total building
	Houses	Other residential building	Total		Private sector	Total	
ORIGINAL							
1998-1999	3,794.0	3,157.7	6,952.4	1,526.6	4,913.0	6,262.1	14,742.7
1999-2000	4,400.2	3,215.2	7,615.4	1,606.9	4,873.7	6,266.6	15,488.8
2000-2001	2,922.5	2,242.8	5,165.3	1,084.0	3,189.3	4,130.0	10,379.4
2000 Jun qtr	1,294.9	859.8	2,154.3	415.3	1,156.7	1,474.0	4,043.3
Sep. qtr	882.0	648.9	1,530.9	287.3	969.7	1,190.2	3,008.4
Dec. qtr	717.7	582.6	1,300.2	267.3	809.3	1,030.3	2,597.9
2001 Mar. qtr	628.1	505.3	1,133.5	260.1	693.2	898.7	2,292.3
Jun qtr	694.7	506.0	1,200.7	269.3	717.1	1,010.8	2,480.8
Sep. qtr	791.7	557.1	1,348.8	308.0	746.0	1,028.5	2,685.3
SEASONALLY ADJUSTED							
2000 Jun qtr	1,281.1	851.0	2,135.9	431.3	1,182.2	1,481.4	4,055.1
Sep. qtr	869.5	653.2	1,522.6	274.0	922.0	1,163.6	2,960.2
Dec. qtr	707.0	557.7	1,264.7	250.4	762.0	973.4	2,488.5
2001 Mar. qtr	657.1	531.6	1,188.7	279.6	770.6	977.3	2,445.6
Jun qtr	689.0	500.3	1,189.3	280.0	734.6	1,015.7	2,485.0
Sep. qtr	779.6	561.5	1,341.2	293.4	709.2	1,008.3	2,642.9

(a) Reference year for chain volume measures is 1999-2000. See paragraphs 29 to 31 of the Explanatory Notes.

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

Period	New residential building			Alterations and additions to residential buildings	Non-residential building		Total building
	Houses	Other residential building	Total		Private sector	Total	
2000 Jun. qtr	1,318.5	864.9	2,188.1	445.2	1,200.6	1,503.7	4,143.7
Sep. qtr	984.3	731.1	1,707.9	311.3	939.0	1,185.7	3,199.6
Dec. qtr	799.6	619.0	1,412.6	284.2	775.2	991.5	2,699.7
2001 Mar. qtr	745.1	582.3	1,337.3	318.2	780.1	991.1	2,632.4
Jun. qtr	783.5	543.1	1,328.9	319.6	739.7	1,024.8	2,675.6
Sep. qtr	891.5	608.5	1,494.4	336.6	714.9	1,015.2	2,844.0

(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**

Period	New houses				Total dwelling units (includes conversions etc)			
	Private sector		Total		Private sector		Total	
	Commenced	Completed	Commenced	Completed	Commenced	Completed	Commenced	Completed
2000 Jun. qtr	7,828	7,751	7,873	7,780	12,192	14,067	12,396	14,093
Sep. qtr	4,316	7,472	4,356	7,543	7,445	13,387	7,722	13,855
Dec. qtr	4,732	6,100	4,746	6,096	9,296	11,717	9,614	11,854
2001 Mar. qtr	4,013	4,940	4,050	5,022	7,339	8,710	7,631	9,092
Jun. qtr	4,562	4,466	4,602	4,470	8,202	7,642	8,520	7,818
Sep. qtr	5,715	4,779	5,730	4,827	10,543	8,786	10,601	9,129

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

Period	Number of dwelling units				Value (\$m)						
	New houses	New other residential building	Conversions etc.	Total dwelling units	New houses	New other residential building	New residential building	Alterations and additions to residential buildings	Total residential building	Total non-residential building	Total building
<b>PRIVATE SECTOR</b>											
1998-1999	27,155	19,673	1,336	48,164	3,682.8	2,398.0	6,080.7	1,267.4	7,348.1	3,743.9	11,092.0
1999-2000	30,566	18,646	702	49,914	4,439.1	2,515.0	6,954.0	1,359.5	8,313.6	3,336.8	11,650.4
2000-2001	17,618	13,791	841	32,251	2,846.4	2,162.8	5,009.2	1,148.6	6,157.8	3,022.6	9,180.4
2000 Jun. qtr	7,830	3,717	127	11,674	1,164.5	441.3	1,605.8	334.8	1,940.5	776.3	2,716.8
Sep. qtr	4,363	3,125	219	7,707	675.0	486.7	1,161.7	268.4	1,430.1	823.6	2,253.7
Dec. qtr	4,653	4,432	208	9,293	717.5	716.3	1,433.8	291.4	1,725.1	774.2	2,499.3
2001 Mar. qtr	4,044	3,060	310	7,414	686.0	515.5	1,201.6	305.2	1,506.8	772.9	2,279.7
Jun. qtr	4,558	3,174	104	7,837	767.9	444.3	1,212.2	283.6	1,495.8	651.9	2,147.7
Sep. qtr	5,779	4,908	253	10,940	938.3	912.0	1,850.3	344.9	2,195.2	740.4	2,935.7
<b>PUBLIC SECTOR</b>											
1998-1999	393	1,148	23	1,564	38.9	101.4	140.3	26.1	166.4	834.4	1,000.8
1999-2000	188	784	21	993	25.4	74.8	100.3	21.4	121.7	1,153.9	1,275.5
2000-2001	133	1,038	8	1,179	19.7	122.3	142.0	15.0	157.0	764.3	921.3
2000 Jun. qtr	50	152	1	203	6.6	15.3	21.9	8.1	30.1	215.8	245.9
Sep. qtr	41	308	5	354	6.1	34.2	40.4	5.0	45.4	211.0	256.3
Dec. qtr	16	179	2	197	2.3	22.9	25.3	2.2	27.5	233.6	261.0
2001 Mar. qtr	34	284	—	318	5.4	32.1	37.5	3.0	40.5	168.0	208.5
Jun. qtr	42	267	1	310	5.9	32.9	38.9	4.8	43.7	151.8	195.4
Sep. qtr	16	130	—	146	3.0	16.9	19.9	6.4	26.3	252.4	278.7
<b>TOTAL</b>											
1998-1999	27,548	20,821	1,359	49,728	3,721.7	2,499.4	6,221.1	1,293.4	7,514.5	4,578.3	12,092.9
1999-2000	30,754	19,430	723	50,907	4,464.5	2,589.8	7,054.3	1,380.9	8,435.2	4,490.7	12,925.9
2000-2001	17,751	14,829	849	33,430	2,866.2	2,285.0	5,151.2	1,163.6	6,314.8	3,786.9	10,101.7
2000 Jun. qtr	7,880	3,869	128	11,877	1,171.1	456.6	1,627.7	342.9	1,970.6	992.1	2,962.7
Sep. qtr	4,404	3,433	224	8,061	681.1	520.9	1,202.0	273.4	1,475.4	1,034.6	2,510.0
Dec. qtr	4,669	4,611	210	9,490	719.8	739.2	1,459.0	293.6	1,752.6	1,007.7	2,760.4
2001 Mar. qtr	4,078	3,344	310	7,732	691.4	547.7	1,239.1	308.2	1,547.3	940.9	2,488.2
Jun. qtr	4,600	3,441	105	8,147	773.8	477.2	1,251.0	288.4	1,539.5	803.6	2,343.1
Sep. qtr	5,795	5,038	253	11,086	941.3	928.9	1,870.2	351.3	2,221.5	992.8	3,214.4

(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)**

<i>Period</i>	<i>Hotels etc.</i>	<i>Shops</i>	<i>Factories</i>	<i>Offices</i>	<i>Other business premises</i>	<i>Educational</i>	<i>Religious</i>	<i>Health</i>	<i>Entertainment and recreational</i>	<i>Miscellaneous</i>	<i>Total non-residential building</i>
<b>PRIVATE SECTOR</b>											
1998-1999	382.8	820.0	307.8	1,054.5	549.5	127.8	53.0	141.8	262.4	44.2	3,743.9
1999-2000	303.7	870.3	322.6	629.8	549.0	167.3	39.3	123.1	264.1	67.6	3,336.8
2000-2001	111.7	719.2	204.3	987.8	361.6	113.9	62.0	100.1	289.5	72.6	3,022.6
2000 Jun qtr	25.0	276.8	74.5	148.2	115.7	38.9	10.3	20.0	45.3	21.7	776.3
Sep. qtr	18.9	165.9	42.4	358.2	92.0	35.5	10.7	20.6	68.1	11.3	823.6
Dec. qtr	10.5	175.4	67.1	272.0	111.7	34.7	16.8	17.6	36.4	31.8	774.2
2001 Mar. qtr	14.5	287.4	39.4	145.1	72.8	22.3	11.5	32.3	135.0	12.8	772.9
Jun qtr	67.9	90.5	55.3	212.5	85.0	21.5	22.9	29.6	50.0	16.7	651.9
Sep. qtr	22.9	150.9	74.0	185.3	132.1	34.3	6.0	36.1	63.8	35.0	740.4
<b>PUBLIC SECTOR</b>											
1998-1999	11.8	4.6	3.3	72.1	121.1	246.4	—	158.0	149.6	67.6	834.4
1999-2000	21.0	7.7	2.3	126.8	144.8	245.5	—	399.0	112.0	94.8	1,153.9
2000-2001	0.9	4.1	0.5	80.6	179.6	281.2	—	124.9	25.0	67.5	764.3
2000 Jun qtr	—	2.6	0.1	24.5	22.2	27.5	—	107.4	6.0	25.6	215.8
Sep. qtr	—	1.2	0.1	7.9	122.2	47.3	—	12.6	8.8	10.9	211.0
Dec. qtr	0.8	0.6	0.4	13.0	25.1	122.5	—	59.1	5.6	6.3	233.6
2001 Mar. qtr	—	0.2	—	53.2	18.4	30.8	—	29.5	5.9	29.9	168.0
Jun qtr	0.1	2.1	—	6.4	13.8	80.6	—	23.7	4.6	20.4	151.8
Sep. qtr	1.1	1.9	0.4	15.4	15.5	94.7	—	76.5	23.5	23.4	252.4
<b>TOTAL</b>											
1998-1999	394.6	824.6	311.1	1,126.6	670.7	374.2	53.0	299.9	411.9	111.8	4,578.3
1999-2000	324.7	878.0	324.9	756.6	693.8	412.9	39.3	522.1	376.1	162.4	4,490.7
2000-2001	112.6	723.3	204.8	1,068.3	541.2	395.2	62.0	225.0	314.5	140.1	3,786.9
2000 Jun qtr	25.0	279.4	74.6	172.7	137.9	66.3	10.3	127.3	51.4	47.2	992.1
Sep. qtr	18.9	167.1	42.5	366.0	214.3	82.8	10.7	33.2	77.0	22.1	1,034.6
Dec. qtr	11.2	176.1	67.6	285.0	136.8	157.2	16.8	76.7	42.1	38.1	1,007.7
2001 Mar. qtr	14.5	287.6	39.4	198.3	91.2	53.1	11.5	61.7	140.9	42.7	940.9
Jun qtr	68.0	92.5	55.3	219.0	98.9	102.0	22.9	53.3	54.6	37.1	803.6
Sep. qtr	24.0	152.9	74.4	200.6	147.6	129.0	6.0	112.5	87.3	58.4	992.8

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

	Number of dwelling units				Value (\$m)						
	New houses	New other residential building	Conversions etc.	Total dwelling units	New houses	New other residential building	New residential building	Alterations and additions to residential buildings	Total residential building	Total non-residential building	Total building
<b>PRIVATE SECTOR</b>											
1998-1999	12,708	19,358	1,824	33,890	1,966.0	3,113.8	5,079.9	900.8	5,980.7	5,289.5	11,270.2
1999-2000	14,753	17,365	1,006	33,124	2,427.7	2,788.8	5,216.5	835.4	6,051.9	4,373.8	10,425.6
2000-2001	9,172	13,459	767	23,399	1,690.6	2,460.1	4,150.7	706.3	4,857.0	3,104.0	7,961.0
2000 Jun. qtr	14,753	17,365	1,006	33,124	2,427.7	2,788.8	5,216.5	835.4	6,051.9	4,373.8	10,425.6
Sep. qtr	11,981	14,761	902	27,645	2,048.9	2,562.5	4,611.4	723.3	5,334.7	4,214.8	9,549.5
Dec. qtr	9,839	13,683	575	24,097	1,689.0	2,382.2	4,071.3	602.8	4,674.0	3,387.6	8,061.6
2001 Mar. qtr	9,398	13,456	807	23,661	1,701.8	2,480.9	4,182.7	642.1	4,824.8	3,187.6	8,012.5
Jun. qtr	9,172	13,459	767	23,399	1,690.6	2,460.1	4,150.7	706.3	4,857.0	3,104.0	7,961.0
Sep. qtr	10,373	14,383	870	25,626	1,864.9	2,712.7	4,577.6	786.5	5,364.1	2,927.5	8,291.7
<b>PUBLIC SECTOR</b>											
1998-1999	204	718	6	928	16.4	69.3	85.7	11.6	97.3	1,701.9	1,799.2
1999-2000	77	425	1	503	11.3	40.2	51.5	4.5	56.0	1,261.1	1,317.1
2000-2001	65	498	1	564	9.4	59.7	69.1	3.1	72.3	1,367.2	1,439.5
2000 Jun. qtr	77	425	1	503	11.3	40.2	51.5	4.5	56.0	1,261.1	1,317.1
Sep. qtr	56	509	3	568	9.2	54.4	63.6	5.0	68.6	1,270.2	1,338.8
Dec. qtr	35	427	2	464	6.0	50.1	56.0	0.8	56.8	1,269.8	1,326.7
2001 Mar. qtr	40	465	2	507	6.2	54.6	60.7	2.9	63.6	1,360.7	1,424.3
Jun. qtr	65	498	1	564	9.4	59.7	69.1	3.1	72.3	1,367.2	1,439.5
Sep. qtr	40	443	1	484	6.6	53.8	60.5	5.7	66.2	1,270.8	1,337.1
<b>TOTAL</b>											
1998-1999	12,912	20,076	1,830	34,818	1,982.4	3,183.1	5,165.6	912.4	6,078.0	6,991.4	13,069.4
1999-2000	14,830	17,790	1,007	33,627	2,438.9	2,829.0	5,268.0	839.9	6,107.8	5,634.9	11,742.7
2000-2001	9,237	13,957	768	23,963	1,700.1	2,519.7	4,219.8	709.4	4,929.3	4,471.2	9,400.5
2000 Jun. qtr	14,830	17,790	1,007	33,627	2,438.9	2,829.0	5,268.0	839.9	6,107.8	5,634.9	11,742.7
Sep. qtr	12,037	15,270	905	28,212	2,058.1	2,616.9	4,675.0	728.3	5,403.4	5,484.9	10,888.3
Dec. qtr	9,874	14,110	577	24,561	1,695.0	2,432.3	4,127.3	603.6	4,730.9	4,657.4	9,388.2
2001 Mar. qtr	9,438	13,921	809	24,168	1,708.0	2,535.5	4,243.4	645.0	4,888.4	4,548.3	9,436.8
Jun. qtr	9,237	13,957	768	23,963	1,700.1	2,519.7	4,219.8	709.4	4,929.3	4,471.2	9,400.5
Sep. qtr	10,413	14,826	871	26,110	1,871.5	2,766.5	4,638.1	792.3	5,430.3	4,198.4	9,628.7

(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)

	<i>Hotels etc.</i>	<i>Shops</i>	<i>Factories</i>	<i>Offices</i>	<i>Other business premises</i>	<i>Educational</i>	<i>Religious</i>	<i>Health</i>	<i>Entertain- ment and recreational</i>	<i>Miscel- laneous</i>	<i>Total non-resi- dential building</i>
<b>PRIVATE SECTOR</b>											
1998-1999	869.9	852.1	179.5	2,008.6	672.0	126.0	51.1	145.7	350.2	34.3	5,289.5
1999-2000	705.3	1,005.2	195.1	1,283.7	496.7	121.4	54.1	183.3	282.3	46.7	4,373.8
2000-2001	179.7	1,282.8	132.1	673.4	256.7	98.9	68.7	124.4	227.7	59.4	3,104.0
2000 Jun. qtr	705.3	1,005.2	195.1	1,283.7	496.7	121.4	54.1	183.3	282.3	46.7	4,373.8
Sep. qtr	552.5	1,211.2	161.7	1,377.5	358.1	117.6	43.0	135.1	220.3	37.7	4,214.8
Dec. qtr	290.5	1,112.5	147.0	1,047.4	350.5	106.1	45.4	97.0	132.0	59.2	3,387.6
2001 Mar. qtr	232.0	1,286.1	126.2	700.7	286.0	99.9	54.5	114.8	228.3	59.2	3,187.6
Jun. qtr	179.7	1,282.8	132.1	673.4	256.7	98.9	68.7	124.4	227.7	59.4	3,104.0
Sep. qtr	192.1	876.0	165.1	777.8	276.3	119.2	63.0	116.1	259.2	82.8	2,927.5
<b>PUBLIC SECTOR</b>											
1998-1999	12.2	1.0	0.1	48.5	524.2	307.7	—	317.5	419.4	71.4	1,701.9
1999-2000	18.0	2.0	0.1	109.5	163.3	301.2	—	515.4	85.5	66.1	1,261.1
2000-2001	—	2.2	—	69.2	182.6	407.1	—	614.3	25.8	65.9	1,367.2
2000 Jun. qtr	18.0	2.0	0.1	109.5	163.3	301.2	—	515.4	85.5	66.1	1,261.1
Sep. qtr	18.8	0.8	0.1	92.2	231.9	292.4	—	525.1	50.5	58.3	1,270.2
Dec. qtr	0.5	0.4	—	48.3	211.7	389.3	—	567.0	25.7	27.0	1,269.8
2001 Mar. qtr	—	0.4	—	81.2	211.5	386.7	—	606.1	26.5	48.4	1,360.7
Jun. qtr	—	2.2	—	69.2	182.6	407.1	—	614.3	25.8	65.9	1,367.2
Sep. qtr	1.1	2.3	0.1	52.9	181.4	314.1	—	621.6	27.6	69.8	1,270.8
<b>TOTAL</b>											
1998-1999	882.1	853.1	179.6	2,057.1	1,196.2	433.7	51.1	463.2	769.6	105.8	6,991.4
1999-2000	723.3	1,007.2	195.2	1,393.2	660.0	422.6	54.1	698.7	367.8	112.8	5,634.9
2000-2001	179.7	1,285.1	132.1	742.7	439.3	506.1	68.7	738.8	253.5	125.3	4,471.2
2000 Jun. qtr	723.3	1,007.2	195.2	1,393.2	660.0	422.6	54.1	698.7	367.8	112.8	5,634.9
Sep. qtr	571.3	1,212.0	161.8	1,469.7	590.0	410.0	43.0	660.2	270.8	96.1	5,484.9
Dec. qtr	291.0	1,112.8	147.0	1,095.6	562.2	495.3	45.4	664.0	157.8	86.2	4,657.4
2001 Mar. qtr	232.0	1,286.5	126.2	781.9	497.5	486.6	54.5	720.9	254.8	107.6	4,548.3
Jun. qtr	179.7	1,285.1	132.1	742.7	439.3	506.1	68.7	738.8	253.5	125.3	4,471.2
Sep. qtr	193.2	878.3	165.2	830.7	457.7	433.3	63.0	737.6	286.7	152.6	4,198.4

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

Period	Number of dwelling units				Value (\$m)						
	New houses	New other residential building	Conversions etc.	Total dwelling units	New houses	New other residential building	New residential building	Alterations and additions to residential buildings	Total residential building	Total non-residential building	Total building
<b>PRIVATE SECTOR</b>											
1998-1999	26,070	18,831	1,471	46,372	3,401.3	2,553.9	5,955.2	1,281.8	7,237.0	4,197.0	11,434.0
1999-2000	28,236	20,398	1,493	50,127	4,050.8	3,172.3	7,223.1	1,551.2	8,774.3	4,898.0	13,672.2
2000-2001	22,947	17,526	1,055	41,528	3,687.6	2,846.7	6,534.3	1,325.6	7,859.9	4,602.7	12,462.6
2000 Jun. qtr	8,205	6,210	363	14,778	1,209.5	991.5	2,201.0	413.9	2,614.9	1,284.2	3,899.1
Sep. qtr	7,095	5,691	320	13,106	1,101.7	843.6	1,945.3	370.9	2,316.3	1,242.2	3,558.4
Dec. qtr	6,717	5,372	535	12,624	1,092.2	928.0	2,020.2	427.4	2,447.5	1,638.2	4,085.8
2001 Mar. qtr	4,391	3,286	68	7,745	697.9	544.8	1,242.8	294.2	1,537.0	1,021.8	2,558.8
Jun. qtr	4,744	3,177	132	8,053	795.7	530.3	1,326.0	233.1	1,559.1	700.5	2,259.6
Sep. qtr	4,524	3,954	95	8,573	796.7	702.1	1,498.8	281.3	1,780.1	972.8	2,752.9
<b>PUBLIC SECTOR</b>											
1998-1999	248	1,136	18	1,402	29.7	93.9	123.6	25.2	148.8	860.0	1,008.8
1999-2000	315	1,077	26	1,418	31.1	104.0	135.1	28.5	163.5	1,692.0	1,855.6
2000-2001	144	965	8	1,117	21.5	104.1	125.6	16.4	142.0	779.0	920.9
2000 Jun. qtr	51	91	7	149	6.9	8.7	15.7	10.7	26.3	597.8	624.2
Sep. qtr	62	224	3	289	8.2	21.3	29.5	4.5	34.0	219.9	253.9
Dec. qtr	36	261	3	300	5.5	27.3	32.8	6.5	39.3	245.4	284.6
2001 Mar. qtr	29	246	—	275	5.1	27.6	32.7	0.9	33.7	162.0	195.7
Jun. qtr	17	234	2	253	2.6	27.9	30.5	4.5	35.0	151.7	186.7
Sep. qtr	41	185	—	226	5.9	22.7	28.6	3.8	32.3	368.0	400.3
<b>TOTAL</b>											
1998-1999	26,318	19,967	1,489	47,774	3,431.0	2,647.8	6,078.8	1,307.0	7,385.8	5,057.0	12,442.8
1999-2000	28,551	21,475	1,519	51,545	4,081.8	3,276.3	7,358.1	1,579.7	8,937.8	6,590.0	15,527.8
2000-2001	23,091	18,491	1,063	42,645	3,709.0	2,950.8	6,659.8	1,342.0	8,001.9	5,381.7	13,383.6
2000 Jun. qtr	8,256	6,301	370	14,927	1,216.5	1,000.2	2,216.7	424.6	2,641.2	1,882.0	4,523.2
Sep. qtr	7,157	5,915	323	13,395	1,109.9	864.9	1,974.9	375.4	2,350.3	1,462.1	3,812.4
Dec. qtr	6,753	5,633	538	12,924	1,097.7	955.3	2,053.0	433.8	2,486.8	1,883.6	4,370.4
2001 Mar. qtr	4,420	3,532	68	8,020	703.0	572.5	1,275.5	295.1	1,570.6	1,183.8	2,754.5
Jun. qtr	4,761	3,411	134	8,306	798.4	558.1	1,356.5	237.7	1,594.2	852.2	2,446.3
Sep. qtr	4,565	4,139	95	8,799	802.6	724.8	1,527.4	285.1	1,812.5	1,340.8	3,153.2

(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)**

<i>Period</i>	<i>Hotels etc.</i>	<i>Shops</i>	<i>Factories</i>	<i>Offices</i>	<i>Other business premises</i>	<i>Educational</i>	<i>Religious</i>	<i>Health</i>	<i>Entertainment and recreational</i>	<i>Miscellaneous</i>	<i>Total non-residential building</i>
<b>PRIVATE SECTOR</b>											
1998-1999	361.2	905.2	323.2	879.9	710.0	127.2	28.0	179.9	597.6	84.7	4,197.0
1999-2000	557.5	838.9	322.7	1,639.7	763.6	178.7	40.3	93.4	411.8	51.3	4,898.0
2000-2001	607.3	696.9	270.1	1,642.3	621.1	140.4	52.3	166.1	346.1	60.1	4,602.7
2000 Jun qtr	51.3	256.8	84.0	477.3	281.5	59.6	12.1	22.2	31.6	7.8	1,284.2
Sep. qtr	182.8	188.7	71.8	286.4	235.7	40.3	20.4	70.4	126.9	18.8	1,242.2
Dec. qtr	281.0	272.5	83.3	628.6	116.6	45.9	15.6	58.5	125.7	10.5	1,638.2
2001 Mar. qtr	77.3	128.0	67.2	500.7	142.1	31.1	5.2	16.4	39.8	13.9	1,021.8
Jun qtr	66.2	107.8	47.8	226.5	126.5	23.1	11.1	20.8	53.7	16.9	700.5
Sep. qtr	14.3	569.9	46.2	99.3	115.6	15.2	13.0	44.8	39.2	15.3	972.8
<b>PUBLIC SECTOR</b>											
1998-1999	—	5.6	7.0	120.9	153.7	220.5	—	190.5	87.1	74.8	860.0
1999-2000	15.1	7.2	2.3	91.0	467.8	268.0	—	273.4	464.5	102.7	1,692.0
2000-2001	19.7	4.2	0.6	126.5	173.2	241.6	—	56.8	88.5	67.9	779.0
2000 Jun qtr	2.1	2.0	0.1	23.5	368.8	74.3	—	58.3	41.1	27.6	597.8
Sep. qtr	—	2.5	0.1	25.2	57.6	63.3	—	7.2	46.4	17.6	219.9
Dec. qtr	19.1	1.1	0.5	58.5	48.3	27.5	—	20.5	31.2	38.6	245.4
2001 Mar. qtr	0.5	0.2	—	20.6	18.3	91.6	—	16.6	5.4	8.8	162.0
Jun qtr	0.1	0.3	—	22.3	49.0	59.1	—	12.5	5.5	2.8	151.7
Sep. qtr	—	1.9	0.3	29.3	18.1	190.6	—	83.2	22.0	22.6	368.0
<b>TOTAL</b>											
1998-1999	361.2	910.8	330.2	1,000.8	863.7	347.7	28.0	370.5	684.7	159.4	5,057.0
1999-2000	572.6	846.0	325.0	1,730.7	1,231.4	446.8	40.3	366.8	876.3	154.0	6,590.0
2000-2001	627.0	701.1	270.7	1,768.9	794.2	382.0	52.3	223.0	434.6	127.9	5,381.7
2000 Jun qtr	53.5	258.8	84.2	500.8	650.3	133.9	12.1	80.5	72.7	35.4	1,882.0
Sep. qtr	182.8	191.2	71.9	311.6	293.3	103.6	20.4	77.6	173.3	36.4	1,462.1
Dec. qtr	300.1	273.6	83.8	687.1	164.9	73.4	15.6	79.0	157.0	49.1	1,883.6
2001 Mar. qtr	77.8	128.2	67.2	521.3	160.4	122.7	5.2	33.0	45.2	22.7	1,183.8
Jun qtr	66.3	108.1	47.8	248.8	175.6	82.3	11.1	33.3	59.2	19.7	852.2
Sep. qtr	14.3	571.8	46.5	128.6	133.7	205.8	13.0	128.0	61.2	37.9	1,340.8

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

<i>Period</i>	<i>New houses</i>	<i>New other residential building</i>	<i>New residential building</i>	<i>Alterations and additions to residential buildings</i>	<i>Total residential building</i>	<i>Total non-residential building</i>	<i>Total building</i>
<b>PRIVATE SECTOR</b>							
1998-1999	3,552.2	2,895.8	6,448.0	1,421.2	7,869.2	4,678.4	12,547.5
1999-2000	4,375.4	3,128.5	7,504.0	1,581.6	9,085.6	4,873.6	13,959.2
2000-2001	3,296.3	2,356.6	5,652.9	1,215.1	6,868.0	3,241.8	10,109.8
2000 Jun. qtr	1,326.8	862.7	2,189.5	417.7	2,607.3	1,175.3	3,782.5
Sep. qtr	990.7	691.3	1,682.0	320.4	2,002.3	989.0	2,991.4
Dec. qtr	808.4	620.8	1,429.2	299.2	1,728.4	825.1	2,553.5
2001 Mar. qtr	710.5	526.1	1,236.6	293.2	1,529.8	703.6	2,233.3
Jun. qtr	786.8	518.4	1,305.1	302.4	1,607.5	724.1	2,331.7
Sep. qtr	900.5	580.6	1,481.0	348.3	1,829.4	751.8	2,581.2
<b>PUBLIC SECTOR</b>							
1998-1999	36.9	99.9	136.8	26.4	163.2	1,285.1	1,448.3
1999-2000	24.9	86.6	111.5	25.2	136.7	1,393.0	1,529.7
2000-2001	22.0	119.0	141.0	15.8	156.8	955.5	1,112.3
2000 Jun. qtr	5.8	11.2	17.0	10.3	27.3	322.6	349.9
Sep. qtr	8.7	35.2	43.9	5.4	49.3	225.0	274.3
Dec. qtr	4.7	25.7	30.4	3.7	34.1	225.3	259.5
2001 Mar. qtr	3.4	27.3	30.7	2.3	33.1	208.6	241.7
Jun. qtr	5.1	30.8	35.9	4.4	40.3	296.6	336.9
Sep. qtr	4.5	23.4	27.8	4.6	32.4	284.7	317.1
<b>TOTAL</b>							
1998-1999	3,589.1	2,995.7	6,584.8	1,447.6	8,032.4	5,963.5	13,995.9
1999-2000	4,400.3	3,215.2	7,615.5	1,606.8	9,222.3	6,266.6	15,488.9
2000-2001	3,318.3	2,475.6	5,793.9	1,230.9	7,024.8	4,197.3	11,222.2
2000 Jun. qtr	1,332.6	873.9	2,206.5	428.1	2,634.6	1,497.8	4,132.4
Sep. qtr	999.4	726.5	1,725.9	325.7	2,051.6	1,214.0	3,265.7
Dec. qtr	813.1	646.5	1,459.6	302.9	1,762.5	1,050.4	2,812.9
2001 Mar. qtr	713.9	553.5	1,267.3	295.5	1,562.9	912.2	2,475.0
Jun. qtr	791.9	549.1	1,341.1	306.8	1,647.8	1,020.7	2,668.6
Sep. qtr	904.9	603.9	1,508.9	352.9	1,861.8	1,036.5	2,898.3

(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)

<i>Period</i>	<i>Hotels etc.</i>	<i>Shops</i>	<i>Factories</i>	<i>Offices</i>	<i>Other business premises</i>	<i>Educational</i>	<i>Religious</i>	<i>Health</i>	<i>Entertainment and recreational</i>	<i>Miscellaneous</i>	<i>Total non-residential building</i>
<b>PRIVATE SECTOR</b>											
1998-1999	617.0	835.0	330.0	1,435.1	702.3	127.4	38.1	137.2	386.6	69.7	4,678.4
1999-2000	535.8	1,071.2	331.3	1,446.2	646.1	181.1	57.5	164.7	387.1	52.5	4,873.6
2000-2001	157.8	953.5	231.6	877.3	454.6	126.6	45.5	106.4	221.5	66.9	3,241.8
2000 Jun. qtr	113.8	281.5	99.7	301.9	170.7	46.2	12.7	49.3	82.7	16.9	1,175.3
Sep. qtr	78.9	247.7	60.9	302.2	141.8	40.4	11.5	31.2	62.3	12.0	989.0
Dec. qtr	42.2	259.4	63.2	207.5	105.8	34.2	8.8	24.5	64.9	14.4	825.1
2001 Mar. qtr	22.6	214.2	54.0	183.7	110.4	26.3	12.7	22.2	38.2	19.3	703.6
Jun. qtr	14.0	232.1	53.4	184.0	96.7	25.7	12.4	28.5	56.1	21.1	724.1
Sep. qtr	19.5	201.8	63.3	190.7	99.0	33.0	14.3	35.2	69.2	25.9	751.8
<b>PUBLIC SECTOR</b>											
1998-1999	11.8	5.4	6.7	82.8	336.2	258.4	—	193.0	285.0	105.8	1,285.1
1999-2000	15.4	8.2	2.3	147.0	345.7	319.5	—	260.7	207.4	86.7	1,393.0
2000-2001	7.6	3.9	0.5	90.1	129.3	324.0	—	288.9	48.1	63.2	955.5
2000 Jun. qtr	3.5	3.0	0.2	36.4	81.7	81.2	—	63.3	26.3	27.0	322.6
Sep. qtr	4.5	1.5	0.1	21.6	43.4	52.9	—	59.1	19.0	23.0	225.0
Dec. qtr	2.8	0.8	0.5	19.9	29.6	87.7	—	58.9	11.9	13.3	225.3
2001 Mar. qtr	0.2	0.4	—	23.1	22.4	76.1	—	65.4	9.9	11.0	208.6
Jun. qtr	0.1	1.1	—	25.6	33.9	107.3	—	105.5	7.3	15.8	296.6
Sep. qtr	0.6	1.9	0.3	19.5	34.3	95.6	—	93.6	12.6	26.3	284.7
<b>TOTAL</b>											
1998-1999	628.8	840.4	336.8	1,517.9	1,038.5	385.9	38.1	330.1	671.6	175.4	5,963.5
1999-2000	551.3	1,079.4	333.7	1,593.2	991.8	500.6	57.5	425.4	594.5	139.2	6,266.6
2000-2001	165.4	957.4	232.1	967.4	583.9	450.6	45.5	395.3	269.6	130.1	4,197.3
2000 Jun. qtr	117.4	284.4	99.9	338.3	252.4	127.4	12.7	112.5	109.0	43.9	1,497.8
Sep. qtr	83.4	249.2	61.0	323.8	185.1	93.3	11.5	90.3	81.3	35.0	1,214.0
Dec. qtr	45.0	260.3	63.7	227.3	135.4	121.9	8.8	83.4	76.8	27.7	1,050.4
2001 Mar. qtr	22.8	214.7	54.0	206.7	132.8	102.5	12.7	87.6	48.0	30.4	912.2
Jun. qtr	14.2	233.2	53.4	209.6	130.6	133.0	12.4	134.0	63.4	36.9	1,020.7
Sep. qtr	20.1	203.7	63.6	210.2	133.4	128.6	14.3	128.8	81.7	52.2	1,036.5

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

	<i>New houses</i>	<i>New other residential building</i>	<i>New residential building</i>	<i>Alterations and additions to residential buildings</i>	<i>Total residential building</i>	<i>Total non-resi- dential building</i>	<i>Total building</i>
<b>PRIVATE SECTOR</b>							
1998-1999	999.6	1,349.4	2,349.0	357.5	2,706.5	2,252.1	4,958.6
1999-2000	1,153.0	1,085.0	2,238.0	286.8	2,524.8	1,384.6	3,909.4
2000-2001	818.5	1,251.5	2,070.0	320.7	2,390.7	1,494.9	3,885.6
2000 Jun. qtr	1,153.0	1,085.0	2,238.0	286.8	2,524.8	1,384.6	3,909.4
Sep. qtr	887.7	1,014.6	1,902.3	273.0	2,175.3	1,486.2	3,661.4
Dec. qtr	813.1	1,149.1	1,962.2	282.2	2,244.5	1,473.8	3,718.3
2001 Mar. qtr	813.7	1,258.8	2,072.5	324.8	2,397.3	1,589.0	3,986.3
Jun. qtr	818.5	1,251.5	2,070.0	320.7	2,390.7	1,494.9	3,885.6
Sep. qtr	889.5	1,628.5	2,518.1	339.1	2,857.1	1,540.2	4,397.3
<b>PUBLIC SECTOR</b>							
1998-1999	5.3	35.8	41.0	6.2	47.2	749.7	796.9
1999-2000	6.3	24.1	30.4	2.3	32.7	622.6	655.3
2000-2001	4.0	28.6	32.6	1.5	34.2	550.5	584.7
2000 Jun. qtr	6.3	24.1	30.4	2.3	32.7	622.6	655.3
Sep. qtr	3.7	24.4	28.1	1.9	30.1	626.6	656.6
Dec. qtr	1.4	21.6	23.0	0.5	23.4	645.7	669.1
2001 Mar. qtr	3.3	26.4	29.7	1.1	30.8	687.6	718.4
Jun. qtr	4.0	28.6	32.6	1.5	34.2	550.5	584.7
Sep. qtr	2.6	22.1	24.7	3.3	28.1	537.4	565.5
<b>TOTAL</b>							
1998-1999	1,004.9	1,385.2	2,390.0	363.6	2,753.7	3,001.8	5,755.5
1999-2000	1,159.3	1,109.0	2,268.4	289.1	2,557.5	2,007.2	4,564.7
2000-2001	822.5	1,280.1	2,102.6	322.2	2,424.9	2,045.4	4,470.3
2000 Jun. qtr	1,159.3	1,109.0	2,268.4	289.1	2,557.5	2,007.2	4,564.7
Sep. qtr	891.5	1,039.0	1,930.4	274.9	2,205.4	2,112.7	4,318.1
Dec. qtr	814.5	1,170.7	1,985.2	282.7	2,267.9	2,119.5	4,387.4
2001 Mar. qtr	816.9	1,285.2	2,102.2	325.9	2,428.1	2,276.6	4,704.7
Jun. qtr	822.5	1,280.1	2,102.6	322.2	2,424.9	2,045.4	4,470.3
Sep. qtr	892.1	1,650.7	2,542.8	342.4	2,885.2	2,077.6	4,962.8

(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)**

	<i>Hotels etc.</i>	<i>Shops</i>	<i>Factories</i>	<i>Offices</i>	<i>Other business premises</i>	<i>Educational</i>	<i>Religious</i>	<i>Health</i>	<i>Entertain- ment and recreational</i>	<i>Miscel- laneous</i>	<i>Total non-resi- dential building</i>
<b>PRIVATE SECTOR</b>											
1998-1999	341.3	465.6	71.4	831.0	216.9	66.8	30.0	91.7	123.3	14.2	2,252.1
1999-2000	204.4	394.0	83.8	299.5	162.5	59.9	17.0	58.1	80.0	25.3	1,384.6
2000-2001	140.8	414.9	65.6	454.0	90.3	51.2	38.1	58.9	150.0	31.1	1,494.9
2000 Jun qtr	204.4	394.0	83.8	299.5	162.5	59.9	17.0	58.1	80.0	25.3	1,384.6
Sep. qtr	155.4	542.3	66.8	377.3	118.1	56.0	14.8	49.1	83.0	23.2	1,486.2
Dec. qtr	133.8	456.6	71.9	467.5	122.5	56.8	23.8	44.8	55.6	40.6	1,473.8
2001 Mar. qtr	129.4	542.1	65.4	437.3	89.5	55.0	25.1	56.6	153.6	35.2	1,589.0
Jun qtr	140.8	414.9	65.6	454.0	90.3	51.2	38.1	58.9	150.0	31.1	1,494.9
Sep. qtr	147.9	377.0	80.8	467.1	127.0	53.7	31.1	60.1	151.5	43.9	1,540.2
<b>PUBLIC SECTOR</b>											
1998-1999	0.4	0.7	—	30.2	277.9	181.9	—	140.2	98.1	20.2	749.7
1999-2000	5.9	0.7	—	35.2	49.4	124.1	—	350.8	25.4	31.2	622.6
2000-2001	—	1.2	—	31.4	112.9	146.6	—	216.6	6.1	35.7	550.5
2000 Jun qtr	5.9	0.7	—	35.2	49.4	124.1	—	350.8	25.4	31.2	622.6
Sep. qtr	2.2	0.5	—	21.4	132.2	125.7	—	308.7	17.8	17.9	626.6
Dec. qtr	0.2	0.4	—	16.2	130.7	161.3	—	312.7	12.4	12.0	645.7
2001 Mar. qtr	—	0.2	—	46.6	126.8	173.1	—	301.2	8.6	31.1	687.6
Jun qtr	—	1.2	—	31.4	112.9	146.6	—	216.6	6.1	35.7	550.5
Sep. qtr	0.5	1.2	0.1	24.9	97.0	147.5	—	213.1	17.3	35.9	537.4
<b>TOTAL</b>											
1998-1999	341.7	466.3	71.4	861.2	494.8	248.7	30.0	231.9	221.4	34.4	3,001.8
1999-2000	210.3	394.7	83.8	334.7	211.9	183.9	17.0	408.9	105.4	56.5	2,007.2
2000-2001	140.8	416.1	65.6	485.4	203.2	197.8	38.1	275.5	156.1	66.8	2,045.4
2000 Jun qtr	210.3	394.7	83.8	334.7	211.9	183.9	17.0	408.9	105.4	56.5	2,007.2
Sep. qtr	157.7	542.8	66.8	398.8	250.3	181.6	14.8	357.8	100.9	41.2	2,112.7
Dec. qtr	134.0	457.0	71.9	483.7	253.1	218.1	23.8	357.4	67.9	52.6	2,119.5
2001 Mar. qtr	129.4	542.3	65.4	483.9	216.3	228.1	25.1	357.8	162.1	66.3	2,276.6
Jun qtr	140.8	416.1	65.6	485.4	203.2	197.8	38.1	275.5	156.1	66.8	2,045.4
Sep. qtr	148.4	378.2	80.9	492.0	224.0	201.2	31.1	273.2	168.8	79.8	2,077.6

**TABLE 15. BUILDING ACTIVITY RELATIVE STANDARD ERRORS, SEPTEMBER QUARTER 2001  
(Percentage)**

<i>Ownership and stage of construction</i>	<i>New residential building</i>				<i>Value</i>	
	<i>Houses</i>		<i>Total</i>		<i>Alterations and additions to residential buildings</i>	<i>Total building</i>
	<i>Number</i>	<i>Value</i>	<i>Number of dwelling units</i>	<i>Value</i>		
<b>TOTAL PRIVATE AND PUBLIC SECTORS</b>						
Commenced	3.8	4.1	2.0	2.0	4.7	1.3
Under construction at end of period	3.1	3.1	1.3	1.3	3.4	0.7
Completed	5.0	5.1	2.6	2.7	7.4	1.5
Value of work done	..	3.1	..	1.9	3.5	1.1
Value of work yet to be done	..	3.8	..	1.4	4.9	0.8



# EXPLANATORY NOTES

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## 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 are 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 house building activity involving new house construction or alterations and additions valued at \$10,000 or more to houses; and
  - 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.
- 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 house building activity, including alterations and additions to houses, are generally only available at the State, Territory and Australia levels. Although subject to higher relative standard errors than for State level estimates, details of new houses and total new residential building (number of dwellings and value) and of alterations and additions to residential buildings (value only) and total residential building (value only) can be made available for Capital City Statistical Divisions and Rest of State. Reliable small area data are available for the Northern Territory, which has been completely enumerated since the June quarter 1991. 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 Australian Bureau of Statistics (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 jobs which were notified to the ABS (refer 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 *house* is defined as a detached building predominantly used for long-term residential purposes and consisting of only one dwelling unit. Thus, detached 'granny flats' and detached dwelling units (such as caretakers' residences) associated with non-residential buildings are defined as houses for the purpose of these statistics.
- An *other residential building* is defined as a building which is predominantly used for long-term residential purposes and which contains (or has attached to it) more than one dwelling unit (e.g. includes townhouses, duplexes, apartment buildings, etc.).

## EXPLANATORY NOTES *continued*

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### 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 house building activity (including alterations and additions to private sector houses) 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 table 15.

**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. 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. Further, the difference between independently seasonally adjusted series does not necessarily produce series which are optimal or even adequate adjustments of the similarly derived original series. Thus the figures which can be derived by subtracting seasonally adjusted private sector dwelling units from the seasonally adjusted total should not be used to represent seasonally adjusted public sector dwelling units.

**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 1999–2000). 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. 1999–2000). 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)—issued quarterly

*Construction Work Done, Australia, Preliminary* (Cat. no. 8755.0)—issued quarterly

*Building Activity, Australia: Dwelling Unit Commencements, Preliminary* (Cat. no. 8750.0)—issued quarterly

*Building Approvals, Australia* (Cat. no. 8731.0)—issued monthly

*Building Approvals, New South Wales and Australian Capital Territory* (Cat. no. 8731.1)—issued quarterly

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**34** Current publications and other products produced by the ABS are listed in the *Catalogue of Publications and Products, Australia* (Cat. no. 1101.0). The ABS also issues, on Tuesdays and Fridays, a *Release Advice* (Cat. no. 1105.0) which lists products to be released in the next few days. The Catalogue and Release Advice are available from any ABS office.

### 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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2875210009017  
ISSN 0729-2058

RRP \$19.50

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