

**BUILDING ACTIVITY, VICTORIA
JUNE QUARTER 1997**

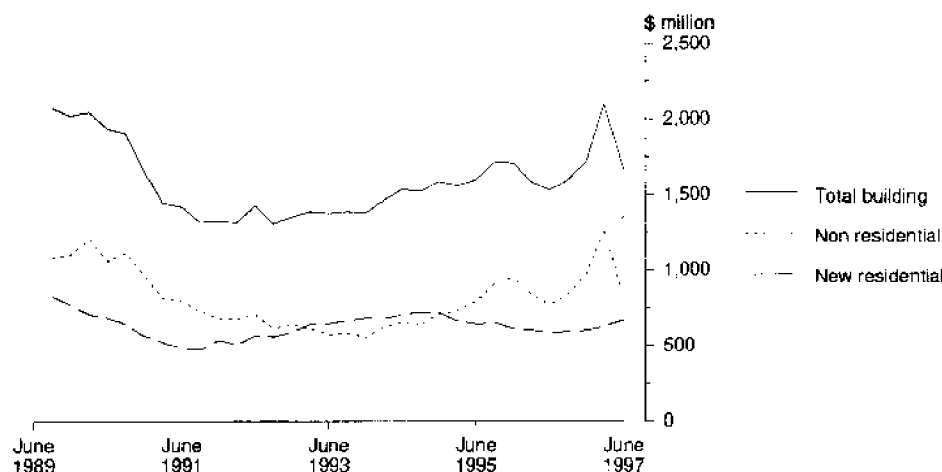
SUMMARY OF FINDINGS

Value of building work done at average 1989-90 prices, seasonally adjusted

	% change on	
	Mar. quarter 1997	June quarter 1996
New residential building	8.0	15.7
Alterations and additions to residential buildings	6.6	20.5
Non-residential building	-35.9	6.3
Total building	-19.7	10.0

- In seasonally adjusted average 1989-90 prices, the value of new residential building work done during the June quarter 1997 increased by 8.0% to \$677.7 million. This follows rises of 4.0% and 1.7% in the March quarter and December quarter 1996 respectively. Alterations and additions work was up 6.6% and was 20.5% higher than for the June quarter 1996.
- Work done on non-residential building fell by 35.9% to \$817.2 million, offsetting the increase of 31.6% in the March quarter. This decrease follows a significant amount of work done in the March quarter on the Casino complex.
- Overall the total value of building work done fell by 19.7% to \$1,686.1 million.

**VALUE OF WORK DONE
AT AVERAGE 1989-90 PRICES
SEASONALLY ADJUSTED**



INQUIRIES

- for more information about statistics contained in this publication, the availability of related unpublished statistics and other ABS statistics and services, please contact Information Inquiries on Melbourne (03) 9615 7755 (fax (03) 9615 7798), call at 485 LaTrobe Street, Melbourne or write to Information Inquiries, ABS GPO Box 2796Y, Melbourne Vic 3001 or any ABS State office.
- for more detailed information about these statistics, contact Tony Bammann on Adelaide (08) 8237 7316 or any ABS State office.

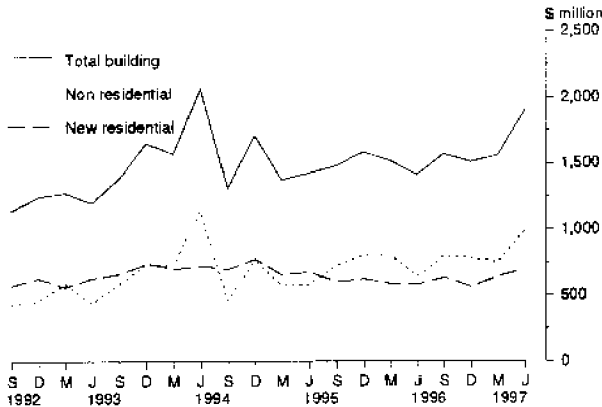
SUMMARY OF FINDINGS – continued

Value of building work commenced at average 1989–90 prices

	% change on	
	Mar. quarter 1997	June quarter 1996
New residential building	12.9	24.6
Alterations and additions to residential buildings	23.1	11.9
Non-residential building	34.2	55.5
Total building	24.2	37.0

- In average 1989–90 prices, the value of new residential building work commenced during the June quarter 1997 increased by 12.9% to \$726.2 million with the majority of the increase occurring in new houses. Alterations and additions increased by 23.1% to \$211.9 million.
- Non-residential building work commenced increased by 34.2% to \$1,001.0 million with the growth occurring in the public sector.
- The total value of all building work commenced during the quarter increased by 24.2% to \$1,939.1 million and was 37.0% higher than for the June quarter 1996.

VALUE OF WORK COMMENCED AT AVERAGE 1989-90 PRICES

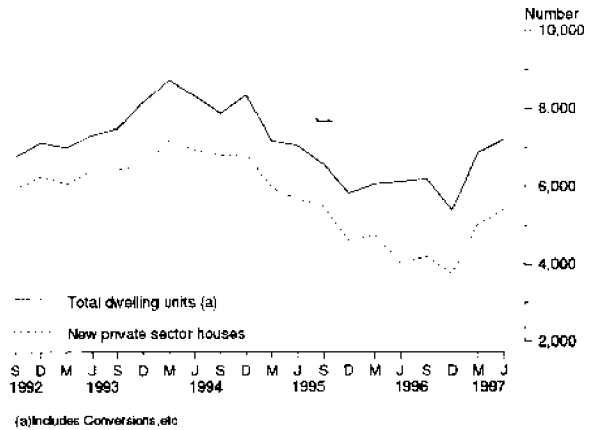


Number of dwelling units commenced, seasonally adjusted

	% change on	
	Mar. quarter 1997	June quarter 1996
New private sector houses	7.5	34.0
Private sector dwelling units	4.8	23.4
Total dwelling units	5.0	17.9

- In seasonally adjusted terms, the total number of dwelling units commenced during the June quarter increased by 5.0% to 7,216. This follows an increase of 27.1% in the March quarter and a fall of 12.9% in the December quarter 1996.
- The number of new private sector houses commenced during the quarter increased by 7.5% to 5,417.

DWELLING UNITS COMMENCED SEASONALLY ADJUSTED



Original data

- The total value of building work commenced during the June quarter 1997 increased by 24.0% to \$1,845.2 million. Non-residential building increased by 35.0% to \$852.9 million. This included an increase of \$236.0 million (169.9%) in the public sector. Total residential building increased by 16.0% to \$992.3 million.
- Work done during the quarter fell by 4.0% to \$1,654.4 million. Total residential building increased by 18.7% to \$927.1 million. Non-residential building fell by 22.8% to \$727.2 million, and mainly reflected the completion or near completion of parts of the Casino complex.
- The value of work yet to be done on jobs under construction at the end of June 1997 increased by 13.9% to \$2,021.7 million or 1.2 times the work done for the quarter.

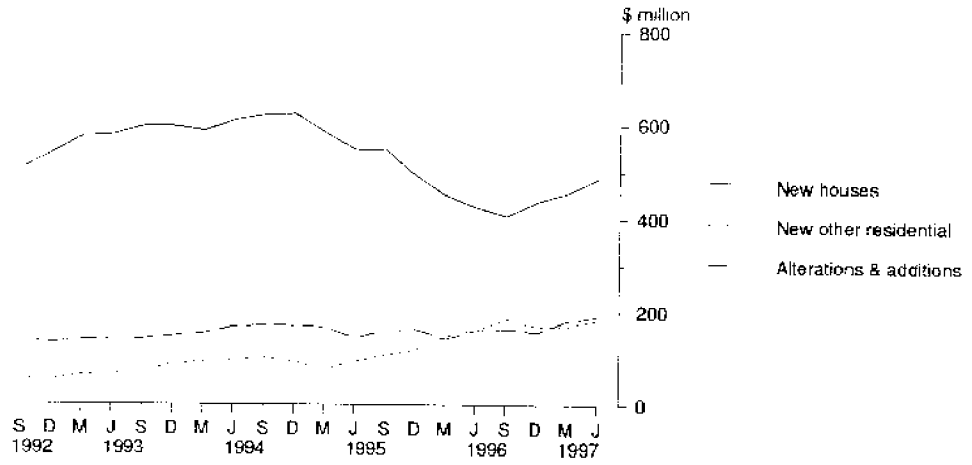
Revisions

The total number of dwelling units commenced during the March quarter 1997 has been revised upwards by 465 (7.7%).

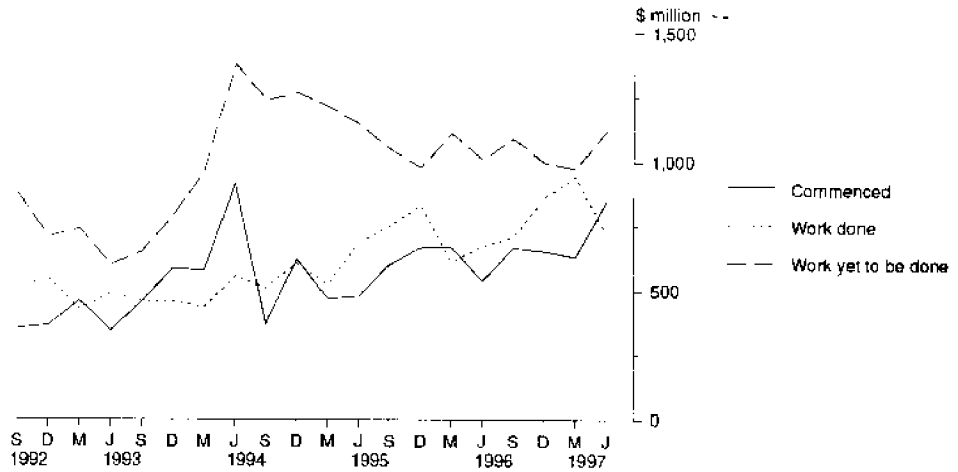
The value of total building work commenced during the March quarter 1997 has been revised upwards by \$100.0 million (7.2%) with residential building increasing by \$54.3 million (6.8%) and non-residential building increasing by \$45.7 million (7.8%).

From this issue, the seasonally adjusted estimates for the total number of dwelling units (including conversions, etc.) commenced and completed and shown in the last 4 columns of table 4, have been derived from seasonal factors for the corresponding original series. Previously, seasonal factors for the total number of new dwelling units commenced and completed had been used to derive the series shown in columns 7 and 8 while seasonal factors for the 'all sectors' total number of new dwelling units commenced and completed had been used to derive the series shown in columns 5 and 6.

**VALUE OF RESIDENTIAL WORK DONE
AT AVERAGE 1989-90 PRICES
SEASONALLY ADJUSTED**



VALUE OF NON-RESIDENTIAL BUILDING



VALUE OF NON-RESIDENTIAL WORK DONE

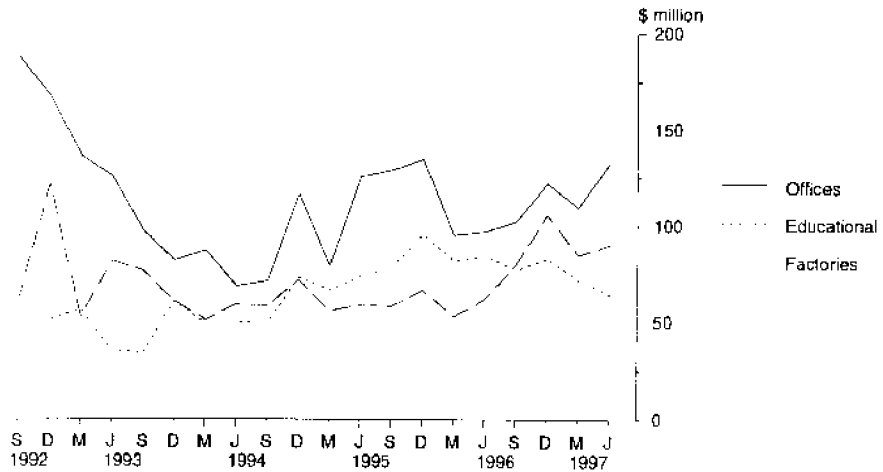


TABLE 1. VALUE OF BUILDING WORK COMMENCED, AVERAGE 1989-90 PRICES (a)
(**\$ million**)

Period	New residential building			Alterations and additions to residential buildings	Non-residential building		Total building
	Houses	Other residential building	Total		Private sector	Total	
1994-95	2,295.1	516.3	2,811.4	632.0	1,571.0	2,378.0	5,821.4
1995-96	1,828.0	564.6	2,392.6	623.4	2,207.9	2,982.4	5,998.4
1996-97	1,863.7	700.7	2,564.4	692.4	2,247.2	3,321.4	6,578.2
1996 Mar. qtr	402.1	182.5	584.6	126.8	560.5	806.6	1,518.0
June qtr	410.7	172.1	582.8	189.3	462.6	643.7	1,415.8
Sept. qtr	433.3	199.7	633.0	139.7	516.0	797.0	1,569.7
Dec. qtr	428.9	133.3	562.2	168.6	588.3	777.5	1,508.3
1997 Mar. qtr	463.8	179.2	643.0	172.2	581.9	745.9	1,561.1
June qtr	537.7	188.5	726.2	211.9	561.0	1,001.0	1,939.1

(a) See paragraphs 24 and 25 of the Explanatory Notes. Constant price estimates are subject to revision each quarter as more up to date information on prices and commodity compositions becomes available.

TABLE 2. VALUE OF BUILDING WORK DONE, AVERAGE 1989-90 PRICES (a): ORIGINAL AND 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	
ORIGINAL							
1994-95	2,373.5	365.5	2,739.0	652.3	1,979.9	2,870.4	6,261.7
1995-96	1,914.7	536.4	2,451.1	632.8	2,545.4	3,463.3	6,547.2
1996-97	1,787.6	711.7	2,499.3	698.2	3,026.3	3,854.4	7,051.9
1996 Mar. qtr	413.3	141.0	554.3	129.7	537.5	739.3	1,423.3
June qtr	424.4	159.3	583.7	164.8	626.1	809.0	1,557.5
Sept. qtr	411.1	194.1	605.2	162.0	655.4	848.6	1,615.8
Dec. qtr	466.7	175.8	642.5	173.3	808.9	1,026.3	1,842.1
1997 Mar. qtr	417.2	159.8	577.0	164.3	906.8	1,121.9	1,863.2
June qtr	492.6	182.0	674.6	198.6	655.2	857.6	1,730.8
SEASONALLY ADJUSTED							
1996 Mar. qtr	450.2	149.7	602.2	143.9	615.3	840.0	1,584.5
June qtr	424.2	162.4	585.9	161.6	589.5	769.0	1,532.6
Sept. qtr	406.0	185.7	593.4	165.5	636.8	840.3	1,593.8
Dec. qtr	436.0	170.1	603.2	157.3	780.6	968.2	1,717.1
1997 Mar. qtr	454.8	169.7	627.4	182.6	1,037.7	1,274.0	2,099.5
June qtr	492.7	186.0	677.7	194.7	618.1	817.2	1,686.1

(a) See paragraphs 24 to 26 of the Explanatory Notes. Constant price estimates are subject to revision each quarter as more up to date information on prices and commodity compositions becomes available.

**TABLE 3. VALUE OF BUILDING WORK DONE: 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	
1996 Mar. qtr	498.8	126.4	626.8	159.6	510.6	697.2	1,485.6
June qtr	469.0	137.8	606.6	178.7	492.2	642.0	1,438.6
Sept. qtr	449.8	157.8	608.3	183.4	533.0	703.4	1,489.6
Dec. qtr	482.7	144.7	625.6	174.2	654.2	811.4	1,601.6
1997 Mar. qtr	504.3	144.7	651.3	202.6	871.7	1,070.2	1,942.2
June qtr	549.1	160.2	709.0	217.0	524.1	693.0	1,611.6

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
1996 Mar. qtr	4,781	4,900	4,829	5,030	5,765	5,561	6,072	5,977
June qtr	4,043	4,268	4,166	4,399	5,746	5,046	6,119	5,326
Sept. qtr	4,216	3,795	4,335	3,869	5,860	5,385	6,202	5,703
Dec. qtr	3,779	4,574	3,816	4,642	5,288	5,435	5,405	5,783
1997 Mar. qtr	5,041	4,318	5,074	4,384	6,764	6,294	6,872	6,594
June qtr	5,417	4,559	5,484	4,634	7,091	6,213	7,216	6,537

TABLE 5. NUMBER AND VALUE OF BUILDING COMMENCED, PRIVATE AND PUBLIC SECTOR: 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
PRIVATE SECTOR											
1994-95	25,338	3,077	1,044	29,459	2,445.1	389.5	2,834.6	675.6	3,510.3	1,279.7	4,790.0
1995-96	18,926	3,218	884	23,028	1,967.3	396.4	2,363.7	640.3	3,004.0	1,834.9	4,838.9
1996-97	18,319	5,535	1,119	24,972	2,038.5	572.1	2,610.6	725.3	3,335.9	1,899.3	5,235.2
1996 Mar. qtr	4,300	980	179	5,459	437.0	138.5	575.5	130.2	705.7	466.9	1,172.6
June qtr	3,999	1,218	636	5,853	443.6	126.0	569.7	195.4	765.1	386.3	1,151.4
Sept. qtr	4,349	1,462	55	5,866	471.2	152.7	623.9	145.6	769.5	432.4	1,201.9
Dec. qtr	4,085	1,152	221	5,458	469.5	107.6	577.2	177.6	754.8	495.9	1,250.7
1997 Mar. qtr	4,539	1,526	358	6,423	506.9	151.6	658.4	177.3	835.7	492.9	1,328.6
June qtr	5,346	1,395	484	7,226	591.0	160.1	751.1	224.7	975.9	478.0	1,453.9
PUBLIC SECTOR											
1994-95	508	535	7	1,050	36.3	36.7	73.0	3.0	76.0	657.2	733.2
1995-96	473	1,058	29	1,560	42.7	79.8	122.5	39.4	161.9	644.0	805.9
1996-97	257	411	13	681	24.4	26.7	51.1	33.8	84.9	908.7	993.6
1996 Mar. qtr	73	213	1	287	6.9	15.5	22.4	8.2	30.6	205.0	235.6
June qtr	103	209	28	340	9.4	19.7	29.1	11.4	40.5	151.2	191.7
Sept. qtr	104	260	—	364	7.6	16.6	24.2	7.2	31.4	235.5	266.9
Dec. qtr	54	86	1	141	4.4	6.0	10.4	6.7	17.1	159.5	176.6
1997 Mar. qtr	58	34	3	95	6.5	1.8	8.3	11.6	19.9	138.9	158.8
June qtr	41	31	9	81	5.9	2.2	8.1	8.3	16.4	374.9	391.3
TOTAL											
1994-95	25,846	3,612	1,051	30,509	2,481.4	426.3	2,907.7	678.6	3,586.3	1,936.9	5,523.2
1995-96	19,399	4,276	913	24,588	2,010.0	476.2	2,486.2	679.7	3,165.9	2,478.9	5,644.8
1996-97	18,576	5,946	1,132	25,653	2,063.0	598.7	2,661.7	759.1	3,420.8	2,807.9	6,228.8
1996 Mar. qtr	4,373	1,193	180	5,746	443.9	154.0	597.9	138.4	736.3	671.9	1,408.2
June qtr	4,102	1,427	664	6,193	453.1	145.7	598.8	206.8	805.6	537.6	1,343.1
Sept. qtr	4,453	1,722	55	6,230	478.8	169.4	648.1	152.8	800.9	667.9	1,468.8
Dec. qtr	4,139	1,238	222	5,599	474.0	113.6	587.6	184.3	771.9	655.3	1,427.3
1997 Mar. qtr	4,597	1,560	361	6,518	513.4	153.4	666.8	188.9	855.7	631.8	1,487.5
June qtr	5,387	1,426	493	7,307	596.9	162.4	759.2	233.1	992.3	852.9	1,845.2

TABLE 6. VALUE OF NON-RESIDENTIAL BUILDING COMMENCED, PRIVATE AND PUBLIC SECTOR: 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
PRIVATE SECTOR											
1994-95	58.9	315.7	200.5	256.7	148.8	88.6	16.0	66.2	87.6	40.7	1,279.7
1995-96	157.2	435.1	246.2	281.3	285.4	82.8	10.6	57.3	163.4	115.6	1,834.9
1996-97	173.3	316.6	320.7	354.6	288.4	79.4	11.5	136.7	73.3	144.8	1,899.3
1996 Mar. qtr	121.6	73.6	64.1	53.2	78.5	24.2	3.4	9.4	16.0	22.9	466.9
June qtr	13.6	109.1	66.9	58.3	68.5	16.3	2.6	17.8	15.8	17.4	386.3
Sept. qtr	7.4	89.3	76.2	124.6	64.7	24.9	1.4	16.3	13.3	14.1	432.4
Dec. qtr	47.6	66.8	80.4	70.2	95.4	15.8	3.1	20.9	15.1	80.6	495.9
1997 Mar. qtr	82.4	75.2	93.2	73.8	71.9	16.2	5.5	36.4	10.7	27.6	492.9
June qtr	35.8	85.3	70.9	86.1	56.4	22.4	1.5	63.1	34.1	22.5	478.0
PUBLIC SECTOR											
1994-95	0.5	7.7	10.9	127.5	50.8	204.7	-	74.6	161.6	19.0	657.2
1995-96	1.8	9.1	3.0	112.2	66.0	247.1	-	51.1	105.0	48.7	644.0
1996-97	1.7	22.4	20.4	151.2	11.9	330.9	-	165.3	39.2	165.7	908.7
1996 Mar. qtr	1.0	4.8	0.2	26.9	55.5	43.8	-	10.7	54.7	7.3	205.0
June qtr	0.1	0.8	0.3	25.8	1.8	79.9	-	17.4	10.4	14.7	151.2
Sept. qtr	0.2	1.1	19.6	54.5	1.2	45.7	-	85.6	10.0	17.4	235.5
Dec. qtr	0.3	5.5	-	40.9	3.5	50.4	-	28.9	8.2	21.7	159.5
1997 Mar. qtr	0.6	13.1	-	40.2	1.6	43.1	-	12.0	11.7	16.5	138.9
June qtr	0.5	2.7	0.8	15.4	5.6	191.7	-	38.8	9.2	110.1	374.9
TOTAL											
1994-95	59.4	323.4	211.4	384.2	199.6	293.3	16.0	140.8	249.2	59.6	1,936.9
1995-96	159.1	444.3	249.2	393.5	351.3	330.0	10.6	108.4	268.3	164.2	2,478.9
1996-97	175.0	339.0	341.2	505.8	300.3	410.3	11.5	302.0	112.4	310.5	2,807.9
1996 Mar. qtr	122.5	78.4	64.3	80.1	134.1	68.0	3.4	20.1	70.7	30.3	671.9
June qtr	13.6	110.0	67.3	84.1	70.3	96.2	2.6	35.2	26.2	32.1	537.6
Sept. qtr	7.7	90.4	95.9	179.1	65.9	70.7	1.4	101.9	23.4	31.5	667.9
Dec. qtr	48.0	72.3	80.4	111.1	98.9	66.2	3.1	49.8	23.3	102.3	655.3
1997 Mar. qtr	83.0	88.3	93.2	114.0	73.5	59.4	5.5	48.5	22.3	44.1	631.8
June qtr	36.3	87.9	71.7	101.5	62.0	214.1	1.5	101.9	43.4	132.7	852.9

**TABLE 7. NUMBER AND VALUE OF BUILDING UNDER CONSTRUCTION AT END OF PERIOD.
PRIVATE AND PUBLIC SECTOR: ORIGINAL**

	<i>Number of dwelling units</i>				<i>Value (\$m)</i>						
	<i>New houses</i>	<i>New other residential building</i>	<i>Conversions etc.</i>	<i>Total dwelling units</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>
PRIVATE SECTOR											
1994-95	10,381	2,261	1,058	13,700	1,109.3	282.9	1,392.2	349.7	1,741.9	1,664.1	3,406.1
1995-96	7,926	3,111	1,111	12,148	939.7	455.8	1,395.5	326.1	1,721.6	1,789.0	3,510.7
1996-97	8,825	3,844	1,030	13,699	1,072.4	450.7	1,523.1	351.5	1,874.6	2,181.3	4,055.9
1996 Mar. qtr	8,249	2,367	653	11,269	949.7	376.4	1,326.1	288.9	1,614.9	1,857.8	3,472.8
June qtr	7,926	3,111	1,111	12,148	939.7	455.8	1,395.5	326.1	1,721.6	1,789.0	3,510.7
Sept. qtr	8,463	3,296	772	12,531	1,012.6	426.3	1,438.9	288.2	1,727.1	1,926.1	3,653.2
Dec. qtr	7,509	3,468	810	11,787	907.3	439.1	1,346.4	277.5	1,623.9	2,025.3	3,649.2
1997 Mar. qtr	8,055	3,598	738	12,391	974.8	431.5	1,406.3	299.8	1,706.1	2,286.5	3,992.6
June qtr	8,825	3,844	1,030	13,699	1,072.4	450.7	1,523.1	351.5	1,874.6	2,181.3	4,055.9
PUBLIC SECTOR											
1994-95	287	504	7	798	19.9	38.7	58.6	4.6	63.2	762.1	825.3
1995-96	140	795	28	963	11.6	65.4	77.0	13.3	90.3	490.0	580.3
1996-97	111	231	4	346	13.0	22.8	35.8	7.9	43.7	765.4	809.1
1996 Mar. qtr	143	744	—	887	12.6	57.0	69.7	9.3	79.0	719.2	798.2
June qtr	140	795	28	963	11.6	65.4	77.0	13.3	90.3	490.0	580.3
Sept. qtr	160	815	—	975	12.6	62.3	75.0	9.1	84.1	583.0	667.0
Dec. qtr	115	578	—	693	9.8	46.2	56.1	6.9	63.0	586.7	649.6
1997 Mar. qtr	121	448	3	572	11.5	38.2	49.7	9.4	59.1	568.7	627.8
June qtr	111	231	4	346	13.0	22.8	35.8	7.9	43.7	765.4	809.1
TOTAL											
1994-95	10,668	2,765	1,065	14,498	1,129.2	321.6	1,450.8	354.3	1,805.1	2,426.3	4,231.4
1995-96	8,066	3,906	1,139	13,111	951.3	521.3	1,472.5	339.4	1,811.9	2,279.0	4,091.0
1996-97	8,936	4,075	1,034	14,045	1,085.4	473.5	1,558.9	359.4	1,918.3	2,946.7	4,865.0
1996 Mar. qtr	8,392	3,111	653	12,156	962.3	433.4	1,395.7	298.2	1,693.9	2,577.0	4,270.9
June qtr	8,066	3,906	1,139	13,111	951.3	521.3	1,472.5	339.4	1,811.9	2,279.0	4,091.0
Sept. qtr	8,623	4,111	772	13,506	1,025.2	488.6	1,513.8	297.3	1,811.2	2,509.1	4,320.3
Dec. qtr	7,624	4,046	810	12,480	917.1	485.3	1,402.4	284.5	1,686.9	2,612.0	4,298.8
1997 Mar. qtr	8,176	4,046	741	12,963	986.3	469.7	1,456.0	309.3	1,765.2	2,855.2	4,620.4
June qtr	8,936	4,075	1,034	14,045	1,085.4	473.5	1,558.9	359.4	1,918.3	2,946.7	4,865.0

**TABLE 8. VALUE OF NON-RESIDENTIAL BUILDING UNDER CONSTRUCTION AT END OF PERIOD,
PRIVATE AND PUBLIC SECTOR: 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>
PRIVATE SECTOR											
1994-95	189.1	476.8	91.6	182.8	160.7	52.0	18.0	108.6	358.6	26.0	1,664.1
1995-96	313.9	235.1	141.0	77.0	261.7	49.4	11.9	82.0	533.8	83.2	1,789.0
1996-97	332.2	267.8	213.7	172.9	190.6	32.3	10.8	109.7	739.6	111.7	2,181.3
1996 Mar. qtr	290.3	344.7	135.8	86.2	255.7	49.5	12.1	76.1	523.1	84.3	1,857.8
June qtr	313.9	235.1	141.0	77.0	261.7	49.4	11.9	82.0	533.8	83.2	1,789.0
Sept. qtr	323.0	274.4	179.8	115.4	288.9	63.0	11.0	30.9	560.5	79.2	1,926.1
Dec. qtr	404.9	244.7	164.5	106.0	295.9	55.6	11.7	36.7	576.7	128.5	2,025.3
1997 Mar. qtr	568.3	222.6	208.0	142.7	187.2	30.0	14.6	56.3	713.7	143.2	2,286.5
June qtr	332.2	267.8	213.7	172.9	190.6	32.3	10.8	109.7	739.6	111.7	2,181.3
PUBLIC SECTOR											
1994-95	0.5	3.8	51.4	59.1	149.6	165.3	—	142.4	157.8	32.2	762.1
1995-96	—	0.4	0.4	62.2	48.7	198.7	—	41.9	79.0	58.6	490.0
1996-97	1.1	11.9	0.3	65.6	52.2	279.1	—	135.3	73.1	146.9	765.4
1996 Mar. qtr	0.6	0.5	0.1	63.6	179.7	172.5	—	47.3	201.5	53.3	719.2
June qtr	—	0.4	0.4	62.2	48.7	198.7	—	41.9	79.0	58.6	490.0
Sept. qtr	0.2	1.1	19.6	83.9	48.5	199.1	—	115.3	83.6	31.6	583.0
Dec. qtr	0.3	5.2	19.1	95.8	50.3	168.7	—	121.2	84.8	41.4	586.7
1997 Mar. qtr	0.6	15.1	19.1	85.9	50.2	158.1	—	116.3	75.9	47.6	568.7
June qtr	1.1	11.9	0.3	65.6	52.2	279.1	—	135.3	73.1	146.9	765.4
TOTAL											
1994-95	189.6	480.6	142.9	241.9	310.4	217.3	18.0	251.0	516.4	58.2	2,426.3
1995-96	313.9	235.5	141.4	139.2	310.4	248.1	11.9	123.9	612.8	141.9	2,279.0
1996-97	333.3	279.7	214.0	238.5	242.8	311.4	10.8	244.9	812.7	258.5	2,946.7
1996 Mar. qtr	290.9	345.2	136.0	149.8	435.4	222.0	12.1	123.4	724.5	137.6	2,577.0
June qtr	313.9	235.5	141.4	139.2	310.4	248.1	11.9	123.9	612.8	141.9	2,279.0
Sept. qtr	323.2	275.5	199.4	199.4	337.4	262.2	11.0	146.2	644.1	110.7	2,509.1
Dec. qtr	405.2	249.8	183.6	201.8	346.2	224.3	11.7	157.9	661.5	169.9	2,612.0
1997 Mar. qtr	568.9	237.7	227.1	228.6	237.4	188.1	14.6	172.5	789.6	190.8	2,855.2
June qtr	333.3	279.7	214.0	238.5	242.8	311.4	10.8	244.9	812.7	258.5	2,946.7

TABLE 9. NUMBER AND VALUE OF BUILDING COMPLETED, PRIVATE AND PUBLIC SECTOR: 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
PRIVATE SECTOR											
1994-95	26,693	2,412	884	29,989	2,566.3	234.9	2,801.2	707.8	3,509.0	1,255.7	4,764.7
1995-96	21,263	2,319	710	24,292	2,145.1	240.0	2,385.0	658.5	3,043.5	1,909.6	4,953.1
1996-97	17,270	4,747	1,177	23,194	1,928.6	591.2	2,519.8	726.7	3,246.5	2,046.5	5,293.0
1996 Mar. qtr	4,474	535	80	5,089	460.7	50.2	510.9	134.9	645.8	297.5	943.3
June qtr	4,288	471	60	4,819	455.9	44.6	500.5	140.2	640.6	490.6	1,131.2
Sept. qtr	3,764	1,246	393	5,403	403.0	176.9	579.9	193.1	772.9	413.6	1,186.5
Dec. qtr	4,983	971	182	6,136	577.3	104.1	681.4	191.6	873.0	510.5	1,383.6
1997 Mar. qtr	3,947	1,389	410	5,746	438.8	163.0	601.9	159.2	761.0	523.8	1,284.8
June qtr	4,576	1,141	192	5,909	509.4	147.2	656.7	182.8	839.5	598.6	1,438.1
PUBLIC SECTOR											
1994-95	687	480	3	1,170	44.3	37.0	81.3	1.9	83.2	739.4	822.6
1995-96	620	767	8	1,395	51.3	53.3	104.6	30.5	135.1	950.7	1,085.8
1996-97	283	969	37	1,289	22.5	69.4	91.9	39.2	131.1	625.5	756.6
1996 Mar. qtr	108	216	1	325	9.5	16.6	26.1	6.8	32.9	164.6	197.5
June qtr	106	158	—	264	10.6	10.4	21.0	7.5	28.5	384.9	413.4
Sept. qtr	84	234	28	346	6.6	19.6	26.2	11.0	37.1	143.8	180.9
Dec. qtr	98	323	1	422	7.0	22.1	29.1	8.9	38.0	147.9	185.9
1997 Mar. qtr	50	164		214	4.5	10.0	14.5	9.4	23.9	148.7	172.6
June qtr	51	248	8	307	4.4	17.8	22.2	9.9	32.1	185.1	217.1
TOTAL											
1994-95	27,380	2,892	887	31,159	2,610.6	271.9	2,882.5	709.8	3,592.3	1,995.0	5,587.3
1995-96	21,883	3,086	718	25,687	2,196.4	293.2	2,489.6	689.0	3,178.6	2,860.3	6,038.9
1996-97	17,553	5,716	1,214	24,483	1,951.1	660.6	2,611.7	765.9	3,377.6	2,672.0	6,049.6
1996 Mar. qtr	4,582	751	81	5,414	470.2	66.8	537.1	141.7	678.8	462.0	1,140.8
June qtr	4,394	629	60	5,083	466.5	55.0	521.4	147.7	669.1	875.5	1,544.6
Sept. qtr	3,848	1,480	421	5,749	409.6	196.4	606.0	204.1	810.1	557.3	1,367.4
Dec. qtr	5,081	1,294	183	6,558	584.3	126.2	710.6	200.5	911.1	658.5	1,569.5
1997 Mar. qtr	3,997	1,553	410	5,960	443.3	173.0	616.3	168.6	784.9	672.5	1,457.4
June qtr	4,627	1,389	200	6,216	513.8	165.0	678.8	192.7	871.6	783.6	1,655.2

TABLE 10. VALUE OF NON-RESIDENTIAL BUILDING COMPLETED, PRIVATE AND PUBLIC SECTOR: 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
PRIVATE SECTOR											
1994-95	23.7	308.4	237.1	202.1	184.2	86.7	12.1	87.7	40.9	72.7	1,255.7
1995-96	79.1	702.6	195.9	391.7	217.9	84.6	15.5	83.6	83.0	55.8	1,909.6
1996-97	298.6	349.5	273.7	256.7	418.6	93.2	13.3	114.0	111.6	117.3	2,046.5
1996 Mar. qtr	10.3	50.5	37.4	86.1	43.8	22.4	2.1	14.4	16.9	13.7	297.5
June qtr	15.2	216.7	60.0	70.0	63.9	16.6	3.0	12.5	13.0	19.7	490.6
Sept. qtr	4.9	85.1	41.1	85.9	48.9	10.7	2.7	67.1	48.2	19.0	413.6
Dec. qtr	12.6	104.6	110.2	57.4	107.0	21.0	2.6	18.6	45.0	31.6	510.5
1997 Mar. qtr	7.3	118.1	56.9	54.3	205.0	41.7	2.8	17.5	8.6	11.7	523.8
June qtr	273.8	41.7	65.5	59.1	57.8	19.8	5.3	10.8	9.8	55.0	598.6
PUBLIC SECTOR											
1994-95	6.7	5.2	16.0	88.6	29.6	142.2	—	299.5	83.5	68.1	739.4
1995-96	2.3	12.5	54.0	122.4	168.5	217.6	—	151.1	194.4	27.9	950.7
1996-97	0.5	11.0	20.6	139.4	8.7	247.3	—	70.4	50.8	76.9	625.5
1996 Mar. qtr	1.3	5.4	1.9	34.2	18.1	64.4	—	8.4	25.3	5.6	164.6
June qtr	0.6	0.9	0.1	28.1	133.3	56.3	—	21.5	134.4	9.8	384.9
Sept. qtr	—	0.5	0.4	33.7	1.4	45.0	—	12.2	5.6	45.0	143.8
Dec. qtr	0.3	1.4	0.5	21.8	1.8	82.1	—	20.4	7.3	12.3	147.9
1997 Mar. qtr	0.2	3.1	—	46.2	1.6	46.4	—	17.3	23.5	10.3	148.7
June qtr	—	5.9	19.6	37.7	4.0	73.7	—	20.6	14.3	9.3	185.1
TOTAL											
1994-95	30.3	313.6	253.1	290.7	213.9	228.8	12.1	387.3	124.4	140.9	1,995.0
1995-96	81.5	715.1	249.9	514.1	386.4	302.2	15.5	234.7	277.3	83.7	2,860.3
1996-97	299.1	360.5	294.2	396.1	427.4	340.5	13.3	184.4	162.3	194.2	2,672.0
1996 Mar. qtr	11.6	55.9	39.3	120.3	61.9	86.8	2.1	22.7	42.2	19.3	462.0
June qtr	15.8	217.6	60.0	98.1	197.2	72.9	3.0	33.9	147.4	29.4	875.5
Sept. qtr	4.9	85.6	41.5	119.6	50.2	55.7	2.7	79.2	53.8	64.0	557.3
Dec. qtr	12.9	106.0	110.8	79.2	108.8	103.1	2.6	39.0	52.3	43.8	658.5
1997 Mar. qtr	7.5	121.2	56.9	100.5	206.6	88.1	2.8	34.8	32.1	22.0	672.5
June qtr	273.8	47.6	85.1	96.8	61.8	93.5	5.3	31.3	24.2	64.4	783.6

TABLE 11. VALUE OF BUILDING WORK DONE, PRIVATE AND PUBLIC SECTOR: 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>
PRIVATE SECTOR							
1994-95	2,535.3	258.1	2,793.4	702.4	3,495.8	1,601.4	5,097.3
1995-96	2,065.0	388.2	2,453.2	665.0	3,118.2	2,109.7	5,227.9
1996-97	1,959.3	554.0	2,513.4	738.3	3,251.6	2,543.8	5,795.4
1996 Mar. qtr	447.6	101.6	549.2	136.0	685.3	446.1	1,131.4
June qtr	460.9	118.1	579.1	172.2	751.3	522.8	1,274.0
Sept. qtr	448.6	147.3	595.9	170.6	766.5	548.6	1,315.1
Dec. qtr	510.4	131.8	642.2	183.4	825.6	677.9	1,503.5
1997 Mar. qtr	457.5	125.4	582.9	172.2	755.1	761.7	1,516.9
June qtr	542.9	149.4	692.3	212.1	904.4	555.6	1,460.1
PUBLIC SECTOR							
1994-95	38.6	41.9	80.6	5.1	85.7	720.6	806.3
1995-96	46.0	63.8	109.8	33.1	143.0	760.4	903.3
1996-97	24.4	53.6	78.1	36.7	114.8	696.2	811.0
1996 Mar. qtr	10.3	17.4	27.7	7.8	35.5	167.5	203.1
June qtr	8.2	17.0	25.2	10.0	35.2	152.7	187.9
Sept. qtr	6.8	17.7	24.5	8.9	33.4	161.7	195.2
Dec. qtr	6.3	17.8	24.1	8.5	32.6	182.2	214.8
1997 Mar. qtr	5.2	10.9	16.0	10.0	26.1	180.7	206.8
June qtr	6.1	7.3	13.4	9.3	22.7	171.6	194.3
TOTAL							
1994-95	2,573.9	300.0	2,874.0	707.5	3,581.5	2,322.0	5,903.5
1995-96	2,111.1	452.0	2,563.1	698.1	3,261.2	2,870.0	6,131.2
1996-97	1,983.8	607.7	2,591.4	775.0	3,366.4	3,240.0	6,606.4
1996 Mar. qtr	457.9	119.0	576.9	143.9	720.8	613.7	1,334.4
June qtr	469.2	135.2	604.3	182.2	786.5	675.5	1,461.9
Sept. qtr	455.4	165.0	620.4	179.5	799.9	710.3	1,510.2
Dec. qtr	516.7	149.6	666.3	191.9	858.2	860.0	1,718.2
1997 Mar. qtr	462.6	136.3	598.9	182.3	781.2	942.4	1,723.6
June qtr	549.0	156.7	705.8	221.4	927.1	727.2	1,654.4

TABLE 12. VALUE OF NON-RESIDENTIAL BUILDING WORK DONE, PRIVATE AND PUBLIC SECTOR: ORIGINAL
(S 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>Entertain- ment and recreational</i>	<i>Miscel- laneous</i>	<i>Total non-resi- dential building</i>
PRIVATE SECTOR											
1994-95	48.9	457.0	205.8	291.2	262.6	85.8	16.3	97.4	84.2	52.2	1,601.4
1995-96	156.2	476.7	222.0	321.0	279.1	92.0	11.2	76.7	384.7	90.0	2,109.7
1996-97	249.3	422.9	341.6	331.9	379.4	80.0	12.5	94.1	477.8	154.3	2,543.8
1996 Mar. qtr	33.5	84.5	52.2	61.6	71.9	20.0	3.2	12.2	81.9	25.0	446.1
June qtr	32.3	90.2	62.0	70.7	76.9	21.2	2.2	15.6	120.7	31.1	522.8
Sept. qtr	28.7	107.5	74.9	69.0	83.2	20.4	1.6	15.7	119.5	27.9	548.6
Dec. qtr	54.3	137.5	100.3	85.6	105.2	24.3	2.5	17.2	105.5	45.4	677.9
1997 Mar. qtr	110.8	86.8	77.0	74.3	102.6	20.1	4.4	30.8	224.9	30.1	761.7
June qtr	55.5	91.0	89.3	102.9	88.4	15.2	4.0	30.4	27.9	50.9	555.6
PUBLIC SECTOR											
1994-95	2.9	7.0	39.6	101.8	92.4	177.4	—	112.1	135.5	52.0	720.6
1995-96	2.0	10.3	18.4	135.4	104.7	249.3	—	61.5	130.5	48.2	760.4
1996-97	0.8	14.7	20.5	135.9	39.2	216.7	—	106.9	93.2	68.2	696.2
1996 Mar. qtr	0.9	5.5	0.8	33.8	21.6	61.9	—	12.2	17.4	13.4	167.5
June qtr	0.3	0.9	0.2	26.4	12.3	63.6	—	16.5	19.4	13.1	152.7
Sept. qtr	—	0.9	4.8	33.2	5.2	56.8	—	22.3	25.5	13.1	161.7
Dec. qtr	0.5	2.1	5.7	36.5	10.4	58.9	—	26.6	27.0	14.5	182.2
1997 Mar. qtr	0.1	7.1	8.1	35.3	9.4	51.8	—	28.5	22.9	17.5	180.7
June qtr	0.2	4.6	2.0	30.9	14.3	49.2	—	29.5	17.8	23.1	171.6
TOTAL											
1994-95	51.8	464.0	245.4	393.1	354.9	263.2	16.3	209.5	219.7	104.2	2,322.0
1995-96	158.2	487.0	240.4	456.4	383.8	341.3	11.2	138.2	515.2	138.2	2,870.0
1996-97	250.1	437.7	362.1	467.7	418.6	296.7	12.5	201.1	570.9	222.5	3,240.0
1996 Mar. qtr	34.4	90.0	53.0	95.4	93.6	81.9	3.2	24.4	99.3	38.4	613.7
June qtr	32.6	91.0	62.2	97.1	89.2	84.8	2.2	32.1	140.0	44.2	675.5
Sept. qtr	28.8	108.4	79.7	102.2	88.4	77.2	1.6	38.0	145.0	41.0	710.3
Dec. qtr	54.7	139.7	106.0	122.1	115.6	83.2	2.5	43.8	132.5	60.0	860.0
1997 Mar. qtr	110.8	93.9	85.1	109.6	112.0	71.8	4.4	59.3	247.8	47.6	942.4
June qtr	55.8	95.7	91.3	133.8	102.7	64.4	4.0	59.9	45.7	74.0	727.2

TABLE 13. VALUE OF BUILDING WORK YET TO BE DONE AT END OF PERIOD,
PRIVATE AND PUBLIC SECTOR: 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>
PRIVATE SECTOR							
1994-95	473.5	170.0	643.5	149.3	792.8	824.8	1,617.6
1995-96	403.3	196.5	599.8	125.6	725.4	769.1	1,494.5
1996-97	511.9	231.0	742.9	141.3	884.2	668.3	1,552.5
1996 Mar. qtr	415.7	190.6	606.3	116.4	722.6	870.3	1,592.9
June qtr	403.3	196.5	599.8	125.6	725.4	769.1	1,494.5
Sept. qtr	432.3	197.7	630.0	110.3	740.3	772.7	1,513.1
Dec. qtr	396.9	183.3	580.2	108.4	688.7	707.5	1,396.2
1997 Mar. qtr	447.7	213.8	661.5	117.7	779.3	731.0	1,510.3
June qtr	511.9	231.0	742.9	141.3	884.2	668.3	1,552.5
PUBLIC SECTOR							
1994-95	8.5	16.8	25.3	0.7	26.0	321.1	347.1
1995-96	5.5	33.1	38.6	6.8	45.4	241.8	287.2
1996-97	5.3	6.3	11.6	4.0	15.6	453.6	469.2
1996 Mar. qtr	4.2	31.4	35.5	5.3	40.9	238.4	279.2
June qtr	5.5	33.1	38.6	6.8	45.4	241.8	287.2
Sept. qtr	6.3	32.0	38.2	4.7	43.0	316.8	359.8
Dec. qtr	4.6	20.1	24.7	2.9	27.6	292.1	319.7
1997 Mar. qtr	5.6	11.2	16.8	4.8	21.6	242.4	264.0
June qtr	5.3	6.3	11.6	4.0	15.6	453.6	469.2
TOTAL							
1994-95	482.0	186.8	668.8	150.0	818.8	1,145.9	1,964.7
1995-96	408.7	229.6	638.4	132.4	770.8	1,010.9	1,781.7
1996-97	517.3	237.3	754.5	145.3	899.8	1,121.9	2,021.7
1996 Mar. qtr	419.9	222.0	641.8	121.7	763.5	1,108.7	1,872.2
June qtr	408.7	229.6	638.4	132.4	770.8	1,010.9	1,781.7
Sept. qtr	438.5	229.7	668.2	115.0	783.3	1,089.6	1,872.8
Dec. qtr	401.5	203.4	604.9	111.3	716.3	999.7	1,715.9
1997 Mar. qtr	453.3	225.0	678.3	122.5	800.9	973.4	1,774.3
June qtr	517.3	237.3	754.5	145.3	899.8	1,121.9	2,021.7

TABLE 14. VALUE OF NON-RESIDENTIAL BUILDING WORK YET TO BE DONE AT END OF PERIOD,
PRIVATE AND PUBLIC SECTOR: 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>
PRIVATE SECTOR											
1994-95	154.5	141.4	46.1	56.8	41.3	28.2	7.5	35.6	301.5	11.9	824.8
1995-96	199.5	125.8	70.4	22.5	81.4	22.0	5.7	16.3	190.6	35.0	769.1
1996-97	267.1	86.6	75.2	43.8	49.5	19.8	5.4	64.0	30.4	26.6	668.3
1996 Mar. qtr	195.7	108.9	65.5	31.7	88.4	26.6	5.1	13.5	287.4	47.6	870.3
June qtr	199.5	125.8	70.4	22.5	81.4	22.0	5.7	16.3	190.6	35.0	769.1
Sept. qtr	184.7	142.8	74.9	77.8	74.5	27.4	5.8	16.7	146.1	22.0	772.7
Dec. qtr	225.0	81.5	69.4	41.7	83.3	16.8	6.6	24.0	101.9	57.5	707.5
1997 Mar. qtr	285.0	90.7	92.8	58.4	76.7	12.9	7.8	30.2	22.5	54.0	731.0
June qtr	267.1	86.6	75.2	43.8	49.5	19.8	5.4	64.0	30.4	26.6	668.3
PUBLIC SECTOR											
1994-95	0.1	1.3	15.6	32.5	72.6	94.4	—	26.5	69.7	8.5	321.1
1995-96	—	0.1	0.2	22.6	35.4	96.4	—	16.5	56.0	14.6	241.8
1996-97	0.8	7.8	0.2	32.7	8.4	207.3	—	76.2	7.7	112.5	453.6
1996 Mar. qtr	0.2	0.2	0.1	22.4	45.5	77.2	—	16.8	63.4	12.5	238.4
June qtr	—	0.1	0.2	22.6	35.4	96.4	—	16.5	56.0	14.6	241.8
Sept. qtr	0.2	0.4	15.1	44.9	31.4	85.0	—	79.8	40.7	19.4	316.8
Dec. qtr	0.1	3.8	9.4	45.1	24.6	77.8	—	82.3	22.2	27.0	292.1
1997 Mar. qtr	0.5	9.8	1.3	46.2	16.7	61.7	—	66.2	13.9	26.0	242.4
June qtr	0.8	7.8	0.2	32.7	8.4	207.3	—	76.2	7.7	112.5	453.6
TOTAL											
1994-95	154.6	142.6	61.7	89.3	113.9	122.5	7.5	62.1	371.2	20.4	1,145.9
1995-96	199.5	125.9	70.6	45.1	116.8	118.3	5.7	32.8	246.7	49.6	1,010.9
1996-97	268.0	94.4	75.3	76.6	57.9	227.1	5.4	140.2	38.1	139.1	1,121.9
1996 Mar. qtr	196.0	109.0	65.6	54.1	133.9	103.8	5.1	30.3	350.8	60.0	1,108.7
June qtr	199.5	125.9	70.6	45.1	116.8	118.3	5.7	32.8	246.7	49.6	1,010.9
Sept. qtr	184.9	143.2	90.0	122.7	105.9	112.4	5.8	96.5	186.8	41.4	1,089.6
Dec. qtr	225.1	85.3	78.8	86.7	107.9	94.6	6.6	106.3	124.0	84.4	999.7
1997 Mar. qtr	285.6	100.4	94.2	104.7	93.4	74.6	7.8	96.4	36.4	79.9	973.4
June qtr	268.0	94.4	75.3	76.6	57.9	227.1	5.4	140.2	38.1	139.1	1,121.9

TABLE 15. BUILDING ACTIVITY RELATIVE STANDARD ERRORS, JUNE QUARTER 1997
(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>		
TOTAL PRIVATE AND PUBLIC SECTORS						
Commenced	3.0	3.2	2.2	2.4	5.6	1.3
Under construction at end of period	3.2	3.2	2.1	2.2	4.4	0.7
Completed	5.4	5.8	3.9	4.1	5.4	1.8
Value of work done	..	3.2	..	2.4	3.7	0.9
Value of work yet to be done	..	4.0	..	2.7	6.5	1.1

EXPLANATORY NOTES

Introduction

This publication contains detailed results 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) 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.

(b) 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. Prior to the September quarter 1990, the cut-off for inclusion of non-residential building jobs (both new and alterations and additions) was \$30,000 or more and prior to the September quarter 1985 it was \$10,000 or more. Care should be taken in interpreting data for specific classes of non-residential building.

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. However, estimates for capital city Statistical Divisions can be made available. Also, data for regions below State/Territory level are available from the Building Approvals series and from the monthly series of dwelling unit commencements compiled for South Australia and Western Australia by the ABS. Unlike data in this publication compiled from the Building Activity Survey, the series for smaller geographic areas are based on information reported by local and other government authorities.

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 building jobs selected in previous quarters which have not been completed (or commenced) by the end of the previous quarter and those building jobs newly selected in the current quarter. The population list from which building jobs are selected for inclusion comprises all approved building jobs which were notified to the ABS 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 building 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, building 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.

Definitions

7. 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.

8. 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.

9. 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) 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.

(b) 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.).

10. 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.

11. 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.

12. *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).

13. *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.

14. *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

15. The value series in this publication are derived from estimates reported on survey returns as follows.

- (a) *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 building 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.
- (b) *Value of building completed* represents the actual completion value based, where practicable, on the market or contract price of building jobs including site preparation costs but excluding the value of land and landscaping.
- (c) *Value of building work done during the period* represents the estimated value of building work actually carried out during the quarter on building jobs which have commenced.
- (d) *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 building jobs commenced but not completed.

Building classification

16. *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.

17. *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.

18. Examples of the types of buildings included under each main functional heading are shown in the following list.

- (a) *Houses.* Includes cottages, bungalows, detached caretakers'/managers' cottages, rectories.
- (b) *Other residential buildings.* Includes blocks of flats, home units, attached townhouses, villa units, terrace houses, semi-detached houses, maisonettes.
- (c) *Hotels, etc.* Includes motels, hostels, boarding houses, guesthouses, holiday apartment buildings.
- (d) *Shops.* Includes retail shops, restaurants, cafes, taverns, dry cleaners, laundromats, hair salons, shopping arcades.

- (e) *Factories.* Includes paper mills, oil refinery buildings, brickworks, foundries, powerhouses, manufacturing laboratories, workshops as part of a manufacturing process.
- (f) *Offices.* Includes banks, post offices, council chambers, head and regional offices.
- (g) *Other business premises.* Includes warehouses, storage depots, service stations, transport depots and terminals, electricity sub-station buildings, pumping station buildings, telephone exchanges, mail sorting centres, broadcasting stations, film studios.
- (h) *Educational.* Includes schools, colleges, kindergartens, libraries, museums, art galleries, research and teaching laboratories, theological colleges.
- (i) *Religious.* Includes churches, chapels, temples.
- (j) *Health.* Includes hospitals, nursing homes, surgeries, clinics, medical centres.
- (k) *Entertainment and recreational.* Includes clubs, theatres, cinemas, public halls, gymnasiums, grandstands, squash courts, sports and recreation centres.
- (l) *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

19. Since the figures for private sector house 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*, 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 standard error 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 standard errors. Another measure of sampling variability is the *relative standard error*, which is obtained by expressing the standard error as a percentage of the estimate to which it refers. The relative standard errors of estimates provide an indication of the percentage errors likely to have occurred due to sampling, and are shown in Table 15.

20. An example of the use of relative standard errors 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 relative standard error is 2.5 per cent (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 per cent 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.

21. The imprecision due to sampling variability, which is measured by the relative standard error, 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 building jobs, and efficient operating procedures.

Seasonal adjustment

22. 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 trading day effects (arising from the varying numbers of Sundays, Mondays, Tuesdays etc. in the quarter) and the effect of the 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, Canberra, on (02) 6252 6345.

23. 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.

Estimates at constant prices

24. Estimates of the value of commencements and work done at average 1989-90 prices are shown in Tables 1 and 2. Constant price estimates measure changes in value after the direct effects of price changes have been eliminated. 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 non-dwelling construction components of the national accounts aggregate 'Gross fixed capital expenditure'.

25. Estimates at constant prices are subject to a number of approximations and assumptions. Further information on the nature and concepts of constant price estimates is contained in Chapter 4 of *Australian National Accounts: Concepts, Sources and Methods* (5216.0).

26. The factors used to seasonally adjust the constant price series are identical to those used to adjust the corresponding current price series.

Unpublished data and related publications

27. The ABS can also make available certain building approvals and activity data which are not published. Where it is not practicable to provide the required information by telephone, data can be provided in the following forms: photocopy, computer printout, floppy disk and clerically extracted tabulation. Inquiries should be made to Information Inquiries on Melbourne (03) 9615 7755 or any ABS State office.

28. Users may also wish to refer to the following building and construction publications which are available on request:

Building Approvals, Australia (8731.0) – issued monthly
Building Approvals, Victoria (8731.2) – issued monthly
Building Activity, Australia: Dwelling Unit Commencements, Preliminary (8750.0) – issued quarterly
Building Activity, Australia (8752.0) – issued quarterly
Housing Finance for Owner Occupation, Australia (5609.0) – issued monthly

29. Current publications produced by the ABS are listed in the *Catalogue of Publications and Products, Australia* (1101.0). The ABS also issues, on Tuesdays and Fridays, a *Release Advice* (1105.0) which lists publications to be released in the next few days. The Catalogue and Release Advice are available from any ABS office.

Symbols and other usages

.. not applicable
 — nil or rounded to zero
 r figure or series revised since previous issue

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

Stuart Jackson
Regional Director

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