

**BUILDING ACTIVITY, WESTERN AUSTRALIA
SEPTEMBER QUARTER 1996**

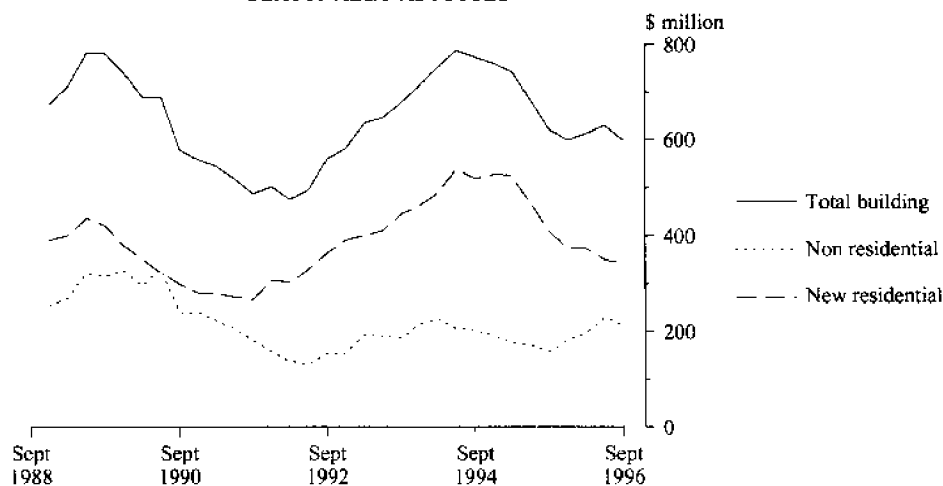
SUMMARY OF FINDINGS

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

	% change on	
	June quarter 1996	Sept. quarter 1995
New residential building	-2.3	-16.6
Alterations and additions to residential buildings	-22.0	17.9
Non-residential building	-7.8	33.2
Total building	-4.7	-3.5

- In seasonally adjusted average 1989-90 prices, the value of work done on new residential building during the September quarter 1996 declined by 2.3% to \$342.6 million. This level is 16.6% below that of a year earlier, with work done on new houses down by 11.8% and on new other residential building down by 33.5%.
- By comparison, although work done on non-residential building fell by 7.8% in the September quarter to \$213.2 million, this was still 33.2% above the level of a year earlier.
- Overall, the total value of all building work done fell by 4.7% during the September quarter to \$599.7 million. This level was 3.5% below that of a year earlier.

**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- for more information about statistics contained in this publication, the availability of related unpublished statistics and other ABS statistics and services, please contact Information Inquiries on Perth (09) 360 5140 (fax (09) 360 5955), call at Exchange Plaza, 1 The Esplanade, Perth or write to Information Inquiries, ABS, GPO Box K881, Perth WA 6001 or any ABS State office.
- for more detailed information about these statistics, contact Rex Porter on Adelaide (08) 8237 7316 or any ABS State office.

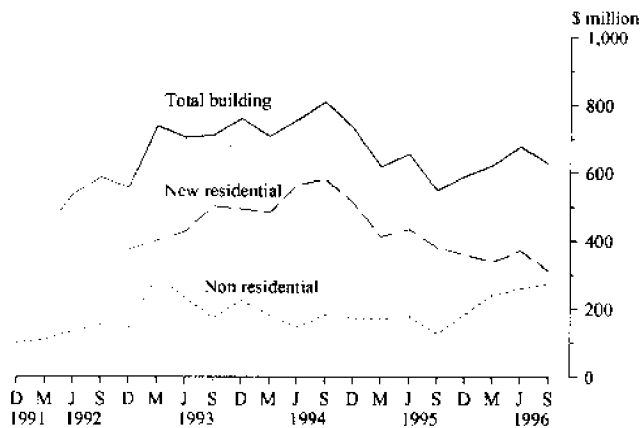
SUMMARY OF FINDINGS – continued

Value of building work commenced at average 1989–90 prices

	% change on	
	June quarter 1996	Sept. quarter 1995
New residential building	-16.0	-17.7
Alterations and additions to residential buildings	-12.4	-8.6
Non-residential building	5.1	117.4
Total building	-7.6	14.0

- In average 1989–90 prices, the value of new residential building work commenced during the September quarter fell by 16.0% to \$313.1 million. This level was the lowest for 4½ years and was 46.4% below the September quarter 1994 peak. The September quarter decline was mainly due to commencements of new other residential building falling to \$32.9 million, the lowest since the December quarter 1983.
- By comparison, non-residential commencements rose by 5.1% for the quarter to \$274.1 million. This level was 49.1% above that for the September quarter 1994.
- The total value of all building work commenced during the quarter fell by 7.6% to \$627.4 million, still 14.0% higher than a year earlier.

VALUE OF WORK COMMENCED AT AVERAGE 1989-90 PRICES

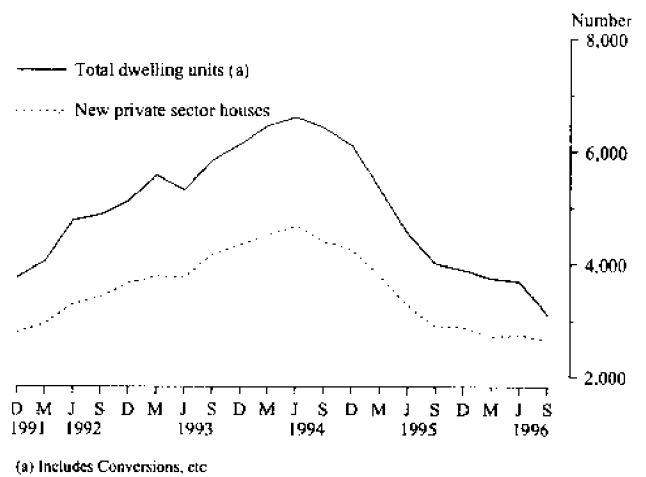


Number of dwelling units commenced, seasonally adjusted

	% change on	
	June quarter 1996	Sept. quarter 1995
New private sector houses	-3.9	-9.3
Private sector dwelling units	14.2	19.6
Total dwelling units	-15.6	-22.4

- In seasonally adjusted terms, the total number of dwelling units commenced during the September quarter fell by 15.6% to 3,109. Since the peak in the June quarter 1994, the series has fallen by 52.9%.
- By comparison, the number of new private sector houses commenced during the September quarter was down a more modest 3.9% to 2,629, but still down 43.9% since the peak in the June quarter 1994.

DWELLING UNITS COMMENCED SEASONALLY ADJUSTED



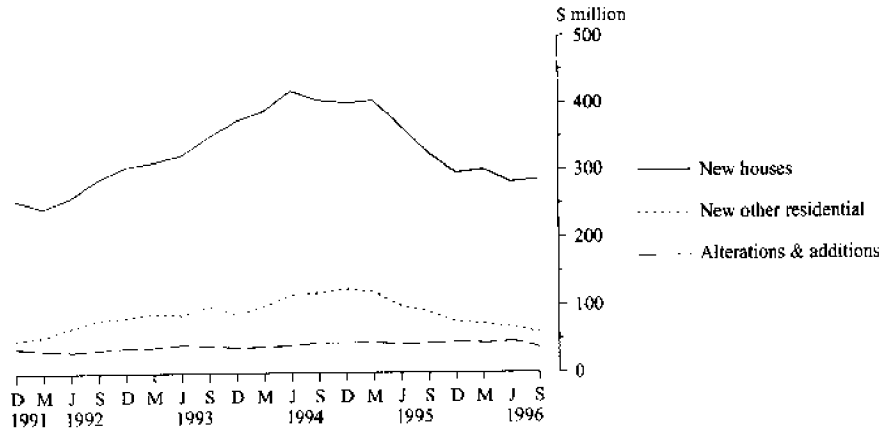
Original data

- The total value of building work commenced during the September quarter 1996 fell by 7.4% to \$644.6 million. Although non-residential building work commenced was up by 5.6% to \$293.1 million, this was overshadowed by a 16.0% fall in residential building to \$351.6 million. The total number of dwelling units commenced fell by 11.8% to 3,321, due mainly to a 41.5% fall to 484 in the number of new other residential dwelling units commenced.
- The value of work done during the quarter, at \$635.6 million, was little different from the June quarter. Work yet to be done on jobs under construction at the end of September 1996 was up 4.2% to \$694.9 million or 1.1 times the work done during the quarter.

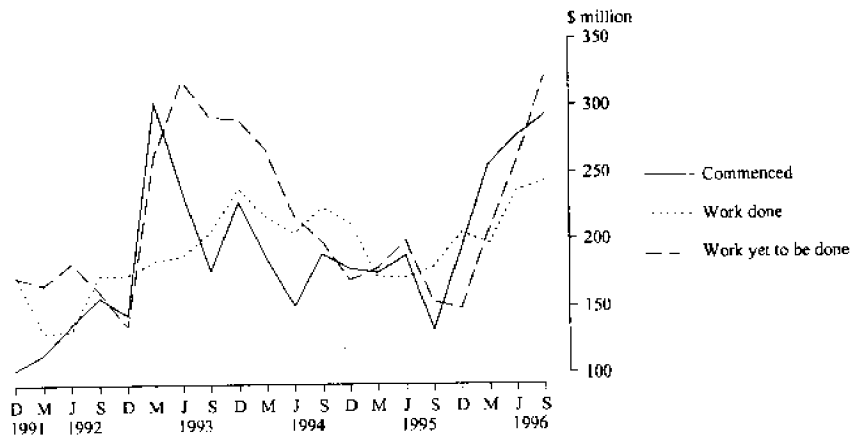
Revisions to June quarter 1996

These include significant upward revisions to the value of non-residential work commenced, under construction and work yet to be done, mainly to the educational category, because several large building jobs have recently been added.

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



VALUE OF NON-RESIDENTIAL BUILDING



VALUE OF NON-RESIDENTIAL WORK DONE

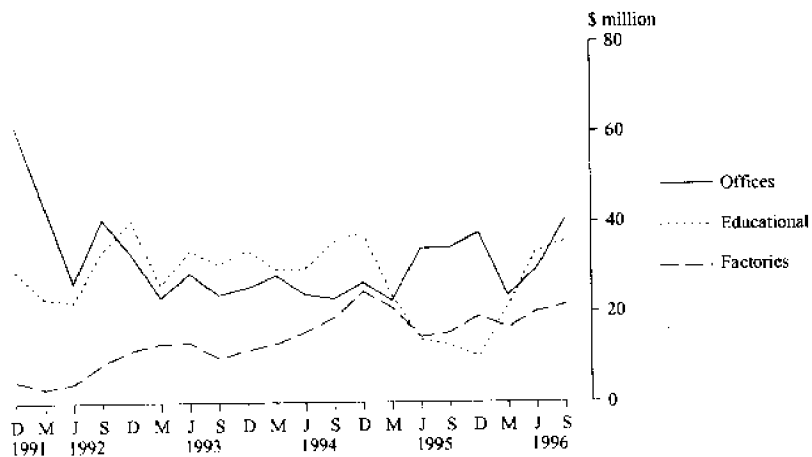


TABLE 1. VALUE OF BUILDING WORK COMMENCED, AVERAGE 1989-90 PRICES (a)
(\$ million)

Period	New residential building			Alterations and additions to residential buildings	Non-residential building		Total building
	Houses	Other residential building	Total		Private sector	Total	
1993-94	1,611.7	433.9	2,045.6	162.4	536.8	726.6	2,934.6
1994-95	1,518.3	429.1	1,947.4	165.7	561.4	705.1	2,818.2
1995-96	1,160.3	290.9	1,451.2	177.6	620.6	812.9	2,441.7
1995 June qtr	350.1	86.3	436.4	39.9	153.7	180.1	656.4
Sept. qtr	297.5	82.9	380.4	44.0	116.0	126.1	550.5
Dec. qtr	291.7	68.2	359.9	45.9	172.6	183.6	589.4
1996 Mar. qtr	266.4	71.8	338.2	41.8	188.5	242.5	622.5
June qtr r	304.7	68.0	372.7	45.9	143.5	260.7	679.3
Sept. qtr	280.2	32.9	313.1	40.2	237.5	274.1	627.4

(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							
1993-94	1,532.1	402.0	1,934.1	162.3	594.0	834.5	2,930.9
1994-95	1,577.8	462.9	2,040.7	177.9	593.9	745.6	2,964.2
1995-96	1,205.5	306.3	1,511.8	184.7	625.1	765.5	2,462.0
1995 June qtr	365.7	96.6	462.3	43.3	127.0	163.0	668.6
Sept. qtr	330.9	93.3	424.2	45.8	141.5	169.5	639.5
Dec. qtr	309.1	80.3	389.4	48.5	169.0	192.3	630.2
1996 Mar. qtr	283.2	67.9	351.1	41.9	152.3	183.8	576.8
June qtr r	282.3	64.8	347.1	48.5	162.3	219.9	615.5
Sept. qtr	291.6	62.0	353.6	37.7	164.8	225.7	617.0
SEASONALLY ADJUSTED							
1995 June qtr	365.9	99.5	467.1	42.8	139.6	171.1	683.3
Sept. qtr	325.0	90.1	410.7	45.7	131.6	160.1	621.2
Dec. qtr	296.5	75.7	374.4	46.0	155.5	181.5	599.3
1996 Mar. qtr	301.1	72.7	374.5	44.9	163.9	197.5	613.0
June qtr r	282.4	66.7	350.7	48.1	178.7	231.2	629.3
Sept. qtr	286.6	59.9	342.6	37.5	153.2	213.2	599.7

(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*)

<i>Period</i>	<i>New residential building</i>			<i>Alterations and additions to residential buildings</i>	<i>Non-residential building</i>		<i>Total building</i>
	<i>Houses</i>	<i>Other residential building</i>	<i>Total</i>		<i>Private sector</i>	<i>Total</i>	
1995 June qtr	356.8	103.9	462.3	41.7	147.4	180.6	686.7
Sept. qtr	319.1	94.7	409.5	45.0	139.9	170.3	629.7
Dec. qtr	292.5	79.7	374.5	45.4	165.9	193.7	611.2
1996 Mar. qtr	298.8	77.1	376.6	44.6	175.8	211.9	629.0
June qtr r	279.1	71.0	351.4	47.4	192.6	249.2	646.9
Sept. qtr	283.2	63.9	343.2	37.1	165.7	230.6	617.8

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

<i>Period</i>	<i>New houses</i>				<i>Total dwelling units (includes conversions etc)</i>			
	<i>Private sector</i>		<i>Total</i>		<i>Private sector</i>		<i>Total</i>	
	<i>Commenced</i>	<i>Completed</i>	<i>Commenced</i>	<i>Completed</i>	<i>Commenced</i>	<i>Completed</i>	<i>Commenced</i>	<i>Completed</i>
1995 June qtr	3,264	3,983	3,399	n.a.	4,312	5,336	4,542	5,652
Sept. qtr	2,898	3,979	2,993	n.a.	3,640	5,120	4,007	5,440
Dec. qtr	2,875	3,062	2,949	n.a.	3,718	4,229	3,895	4,553
1996 Mar. qtr	2,711	3,128	2,769	n.a.	3,480	3,888	3,742	4,183
June qtr r	2,736	2,509	2,790	n.a.	3,413	3,260	3,682	3,453
Sept. qtr	2,629	2,941	2,690	n.a.	2,928	3,640	3,109	3,785

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											
1993-94	17,739	5,495	182	23,416	1,455.7	366.1	1,821.8	150.2	1,971.9	549.7	2,521.6
1994-95	15,731	5,227	134	21,092	1,424.1	385.9	1,810.1	161.0	1,971.1	583.1	2,554.2
1995-96	11,228	2,920	104	14,252	1,120.6	246.4	1,367.0	175.9	1,542.9	656.8	2,199.6
1995 June qtr	3,378	1,010	25	4,413	330.2	80.6	410.8	39.2	450.1	160.8	610.9
Sept. qtr	3,039	841	13	3,893	282.0	68.0	350.0	43.3	393.4	121.9	515.2
Dec. qtr	2,876	753	14	3,643	283.6	62.7	346.3	45.6	391.9	182.3	574.2
1996 Mar. qtr	2,481	723	21	3,225	259.2	59.4	318.6	41.6	360.1	199.8	560.0
June qtr r	2,833	603	56	3,492	295.8	56.3	352.1	45.4	397.4	152.8	550.3
Sept. qtr	2,751	364	12	3,127	269.6	27.1	296.6	39.0	335.6	253.9	589.6
PUBLIC SECTOR											
1993-94	379	1,187	14	1,580	29.6	75.0	104.6	1.0	105.5	194.3	299.8
1994-95	494	846	1	1,341	38.0	56.5	94.5	0.3	94.8	149.1	244.0
1995-96	282	801	—	1,083	25.2	59.1	84.3	0.5	84.8	204.2	289.0
1995 June qtr	136	99	—	235	10.8	9.2	20.0	—	20.0	27.6	47.6
Sept. qtr	107	285	—	392	9.5	18.6	28.1	0.1	28.2	10.6	38.8
Dec. qtr	53	120	—	173	4.8	8.8	13.5	0.3	13.8	11.6	25.4
1996 Mar. qtr	71	172	—	243	5.4	16.2	21.6	—	21.6	57.2	78.8
June qtr r	51	224	—	275	5.5	15.5	21.1	0.1	21.1	124.8	145.9
Sept. qtr	74	120	—	194	7.2	7.8	15.1	0.9	16.0	39.1	55.1
TOTAL											
1993-94	18,118	6,682	196	24,996	1,485.3	441.1	1,926.3	151.1	2,077.4	744.0	2,821.5
1994-95	16,225	6,073	135	22,433	1,462.2	442.4	1,904.6	161.3	2,065.9	732.3	2,798.2
1995-96	11,510	3,721	104	15,335	1,145.8	305.5	1,451.3	176.4	1,627.6	861.0	2,488.6
1995 June qtr	3,514	1,109	25	4,648	341.0	89.8	430.8	39.2	470.0	188.5	658.5
Sept. qtr	3,146	1,126	13	4,285	291.5	86.6	378.2	43.4	421.6	132.4	554.0
Dec. qtr	2,929	873	14	3,816	288.3	71.5	359.8	45.9	405.7	193.9	599.6
1996 Mar. qtr	2,552	895	21	3,468	264.6	75.6	340.2	41.6	381.8	257.0	638.8
June qtr r	2,884	827	56	3,767	301.3	71.8	373.1	45.4	418.5	277.6	696.2
Sept. qtr	2,825	484	12	3,321	276.8	34.9	311.7	39.9	351.6	293.1	644.6

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											
1993-94	31.5	165.7	53.6	53.1	85.1	43.5	6.4	44.9	27.2	38.8	549.7
1994-95	52.9	136.1	78.1	85.7	91.5	34.6	6.2	30.7	25.2	42.1	583.1
1995-96	106.9	116.6	69.8	80.0	92.0	32.8	6.6	31.1	29.7	91.3	656.8
1995 June qtr	19.6	51.0	12.9	25.9	24.0	2.0	1.0	6.0	0.1	18.5	160.8
Sept. qtr	5.9	24.4	17.1	20.7	20.4	4.8	2.9	5.4	6.6	13.7	121.9
Dec. qtr	39.1	15.7	15.8	22.7	31.0	11.0	1.5	7.9	8.7	29.0	182.3
1996 Mar. qtr	47.8	56.4	16.3	13.8	19.9	10.9	1.0	4.7	12.1	17.0	199.8
June qtr	14.2	20.0	20.7	22.8	20.7	6.2	1.2	13.1	2.3	31.7	152.8
Sept. qtr	15.2	42.9	21.4	51.6	54.0	15.9	1.7	13.4	25.7	12.2	253.9
PUBLIC SECTOR											
1993-94	—	2.0	1.1	55.4	16.4	64.0	—	25.4	20.6	9.4	194.3
1994-95	1.6	4.0	0.6	30.0	5.8	51.2	—	3.9	6.6	45.3	149.1
1995-96	—	0.9	0.3	34.0	19.7	88.4	—	5.1	25.1	30.7	204.2
1995 June qtr	1.6	2.3	0.5	10.8	—	0.3	—	0.2	2.5	9.3	27.6
Sept. qtr	—	0.7	0.1	3.8	0.4	—	—	0.7	2.9	1.9	10.6
Dec. qtr	—	0.1	—	1.7	3.0	0.1	—	—	2.8	3.9	11.6
1996 Mar. qtr	—	—	0.1	15.0	3.9	23.3	—	—	1.8	13.1	57.2
June qtr	—	0.1	0.2	13.5	12.4	65.0	—	4.4	17.6	11.8	124.8
Sept. qtr	—	1.4	0.2	7.4	0.8	21.0	—	2.1	1.4	5.0	39.1
TOTAL											
1993-94	31.5	167.7	54.7	108.5	101.5	107.5	6.4	70.3	47.8	48.2	744.0
1994-95	54.5	140.1	78.7	115.8	97.4	85.8	6.2	34.6	31.8	87.4	732.3
1995-96	106.9	117.5	70.1	114.0	111.7	121.2	6.6	36.2	54.8	122.1	861.0
1995 June qtr	21.2	53.3	13.4	36.7	24.0	2.3	1.0	6.2	2.6	27.9	188.5
Sept. qtr	5.9	25.1	17.2	24.5	20.8	4.8	2.9	6.1	9.5	15.6	132.4
Dec. qtr	39.1	15.9	15.8	24.4	34.0	11.1	1.5	7.9	11.5	32.9	193.9
1996 Mar. qtr	47.8	56.4	16.3	28.8	23.9	34.1	1.0	4.7	13.9	30.1	257.0
June qtr	14.2	20.0	20.8	36.3	33.1	71.1	1.2	17.5	19.9	43.4	277.6
Sept. qtr	15.2	44.2	21.5	59.0	54.8	36.9	1.7	15.5	27.1	17.1	293.1

TABLE 7. NUMBER AND VALUE OF BUILDING UNDER CONSTRUCTION AT END OF PERIOD,
PRIVATE AND PUBLIC SECTOR: 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
PRIVATE SECTOR											
1993-94	7,278	2,967	107	10,352	699.5	212.1	911.7	71.2	982.9	431.8	1,414.6
1994-95	5,849	2,540	60	8,449	662.4	209.4	871.8	67.1	938.9	283.5	1,222.3
1995-96	4,345	1,691	50	6,086	532.6	160.6	693.2	70.6	763.9	326.9	1,090.8
1995 June qtr	5,849	2,540	60	8,449	662.4	209.4	871.8	67.1	938.9	283.5	1,222.3
Sept. qtr	5,224	2,309	37	7,570	598.1	199.6	797.6	67.1	864.7	309.4	1,174.2
Dec. qtr	4,647	1,822	27	6,496	540.0	161.4	701.4	61.9	763.2	269.3	1,032.6
1996 Mar. qtr	4,181	1,792	31	6,004	505.3	158.2	663.4	71.1	734.5	315.1	1,049.6
June qtr r	4,345	1,691	50	6,086	532.6	160.6	693.2	70.6	763.9	326.9	1,090.8
Sept. qtr	4,372	1,388	41	5,801	537.8	130.4	668.1	68.5	736.7	477.5	1,214.2
PUBLIC SECTOR											
1993-94	91	720	13	824	7.8	51.7	59.5	0.2	59.6	162.4	222.0
1994-95	154	300	—	454	12.1	21.1	33.2	—	33.3	117.9	151.1
1995-96	57	348	—	405	6.0	31.5	37.5	—	37.5	153.3	190.8
1995 June qtr	154	300	—	454	12.1	21.1	33.2	—	33.3	117.9	151.1
Sept. qtr	144	404	—	548	12.9	28.4	41.3	0.1	41.4	105.6	147.0
Dec. qtr	77	285	—	362	7.7	20.9	28.6	0.3	28.8	82.2	111.0
1996 Mar. qtr	86	243	—	329	7.3	23.3	30.6	0.3	30.9	89.1	120.0
June qtr r	57	348	—	405	6.0	31.5	37.5	—	37.5	153.3	190.8
Sept. qtr	84	380	—	464	8.5	33.6	42.1	0.3	42.4	153.5	195.9
TOTAL											
1993-94	7,369	3,687	120	11,176	707.3	263.8	971.1	71.3	1,042.5	594.2	1,636.7
1994-95	6,003	2,840	60	8,903	674.5	230.5	905.0	67.1	972.1	401.4	1,373.5
1995-96	4,402	2,039	50	6,491	538.6	192.1	730.7	70.6	801.3	480.2	1,281.6
1995 June qtr	6,003	2,840	60	8,903	674.5	230.5	905.0	67.1	972.1	401.4	1,373.5
Sept. qtr	5,368	2,713	37	8,118	611.0	228.0	839.0	67.2	906.2	415.0	1,321.2
Dec. qtr	4,724	2,107	27	6,858	547.7	182.3	729.9	62.1	792.1	351.5	1,143.6
1996 Mar. qtr	4,267	2,035	31	6,333	512.6	181.5	694.1	71.3	765.4	404.2	1,169.6
June qtr r	4,402	2,039	50	6,491	538.6	192.1	730.7	70.6	801.3	480.2	1,281.6
Sept. qtr	4,456	1,768	41	6,265	546.3	164.0	710.2	68.8	779.0	631.0	1,410.0

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											
1993-94	23.9	244.4	24.9	24.9	24.6	25.4	3.3	26.0	19.3	15.2	431.8
1994-95	41.5	63.9	26.4	48.3	35.3	11.6	2.8	21.0	9.0	23.7	283.5
1995-96	93.8	53.6	37.1	25.7	31.5	11.7	2.5	14.5	13.6	43.0	326.9
1995 June qtr	41.5	63.9	26.4	48.3	35.3	11.6	2.8	21.0	9.0	23.7	283.5
Sept. qtr	44.4	70.5	32.8	56.6	39.0	10.3	4.7	14.4	13.3	23.4	309.4
Dec. qtr	61.3	34.1	24.6	40.1	26.2	16.5	3.8	12.9	14.9	35.0	269.3
1996 Mar. qtr	101.4	60.2	28.3	26.5	25.5	15.2	3.7	11.8	18.0	24.5	315.1
June qtr r	93.8	53.6	37.1	25.7	31.5	11.7	2.5	14.5	13.6	43.0	326.9
Sept. qtr	102.5	76.7	36.1	65.6	69.8	25.3	4.0	24.5	34.2	38.7	477.5
PUBLIC SECTOR											
1993-94	—	1.8	0.3	37.8	0.9	68.6	—	41.0	6.7	5.3	162.4
1994-95	1.6	1.4	0.5	49.3	1.8	25.8	—	1.2	3.6	32.8	117.9
1995-96	—	0.1	0.2	24.8	12.5	75.6	—	4.4	19.3	16.5	153.3
1995 June qtr	1.6	1.4	0.5	49.3	1.8	25.8	—	1.2	3.6	32.8	117.9
Sept. qtr	0.8	0.5	0.5	49.9	1.1	14.7	—	1.0	4.8	32.2	105.6
Dec. qtr	—	0.1	0.5	49.0	3.0	9.3	—	0.7	5.9	14.1	82.2
1996 Mar. qtr	—	0.1	—	22.9	6.8	29.0	—	—	3.7	26.6	89.1
June qtr r	—	0.1	0.2	24.8	12.5	75.6	—	4.4	19.3	16.5	153.3
Sept. qtr	—	—	0.2	27.0	0.8	84.7	—	5.9	18.6	16.2	153.5
TOTAL											
1993-94	23.9	246.1	25.2	62.7	25.4	94.1	3.3	67.0	26.0	20.5	594.2
1994-95	43.1	65.3	26.9	97.6	37.0	37.4	2.8	22.1	12.6	56.5	401.4
1995-96	93.8	53.6	37.2	50.5	44.0	87.3	2.5	18.9	32.9	59.5	480.2
1995 June qtr	43.1	65.3	26.9	97.6	37.0	37.4	2.8	22.1	12.6	56.5	401.4
Sept. qtr	45.2	71.0	33.3	106.6	40.2	25.0	4.7	15.4	18.1	55.6	415.0
Dec. qtr	61.3	34.3	24.6	89.1	29.2	25.7	3.8	13.7	20.9	49.1	351.5
1996 Mar. qtr	101.4	60.3	28.3	49.4	32.4	44.1	3.7	11.8	21.8	51.1	404.2
June qtr r	93.8	53.6	37.2	50.5	44.0	87.3	2.5	18.9	32.9	59.5	480.2
Sept. qtr	102.5	76.7	36.3	92.5	70.6	110.0	4.0	30.5	52.9	55.0	631.0

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											
1993-94	15,684	4,403	116	20,203	1,254.6	287.7	1,542.3	140.0	1,682.3	490.0	2,172.2
1994-95	16,955	5,496	180	22,631	1,466.6	388.7	1,855.3	170.7	2,026.0	765.6	2,791.6
1995-96	12,579	3,737	113	16,430	1,256.7	308.6	1,562.3	179.6	1,741.9	627.3	2,369.2
1995 June qtr	4,144	1,306	36	5,486	349.6	100.4	449.9	40.5	490.4	154.3	644.8
Sept. qtr	3,651	1,066	35	4,753	350.3	85.1	435.4	45.3	480.7	96.7	577.4
Dec. qtr	3,440	1,225	24	4,689	346.7	101.7	448.4	51.9	500.2	228.6	728.8
1996 Mar. qtr	2,870	744	17	3,631	290.0	62.8	352.8	35.6	388.4	153.1	541.5
June qtr r	2,618	702	37	3,357	269.8	56.0	325.8	46.7	372.5	149.0	521.5
Sept. qtr	2,696	663	21	3,380	267.4	57.9	325.4	41.9	367.3	116.2	483.6
PUBLIC SECTOR											
1993-94	385	1,367	1	1,753	29.7	82.6	112.4	3.4	115.8	254.4	370.2
1994-95	429	1,252	14	1,695	33.8	87.4	121.2	0.5	121.6	189.5	311.1
1995-96	378	753	--	1,131	31.0	49.1	80.1	0.5	80.6	168.1	248.7
1995 June qtr	94	231	—	325	7.9	16.5	24.4	0.1	24.5	35.8	60.2
Sept. qtr	116	181	—	297	8.6	11.4	20.0	—	20.0	23.5	43.4
Dec. qtr	120	239	—	359	9.9	16.5	26.4	0.2	26.6	35.0	61.6
1996 Mar. qtr	62	214	—	276	5.7	13.8	19.6	—	19.6	48.0	67.6
June qtr r	80	119	—	199	6.8	7.4	14.2	0.3	14.5	61.6	76.0
Sept. qtr	47	88	—	135	4.8	5.6	10.4	0.6	11.0	39.9	50.9
TOTAL											
1993-94	16,069	5,770	117	21,956	1,284.3	370.3	1,654.6	143.4	1,798.1	744.4	2,542.5
1994-95	17,384	6,748	194	24,326	1,500.3	476.1	1,976.4	171.2	2,147.6	955.1	3,102.7
1995-96	12,957	4,490	113	17,561	1,287.8	354.6	1,642.4	180.1	1,822.5	795.4	2,617.9
1995 June qtr	4,238	1,537	36	5,811	357.5	116.9	474.4	40.6	514.9	190.1	705.0
Sept. qtr	3,767	1,247	35	5,050	358.8	96.5	455.3	45.3	500.7	120.2	620.9
Dec. qtr	3,560	1,464	24	5,048	356.6	118.2	474.7	52.1	526.8	263.6	790.4
1996 Mar. qtr	2,932	958	17	3,907	295.7	76.7	372.4	35.6	408.0	201.1	609.1
June qtr r	2,698	821	37	3,556	276.6	63.3	340.0	47.1	387.0	210.5	597.6
Sept. qtr	2,743	751	21	3,515	272.2	63.6	335.8	42.6	378.3	156.1	534.5

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											
1993-94	14.5	105.3	41.0	45.7	82.3	30.6	6.4	91.0	24.6	48.8	490.0
1994-95	36.7	337.1	78.1	65.7	82.2	49.3	7.2	38.5	37.3	33.5	765.6
1995-96	63.2	127.8	61.2	100.3	96.7	33.1	7.1	39.3	25.8	72.7	627.3
1995 June qtr	12.6	47.4	13.6	14.1	19.4	9.4	3.6	6.3	19.8	8.1	154.3
Sept. qtr	3.4	19.6	10.7	9.5	17.5	5.8	1.1	12.7	2.3	14.0	96.7
Dec. qtr	25.0	52.4	24.1	40.5	44.3	5.1	2.4	9.7	7.0	18.1	228.6
1996 Mar. qtr	7.1	28.4	13.5	28.8	20.2	12.1	1.1	5.9	9.0	27.0	153.1
June qtr r	27.7	27.5	12.9	21.6	14.7	10.1	2.5	11.0	7.4	13.6	149.0
Sept. qtr	15.0	21.1	23.0	12.5	16.0	2.4	0.5	3.5	5.1	17.2	116.2
PUBLIC SECTOR											
1993-94	0.2	1.0	5.6	41.3	27.8	92.4	—	4.0	54.2	28.0	254.4
1994-95	—	4.6	0.4	19.6	5.1	93.3	—	43.0	9.5	14.0	189.5
1995-96	1.7	2.2	0.6	56.6	8.6	39.2	—	1.8	8.2	49.1	168.1
1995 June qtr	—	1.2	—	7.1	0.3	7.3	—	12.5	2.1	5.4	35.8
Sept. qtr	0.8	1.6	0.1	3.2	1.0	11.6	—	0.9	1.7	2.6	23.5
Dec. qtr	0.9	0.5	0.5	2.6	0.8	5.6	—	0.2	1.6	22.4	35.0
1996 Mar. qtr	—	—	0.1	39.3	0.1	3.6	—	0.7	2.6	1.7	48.0
June qtr r	—	0.1	—	11.6	6.7	18.4	—	—	2.3	22.5	61.6
Sept. qtr	—	1.4	0.2	5.4	12.8	12.0	—	0.6	2.3	5.2	39.9
TOTAL											
1993-94	14.7	106.3	46.5	87.0	110.1	123.0	6.4	95.0	78.8	76.7	744.4
1994-95	36.7	341.7	78.5	85.3	87.3	142.6	7.2	81.5	46.8	47.5	955.1
1995-96	64.9	130.1	61.8	157.0	105.3	72.3	7.1	41.1	34.0	121.9	795.4
1995 June qtr	12.6	48.6	13.6	21.2	19.6	16.6	3.6	18.8	21.9	13.5	190.1
Sept. qtr	4.2	21.2	10.7	12.7	18.5	17.4	1.1	13.6	4.0	16.6	120.2
Dec. qtr	25.9	52.8	24.6	43.1	45.1	10.7	2.4	9.9	8.7	40.5	263.6
1996 Mar. qtr	7.1	28.4	13.6	68.1	20.3	15.7	1.1	6.6	11.6	28.7	201.1
June qtr r	27.7	27.7	12.9	33.1	21.4	28.6	2.5	11.0	9.7	36.1	210.5
Sept. qtr	15.0	22.5	23.2	17.9	28.8	14.4	0.5	4.0	7.4	22.4	156.1

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							
1993-94	1,382.3	327.0	1,709.3	147.7	1,857.0	617.5	2,474.5
1994-95	1,483.6	408.5	1,892.1	170.9	2,063.0	623.0	2,686.0
1995-96	1,161.8	276.5	1,438.3	181.9	1,620.2	669.0	2,289.2
1995 June qtr	347.0	89.9	437.0	42.1	479.1	134.1	613.2
Sept. qtr	315.1	84.0	399.1	45.0	444.1	150.4	594.5
Dec. qtr	298.2	71.2	369.3	47.7	417.1	180.3	597.3
1996 Mar. qtr	275.6	62.6	338.2	41.5	379.7	163.3	543.1
June qtr	272.9	58.7	331.6	47.8	379.4	175.0	554.4
Sept. qtr	282.4	51.2	333.6	36.6	370.2	178.2	548.5
PUBLIC SECTOR							
1993-94	29.8	84.1	113.9	1.9	115.8	249.9	365.7
1994-95	36.3	71.3	107.6	0.4	107.9	159.2	267.2
1995-96	28.1	47.0	75.1	0.5	75.6	150.6	226.2
1995 June qtr	9.6	11.0	20.6	0.1	20.7	38.0	58.7
Sept. qtr	9.8	14.1	23.9	—	23.9	29.8	53.8
Dec. qtr	6.9	13.4	20.2	0.2	20.5	24.9	45.4
1996 Mar. qtr	5.4	9.3	14.8	0.1	14.9	33.8	48.7
June qtr	6.0	10.2	16.2	0.1	16.3	62.1	78.4
Sept. qtr	5.7	14.9	20.6	0.7	21.3	65.8	87.1
TOTAL							
1993-94	1,412.1	411.2	1,823.2	149.6	1,972.8	867.4	2,840.2
1994-95	1,519.8	479.8	1,999.7	171.2	2,170.9	782.2	2,953.2
1995-96	1,189.9	323.5	1,513.4	182.5	1,695.9	819.6	2,515.5
1995 June qtr	356.7	100.9	457.6	42.2	499.8	172.1	671.9
Sept. qtr	324.9	98.1	423.0	45.0	468.0	180.3	648.3
Dec. qtr	305.0	84.6	389.6	48.0	437.5	205.2	642.7
1996 Mar. qtr	281.1	72.0	353.0	41.6	394.6	197.1	591.8
June qtr	278.9	68.9	347.8	47.9	395.7	237.0	632.7
Sept. qtr	288.1	66.2	354.2	37.3	391.5	244.1	635.6

TABLE 12. VALUE OF NON-RESIDENTIAL BUILDING WORK DONE, 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											
1993-94	21.7	246.7	48.4	54.2	84.6	34.0	6.9	60.3	20.7	40.1	617.5
1994-95	45.6	175.9	78.3	71.4	89.3	45.9	6.5	36.9	36.5	36.8	623.0
1995-96	104.5	128.9	70.2	92.9	98.9	32.2	6.7	28.3	27.0	79.4	669.0
1995 June qtr	14.4	30.4	14.5	22.1	18.7	7.1	1.4	7.5	7.0	11.0	134.1
Sept. qtr	11.6	35.1	15.3	26.2	24.8	6.2	2.2	9.1	4.0	15.9	150.4
Dec. qtr	18.0	36.1	18.7	27.9	31.7	8.1	1.9	6.2	7.4	24.3	180.3
1996 Mar. qtr	37.9	24.8	16.4	17.6	20.9	10.6	1.7	6.4	8.2	18.8	163.3
June qtr r	37.1	33.0	19.8	21.2	21.4	7.2	0.8	6.7	7.3	20.5	175.0
Sept. qtr	28.4	27.5	21.3	26.1	28.8	9.8	1.9	3.7	8.8	21.9	178.2
PUBLIC SECTOR											
1993-94	—	2.3	1.6	47.3	23.3	89.6	—	32.2	36.1	17.4	249.9
1994-95	0.9	3.7	0.3	34.9	5.9	64.8	—	14.0	8.1	26.7	159.2
1995-96	0.8	1.6	0.7	31.9	14.7	45.1	—	1.2	11.1	43.4	150.6
1995 June qtr	0.9	1.8	—	12.1	0.2	6.8	—	1.7	2.2	12.3	38.0
Sept. qtr	0.6	1.2	0.2	8.2	0.5	6.4	—	0.2	2.2	10.4	29.8
Dec. qtr	0.2	0.3	0.3	9.6	1.4	1.9	—	0.5	2.3	8.5	24.9
1996 Mar. qtr	—	—	0.1	6.0	4.4	10.5	—	0.1	2.8	9.8	33.8
June qtr r	—	0.1	0.1	8.2	8.4	26.3	—	0.4	3.9	14.8	62.1
Sept. qtr	—	1.4	0.2	14.4	5.7	26.0	—	4.8	7.0	6.2	65.8
TOTAL											
1993-94	21.7	249.1	50.0	101.5	107.9	123.6	6.9	92.5	56.8	57.5	867.4
1994-95	46.5	179.5	78.6	106.3	95.2	110.7	6.5	50.9	44.6	63.5	782.2
1995-96	105.3	130.5	70.9	124.9	113.6	77.3	6.7	29.5	38.1	122.8	819.6
1995 June qtr	15.3	32.2	14.5	34.1	18.9	13.9	1.4	9.2	9.2	23.2	172.1
Sept. qtr	12.2	36.3	15.5	34.4	25.3	12.7	2.2	9.3	6.2	26.3	180.3
Dec. qtr	18.2	36.4	19.0	37.5	33.1	10.0	1.9	6.7	9.7	32.7	205.2
1996 Mar. qtr	37.9	24.8	16.5	23.7	25.4	21.1	1.7	6.5	11.0	28.6	197.1
June qtr r	37.1	33.1	19.9	29.3	29.9	33.5	0.8	7.0	11.2	35.2	237.0
Sept. qtr	28.4	28.9	21.5	40.6	34.5	35.9	1.9	8.5	15.8	28.2	244.1

**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-residential building</i>	<i>Total building</i>
PRIVATE SECTOR							
1993-94	350.1	108.7	458.9	30.9	489.8	153.4	643.2
1994-95	307.7	93.0	400.7	27.1	427.7	149.4	577.2
1995-96	280.3	75.0	355.3	28.1	383.4	155.1	538.5
1995 June qtr	307.7	93.0	400.7	27.1	427.7	149.4	577.2
Sept. qtr	280.4	84.6	365.0	27.2	392.1	122.2	514.3
Dec. qtr	271.5	77.6	349.2	26.1	375.3	130.4	505.7
1996 Mar. qtr	254.4	75.2	329.6	29.5	359.1	167.0	526.1
June qtr r	280.3	75.0	355.3	28.1	383.4	155.1	538.5
Sept. qtr	270.9	51.4	322.3	31.7	354.0	243.8	597.8
PUBLIC SECTOR							
1993-94	4.2	23.3	27.5	—	27.5	64.2	91.7
1994-95	6.0	9.0	15.0	—	15.0	50.2	65.2
1995-96	2.9	21.4	24.3	—	24.3	104.0	128.3
1995 June qtr	6.0	9.0	15.0	—	15.0	50.2	65.2
Sept. qtr	5.6	13.6	19.2	0.1	19.3	31.5	50.8
Dec. qtr	3.5	9.1	12.6	0.2	12.7	18.6	31.3
1996 Mar. qtr	3.3	16.1	19.5	—	19.5	40.3	59.8
June qtr r	2.9	21.4	24.3	—	24.3	104.0	128.3
Sept. qtr	4.5	14.3	18.8	0.2	18.9	78.2	97.1
TOTAL							
1993-94	354.3	132.0	486.3	31.0	517.3	217.6	734.9
1994-95	313.7	102.0	415.7	27.1	442.8	199.6	642.4
1995-96	283.2	96.4	379.6	28.1	407.7	259.1	666.8
1995 June qtr	313.7	102.0	415.7	27.1	442.8	199.6	642.4
Sept. qtr	286.0	98.2	384.2	27.2	411.4	153.7	565.1
Dec. qtr	275.0	86.8	361.7	26.3	388.0	149.0	537.0
1996 Mar. qtr	257.8	91.4	349.1	29.5	378.6	207.3	585.9
June qtr r	283.2	96.4	379.6	28.1	407.7	259.1	666.8
Sept. qtr	275.3	65.7	341.1	31.9	372.9	322.0	694.9

**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 recreational</i>	<i>Entertain- ment and recreational</i>	<i>Miscel- laneous</i>	<i>Total non-resi- dential building</i>
PRIVATE SECTOR											
1993-94	13.2	59.9	11.7	8.1	13.6	15.5	1.3	9.8	13.2	7.1	153.4
1994-95	21.8	41.2	13.2	25.6	17.9	5.1	1.5	6.8	3.7	12.5	149.4
1995-96	33.6	29.8	14.9	13.0	12.2	6.4	1.6	11.3	7.1	25.1	155.1
1995 June qtr	21.8	41.2	13.2	25.6	17.9	5.1	1.5	6.8	3.7	12.5	149.4
Sept. qtr	16.6	32.3	15.0	17.4	14.4	3.6	2.3	3.9	6.3	10.4	122.2
Dec. qtr	40.6	12.2	12.2	13.5	14.1	6.7	1.9	5.9	7.6	15.7	130.4
1996 Mar. qtr	50.6	41.9	13.0	11.1	13.0	6.9	1.2	4.3	11.5	13.6	167.0
June qtr r	33.6	29.8	14.9	13.0	12.2	6.4	1.6	11.3	7.1	25.1	155.1
Sept. qtr	29.0	46.6	15.7	39.3	37.7	12.5	1.7	21.1	24.1	16.1	243.8
PUBLIC SECTOR											
1993-94	—	0.2	0.2	22.1	0.1	24.0	—	11.1	4.1	2.4	64.2
1994-95	0.7	0.7	0.5	18.2	0.3	9.7	—	0.2	2.4	17.5	50.2
1995-96	—	—	0.1	18.4	5.3	53.5	—	4.0	15.8	6.9	104.0
1995 June qtr	0.7	0.7	0.5	18.2	0.3	9.7	—	0.2	2.4	17.5	50.2
Sept. qtr	0.1	0.2	0.4	13.8	0.2	3.8	—	0.7	3.2	9.1	31.5
Dec. qtr	—	0.1	—	5.9	1.8	2.0	—	0.2	3.7	4.9	18.6
1996 Mar. qtr	—	—	—	13.0	1.3	14.8	—	—	1.8	9.3	40.3
June qtr r	—	—	0.1	18.4	5.3	53.5	—	4.0	15.8	6.9	104.0
Sept. qtr	—	—	—	11.5	0.7	48.7	—	1.3	10.4	5.6	78.2
TOTAL											
1993-94	13.2	60.1	11.9	30.2	13.7	39.5	1.3	20.9	17.4	9.5	217.6
1994-95	22.5	41.9	13.7	43.8	18.2	14.8	1.5	7.0	6.1	30.0	199.6
1995-96	33.6	29.8	15.0	31.3	17.4	59.9	1.6	15.4	22.9	32.0	259.1
1995 June qtr	22.5	41.9	13.7	43.8	18.2	14.8	1.5	7.0	6.1	30.0	199.6
Sept. qtr	16.7	32.5	15.4	31.3	14.6	7.4	2.3	4.5	9.5	19.4	153.7
Dec. qtr	40.6	12.3	12.2	19.4	15.9	8.7	1.9	6.1	11.2	20.6	149.0
1996 Mar. qtr	50.6	41.9	13.0	24.1	14.3	21.7	1.2	4.3	13.3	22.8	207.3
June qtr r	33.6	29.8	15.0	31.3	17.4	59.9	1.6	15.4	22.9	32.0	259.1
Sept. qtr	29.0	46.6	15.7	50.7	38.4	61.2	1.7	22.4	34.5	21.8	322.0

TABLE 15. BUILDING ACTIVITY RELATIVE STANDARD ERRORS, SEPTEMBER QUARTER 1996
(Percentage)

Ownership and stage of construction	New residential building				Value	
	Houses		Total		Alterations and additions to residential buildings	Total building
	Number	Value	Number of dwelling units	Value		
PRIVATE SECTOR						
Commenced	4.4	4.4	3.9	4.0	6.8	2.1
Under construction at end of period	3.8	3.6	2.9	2.9	5.7	1.6
Completed	5.4	5.9	4.4	4.9	9.5	3.4
Value of work done	..	3.2	..	2.7	6.3	1.7
Value of work yet to be done	..	4.1	..	3.4	7.4	1.9
TOTAL PRIVATE AND PUBLIC SECTORS						
Commenced	4.3	4.3	3.7	3.8	6.6	1.9
Under construction at end of period	3.8	3.5	2.7	2.7	5.7	1.4
Completed	5.3	5.8	4.2	4.7	9.4	3.1
Value of work done	..	3.1	..	2.6	6.1	1.5
Value of work yet to be done	..	4.0	..	3.2	7.4	1.6

EXPLANATORY NOTES

Introduction

This publication contains detailed results from the quarterly Building Activity Survey. Users should note that data for the latest quarter is subject to revision.

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 available only at the State/Territory and Australia levels with the exception of the Northern Territory. However, dwelling unit commencement data for regions below State level are shown in the monthly series of dwelling unit commencements compiled by State offices of the ABS. Data from this series, unlike those compiled from the Building Activity Survey, 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.
- (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.

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, guest houses, holiday apartment buildings.
- (d) *Shops*. Includes retail shops, restaurants, cafes, taverns, dry cleaners, laundromats, hair salons, shopping arcades.

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 2-4. 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 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 (06) 252 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: microfiche, photocopy, computer printout, floppy disk and clerically extracted tabulation. Inquiries should be made to Information Inquiries on Perth (09) 360 5140 or any ABS State office.

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

Estimated Stocks of Dwellings, Western Australia (8705.5)
— issued annually

Building Approvals, Australia (8731.0) — issued monthly
Building Approvals, Western Australia (8731.5) — issued monthly

Dwelling Unit Commencements Reported by Approving Authorities, Western Australia (8741.5) — issued monthly
Building Activity, Australia: Dwelling Unit Commencements, Preliminary (8750.0) — issued quarterly
Building Activity, Australia (8752.0) — issued quarterly

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.

P.C. KELLY
Regional Director

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