



# BUILDING ACTIVITY

TASMANIA

EMBARGO: 11:30AM (CANBERRA TIME) FRI 31 JULY 1998

## MARCH QTR KEY FIGURES

SEASONALLY ADJUSTED	Mar qtr 98	Dec qtr 97 to	Mar qtr 97 to
		Mar qtr 98	Mar qtr 98
		% change	% change
Value of work done(a) (\$m)	76.1	-6.3	-22.6
New residential building (\$m)	32.6	-1.2	-17.3
Non-residential building (\$m)	35.2	-10.7	-32.4
Total dwelling units commenced (no.)	380	-8.0	-15.7
New private sector houses (no.)	359	7.2	-1.9

(a) At average 1989-90 prices.

## MARCH QTR KEY POINTS

### VALUE OF WORK DONE

- In seasonally adjusted average 1989-90 prices the value of new residential building work done in the quarter fell by 1.2% to \$32.6m, continuing the general downward trend since the peak in the December quarter 1993. Work done on new houses increased by 4.9% to \$27.8m, following falls in the previous four quarters.
- Work done on non-residential building fell by 10.7% to \$35.2m and was 32.4% below the level of a year ago.

### VALUE OF WORK COMMENCED

- In average 1989-90 prices the value of new residential building work commenced during the March quarter fell by 13.6% to \$28.6m, continuing the general downward trend since the March quarter 1994. New house commencements fell by 3.6% to \$26.5m and new other residential dwelling commencements fell by 62.5% to \$2.1m.
- Non-residential building fell by 40.6% to \$21.2m, offsetting the increase of 25.3% in the December quarter.

### NUMBER OF DWELLING UNITS COMMENCED

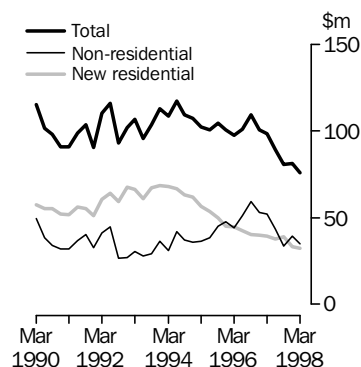
- In seasonally adjusted terms the total number of dwelling units commenced during the March quarter fell by 8.0% to 380, continuing the downward trend since the September quarter 1993 series high of 1,088 dwelling units commenced. New private sector houses increased by 7.2% to 359.

### VALUE OF WORK YET TO BE DONE

- The value of work yet to be done on jobs under construction at the end of March 1998 fell by 9.4% to \$79.4m, almost the same as the value of work done for the quarter.

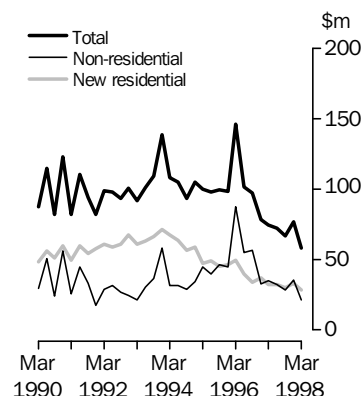
### Value of work done

At average 1989-90 prices  
Seasonally adjusted



### Value of work commenced

At average 1989-90 prices



- For further information about these and related statistics, contact Martin Yard on Adelaide 08 8237 7494, or any ABS office shown on the back cover of this publication.

## NOTES

### FORTHCOMING ISSUES

#### ISSUE

June 1998

#### RELEASE DATE

27 October 1998

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### CHANGES IN THIS ISSUE

There have been some changes to the layout of the publication, however the tables are unchanged.

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### SIGNIFICANT REVISIONS THIS ISSUE

The total value of building work commenced during the December quarter 1997 has been revised upwards by \$7.5m (9.2%) with non-residential building increasing by \$7.3m (23.9%).

The value of work done during the December quarter 1997 for non-residential building has been revised upwards by \$5.5m (14.0%).

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### SYMBOLS AND OTHER USAGES

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

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

Dennis W. Rogers  
Regional Director  
Tasmania

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**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	178.3	33.9	212.2	35.9	101.1	148.1	396.2
1995-96	135.9	45.5	181.4	31.5	150.4	233.5	446.4
1996-97	112.7	22.3	135.0	31.3	115.7	156.4	322.7
1996 Dec. qtr	33.9	3.2	37.1	8.4	29.8	32.8	78.3
1997 Mar. qtr	26.6	5.4	32.0	7.9	28.3	34.7	74.6
June qtr	25.3	6.9	32.2	7.9	29.1	32.4	72.5
Sept. qtr	23.0	7.0	30.0	8.4	24.0	28.5	66.9
Dec. qtr	27.5	5.6	33.1	8.1	21.8	35.7	76.9
1998 Mar. qtr	26.5	2.1	28.6	8.3	13.9	21.2	58.1

(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)**  
(\$ 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	188.5	46.9	235.4	36.7	97.8	147.8	419.9
1995-96	147.0	35.3	182.3	34.2	124.5	187.9	404.4
1996-97	128.2	29.0	157.2	32.4	142.8	208.4	398.0
1996 Dec. qtr	35.2	6.6	41.8	8.2	37.5	56.6	106.6
1997 Mar. qtr	31.3	6.7	38.0	7.5	30.2	43.6	89.1
June qtr	30.4	7.1	37.5	9.0	30.1	41.8	88.3
Sept. qtr	27.2	11.5	38.7	7.4	30.3	38.2	84.3
Dec. qtr	28.1	6.5	34.6	9.3	32.5	42.2	86.1
1998 Mar. qtr	26.8	4.6	31.4	8.1	18.7	29.4	68.9
SEASONALLY ADJUSTED							
1996 Dec. qtr	33.2	n.a.	39.8	n.a.	n.a.	52.9	100.5
1997 Mar. qtr	32.5	n.a.	39.4	n.a.	n.a.	52.1	98.3
June qtr	30.2	n.a.	37.7	n.a.	n.a.	43.2	89.2
Sept. qtr	28.1	n.a.	39.0	n.a.	n.a.	33.9	80.7
Dec. qtr	26.5	n.a.	33.0	n.a.	n.a.	39.4	81.2
1998 Mar. qtr	27.8	n.a.	32.6	n.a.	n.a.	35.2	76.1

(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)

<i>Period</i>	<i>New residential building</i>		<i>Non-residential building</i>	<i>Total building</i>
	<i>Houses</i>	<i>Total</i>		
1996 Dec. qtr	42.0	49.2	55.4	114.3
1997 Mar. qtr	40.8	48.3	54.5	112.2
June qtr	38.8	46.7	45.3	102.9
Sept. qtr	35.6	47.0	35.7	92.1
Dec. qtr	33.1	40.1	41.7	92.7
1998 Mar. qtr	34.5	39.7	37.6	88.0

**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>
1996 Dec. qtr	412	437	414	443	465	487	495	562
1997 Mar. qtr	366	443	371	444	428	452	451	458
June qtr	357	448	359	450	425	559	436	593
Sept. qtr	344	367	347	368	422	444	432	492
Dec. qtr	335	409	338	419	406	505	413	513
1998 Mar. qtr	359	366	358	363	389	474	380	472

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

Period	Number of dwelling units				Value (\$m)						
	New houses	New other residential building	Conversions etc.	Total dwelling units	New houses	New other residential building	New residential building	Alterations and additions to residential buildings	Total residential building	Total non-residential building	Total building
<b>PRIVATE SECTOR</b>											
1994-95	2,542	542	12	3,096	218.1	32.2	250.3	43.1	293.3	103.1	396.4
1995-96	1,859	378	8	2,245	168.3	32.9	201.2	38.3	239.5	155.5	395.0
1996-97	1,544	246	12	1,802	140.3	19.4	159.7	37.0	196.7	120.6	317.3
1996 Dec. qtr	459	40	4	503	42.5	2.3	44.8	8.6	53.4	31.0	84.4
1997 Mar. qtr	355	50	5	410	32.7	3.5	36.3	9.8	46.1	29.5	75.6
June qtr	356	64	1	421	31.7	6.6	38.3	9.6	47.9	30.5	78.4
Sept. qtr	315	93	—	408	28.9	7.5	36.5	10.2	46.6	25.3	71.9
Dec. qtr	374	65	—	439	34.0	5.8	39.9	9.9	49.8	23.1	72.9
1998 Mar. qtr	348	25	—	373	33.1	1.9	35.0	10.4	45.4	14.8	60.2
<b>PUBLIC SECTOR</b>											
1994-95	6	40	—	46	0.5	2.8	3.2	0.6	3.9	48.1	51.9
1995-96	21	152	—	173	2.6	14.9	17.5	1.1	18.6	86.0	104.6
1996-97	17	45	18	80	1.6	4.1	5.7	2.1	7.8	42.5	50.2
1996 Dec. qtr	3	12	13	28	0.2	1.1	1.3	1.9	3.1	3.1	6.3
1997 Mar. qtr	8	26	5	39	0.7	2.2	2.9	0.1	3.0	6.7	9.7
June qtr	1	5	—	6	0.1	0.7	0.8	0.2	1.0	3.5	4.5
Sept. qtr	1	—	—	1	0.1	—	0.1	0.2	0.3	4.7	5.0
Dec. qtr	3	2	—	5	0.6	0.2	0.8	0.2	0.9	14.7	15.7
1998 Mar. qtr	2	4	—	6	0.3	0.3	0.6	—	0.7	7.8	8.4
<b>TOTAL</b>											
1994-95	2,548	582	12	3,142	218.5	35.0	253.5	43.7	297.2	151.2	448.3
1995-96	1,880	530	8	2,418	170.9	47.8	218.7	39.4	258.1	241.5	499.6
1996-97	1,561	291	30	1,882	141.9	23.5	165.4	39.1	204.5	163.1	367.6
1996 Dec. qtr	462	52	17	531	42.7	3.3	46.1	10.4	56.5	34.1	90.6
1997 Mar. qtr	363	76	10	449	33.5	5.7	39.2	9.9	49.2	36.2	85.3
June qtr	357	69	1	427	31.8	7.3	39.1	9.8	48.9	34.0	82.9
Sept. qtr	316	93	—	409	29.0	7.5	36.5	10.4	47.0	30.0	77.0
Dec. qtr	377	67	—	444	34.6	6.0	40.6	10.1	50.7	37.9	88.6
1998 Mar. qtr	350	29	—	379	33.4	2.2	35.6	10.4	46.0	22.6	68.6

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

<i>Period</i>	<i>Hotels etc.</i>	<i>Shops</i>	<i>Factories</i>	<i>Offices</i>	<i>Other business premises</i>	<i>Educational</i>	<i>Religious</i>	<i>Health</i>	<i>Entertainment and recreational</i>	<i>Miscellaneous</i>	<i>Total non-residential building</i>
<b>PRIVATE SECTOR</b>											
1994-95	4.0	31.8	14.6	11.2	15.0	5.8	0.5	8.7	9.0	2.6	103.1
1995-96	12.3	34.1	37.9	15.3	23.2	8.2	2.0	14.4	1.9	6.1	155.5
1996-97	6.5	17.6	32.3	17.3	13.4	4.5	0.2	19.9	5.2	3.6	120.6
1996 Dec. qtr	2.0	3.7	8.8	5.0	5.1	0.6	—	3.1	2.5	0.1	31.0
1997 Mar. qtr	0.8	5.1	1.2	4.6	4.3	3.4	0.1	7.6	0.7	1.6	29.5
June qtr	0.3	2.2	12.0	6.6	2.2	0.2	0.2	4.4	1.5	0.9	30.5
Sept. qtr	2.1	3.0	1.5	1.9	9.3	1.3	0.4	4.2	1.0	0.6	25.3
Dec. qtr	7.8	2.6	1.8	1.6	4.6	0.4	—	2.6	0.8	0.9	23.1
1998 Mar. qtr	0.3	3.1	2.9	2.7	1.8	2.5	—	0.2	1.2	0.2	14.8
<b>PUBLIC SECTOR</b>											
1994-95	—	—	0.1	9.1	3.1	14.8	—	10.3	0.4	10.2	48.1
1995-96	0.4	3.4	0.6	6.9	4.5	23.8	—	26.8	11.9	7.7	86.0
1996-97	0.2	0.7	0.1	13.5	0.5	11.0	—	1.2	3.0	12.2	42.5
1996 Dec. qtr	0.2	0.1	—	1.2	0.2	0.5	—	—	0.4	0.6	3.1
1997 Mar. qtr	—	0.6	0.1	1.6	0.1	—	—	0.6	2.2	1.4	6.7
June qtr	—	—	—	1.6	0.2	—	—	0.6	0.2	0.9	3.5
Sept. qtr	—	—	—	0.8	1.1	1.4	—	1.0	—	0.5	4.7
Dec. qtr	—	—	—	6.7	0.2	6.6	—	0.7	0.1	0.4	14.7
1998 Mar. qtr	—	—	—	0.7	0.1	6.2	—	—	0.2	0.5	7.8
<b>TOTAL</b>											
1994-95	4.0	31.8	14.7	20.3	18.1	20.6	0.5	19.0	9.4	12.8	151.2
1995-96	12.8	37.5	38.5	22.2	27.7	32.0	2.0	41.2	13.8	13.8	241.5
1996-97	6.7	18.3	32.4	30.9	13.9	15.5	0.2	21.1	8.2	15.8	163.1
1996 Dec. qtr	2.2	3.8	8.8	6.2	5.3	1.1	—	3.1	2.9	0.8	34.1
1997 Mar. qtr	0.8	5.7	1.3	6.2	4.4	3.4	0.1	8.3	3.0	3.0	36.2
June qtr	0.3	2.2	12.0	8.2	2.4	0.2	0.2	5.0	1.7	1.8	34.0
Sept. qtr	2.1	3.0	1.5	2.7	10.3	2.7	0.4	5.2	1.0	1.0	30.0
Dec. qtr	7.8	2.6	1.8	8.3	4.8	7.0	—	3.3	0.9	1.3	37.9
1998 Mar. qtr	0.3	3.1	3.0	3.4	1.9	8.8	—	0.2	1.3	0.7	22.6

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

	<i>Number of dwelling units</i>				<i>Value (\$m)</i>						
	<i>New houses</i>	<i>New other residential building</i>	<i>Con-versions 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>
<b>PRIVATE SECTOR</b>											
1994-95	1,846	374	—	2,220	162.6	24.3	186.8	19.9	206.8	50.4	257.1
1995-96	1,529	313	—	1,842	138.2	27.5	165.8	17.9	183.6	91.7	275.4
1996-97	1,267	307	1	1,575	113.2	27.6	140.9	16.0	156.8	94.6	251.4
1996 Dec. qtr	1,423	311	5	1,739	128.7	26.6	155.3	15.0	170.3	88.1	258.4
1997 Mar. qtr	1,367	334	6	1,707	124.3	28.3	152.6	17.0	169.7	96.7	266.3
June qtr	1,267	307	1	1,575	113.2	27.6	140.9	16.0	156.8	94.6	251.4
Sept. qtr	1,210	333	1	1,544	109.0	28.7	137.8	17.4	155.2	88.5	243.6
Dec. qtr	1,134	295	1	1,430	102.4	26.0	128.3	16.1	144.5	42.8	187.3
1998 Mar. qtr	1,148	197	1	1,346	105.4	13.5	118.9	19.0	137.9	28.6	166.6
<b>PUBLIC SECTOR</b>											
1994-95	2	21	—	23	0.1	1.7	1.8	—	1.9	39.3	41.2
1995-96	7	109	—	116	0.8	10.8	11.6	0.8	12.4	61.5	73.9
1996-97	6	27	13	46	0.6	2.5	3.2	1.9	5.1	44.4	49.4
1996 Dec. qtr	4	30	13	47	0.4	2.5	2.9	1.7	4.6	67.7	72.3
1997 Mar. qtr	8	56	13	77	0.8	4.7	5.5	1.8	7.2	47.9	55.2
June qtr	6	27	13	46	0.6	2.5	3.2	1.9	5.1	44.4	49.4
Sept. qtr	6	—	—	6	0.6	—	0.6	0.2	0.9	30.4	31.3
Dec. qtr	1	2	—	3	0.4	0.2	0.6	0.4	0.9	41.4	42.4
1998 Mar. qtr	3	4	—	7	0.7	0.3	1.0	0.4	1.4	43.0	44.3
<b>TOTAL</b>											
1994-95	1,848	395	—	2,243	162.7	26.0	188.7	20.0	208.6	89.7	298.3
1995-96	1,536	422	—	1,958	139.0	38.3	177.4	18.7	196.0	153.3	349.3
1996-97	1,273	334	14	1,621	113.9	30.2	144.0	17.9	161.9	139.0	300.8
1996 Dec. qtr	1,427	341	18	1,786	129.1	29.1	158.2	16.7	174.9	155.8	330.7
1997 Mar. qtr	1,375	390	19	1,784	125.1	33.0	158.1	18.8	176.9	144.6	321.5
June qtr	1,273	334	14	1,621	113.9	30.2	144.0	17.9	161.9	139.0	300.8
Sept. qtr	1,216	333	1	1,550	109.7	28.7	138.4	17.6	156.0	118.8	274.9
Dec. qtr	1,135	297	1	1,433	102.7	26.2	128.9	16.5	145.4	84.2	229.6
1998 Mar. qtr	1,151	201	1	1,353	106.1	13.8	119.9	19.4	139.3	71.6	210.9



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

	<i>Hotels etc.</i>	<i>Shops</i>	<i>Factories</i>	<i>Offices</i>	<i>Other business premises</i>	<i>Educational</i>	<i>Religious</i>	<i>Health</i>	<i>Entertain- ment and recreational</i>	<i>Miscel- laneous</i>	<i>Total non-resi- dential building</i>
<b>PRIVATE SECTOR</b>											
1994-95	1.9	17.8	5.5	4.0	7.1	1.3	0.9	2.5	8.1	1.3	50.4
1995-96	10.3	21.5	26.5	6.5	4.9	4.7	1.7	7.9	1.4	6.2	91.7
1996-97	1.2	8.6	43.0	11.7	3.4	6.2	0.9	17.1	1.8	0.8	94.6
1996 Dec. qtr	9.7	15.2	35.0	8.2	7.7	4.0	0.6	5.6	1.9	0.2	88.1
1997 Mar. qtr	0.9	17.8	33.4	11.2	6.7	6.7	0.7	14.2	4.0	1.1	96.7
June qtr	1.2	8.6	43.0	11.7	3.4	6.2	0.9	17.1	1.8	0.8	94.6
Sept. qtr	3.1	9.6	31.5	6.9	11.6	4.8	1.2	16.5	2.1	1.2	88.5
Dec. qtr	7.9	2.2	1.4	1.3	12.7	1.7	1.2	11.1	2.4	0.9	42.8
1998 Mar. qtr	0.5	2.2	3.4	0.7	11.6	2.9	1.0	1.6	4.0	0.6	28.6
<b>PUBLIC SECTOR</b>											
1994-95	—	—	—	7.0	1.8	11.3	—	9.0	0.1	10.1	39.3
1995-96	—	3.4	0.6	3.6	3.4	17.8	—	15.6	12.0	5.2	61.5
1996-97	0.2	0.1	—	7.1	0.2	—	—	15.1	11.4	10.3	44.4
1996 Dec. qtr	0.2	0.1	—	8.8	—	22.9	—	14.6	9.2	12.0	67.7
1997 Mar. qtr	0.2	0.7	0.1	8.4	0.1	2.2	—	15.0	11.5	9.8	47.9
June qtr	0.2	0.1	—	7.1	0.2	—	—	15.1	11.4	10.3	44.4
Sept. qtr	0.3	—	—	0.3	1.1	1.4	—	16.3	2.2	8.8	30.4
Dec. qtr	—	—	—	6.1	—	7.9	—	16.7	2.2	8.5	41.4
1998 Mar. qtr	—	—	—	6.5	0.1	9.2	—	15.7	2.4	9.0	43.0
<b>TOTAL</b>											
1994-95	1.9	17.8	5.5	11.0	8.9	12.6	0.9	11.5	8.3	11.3	89.7
1995-96	10.3	24.9	27.1	10.1	8.3	22.5	1.7	23.5	13.5	11.4	153.3
1996-97	1.4	8.6	43.0	18.8	3.6	6.2	0.9	32.2	13.2	11.1	139.0
1996 Dec. qtr	9.9	15.3	35.0	17.0	7.7	26.9	0.6	20.2	11.1	12.2	155.8
1997 Mar. qtr	1.1	18.4	33.5	19.6	6.8	8.9	0.7	29.2	15.4	10.9	144.6
June qtr	1.4	8.6	43.0	18.8	3.6	6.2	0.9	32.2	13.2	11.1	139.0
Sept. qtr	3.3	9.6	31.5	7.2	12.7	6.2	1.2	32.8	4.4	10.1	118.8
Dec. qtr	7.9	2.2	1.4	7.4	12.7	9.6	1.2	27.8	4.7	9.4	84.2
1998 Mar. qtr	0.5	2.2	3.5	7.3	11.8	12.1	1.0	17.3	6.4	9.6	71.6

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

Period	Number of dwelling units				Value (\$m)						
	New houses	New other residential building	Conversions etc.	Total dwelling units	New houses	New other residential building	New residential building	Alterations and additions to residential buildings	Total residential building	Total non-residential building	Total building
<b>PRIVATE SECTOR</b>											
1994-95	2,636	736	12	3,384	227.3	50.1	277.4	42.7	320.1	89.4	409.6
1995-96	2,143	429	8	2,580	196.4	31.8	228.2	42.4	270.6	119.7	390.3
1996-97	1,780	252	11	2,043	169.5	18.5	188.1	40.7	228.8	122.3	351.0
1996 Dec. qtr	478	53	—	531	45.5	3.6	49.1	10.4	59.4	41.8	101.2
1997 Mar. qtr	405	27	4	436	37.9	1.4	39.3	8.1	47.4	25.3	72.7
June qtr	452	91	6	549	44.1	7.3	51.3	11.0	62.4	30.6	93.0
Sept. qtr	362	67	—	429	33.6	6.6	40.2	8.6	48.9	30.2	79.1
Dec. qtr	448	103	—	551	41.9	8.3	50.2	11.6	61.8	68.7	130.5
1998 Mar. qtr	334	123	—	457	32.0	14.5	46.5	8.1	54.7	28.5	83.2
<b>PUBLIC SECTOR</b>											
1994-95	8	69	—	77	0.7	4.7	5.4	0.7	6.1	56.7	62.8
1995-96	16	60	—	76	1.9	5.5	7.4	0.4	7.8	65.8	73.7
1996-97	17	127	5	149	1.7	12.4	14.0	1.0	15.1	55.7	70.8
1996 Dec. qtr	4	77	—	81	0.4	7.2	7.7	0.5	8.1	18.9	27.0
1997 Mar. qtr	4	—	5	9	0.3	—	0.3	0.1	0.4	25.5	25.8
June qtr	2	34	—	36	0.2	2.8	3.0	—	3.0	7.2	10.2
Sept. qtr	1	27	13	41	0.1	2.8	2.9	2.0	4.9	19.3	24.2
Dec. qtr	8	—	—	8	0.9	—	0.9	—	0.9	4.3	5.2
1998 Mar. qtr	—	2	—	2	—	0.2	0.2	—	0.2	6.3	6.5
<b>TOTAL</b>											
1994-95	2,644	805	12	3,461	228.0	54.8	282.8	43.3	326.2	146.1	472.3
1995-96	2,159	489	8	2,656	198.4	37.3	235.7	42.8	278.4	185.5	464.0
1996-97	1,797	379	16	2,192	171.2	30.9	202.1	41.7	243.8	178.0	421.8
1996 Dec. qtr	482	130	—	612	45.9	10.8	56.7	10.8	67.6	60.7	128.3
1997 Mar. qtr	409	27	9	445	38.2	1.4	39.6	8.1	47.7	50.8	98.5
June qtr	454	125	6	585	44.3	10.0	54.3	11.1	65.4	37.8	103.2
Sept. qtr	363	94	13	470	33.7	9.4	43.1	10.6	53.7	49.6	103.3
Dec. qtr	456	103	—	559	42.8	8.3	51.1	11.6	62.7	73.0	135.7
1998 Mar. qtr	334	125	—	459	32.0	14.7	46.7	8.2	54.9	34.8	89.7

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

<i>Period</i>	<i>Hotels etc.</i>	<i>Shops</i>	<i>Factories</i>	<i>Offices</i>	<i>Other business premises</i>	<i>Educational</i>	<i>Religious</i>	<i>Health</i>	<i>Entertain- ment and recreational</i>	<i>Miscel- laneous</i>	<i>Total non-resi- dential building</i>
<b>PRIVATE SECTOR</b>											
1994-95	2.7	15.5	14.5	13.5	13.6	5.3	0.4	18.4	2.2	3.5	89.4
1995-96	4.3	31.3	15.0	14.3	26.9	5.1	1.2	7.4	12.5	1.7	119.7
1996-97	16.0	27.1	19.0	12.6	15.4	3.2	1.2	12.0	6.7	9.2	122.3
1996 Dec. qtr	5.0	13.3	9.5	1.7	1.9	0.8	0.9	1.8	2.4	4.6	41.8
1997 Mar. qtr	9.9	2.7	3.2	2.1	5.5	0.6	—	0.1	0.3	0.7	25.3
June qtr	0.1	7.7	3.7	6.3	5.5	0.9	—	1.7	3.6	1.2	30.6
Sept. qtr	0.2	2.1	14.6	6.3	1.0	2.7	0.1	2.3	0.7	0.2	30.2
Dec. qtr	2.9	10.2	32.0	6.8	3.4	3.5	—	7.9	0.8	1.3	68.7
1998 Mar. qtr	7.7	3.0	0.9	3.3	2.5	1.3	0.2	9.1	—	0.5	28.5
<b>PUBLIC SECTOR</b>											
1994-95	0.3	—	2.4	7.1	3.2	16.8	—	23.5	1.7	1.7	56.7
1995-96	0.4	—	—	10.7	3.0	18.2	—	21.2	—	12.2	65.8
1996-97	—	3.4	1.0	10.8	3.7	26.0	—	1.4	2.3	7.4	55.7
1996 Dec. qtr	—	2.7	0.6	4.6	3.6	3.3	—	—	1.4	2.7	18.9
1997 Mar. qtr	—	—	—	2.1	—	19.5	—	—	0.2	3.7	25.5
June qtr	—	0.6	0.1	3.0	0.1	2.2	—	0.4	0.3	0.4	7.2
Sept. qtr	—	0.1	—	7.7	0.2	—	—	—	9.4	2.0	19.3
Dec. qtr	0.3	—	—	1.0	1.3	0.1	—	0.9	0.1	0.8	4.3
1998 Mar. qtr	—	—	—	0.3	—	5.1	—	1.0	—	—	6.3
<b>TOTAL</b>											
1994-95	3.0	15.5	16.9	20.6	16.8	22.1	0.4	41.9	3.8	5.2	146.1
1995-96	4.7	31.3	15.0	25.0	29.9	23.4	1.2	28.6	12.5	13.9	185.5
1996-97	16.0	30.4	19.7	23.4	19.1	29.2	1.2	13.4	9.0	16.6	178.0
1996 Dec. qtr	5.0	16.0	10.1	6.3	5.5	4.1	0.9	1.8	3.8	7.3	60.7
1997 Mar. qtr	9.9	2.7	3.2	4.2	5.5	20.2	—	0.1	0.5	4.4	50.8
June qtr	0.1	8.3	3.8	9.3	5.6	3.1	—	2.2	4.0	1.6	37.8
Sept. qtr	0.2	2.2	14.6	14.0	1.3	2.7	0.1	2.3	10.1	2.1	49.6
Dec. qtr	3.2	10.2	32.0	7.7	4.7	3.6	—	8.8	0.9	2.0	73.0
1998 Mar. qtr	7.7	3.0	0.9	3.5	2.5	6.3	0.2	10.1	—	0.5	34.8

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

<i>Period</i>	<i>New houses</i>	<i>New other residential building</i>	<i>New residential building</i>	<i>Alterations and additions to residential buildings</i>	<i>Total residential building</i>	<i>Total non-residential building</i>	<i>Total building</i>
<b>PRIVATE SECTOR</b>							
1994-95	230.8	46.0	276.8	44.3	321.1	100.1	421.1
1995-96	182.6	25.2	207.7	41.8	249.6	129.3	378.8
1996-97	160.4	23.4	183.7	39.0	222.7	149.5	372.2
1996 Dec. qtr	44.2	5.8	50.0	10.0	60.0	39.2	99.2
1997 Mar. qtr	38.9	6.0	44.9	8.7	53.6	31.6	85.3
June qtr	38.5	5.3	43.8	10.8	54.6	31.6	86.2
Sept. qtr	34.3	11.5	45.8	9.0	54.7	32.0	86.7
Dec. qtr	34.7	6.9	41.7	11.3	53.0	34.5	87.4
1998 Mar. qtr	33.0	4.8	37.8	10.0	47.7	20.0	67.7
<b>PUBLIC SECTOR</b>							
1994-95	0.5	2.5	3.0	0.7	3.6	51.2	54.8
1995-96	2.5	12.1	14.6	1.0	15.6	65.9	81.5
1996-97	1.5	7.4	9.0	2.1	11.0	68.6	79.6
1996 Dec. qtr	0.3	1.2	1.6	0.4	2.0	20.0	22.0
1997 Mar. qtr	0.4	1.2	1.6	0.8	2.4	14.0	16.4
June qtr	0.5	2.2	2.6	0.8	3.4	12.3	15.7
Sept. qtr	0.2	0.7	0.9	0.4	1.3	8.3	9.6
Dec. qtr	0.3	0.1	0.5	0.2	0.7	10.3	10.9
1998 Mar. qtr	0.3	0.2	0.4	—	0.5	11.4	11.9
<b>TOTAL</b>							
1994-95	231.3	48.5	279.8	44.9	324.7	151.3	476.0
1995-96	185.1	37.3	222.4	42.8	265.2	195.2	460.3
1996-97	161.9	30.8	192.7	41.1	233.7	218.1	451.8
1996 Dec. qtr	44.5	7.0	51.6	10.4	62.0	59.2	121.2
1997 Mar. qtr	39.3	7.2	46.5	9.5	56.0	45.6	101.6
June qtr	39.0	7.4	46.5	11.5	58.0	43.9	101.9
Sept. qtr	34.5	12.2	46.6	9.4	56.0	40.2	96.3
Dec. qtr	35.1	7.1	42.1	11.5	53.6	44.7	98.4
1998 Mar. qtr	33.3	4.9	38.2	10.0	48.2	31.4	79.6

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

<i>Period</i>	<i>Hotels etc.</i>	<i>Shops</i>	<i>Factories</i>	<i>Offices</i>	<i>Other business premises</i>	<i>Educational</i>	<i>Religious</i>	<i>Health</i>	<i>Entertainment and recreational</i>	<i>Miscellaneous</i>	<i>Total non-residential building</i>
<b>PRIVATE SECTOR</b>											
1994-95	3.1	25.4	14.6	14.0	15.2	5.7	0.8	14.8	3.7	2.8	100.1
1995-96	8.1	25.2	19.9	14.8	24.5	5.1	1.7	15.6	9.5	4.9	129.3
1996-97	12.3	26.9	44.6	16.3	15.6	6.7	0.6	13.5	7.1	5.9	149.5
1996 Dec. qtr	5.0	7.8	14.0	2.9	4.3	0.6	0.1	1.3	2.3	1.0	39.2
1997 Mar. qtr	2.4	2.8	9.8	3.8	3.8	1.4	—	3.8	2.6	1.2	31.6
June qtr	0.6	3.2	6.9	6.5	4.1	1.7	—	6.0	1.7	0.9	31.6
Sept. qtr	1.7	5.0	10.9	4.2	3.5	1.2	0.1	4.2	0.8	0.4	32.0
Dec. qtr	6.5	4.5	3.7	2.6	6.9	1.9	0.1	5.5	1.6	1.2	34.5
1998 Mar. qtr	2.3	2.8	2.4	3.1	4.2	1.4	—	2.0	1.5	0.4	20.0
<b>PUBLIC SECTOR</b>											
1994-95	—	—	0.2	7.5	2.3	18.3	—	16.1	1.0	5.8	51.2
1995-96	0.4	0.8	0.2	6.7	5.1	21.5	—	20.1	2.5	8.5	65.9
1996-97	0.1	2.6	0.5	17.2	1.5	16.7	—	10.8	8.0	11.2	68.6
1996 Dec. qtr	—	0.2	0.1	4.8	0.2	6.3	—	2.8	2.2	3.5	20.0
1997 Mar. qtr	0.1	0.2	0.1	3.2	0.1	3.3	—	2.8	1.5	2.7	14.0
June qtr	—	0.4	—	4.7	0.2	0.1	—	2.7	1.1	3.0	12.3
Sept. qtr	0.1	0.1	—	0.8	0.6	0.4	—	2.9	1.2	2.1	8.3
Dec. qtr	—	—	—	1.4	0.8	3.5	—	2.5	0.1	2.1	10.3
1998 Mar. qtr	—	—	—	3.3	0.1	6.3	—	0.6	0.1	1.1	11.4
<b>TOTAL</b>											
1994-95	3.1	25.4	14.8	21.5	17.5	23.9	0.8	30.8	4.7	8.6	151.3
1995-96	8.6	26.0	20.1	21.5	29.6	26.6	1.7	35.7	12.0	13.5	195.2
1996-97	12.5	29.5	45.1	33.5	17.1	23.4	0.6	24.4	15.1	17.1	218.1
1996 Dec. qtr	5.0	8.0	14.1	7.7	4.6	6.9	0.1	4.1	4.5	4.4	59.2
1997 Mar. qtr	2.5	3.0	9.9	7.0	3.9	4.7	—	6.6	4.1	3.9	45.6
June qtr	0.7	3.6	6.9	11.1	4.2	1.9	—	8.7	2.8	3.9	43.9
Sept. qtr	1.8	5.1	10.9	5.0	4.1	1.7	0.1	7.1	2.0	2.5	40.2
Dec. qtr	6.5	4.5	3.7	4.0	7.6	5.4	0.1	8.0	1.7	3.2	44.7
1998 Mar. qtr	2.3	2.8	2.4	6.3	4.3	7.6	—	2.6	1.6	1.5	31.4

**TABLE 13. VALUE OF BUILDING WORK YET TO BE DONE AT END OF PERIOD: 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>
<b>PRIVATE SECTOR</b>							
1994-95	72.2	8.3	80.5	7.6	88.1	24.2	112.3
1995-96	62.9	18.4	81.3	6.1	87.4	56.5	143.9
1996-97	47.7	14.2	61.8	6.0	67.8	32.1	99.9
1996 Dec. qtr	58.4	15.7	74.0	5.4	79.4	33.1	112.5
1997 Mar. qtr	53.2	12.8	66.0	6.8	72.7	35.1	107.9
June qtr	47.7	14.2	61.8	6.0	67.8	32.1	99.9
Sept. qtr	43.4	10.4	53.8	7.1	60.9	24.7	85.6
Dec. qtr	44.0	9.0	53.1	6.1	59.2	13.3	72.5
1998 Mar. qtr	46.1	6.3	52.4	7.3	59.7	8.0	67.7
<b>PUBLIC SECTOR</b>							
1994-95	0.1	1.1	1.2	—	1.2	19.9	21.1
1995-96	0.2	3.7	3.9	0.2	4.1	42.0	46.1
1996-97	0.2	0.4	0.6	0.2	0.8	12.5	13.3
1996 Dec. qtr	0.2	1.0	1.2	1.5	2.7	29.2	31.9
1997 Mar. qtr	0.6	1.9	2.5	0.8	3.3	20.9	24.3
June qtr	0.2	0.4	0.6	0.2	0.8	12.5	13.3
Sept. qtr	—	—	—	0.1	0.1	9.6	9.7
Dec. qtr	0.3	0.1	0.4	0.1	0.4	14.7	15.1
1998 Mar. qtr	0.3	0.2	0.5	—	0.6	11.1	11.7
<b>TOTAL</b>							
1994-95	72.3	9.4	81.7	7.6	89.3	44.1	133.4
1995-96	63.0	22.2	85.2	6.3	91.5	98.5	190.0
1996-97	47.8	14.6	62.4	6.2	68.6	44.6	113.2
1996 Dec. qtr	58.6	16.6	75.2	6.9	82.1	62.3	144.4
1997 Mar. qtr	53.8	14.8	68.5	7.6	76.1	56.0	132.1
June qtr	47.8	14.6	62.4	6.2	68.6	44.6	113.2
Sept. qtr	43.4	10.4	53.8	7.2	61.0	34.3	95.3
Dec. qtr	44.3	9.1	53.4	6.2	59.6	28.0	87.6
1998 Mar. qtr	46.4	6.5	52.9	7.4	60.3	19.1	79.4

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

	<i>Hotels etc.</i>	<i>Shops</i>	<i>Factories</i>	<i>Offices</i>	<i>Other business premises</i>	<i>Educational</i>	<i>Religious</i>	<i>Health</i>	<i>Entertain- ment and recreational</i>	<i>Miscel- laneous</i>	<i>Total non-resi- dential building</i>
<b>PRIVATE SECTOR</b>											
1994-95	1.2	7.1	3.0	1.3	2.4	0.6	0.4	1.8	5.8	0.6	24.2
1995-96	5.8	17.0	19.3	3.4	2.6	4.1	0.8	0.4	0.6	2.5	56.5
1996-97	0.4	4.2	10.3	4.9	0.7	2.0	0.5	8.0	0.7	0.3	32.1
1996 Dec. qtr	1.9	6.5	12.0	3.1	2.1	1.6	0.3	4.5	1.1	—	33.1
1997 Mar. qtr	0.7	8.9	3.9	4.5	2.6	3.5	0.4	9.4	0.9	0.4	35.1
June qtr	0.4	4.2	10.3	4.9	0.7	2.0	0.5	8.0	0.7	0.3	32.1
Sept. qtr	0.8	2.3	2.5	2.1	6.5	2.1	0.8	6.1	1.0	0.5	24.7
Dec. qtr	2.1	0.6	0.6	0.7	4.1	0.6	0.8	3.1	0.4	0.3	13.3
1998 Mar. qtr	0.2	0.9	1.1	0.4	1.7	1.7	0.8	0.7	0.5	0.1	8.0
<b>PUBLIC SECTOR</b>											
1994-95	—	—	—	2.6	1.5	4.9	—	6.0	0.1	4.7	19.9
1995-96	—	2.6	0.4	3.0	1.0	8.1	—	13.7	9.5	3.6	42.0
1996-97	0.1	0.1	—	0.2	0.1	—	—	4.1	3.1	4.9	12.5
1996 Dec. qtr	0.2	0.1	—	4.7	—	4.6	—	8.4	3.0	8.2	29.2
1997 Mar. qtr	0.1	0.5	—	3.2	—	0.1	—	6.1	4.0	7.0	20.9
June qtr	0.1	0.1	—	0.2	0.1	—	—	4.1	3.1	4.9	12.5
Sept. qtr	—	—	—	0.2	0.5	1.0	—	2.4	2.1	3.3	9.6
Dec. qtr	—	—	—	5.6	—	4.1	—	1.2	2.1	1.7	14.7
1998 Mar. qtr	—	—	—	3.0	0.1	4.2	—	0.6	2.2	1.1	11.1
<b>TOTAL</b>											
1994-95	1.2	7.1	3.0	3.9	3.9	5.6	0.4	7.8	5.9	5.3	44.1
1995-96	5.8	19.6	19.7	6.4	3.6	12.3	0.8	14.1	10.1	6.1	98.5
1996-97	0.4	4.3	10.3	5.1	0.8	2.0	0.5	12.1	3.8	5.3	44.6
1996 Dec. qtr	2.0	6.5	12.0	7.8	2.1	6.1	0.3	12.9	4.2	8.2	62.3
1997 Mar. qtr	0.8	9.4	3.9	7.7	2.6	3.6	0.4	15.5	4.9	7.4	56.0
June qtr	0.4	4.3	10.3	5.1	0.8	2.0	0.5	12.1	3.8	5.3	44.6
Sept. qtr	0.8	2.3	2.5	2.3	7.1	3.1	0.8	8.4	3.1	3.8	34.3
Dec. qtr	2.1	0.6	0.6	6.3	4.1	4.7	0.8	4.3	2.5	2.0	28.0
1998 Mar. qtr	0.2	0.9	1.2	3.4	1.7	5.9	0.8	1.2	2.7	1.1	19.1

**TABLE 15. BUILDING ACTIVITY RELATIVE STANDARD ERRORS, MARCH QUARTER 1998  
(Percentage)**

<i>Ownership and stage of construction</i>	<i>New residential building</i>				<i>Value</i>	
	<i>Houses</i>		<i>Total</i>		<i>Alterations and additions to residential buildings</i>	<i>Total building</i>
	<i>Number</i>	<i>Value</i>	<i>Number of dwelling units</i>	<i>Value</i>		
<b>TOTAL PRIVATE AND PUBLIC SECTORS</b>						
Commenced	2.0	2.3	1.9	2.1	5.1	2.0
Under construction at end of period	2.5	2.4	2.1	2.1	5.7	2.0
Completed	4.2	4.3	3.0	2.9	7.3	2.7
Value of work done	..	2.2	..	1.9	5.0	1.8
Value of work yet to be done	..	2.8	..	2.5	6.4	2.3



# EXPLANATORY NOTES

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## INTRODUCTION

**1** 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 sample survey of private sector house building activity involving new house construction or alterations and additions valued at \$10,000 or more to houses; and
- a complete enumeration of jobs involving construction of new residential buildings other than private sector houses, all alterations and additions to residential buildings (other than private sector houses) with an approval value of \$10,000 or more, and all non-residential building jobs with an approval value of \$50,000 or more.

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

- *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.
- *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.
- *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.
- *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.

- *Houses*. Includes cottages, bungalows, detached caretakers'/managers' cottages, rectories.
- *Other residential buildings*. Includes blocks of flats, home units, attached townhouses, villa units, terrace houses, semi-detached houses, maisonettes.
- *Hotels, etc.* Includes motels, hostels, boarding houses, guesthouses, holiday apartment buildings.
- *Shops*. Includes retail shops, restaurants, cafes, taverns, dry cleaners, laundromats, hair salons, shopping arcades.
- *Factories*. Includes paper mills, oil refinery buildings, brickworks, foundries, powerhouses, manufacturing laboratories, workshops as part of a manufacturing process.

## EXPLANATORY NOTES *continued*

### BUILDING CLASSIFICATION *continued*

- *Offices*. Includes banks, post offices, council chambers, head and regional offices.
- *Other business premises*. Includes warehouses, storage depots, service stations, transport depots and terminals, electricity substation buildings, pumping station buildings, telephone exchanges, mail sorting centres, broadcasting stations, film studios.
- *Educational*. Includes schools, colleges, kindergartens, libraries, museums, art galleries, research and teaching laboratories, theological colleges.
- *Religious*. Includes churches, chapels, temples.
- *Health*. Includes hospitals, nursing homes, surgeries, clinics, medical centres.
- *Entertainment and recreational*. Includes clubs, theatres, cinemas, public halls, gymnasiums, grandstands, squash courts, sports and recreation centres.
- *Miscellaneous*. Includes law courts, homes for the aged (where medical care is not provided as a normal service), orphanages, gaols, barracks, mine buildings, glasshouses, livestock sheds, shearing sheds, fruit and skin drying sheds, public toilets, and ambulance, fire and police stations.

### RELIABILITY OF THE ESTIMATES

**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 (SE), which indicates the extent to which an estimate might have varied by chance because only a sample of approved jobs was included. There are about two chances in three that a sample estimate will differ by less than one SE from the figure that would have been obtained if all approved jobs had been included, and about nineteen chances in twenty that the difference will be less than two SEs. Another measure of sampling variability is the relative standard error (RSE), which is obtained by expressing the SE as a percentage of the estimate to which it refers. The RSEs of estimates provide an indication of the percentage errors likely to have occurred due to sampling, and are shown in table 15.

**20** An example of the use of RSEs is as follows. Assume that the estimate of the number of new private sector houses commenced during the latest quarter is 2,000 (for actual estimate see table 5) and that the associated RSE is 2.5 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 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.

### ACKNOWLEDGMENT

**27** ABS publications draw extensively on information provided freely by individuals, businesses, governments and other organisations. Their continued cooperation is very much appreciated: without it, the wide range of statistics published by the ABS would not be available. Information received by the ABS is treated in strict confidence as required by the *Census and Statistics Act 1905*.

### UNPUBLISHED DATA AND RELATED PUBLICATIONS

**28** 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 Hobart 03 6220 5800 or any ABS State office.

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

*Building Activity, Australia* (Cat. no. 8752.0) — issued quarterly

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

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

*Building Approvals, Tasmania* (Cat. no. 8731.6) — issued monthly

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



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