

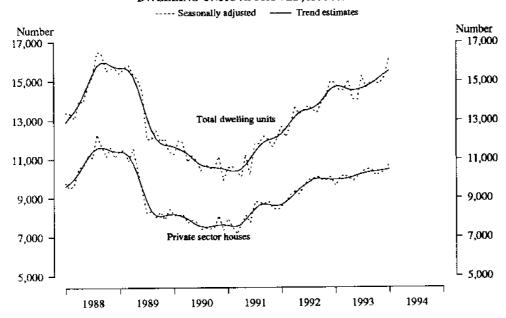
## CATALOGUE NO. 8731.0 EMBARGOED UNTIL 11.30 A.M. 1 MARCH 1994

## **BUILDING APPROVALS, AUSTRALIA, JANUARY 1994**

NOTE: Trend estimates for the most recent months are provisional and can be revised as data for additional months become available. Readers are referred to the "Reliability of Contemporary Trends" on page 3 for assistance with interpreting selected trend estimates.

#### SUMMARY OF FINDINGS

#### DWELLING UNITS APPROVED, AUSTRALIA



#### Number of dwelling units approved

The growth in the provisional trend for the total number of dwelling units approved has strengthened in the last four months. Last month it was reported that there would need to be a fall of 1 per cent in the seasonally adjusted number of dwelling units approved in January 1994 to cause the trend to flatten. In fact, seasonally adjusted approvals in January 1994 rose by 6.1 per cent with the effect that the trend has now been revised upwards. The trend rose by 1.0 per cent to 15,532 in January, following growth of 1.2 per cent in December and 1.1 per cent in November 1993. There would need to be a fall of about 12 per cent in the seasonally adjusted number of dwelling units approved in February 1994 for the trend to flatten. The historical average monthly movement of this series, regardless of sign, is 4 per cent.

The provisional trend for the number of private sector houses approved, which had shown signs of flattening out last month, is now showing renewed growth to January 1994. The trend rose by 0.4 per cent in January 1994 following growth of 0.4 per cent in December and 0.3 per cent in November 1993. This trend growth will continue unless there is a fall of more than 6 per cent in the

seasonally adjusted number of private sector houses approved in February 1994. The historical average monthly movement of this series is 4 per cent.

## DWELLING UNITS APPROVED, JANUARY 1994

		Pe	ercentage change
	Number	From previous month	From corresponding month of previous year
Private sector houses—			
Trend estimate	10,485	0.4	5.5
Seasonally adjusted	10,764	3.8	11.8
Original	8,325	-13.5	9.0
Total dwelling units-			
Trend estimate	15,532	1.0	5.5
Seasonally adjusted	16,166	6.1	8.4
Original	12,774	-6.7	6,8

In seasonally adjusted terms, the total number of dwelling units approved rose by 6.1 per cent in January 1994 to 16,166, the highest recorded monthly estimate since September 1988 (16,453). The number of private sector houses approved rose by 3.8 per cent in January 1994 to 10,764, the highest recorded monthly estimate since April 1989 (11,561).

## **INQUIRIES**

- for further information about statistics in this publication and the availability of related unpublished statistics, contact Paul Seville on Canberra (06) 252 6067 or any ABS State office.
- about constant price deflators, contact Paul Curran on Canberra (06) 252 6708.
- for information about other ABS statistics and services please refer to the back page of this publication.

The provisional trend estimate for total dwelling unit approvals in New South Wales, which had been in decline since January 1993, is now displaying growth. This growth is due mainly to a 22.3 per cent rise in the seasonally adjusted series in January 1994 (almost three times the historical average monthly movement). The trends for total dwellings approved in Victoria, Queensland and Tasmania are all displaying slow growth. A 26.3 per cent fall in the seasonally adjusted number of dwellings approved in January has caused the trend in Western Australia to flatten after nine months of growth. The trend in South Australia continues the decline evident since January 1993.

#### Value of building approved

The provisional trend for the value of *total building* approved, which was flat last month, has been revised and is now trending down from September 1993 onwards. There would need to be an increase of nearly 13 per cent in the seasonally adjusted value of total building approved in February 1994 for the trend to level out. The historical average monthly movement of this series is 9 per cent.

'The provisional trend series for the value of new residential building approved continues to grow, as it has since May 1993. There would need to be a fall of more than 11 per cent in the seasonally adjusted series in February 1994 for this growth to halt. The historical average monthly movement of this series is 4 per cent.

The provisional trend for the value of non-residential building approved, which has been relatively stable over the last six months, is again showing signs of decline. The trend fell by 3.8 per cent in January 1994, following falls of 4.2 per cent in December and 3.7 per cent in

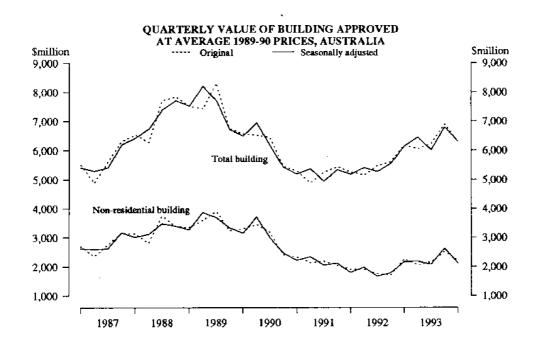
November 1993. The volatile nature of this series can be seen by the fact that the seasonally adjusted estimate fell by nearly 30 per cent in January following a 25 per cent increase in December 1993. However, there would need to be an increase of more than 50 per cent in the seasonally adjusted series in February 1994 for the trend to flatten.

#### Value of building approved at average 1989-90 prices

In seasonally adjusted, constant price terms, the value of total building approved in the December quarter 1993 decreased by 7.1 per cent from the September quarter 1993 estimate. This was mainly due to a 18.8 per cent decrease in the value of non-residential building approved. The value of new residential building approved decreased by 1.6 per cent, following a 7.0 per cent increase in the September quarter 1993. However, the value of total building approved in the December quarter 1993 is still 2.7 per cent above that of the same period twelve months ago.

VALUE OF BUILDING APPROVED AT AVERAGE 1989-90 PRICES

		CJER,							
	Percentage Change								
		r 1993 to qtr 1993		1992 to ptr 1993					
	Original	Seasonally adjusted	Original	Seasonally adjusted					
New residential building Non-residential building Total building	-6.8 -12.0 -8.6	-1.6 -18.8 -7.1	4.9 -2.3 2.1	5.9 -2.1 2.7					



#### RELIABILITY OF CONTEMPORARY TREND ESTIMATES

The tables below present trend estimates of selected building approvals series for the six months August 1993 to January 1994.

Analysis of building approvals series has shown that the original series can be volatile and that the initial estimates of a month's trend value can be revised substantially. In particular, some months can elapse before a turning point in the trend series is identified reliably. Generally, the size of revisions to the trend estimates tends to be larger, the greater the volatility of the original series. Revisions to trend estimates will also occur with revisions to original data and re-estimation of seasonal adjustment factors. See paragraphs 22 to 24 of the Explanatory Notes for a more detailed explanation.

To illustrate the possible impact of future months' observations on the trend estimates for the latest months, the tables below show the revisions to the trend estimates that would result if the movements in the seasonally adjusted estimates for next month (February 1994) were to equal the average monthly percentage change (regardless of sign) in the series over the last ten years.

For example, if the seasonally adjusted estimate for the number of private houses approved (the first table) were to increase by 4 per cent in February 1994, the trend estimate for that month would be 10,805, a movement of 1.3 per cent. The monthly movements in the trend estimates for November and December 1993 and January 1994, which are currently estimated to be 0.3 per cent, 0.4 per cent and 0.4 per cent respectively, would be revised to 0.6 per cent, 1.0 per cent and 1.3 per cent. On the other hand, a 4 per cent seasonally adjusted decline in the number of private houses approved in February 1994 would produce a trend estimate for February of 10,482, a movement of 0.3 per cent, with the movements in the trend estimates for November and December 1993 and January 1994 being revised to 0.1 per cent, 0.3 per cent and 0.3 per cent, respectively.

# NUMBER OF PRIVATE SECTOR HOUSES APPROVED RELIABILITY OF TREND ESTIMATES

			Revised trend estimate if February 1994 seasonally adjusted estimate						
	Tre	nd estimate	is up 49	6 on January 1994	is down 4	% on January 1994			
	No.	% change on previous month	No.	% change on previous month	No.	% change on previous month			
1993—						<del></del> -			
August	10,308	0.5	10,297	0.4	10,312	0.5			
September	10,348	0.4	10,328	0.3	10,354	0.4			
October	10,374	0.3	10,364	0.4	10,377	0.2			
November	10,402	0.3	10,426	0.6	10,392	0.1			
December	10,443	0.4	10,532	1.0	10,419	0.3			
1994—									
January	10,485	0.4	10,666	1.3	10,452	0.3			
February	n.y.a.	n.y.a.	10,805	1.3	10,482	0.3			

# TOTAL NUMBER OF DWELLING UNITS APPROVED RELIABILITY OF TREND ESTIMATES

				Revised trend estimate seasonally adjuste	•		
	Tre	nd estimate	is up 49	t on January 1994	is down 4% on January 1994		
	No.	% change on previous month	No.	% change on previous month	No.	% change on previous month	
1993—	-				-		
August	14,738	0.7	14,713	0.5	14,737	0.7	
September	14,867	0.9	14,824	0.8	14,866	0.9	
October	15,025	1.1	15,004	1.2	15,025	1.1	
November	15,195	1.1	15,242	1.6	15,186	1.1	
December	15,381	1.2	15,544	2.0	15,360	1.2	
1994							
January	15,532	1.0	15,875	2.1	15,529	1.1	
February	n.y.a.	п.у.а.	16,239	2.3	15,716	1.2	

# VALUE OF NEW RESIDENTIAL BUILDING APPROVED RELIABILITY OF TREND ESTIMATES

				Revised trend estimate if February 1994 seasonally adjusted estimate						
	Tre	nd estimate	is up 49	% on January 1994	is down 4	% on January 1994				
	\$m	% change on previous month	\$m	% change on previous month	\$m	% change on previous month				
1993—										
August	1,231.9	1.8	1,229.8	1.6	1,232.2	1.8				
September	1,246.9	1.2	1,243.6	1.1	1,247.7	1.3				
October	1,260.6	1.1	1,258.9	1.2	1,261.0	1.1				
November	1,273.5	1.0	1,277.4	1.5	1,272.0	0.9				
December	1,287.1	1.1	1,301.4	1.9	1,283.5	0.9				
1994—										
January	1,297.4	0.8	1,328.6	2.1	1,294.8	0.9				
February	п.у.а.	n.y.a.	1,358.8	2.3	1,307.7	1.0				

# VALUE OF NON-RESIDENTIAL BUILDING APPROVED RELIABILITY OF TREND ESTIMATES

			Revised trend estimate if February 1994 seasonally adjusted estimate						
	Tre	nd estimate	is up 199	% on January 1994	is down 19	% on January 1994			
	\$m	% change on previous month	\$ <i>m</i>	% change on previous month	\$m	% change on previous month			
1993									
August	742.1	2.9	742.5	2.9	746.6	3.5			
September	745.8	0.5	746.6	0.6	753.8	1.0			
October	730.5	-2.1	730.9	-2.1	734.5	-2.6			
November	703.6	-3.7	702.8	-3.8	693.3	-5.6			
December	674.4	-4.2	675.3	-3.9	643.8	-7.1			
1994—									
January	648.6	-3.8	654.7	-3.1	595.3	-7.5			
February	n.y.a.	n.y.a.	627.5	-4.2	537.8	-9.7			

# VALUE OF TOTAL BUILDING APPROVED RELIABILITY OF TREND ESTIMATES

				Revised trend estimate seasonally adjust		
	Tre	nd estimate	is up 99	6 on January 1994	is down 9	% on January 1994
	\$m	% change on previous month	\$m	% change on previous month	\$m	% change on previous month
1993—						
August	2,154.5	2.2	2,153.8	2.2	2,160.8	2.5
September	2,175.7	1.0	2,175.0	1.0	2,187.3	1.2
October	2,171.6	-0.2	2,171.1	-0.2	2,177.2	-0.5
November	2,150.9	-1.0	2,151.8	-0.9	2,135.6	-1.9
December	2,125.0	-1.2	2,134.3	-0.8	2,080.9	-2.6
1994—						
January	2,097.3	-1.3	2,124.6	-0.5	2,023.9	- <b>2.</b> 7
February	n.y.a.	n.y.a.	2,133.9	-0.5	1,962.0	-3.1

TABLE 1. NUMBER OF DWELLING UNITS APPROVED IN NEW RESIDENTIAL BUILDINGS, AUSTRALIA

		Houses			idential building	Total			
Period	Private sector	Public sector	Total	Private sector	Public sector	Total	Private sector	Public sector	Tota
1990-91	90,973	3,082	94,055	26,267	5,724	31,991	117,240	8,806	126,046
1991-92	107,171	3,693	110,864	31,038	8,299	39,337	138,209	11,992	150,201
1992-93	119,846	3,741	123,587	40,319	6,651	46,970	160,165	10,392	170,557
1992-93			aa.	an tot	2 473	26,178	92,050	5,263	97,313
July-January	69,343	1,792	71,135	22,707	3,471	20,178	92,030	3,203	77,313
1993-94 July-January	72,256	1,736	73,992	28,262	2,020	30,282	100,518	3,756	104,274
1992—				_				1.046	
November	10,157	335	10,492	3,397	711	4,108	13,554	1,046	14,600
December	9,476	371	9,847	3,427	777	4,204	12,903	1,148	14,051
1993						• 0/4	4. 016	040	11.05
January	7, <del>6</del> 36	560	8,196	3,379	382	3,761	11,015	942	11,957 13,043
February	9,041	319	9,360	3,186	497	3,683	12,227	816	-
March	11,081	458	11,539	3,681	539	4,220	14,762	997	15,759
April	9,475	440	9,915	3,738	502	4,240	13,213	942	14,15: 14,86
May	10,249	306	10,555	3,625	686	4,311	13,874	992	
June	10,657	426	11,083	3,382	956	4,338	14,039	1,382	15,42 15,81
July	10,989	176	11,165	4,128	526	4,654	15,117	702 475	15,35
August	10,774	153	10,927	4,108	322	4,430	14,882 15,333	502	15,83
September	11,152	333	11,485	4,181	169	4,350			14,63
October	10,435	257	10,692	3,801	142	3,943	14,236	399 637	16,16
November	10,960	295	11,255	4,564	342	4,906	15,524	547	13,69
December	9,621	302	9,923	3,525	245	3,770	13,146	341	13,09
<i>1994</i> January	8,325	220	8, <b>5</b> 45	3,955	274	4,229	12,280	494	12,77

NOTE: The number of self-contained dwelling units approved as part of the construction of non-residential building and alterations and additions to existing buildings (including conversions to dwelling units) are excluded from this table. There were 318 such dwelling units approved in January 1994. This includes 204 dwelling units created as the result of the conversion of a hotel to apartments in New South Wales.

TABLE 2. VALUE OF BUILDING APPROVED, AUSTRALIA (\$ million)

				New res	idential b	uilding				Alterations				
		Houses		Other res	ridential E	uildings		Total		and additions	Non-resi build		Total b	uilding
= : =	Private sector	Public sector	Total	Private sector	Public sector	Total	Private sector	Public sector	Total	to residential buildings	Private sector	Total	Private sector	Total
1990-91	7,792.2	206.6	7,998.8	1,895.1	359.4	2.254.5	9,687,3	566.0	10.253.3	1,894.9	6,232.3	8,957.4	17,793.3	21,105.6
1991-92	9,113.0	275.6	9.388.5	2,060.3	557.1	2.617.4	11.173.3	832.7	12,005.9	1,973.9	4.745.4	7,208.7	17,873.5	21,188.5
1992-93	10,319.3	286.5	10,605.7	3,091.4	424.2	3,515.6	13,410.7	710.7	14,321.4	2,088.6	5,067.7	7,676.5	20,549.8	23,886.4
1992														
November	872.6	23.4	896.0	238.3	42.7	280.9	1,110.9	66.1	1,176.9	178.0	423.5	658.6	1,711.0	2,013.5
December	821.8	26.6	848.5	231.5	53.5	285.0	1,053.3	80.2	1,133.5	164.0	571.4	<del>69</del> 0.2	1,788.0	1,987.7
1993—														-0.0
January	655.3	36.9	692-2	505.3	26.4	531.6	1,160.5	63.3	1,223.8	134.5	473.5	690.3	1,765.3	2,048.6
February	786.0	25.0	811.0	236.8	37.0	273.8	1,022.8	62.1	1,084.8	156.0	401.3	585.0	1,579.5	1,825.8
March	953.3	35.0	988.3	249.6	35.8	285.4	1,202.9	70.8	1,273.7	188.3	396.2	652.2	1,785.2	2,114.2
April	811.9	40.3	852.2	305.8	29.0	334.8	1,117.7	69.4	1,187.0	165.3	436.5	605.5	1,717.3	1,957.7
May	891.9	22.6	914.5	254.8	39.6	294.4	1,146.7	62.2	1,208.9	183.3	362.3	725.0	1,688.9	2,117.3
June	920.3	31.5	951.8	239.2	55.5	294.7	1,159.5	87.1	1,246.5	182.8	522.2	701.3	1,863.0	2,130.7
July	963.5	17.3	980.8	313.8	31.5	345.4	1,277.3	48.9	1,326.2	178.2	380.6	560.8	1,834.7	2,065.1
August	946.1	12.0	958.1	276.2	21.7	297.9	1,222.4	33.7	1,256.1	179.9	554.0	850.7	1,956.1	2,286.7
September	984.4	27.3	1,011.7	315.7	10.4	326.1	1,300.1	37.8	1,337.8	223.9	687.5	923.0	2,209.7	2,484.8
October	908.5	20.7	929.2	269.7	9.4	279.1	1,178.1	30.1	1,208.2	195.0	416.4	618.5	1,789.0	2,021.7
November	966.3	19.0	985.3	330.1	22.8	352.9	1,296.4	41.8	1,338.2	198.3	424.5	672.7	1,918.6	2,209.2
December	864.8	22.5	887.3	242.3	15.1	257.4	1,107.1	37.6	1,144.7	168.1	457.5	767.4	1,732.1	2,080.2
1994—														
January	750.2	25.8	776.0	296.8	20.4	317.2	1,047.1	46.2	1,093.3	145.2	302.7	566.0	1,494.5	1,804.5

TABLE 3. NUMBER AND VALUE OF BUILDING APPROVED, AUSTRALIA SEASONALLY ADJUSTED ESTIMATES

		Number of dwell	ing units			Value(\$	Smc)	
	Houses		Total			Alterations and additions to		
Period 	Private sector	Total	Private sector	Total	New residential building	residential buildings	Non- residential building(a)	Total building
1992—								
November	9,933	10,198	13,249	14,219	1,158.0	174.0	647.9	1,986.5
December	10,079	10,491	13,855	14,988	1,203.3	174.9	722.0	2,126.5
1993								
January	9,630	10,401	13,661	14,912	1,496.0	167.7	665.9	2,257.2
February	10,018	10,477	13,403	14,524	1,203.9	173.7	682.7	2,118.6
March	10,207	10,575	13,625	14,573	1,173.0	177.8	694.3	2,006.9
April	10,033	10,406	13,790	15,073	1,224.8	176.9	661.7	2,085.2
May	9,882	10,109	13,329	14,082	1,141.6	179.0	613.4	1,892.7
June	10,097	10,268	13,363	14,048	1,155.9	180.8	683.0	2,013.3
July	10,353	10,765	14,561	15,279	1,270.1	170.0	596.9	2,081.8
August	10,484	10,550	14,048	14,677	1,225.8	172.8	875.7	2,257.3
September	10,495	10,797	14,437	14,981	1,281.5	200.2	955.7	2,394.2
October	10,159	10,563	14,222	14,928	1,242.0	185.3	529.9	1,971.4
November	10,278	10,557	14,539	14,879	1,245.1	181.8	641.8	2,091.5
December	10,370	10,816	14,619	15,243	1,268.9	185.2	803.9	2,254.0
1994—								
January	10,764	10,950	15,666	16,166	1,352.0	183.1	567,4	2,015.4

<sup>(</sup>a) Extreme care should be exercised in using the seasonally adjusted series for the value of non-residential building. The highly erratic nature of this data makes reliable estimation of the seasonal pattern very difficult.

TABLE 4. NUMBER AND VALUE OF BUILDING APPROVED, AUSTRALIA TREND ESTIMATES (a)  $\,$ 

		Number of dwelling units					im)	
	Ноиѕея		Total		Alterations and			
Period	Private sector	Total	Private sector	Total	New residential building	additions to residential buildings	Non- residential building	Tota building
1992—								
November	9,973	10,337	13,438	14,299	1,204.9	172.1	662.1	2,044.2
December	9,948	10,404	13 <b>,5</b> 43	14,564	1,244.1	172.2	682.2	2,101.1
1993—								
January	9,942	10,440	13,590	14,722	1,263.4	173.1	689.9	2,124.2
February	9,952	10,439	13,590	14,746	1,258.3	174.6	681.9	2,108.8
March	9,977	10,408	13,566	14,669	1,233.7	175.4	662.8	2,065.1
April	10,029	10,385	13,575	14,575	1,205.2	176.0	655.1	2,030.8
May	10,104	10,391	13,651	14,537	1,188.8	176.7	668.0	2,028.8
June	10,190	10,430	13,789	570,	1,192.1	177.8	692.0	2,057.4
July r	10,259	10,494	13,949	14,641	1,210.0	179.4	721.3	2,108.0
August r	10,308	10,565	14,110	14,738	1,231.9	181.4	742.1	2,154.5
September r	10,348	10,632	14,280	14,867	1,246.9	183.4	745.8	2,175.7
October r	10,374	10,682	14,462	15,025	1,260.6	185.0	730.5	2,171.6
November r	10,402	10,723	14,655	15,195	1,273.5	185.7	703.6	2,150.9
December 1	10,443	10,767	14,862	15,381	1,287.1	185.7	674.4	2,125.0
1994								
Jamuary	10,485	10,799	15,029	15,532	1,297.4	185.8	648.6	2,097.3

<sup>(</sup>a) Seasonally adjusted series smoothed by application of a 13-term Henderson moving average - see Explanatory Notes for a more detailed explanation.

TABLE 5. TOTAL NUMBER OF DWELLING UNITS APPROVED, STATES(a) SEASONALLY ADJUSTED AND TREND ESTIMATES

Period	NSW	Vic.	Qld	SA	WA	Tas
		SEASONALI	Y ADJUSTED			
1992—						
November	4,191	2,561	3,756	940	1,800	381
December	4,372	2,585	4,345	1,149	2,045	359
1993—						
January	4,407	2,667	3,932	1,094	1,909	349
February	4,390	2,489	3,523	1,142	1,698	22
March	4,139	2,557	4,088	986	1,871	35:
April	4,167	2,394	4,660	1,101	1,828	34
May	3,897	2,343	4,334	1,010	1,809	32
June	3,692	2,359	4,523	942	2,045	33:
July	4,425	2,583	4,641	1,143	1,865	37
August	3,717	2,437	4,316	1,177	2,183	386
September	3,870	2,723	4,798	850	2,145	34
October	3,945	2,591	4,143	924	2,197	34:
November	3,999	2,554	4,504	1,005	2,351	36
December	3,556	2,634	4,641	927	2,551	369
1994						
January ————————————————————————————————————	4,348	2,754	4,570	927	1,881	39
		TREND E	STIMATES			
1992—						
November	4,175	2,535	3,812	1,045	1,920	35
December	4,287	2,563	3,869	1,070	1,907	34
1993						
January	4,331	2,565	3,939	1,083	1,880	32
February	4,300	2,540	4,034	1,078	1,846	31
March	4,215	2,489	4,149	1,067	1,826	31
April	4,114	2,439	4,281	1,058	1,833	32
May	4,023	2,418	4,412	1,051	1,870	33
June	3,969	2,433	4,505	1,045	1,925	35
July r	3,935	2,473	4,539	1,038	2,008	35
August r	3,916	2,524	4,514	1,023	2,098	36
September r	3,906	2,571	4,487	1,000	2,178	36
October r	3,905	2,607	4,487	973	2,235	36
November r	3,916	2,634	4,499	949	2,264	36
December r	3,943	2,660	4,517	931	2,267	36
<i>1994</i> —						
January	3,959	2,677	4,539	910	2,257	37

<sup>(</sup>a) Seasonally adjusted and trend estimates are not available for Northern Territory or Australian Capital Territory. NOTE: Analysis of the above State building approvals series has shown that they are subject to varying degrees of volatility. As an indication of this volatility, the average absolute monthly percentage change in the seasonally adjusted estimates over the last ten years, for each State series, is New South Wales, 8%; Victoria, 6%; Queensland, 7%; South Australia, 11%; Western Australia, 8% and Tarmania, 12%. This volatility should also be taken into account in analysis of the trend estimates presented (see "Reliability of Contemporary Trend Estimates" on page 3 of this publication).

TABLE 6. VALUE OF BUILDING APPROVED AT AVERAGE 1989-90 PRICES (a), AUSTRALIA ORIGINAL AND SEASONALLY ADJUSTED ESTIMATES (\$ million)

		New residenti	al building		Alterations	Non-residential	building	Total buil	ding
	llouse.	s	Other	-	and = additions to				
Period	Private sector	Total	residential buildings	Total	residential buildings	Private sector	Total	Private sector	Total
				ORIGIN/	L				
1990-91	7,543.6	7,743.0	2,257.4	10,000.3	1,827.5	6,327.1	9,070.7	17,627.8	20,898.6
1991-92	8,781.7	9,045.2	2,745.7	11,791.0	1,893.9	5,057.2	7,629.9	17,971.3	21,314.8
1992-93	9,875.9	10,151.8	3,720.3	13,872.1	2,000.4	5,466.0	8,206.7	20,726.9	24,079.3
1992—									
Sept. qtr.	2,589.8	2,620.7	750.9	3,371.7	528.0	1,285.8	1,718.2	5,093.3	5,617.9
Dec. qtr.	2,502.9	2,563.9	834.4	3,398.2	508.1	1,396.4	2,265.0	5,147.4	6,171.3
1993—									
Mar. qtr.	2,283.0	2,376.9	1,163.6	3,540.5	457.4	1,371.0	2,056.7	5,197.8	6,054.6
June qtr.	2,500.2	2,590.2	971.5	3,561.7	507.0	1,412.8	2,166.7	5,288.4	6,235.4
Sept. qtr.	2,745.3	2,799.6	1,026.4	3,826.0	552.1	1,741.5	2,514.8	6,035.2	6,892.9
Dec. qtr.	2,569.2	2,626.7	937.6	3,564.3	524.4	1,408.2	2,212.1	5,431.8	6,300.9
			SEA	SONALLY A	DJUSTED				
1992—									
Sept. qur.	2,473.9	2,512.2	n.a.	3,262.1	495.8	n.a.	1,792.2	4,868.7	5,552.2
Dec. qtr.	2,468.7	2,546.3	n.a.	3,424.1	496.9	n.a.	2,169.5	5,264.8	6,141.4
19 <del>93</del> —									
Mar. qtr.	2,463.9	2,564.1	п.а.	3,827.6	496.1	n.a.	2,179.9	5,516.2	6,453.1
June qtr.	2,470.9	2,538.0	D.a.	3,444.2	512.0	п.а.	2,088.1	5,152.0	6,019.8
Sept. qtr.	2,608.3	2,673.1	n.a.	3,686.8	515.2	n.a.	2,615.8	5,828.7	6,788.9
Dec. qtr.	2,548.2	2,619.9	n.a.	3,627.0	516.0	n.a.	2,122.9	5,470.7	6,306.7

<sup>(</sup>a) See paragraphs 25-27 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 7. NEW DWELLING UNITS APPROVED, BY TYPE AND STATE, JANUARY 1994

					Other resident	ial building				
	_		oched, row or ter townhouses, etc.		Flats, u	nits or apartm	ents in a building	ર ૦∫	Total	
State	Houses	l storey	2 or more storeys	Total	1-2 storeys	3 storeys	4 or more storeys	Total		Total residential building
·-			NU	MBER OF	OWELLING UN	NTTS			_	-
NSW	2,039	609	177	786	177	150	418	745	1,531	3,570
Vic.	1,802	216	21	237	_	_	144	144	381	2,183
Qld	2,520	213	345	558	125	189	173	487	1,045	3,565
SA	605	107	20	127			_	<del>-</del>	127	732
WA	1,104	409	30	439	_	_	_		439	1,543
Tas.	233	111		111	_	_	_	_	111	344
NT	136	14	_	14	2	_	_	2	16	152
ACT	106	56	153	209	346	24	_	370	579	685
Australia	8,545	1,735	746	2,481	650	363	735	1,748	4,229	12,774
				VAL	UE (\$m)					
NSW	214.7	41.4	15.9	57.3	13.2	14.3	34.6	62.1	119.4	334.1
Vic.	161.5	17.5	2.2	19.7	_	_	22.0	22.0	41.7	203.2
Qld	219.5	13.0	22.7	35.7	7.8	15.5	14.4	37.7	73,4	292.9
SA	43.6	6.6	1.4	8.0	_	_	_	_	8.0	51.5
WA	86.0	23.3	2.6	25.9	_		_	_	25.9	111.9
Tas.	19.2	6.8	_	6.8	_	_	_		6.8	26.0
NI	19.3	1.0	_	1.0	0.1		_	0.1	1.1	20.4
ACT	12.2	4.5	14.1	18.6	18.9	3.5	_	22.4	41.0	53.3
Australia	<del>7</del> 76.0	114.0	58.9	172.9	40.1	33.3	71.0	144.4	317.2	1,093.3

# TABLE & DETAILS OF BUILDING APPROVED, JANUARY 1994

			N.	New residential building	al buildin	ŝ							Val	Value (Sm)						
Number   Number   Number   Number   Annels   A		Hous	23.	Other resi	idential ngs	Tot	Ti.	Alterations					Non-resi	dential bu	ilding					
1,995   210.3   1,484   115.5   34.79   33.58   66.4   61   14.9   11.6   45.5   6.2   6.6   11   3.3   31.3   11.1   12.6     1,785   1993   29.2	State	Number of dwelling units	Value (Sm)	Number of dwelling units	Value (\$m)	Number of dvelling writs	Value (Sm.)	and additions to residential buildings	Hotels,	Shops	वटाणम्ब	Offices	Other bus- iness pre- E mises	iducati- R onal	eligi- ous		Entertai- rment and recreati- onal	Miscel- laneous	Total	Total building
1,985   2103   1,484   1185   3,479   3258   6644   61   14.9   116   495   6.5   6.6   11   133   173   111   120   32   455   178   112   120   32   455									PRIV,	VTE SEC	TOR									
1,755   1603   2.65   2.25   2.051   19.25   3.64   0.2   1.5   5.5   5.5   1.6   2.7   0.5   2.7   0.5   2.7   0.5   2.7   0.5	WS:W	1,995	210.3	1,484	115.5	3,479	325.8	66.4	6.1	14.9	11.6	49.5	6.2	6.6	11	33	17.3	1:1	127.6	519.7
2479 2157 1034 727 3513 2884 116 12 185 58 88 84 51 06 6 5 2 0 10 10 10 10 10 10 10 10 10 10 10 10 1	Vic.	1,785	160.3	266	32.2	2,051	192.5	36.4	0.2	7.5	8.7	5.5	10.8	2.7	0.5	2.5	1.9	3.2	43.6	272.
10	PE,	2,479	215.7	1,034	727	3,513	288.4	13.6	1.2	18.5	5.5	œ œ	8.4	5.1	970	3.2	3.5	2.8	57.7	359.7
1,091   84.8   398   23.5   1,489   1082   103   0.6   4.3   3.5   4.1   6.9   5.0   0.8   6.4   1.0   12   3.1     1,091   84.8   398   23.5   23.5   23.6   12.5   10.3   1.0	S.A.	574	42.0	113	7.3	687	49.3	6.5	0.1	1.7	1.1	3.7	2.4	1.4	1	44 7.0	1.7	0.1	16.7	75.6
123   184   65   345   288   220   340   14   52   01   01   01   01   02   0   0   01     106   1122   579   410   685   533   47   0   04   0   0   0   0   0   0   0	MΑ	1,091	84.8	398	23.5	1,489	108.2	10.3	9.0	4.3	3,0	4.1	6.9	5.0	8.0	6,4	1.0	1.2	33.1	151.6
1,	Fas.	523	18.4	\$ :	3.6	288	22.0	3.0	1	0; ;	1,4	5.2	0.1	1;	0.1	2.9	1:	1;	10.5	Ж. :
## 8.345   7502   3,955   296-8   12,280   1947.1   1448   8.1   48.9   318   79.1   34.7   21.0   34.5   23.8   27.9   187   30.27    ### 45	ָּבֶּלְ בָּלֶ	7 201	12.2	67.5	1.1	2 % 2 %	9.75	0.7 4.7		Q 6	0.6 	2.0		3 3	1.0	8 e	97	0.3	V &	(13.7) (1.7)
He 45 47 39 91 83 02 04 03 53 34 364 — 756 22 74 1313  11 11 113 95 122 106 011 011 09 03 25 12 23 — 93 — 24 217  13 11 11 11 07 52 4.5 — — 26 011 87 — — 04 04 04 32  13 116 14 07 45 22 — 4 0 011 — — 01 33 05 — — 04 01 87  10 0 8 40 32 56 40 011 — — 01 33 05 — — 04 01 87  10 0 8 40 32 56 12 87 — — 01 34 05 — 04 01 87  10 0 8 40 32 56 12 87 — — 01 12 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 wet ratio	8,325	7502	3,955	296.8	12,280	1,047.1	1448	8.1	48.9	31.8	762	34.7	21.0	3.6	28.8	27.9	18.7	302.7	1.494.5
14   45   47   39   91   83   02   04   04   03   53   34   364   -756   22   74   1313     41   38   11   07   32   4.5   -0   -0   0.4   0.9   0.3   2.5   2.2   -0   0.4   3.6     41   38   11   0.7   32   4.5   -0   -0   -0   0.1   2.3   -0   0.4   3.6     42   31   1.6   14   0.7   45   2.2   -0   -0   -0   0.1   2.3   -0   0.4   3.6     43   1.1   0.1   2.4   3.4   3.7   0.1   -0   -0   0.1   3.3   0.5   -0   -0   0.4   3.1     44   3.8   44   3.4   3.4   4.5   2.2   -0   -0   -0   0.1   8.7   -0   -0   0.4   3.1     45   1.28   -0   -0   -0   -0   -0   -0   -0   -									PITE	IC SECT	a č									
14   4.5   4.7   3.9   91   8.3   0.2   0.4   0.4   0.3   5.3   3.4   3.64   -75.6   2.2   7.4   131.3     15   11   115   9.5   122   10.6   0.1   0.1   0.9   0.3   2.5   1.2   5.2   -9.3   -9.3   -2.4   21.7     15   1.6   1.4   0.7   4.5   2.2   -7.4   0.1   2.3   0.5   -7.5   0.1   2.3   -7.5   0.1   4.3     16   1.8   4.1   2.4   3.4   3.7   0.1   -7   -7   -7   -7   0.1   3.3   0.5   -7   -7   0.4   0.1   4.3     17   1.1   1.3   1.3   4.1   2.4   3.4   3.7   0.1   -7   -7   -7   -7   0.1   3.3   0.5   -7   -7   0.4   0.1   4.3     18   1.3   1.3   1.3   1.3   4.4   2.4   4.5   0.5   0.5   0.5   0.5   0.5   0.5   0.5   0.5   0.5   0.5     18   2.0   2.58   2.74   2.64   4.62   0.5   0.5   0.5   0.5   0.5   0.5   0.5   0.5   0.5     18   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0     18   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0     19   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0     10   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0     10   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0     10   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0     11   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0     12   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0     12   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0     13   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0     14   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0     15   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0   2.0     15   2.0   2																				
17	WS.W	4	4.5	47	3.9	16	86.3	0.2	0.4	0.4	0.3	5,3	3.4	36.4	I	75.6	2.2	7.4	131.3	139.8
41   38   11   07   52   45         04   01   23       04   36   36   31   36   31   36   31   36   31   36   31   31	/ic.	17	1	115	9.5	132	10.6	0.1	0.1	6.0	0.3	2.5	1.2	5.2	1	9.3	١	2.4	21.7	32.
11   16   14   07   45   22	₽	4	ee m	Ξ	0.7	22	4.5	-	I	1	1	6,4	0.1	23	1	I	0.4	0,4	3.6	90
13 1.3 41 2.4 3.4 3.5 4 4 3.7 0.1 0.1 3.3 0.5 0.4 0.1 4.3  64 1.28	< :	33	1.6	<u> </u>	0.7	<b>4</b>	2.2	1.	1	1	} .	5.6	0.1	 00	{	i	1	1	11,4	5
126	ڊ ج ×	13	1.3	41	2.5	<b>2</b> 2	F 6	T 0	i		0.1 O	3.3	0.5		I		0.4	0.1	41 - 60 6	ovi v
203 214.7 1,531 119.4 3,570 334.1 6.6.6 6.5 15.3 11.8 54.8 9.5 43.0 1.1 78.8 19.6 11.8 2.0 2.3 11.1 6.8 24.2 5.0 2.1 11.1 6.8 24.2 5.0 2.2 11.1 6.8 24.2 5.0 2.2 11.1 6.8 24.2 5.0 2.2 11.1 6.8 24.2 5.0 2.2 11.1 6.8 24.2 5.0 2.2 11.1 6.8 24.2 5.0 2.2 11.1 6.8 24.2 5.0 2.2 11.1 6.8 24.2 5.0 2.2 11.1 6.8 24.2 5.0 2.2 11.1 6.8 24.2 5.0 2.2 11.1 6.8 24.2 5.0 2.2 11.1 6.8 24.2 5.0 2.2 11.1 6.8 24.2 5.0 2.2 11.1 6.8 24.2 5.0 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2.2 2	i k	3 2	9 6	7	7.5	3 2	, t	10	1		l		7:1				l	7.0	C.1	i ç
TOTAL   1,531   119.4   3,570   334.1   66.6   6.5   15.3   11.8   54.8   9.5   43.0   1.1   78.8   19.6   18.4   258.8   1,802   161.5   381   41.7   2,183   203.2   35.5   0.3   84.8   8.9   8.0   12.0   7.9   0.5   11.8   19.9   5.5   65.3   6.13   6.05   43.6   12.7   8.0   732   51.5   9.7   0.1   1.7   1.1   6.3   2.5   10.1	ָּכָּ <u>ן</u>	5	1			5		H		1 1	i I	80.5		%				5 5	89.3	89.3
2,039         2147         1,531         119.4         3,570         334.1         66.6         6.5         15.3         11.8         54.8         9.5         43.0         1.1         78.8         19.6         18.4         258.8           1,802         161.5         381         41.7         2,183         203.2         36.5         0.3         8.4         8.9         8.0         12.0         7.9         0.5         11.8         1.9         55.5         65.3           2,520         219.5         1,045         73.4         3,565         292.9         13.6         1.2         18.5         5.5         9.2         8.5         7.4         0.6         3.2         3.9         3.3         61.3           605         43.6         127         8.0         73         7.4         0.6         3.2         9.3         3.4         1.2         1.8         1.2         1.2         1.2         1.2         1.2         1.2 <td>lustralia</td> <td>220</td> <td>25.8</td> <td>274</td> <td>20.4</td> <td>494</td> <td>46.2</td> <td>0.5</td> <td>5.0</td> <td>12</td> <td>9.0</td> <td>24.5</td> <td>6.3</td> <td>61.2</td> <td>1</td> <td>84.9</td> <td>3.1</td> <td>0.11</td> <td>263.3</td> <td>309.9</td>	lustralia	220	25.8	274	20.4	494	46.2	0.5	5.0	12	9.0	24.5	6.3	61.2	1	84.9	3.1	0.11	263.3	309.9
2,039         214.7         1,531         119.4         3,570         334.1         66.6         6.5         15.3         11.8         54.8         9.5         43.0         1.1         78.8         19.6         18.4         25.8           1,802         161.5         381         41.7         2,183         203.2         36.5         0.3         8.4         8.9         8.0         12.0         7.9         0.5         11.8         1.9         56.3         3.2         5.5         9.2         8.5         7.4         0.6         3.2         3.3         6.13         9.3         4.1         1.9         5.5         9.2         9.2         8.5         7.4         0.6         3.2         3.9         1.1         6.1         1.7         1.1         6.3         2.5         1.7         4.5         1.7         0.1         1.7         1.1         6.3         2.5         1.7         4.5         1.7         0.1         1.7         1.1         6.3         2.5         1.7         4.1         4.1         1.2         8.2         1.2         1.7         4.1         1.2         8.2         1.2         1.2         1.2         1.2         1.2         1.2         1.2										TOTAL										
1,802   161.5   381   41.7   2,183   203.2   36.5   0.3   84   8.9   8.0   12.0   7.9   0.5   11.8   1.9   5.5   65.3     2,520   219.5   1,045   73.4   3,565   292.9   13.6   1.2   18.5   5.5   9.2   8.5   7.4   0.6   3.2   3.9   3.3   61.3     605   43.6   12.7   8.0   73.2   51.5   9.7   0.1   1.7   1.1   6.3   2.5   10.1   — 4.5   1.7   0.1   28.0     1,104   8.60   43.9   25.9   1,543   111.9   10.4   0.6   4.3   3.0   7.3   7.3   5.0   0.8   6.4   1.4   1.2   37.4     1,104   8.60   43.9   25.9   1,543   111.9   10.4   0.6   4.3   3.0   7.3   7.3   5.0   0.8   6.4   1.4   1.2   37.4     1,104   8.60   1,22   1,11   1,12   1,12   1,13   1,13   1,13   1,14   1,13   1,14   1,14   1,14   1,15     1,104   8.60   1,22   57.9   41.0   685   53.3   4.7   — 0.4   — 82.7   — 8.8   0.5   5.3   — 0.2   97.7      1,104   8.645   776.0   4,29   317.2   1,2774   1,093.3   145.2   8.7   50.1   32.4   173.6   41.0   82.2   3.6   113.7   31.0   29.7   56.60     1,20   1,20   1,20   1,20   1,20   1,20   1,20   1,20   1,20   1,20   1,20   1,20   1,20     1,20	NS!	2,039	214.7	1,531	119.4	3,570	334.1	9'99	6.5	15.3	11.8	8.8	9.5	43.0	11	8.87	19.6	18.4	258.8	5.659.5
2,220         2,193         1,542         3,54         3,550         2,229         13,60         1,22         8,53         7,4         400         3,4         3,9         3,53         61,3           6.05         43,6         127         8,0         732         51,5         9,7         0,1         1,7         1,1         6,3         2,5         10,1         —         4,5         1,7         0,1         280           1,104         8,60         439         25,9         1,543         111.9         10,4         0,6         4,3         3,0         0,8         6,4         1,4         1,2         37,4           1,104         8,60         439         25,9         1,543         111.9         10,4         0,6         4,3         3,0         0,8         6,4         1,4         1,2         37,4           1,23         19,2         111         6,8         24,0         3,1         1,4         1,2         3,6         1,8         2,6         0,8         2,6         1,8         3,6         1,8         3,6         1,8         3,6         3,6         3,6         3,7         4,7         —         0,4         —         8,2         3,6 <t< td=""><td>į į</td><td>1,802</td><td>161.5</td><td>38.</td><td>41.7</td><td>2,183</td><td>203.2</td><td>36.5</td><td>0.3</td><td>∞, 4 4 /</td><td>6 i</td><td>0.6</td><td>12.0</td><td>7.9</td><td>50</td><td>11.8</td><td>1.9</td><td>5.5</td><td>65.3</td><td>304.9</td></t<>	į į	1,802	161.5	38.	41.7	2,183	203.2	36.5	0.3	∞, 4 4 /	6 i	0.6	12.0	7.9	50	11.8	1.9	5.5	65.3	304.9
1,104   86.0   439   25.9   1,543   111.9   104   0.6   4.3   3.0   7.3   5.0   0.8   6.4   1.4   1.2   37.4   1.1   6.8   3.4   2.6   3.1   2.9   - 0.2   1.1   2.9   - 0.2   1.1   1.5   2.0	₹.:	077	7.617	1	1 0	ָ מַלְי	6.45	13,0	4.	7 .	7 :	7.7	Q 4	4, 6	0.5	4.0	A .		6.10 6.10 6.10 6.10	200
233 192 111 6.8 344 26.0 3.1 — 1.0 1.4 5.2 1.2 — 0.1 2.9 — 0.2 11.8 136 19.3 16 1.1 152 20.4 0.7 — 0.5 0.6 0.2 — 0.1 0.1 0.8 2.6 0.8 5.6 1.8 5.6 1.2 579 41.0 685 53.3 4.7 — 0.4 — 82.7 — 8.8 0.5 5.3 — 0.2 97.7 174 1,093.3 145.2 8.7 50.1 32.4 173.6 41.0 82.2 3.6 113.7 31.0 29.7 566.0	ς <b>Υ</b>	10 8	86.0	439	25.9	1543	111.9	104	7.0	<b>4</b>	3.0	2.6	73	10.1	%	4 A	1.1	- 6-	37.4	6 5
. 136 19.3 16 1.1 152 20.4 0.7 — 0.5 0.6 0.2 — 0.1 0.1 0.8 2.6 0.8 56 0.8 56 0.1 0.1 0.8 2.6 0.8 56 0.1 0.1 0.8 2.6 0.8 5.3 — 0.2 0.1 0.1 0.8 5.3 — 0.2 9.7 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1 0.1	35.	233	19.2	111	9	***	26.0	3.1		0.1	1.4	5.2	17		10	5.9	.	0.2	11.8	40.9
106 122 579 41.0 685 53.3 4.7 — 0.4 — 82.7 — 8.8 0.5 5.3 — 0.2 97.7 ralia 8,545 776.0 4,229 317.2 12,774 1,093.3 145.2 8.7 50.1 32.4 173.6 41.0 82.2 3.6 113.7 31.0 29.7 56.0	F	138	19.3	16	1:	152	20.4	0.7	I	5	9.0	0.2	!	0.1	170	80	5.6	0.8	5.6	
8,545 776.0 4,229 317.2 12,774 1,093.3 145.2 8.7 59.1 32.4 173.6 41.8 82.2 3.6 113.7 31.0 29.7 566.0	<b>A</b> CT	106	122	579	41.0	685	53.3	4.7	I	4.0		82.7	I	90 90	0.5	5.3	I	0.2	1.79	155.7
	Australia	8,545	776.0	4,229	317.2	12,774	1,093.3	145.2	7.80	50.1	32.4	173.6	41.0	82.2	3.6	113.7	31.0	29.7	566.0	1,804.5

TABLE 9. VALUE OF BUILDING APPROVED, BY CLASS OF BUILDING AND OWNERSHIP (\$ million)

Class of building			July-Janu		1993		1994
	1991-92	1992-93	1992-93	1993-94	November	December	Јапиот
		PRIVATE:	SECTOR				
New houses	9,113.0	10,319.3	5,956.0	6,383.8	966.3	864,8	750.2
New other residential buildings	2,060.3	3,091.4	1,805.2	2,044.6	330.1	242.3	296.8
<u>-</u>	11,173.3	13,410.7	7,761.2	8,428.4	1,296.4	1,107.1	1,047.1
Total new residential building	11,173.0	15,410.7	7,7072	6 A26 A	1,250.4	2,207.1	1,047.1
Alterations and additions to					400.0		
residential buildings	1,954.8	2,071.4	1,205.4	1,283.3	197.7	167.5	144.8
Hotels, etc.	399.0	226.3	133.9	354.8	20.8	12.2	8.1
Shops	787.7	1,114.7	573.4	756.7	64.8	102.5	48.9
Factories	651.9	716.2	433.9	298.6	61.2	39.8	31.8
Offices	1,196.0	943,4	579.6	487.5	79.7	52.6	79.1
Other business premises	566.6	697.3	395.4	352.0	66.5	56.2	34,7
Educational	237.2	277.4	176.3	202.6	35.5	19.7	21.0
Religious	79.4	88.0	54.6	52.3	5.5	4.9	3.6
Health	249.4	318.7	1 <b>76.6</b>	292.1	37.9	95.5	28.8
	371.0	441.9	284.0	221.8	26.0	58.3	27.9
Entertainment and recreational		•		204.6	26.6	15.9	18.7
Miscellaneous	207.3	243.8	141.5				
Total non-residential building	4,745.4	5,067.7	2,949.2	3,223.1	<b>424</b> .5	457.5	302.7
Total	17,873.5	20,549.8	11,915.8	12,934.8	1,918.6	1,732.1	1,494.5
		PUBLIC S	ECTOR				
	ner e	5045		1447	10.0	22.5	AF 0
New houses	275.6	286.5	131.9	144.7	19.0	22.5	25.8
New other residential buildings	557.1	424.2	227.3	131.3	22.8	15.1	20.4
Total new residential building	832.7	710.7	359.2	276.0	41.8	37.6	46.2
Alterations and additions to							
residential buildings	19.1	17.1	7.5	5.3	0.6	0.5	0.5
Hotels, etc.	7.3	7.7	3.4	5.4	0.7	2.1	0.5
Shops	97.6	30.5	20.5	22.1	1.3	1.0	1.2
Factories	53.0	18.3	12.8	20.1	4,6	2.2	0.6
Offices	549.7	543.9	256.0	360.5	15.8	37.7	94.5
	208.1	129.6	84.8	300.4	24.6	179.1	6.3
Other business premises	693.1	750,7	446.7	482.4	61.6	71.7	61.2
Educational Policieus	- UF 3. 1				UI.U		
Religious Health	248.2	535.1	381.1	358.6	113.7	3.3	84.9
Entertainment and recreational	305.6	342.0	104.6	84.2	13.3	5.1	3.1
	300.7	251.1	148.5	102.3	12.5	7.7	11.0
Miscellaneous			1.458.3	1,736.0	248.1	310.0	263.3
Total non-residential building	2,463.3	2,608.8	1,400	1,73030	240.1	310.0	200.0
Total	3,315.1	3,336.6	1,824.9	2,017.3	290.5	348.1	309.9
		TOT	AL				
New houses	9,388.5	10,605.7	6,087.9	6,528.5	985.3	887.3	776.0
New other residential buildings	2,617.4	3,515.6	2,032.5	2,176.0	352.9	257.4	317.2
Total new residential building	12,005.9	14,121.4	8,120.4	8,704.4	1,338.2	1,144.7	1,093.3
<del>-</del>							
Alterations and additions to residential buildings	1,973.9	2,088.6	1,212.9	1,288.6	198.3	168.1	145.2
restantiati outuurga	1,773.7	2,000.0	1,2121,	1,200.0	170.0		
Hotels, etc.	406.3	234.0	137.4	360.1	21.5	14.3	8.7
Shops	885.2	1,145.1	593.9	778.8	<b>66</b> .1	103.5	50.1
Factories	704.9	734.5	446.7	318.7	65.8	41.9	32.4
Offices	1,745.7	1,487.3	835.6	848.0	95.5	90.3	173.6
Other business premises	774.7	826.9	480.2	652.5	91.1	235.3	41.0
Educational	930.3	1,028.1	623.0	685.1	97.2	91.5	82.2
Religious	79.4	88.0	54.6	52.3	5.5	4.9	3.6
Health	497.5	853.8	557.6	650.7	151.6	98.8	113.7
Entertainment and recreational	676.6	783.9	388.7	306.0	39.4	63.4	31.0
Miscellaneous	508.0	494.9	290.0	306.9	39.2	23.6	29.7
Total non-residential building	7,208.7	7,676.5	4,407.5	4,959.1	672.7	767.4	566.0
m	A4 400 F	41 807 4	13 740 0	14 023 1	2 200.2	7 898 7	1 24.4
Total	21,188.5	23,886.4	13,740.8	14,952.1	2,209.2	2,080.2	1,804.5

TABLE 10. NON-RESIDENTIAL BUILDING JOBS APPROVED, BY CLASS OF BUILDING AND VALUE SIZE GROUPS

	\$50,000 to than \$200,		\$200,000 to than \$500;		\$\$00,000 to than \$1 n		\$1 m to les than \$5 m		\$5m and over	! 	Total	
Period	No.	Value (\$m)	No.	Value (\$m)	No.	Value (\$m)	No.	Value (\$m)	No.	Value (\$m)	No.	Value (Sm)
					HOTELS,	ETC.						
1993 November	26	2.5	13	3.8	8	5.1	3	5.1	1	5.0	51	21.5
December	18	1.6	8	2.3	3	2.4	4	8.0	_	_	33	14.3
1994 January	22	2.2	9	2.9	2	1.3	1	2.2			34	8.7
					SHOR						0.00	
1993 November	246	23.1	51	14.6	13	8.9	12 14	19.6 26.7	_	40.1	322 253	66.1 103.5
December 1994 January	172 140	14.6 12.7	54 40	15.5 12.1	11 10	6.6 7.2	9	18.0			199	50.1
1994 January	140	141						10.0				
(And by	07	101	50.	14.6	FACTOI	RIES 10.4	10	24.7	1	6.0	174	65.8
1993 November December	97 91	10.1 9.2	50 47	14.6 14.2	10	6.6	8	12.0	_		156	41.9
1994 January	76	7.4	30	8.5	7	4.5	7	12.0	_	_	120	32.4
	1				OFFIC	ES				· · ·		
1993 November	192	18.6	42	11.3	19	12.9	16	34.0	3	18.7	272	95.5
December	134	12.8	42	12.1	18	11.3	14	33.7	3	20.4	211	90.3
1994 January	133	13.1	32	9.3	17	12.1	14	24.5	2	114.5	198	173.6
				OT	HER BUSINES	SS PREMIS	ES					
1993 November	142	13.6	56	16.2	18	12.2	14	25.5	2	23.5	232	91.1
December	122	11.8	36	11.0	. 12	8.2	10	22.3	2	182.0	182	235.3
1994 January	84	8.1	42	12.0	15	10.6		10.3			147	41.0
					EDUCATI							
1993 November	70	8.1	34	10.1	19	13.6	15 13	26.7 23.4	5 5	38.7 39.0	143 1 <del>44</del>	97.1 91.5
December 1994 January	81 51	7.9 4.5	26 26	8.1 8.0	19 15	13.0 9.6	18	37.9	3	22.3	113	82.1
					RELIGI	OUS	•					
1993 November	14	1.4	8	2.3	2	1.8					24	5.:
December	18	1.9	8	2.4	1	0.7	_	_	_		27	4.9
1994 January		0.5	3	1.1		2.0		-			12	3.0
					HEAL	тн					.=.	
1993 November	26	3.0	15	4.5	8	6.3	9	17.4	6	120.4	64	151.0
December	30	2.9	11	3.3 3.4	7 5	4.3 3.3	10 11	23.3 22.9	2 2	65.0 80.3	60 66	98.0 113.1
1994 January	37	3.8	11	3.4		د.د		21.9		60.3		
					AINMENT AN							70
1993 November December	59 32	5.6 3.0	18 17	5.4 5.0	6 9	4.2 6.2	11 7	24.2 11.1	_ 1	 38.0	94 66	39.4 63.4
1994 January	37	3.3	13	4.0	6	4.1	7	12.6	1	7.0	64	31.0
	<u></u>				MISCELLA	NEOUS						
1993 November	59	6.0	30	9.2	13	8.9	7	15.2			109	39.
December	42	3.7	30	9.5	3	2.1	5	8.3	_	-	80	23.
1994 January	44	4.7	15	4.3	6	3.5	9	17.2			74	29.
				TOTAL	NON-RESIDE	NTIAL BU	ILDING					
1993 November	931	92.0	317	91.9	122	84.0	97	192.4	18	212.3	1,485	672.
December	740	69.3	279	83.3	93	61.5	85	168.8	15	384.6	1,212	767.
1994 January	630	60.5	221	65.7	86	58.2	82	157.6	8	224.1	1,027	5 <b>66</b> .

TABLE 11. SUMMARY OF BUILDING APPROVED

Period	NSW	Vic.	QId	SA	WA	Tas.	NT	ACT	Australia
			NUMBER	OF DWELLING	UNITS				
1992-93	48,497	29,571	47,785	12,312	22,479	4,094	1,480	4,339	170,557
1993								212	V 052
January	3,674	2,090	3,129	811	1,595	311	100	247	11,957
October	3,799	2,642	4,537	858	2,086	351	129	233	14,635
November	4,541	2,745	4,780	1,014	2,359	410	77	235	16,161
December	3,257	2,436	4,090	925	2,289	371	60	265	13,693
19 <del>94</del> —	- 4		n r/c	500	1.542	- 344	152	685	12,774
January —	3,570	2,183	3,565	732	1,543	344	132	000	
		v	ALUE OF NEW	RESIDENTIAL	BUILDING (\$m)	)		<del>-</del>	<del></del>
1 <b>992</b> -93	4,632.2	2,494.1	3,829.6	840,9	1,519.4	275.3	127.2	402.7	14,121.4
1993—	592.2	167,7	251.8	54.8	105.5	21.7	7.8	22.2	1,223.8
January		227.3	376.0	57.8	151.5	23.6	12.2	23.7	1,208.2
October	336.2		384.0	73.4	167.8	33.4	6.7	23.1	1,338.2
November	415.0	234.8		66.5	164.3	26.7	5.4	23.8	1,144.7
December	307.1	213.9	337.0	00.0	104.5	20.7	5.4	227.0	### T -1.7
1994—	334.1	203.2	292.9	51.5	111.9	26.0	20.4	53.3	1,093.3
January									
		LUE OF ALTEI	RATIONS AND	ADDITIONS TO	RESIDENTIAL	BUILDINGS (\$	m) 		-
1 <del>992-93</del>	965.0	533.0	212.9	1 <b>32.6</b>	137.1	33.1	19.2	55.7	2,088.6
1993—	62.2	34.1	12.1	8.3	11.2	2.7	0.8	3.1	134.5
January		53.5	20.0	9.4	14.0	3.5	1.3	6.0	195.0
October	87.3		19.5	11.7	13.0	3.3	1.3	6.4	198.3
November	87.4	55.7	19.3 18.7	9.3	11.7	3.5	1.0	2.7	168.1
December	67.5	53.6	18.7	9.3	11.7	5.5	1.0		
<i>1994</i> — January	66.6	36.5	13.6	9.7	10.4	3.1	0.7	4.7	145.2
			ALUE OF NON	-RESIDENTIAL	BUILDING (\$#	.)			
1000 03	3,178.2	1,406.3	1,383.9	418.4	889.6	103.1	81.1	216.0	7,676.5
1992-93	2,170.2	1,400.5	1,505.7	1201	,				
1993—	201 5	07.6	124.0	14.4	69.6	10.9	9.4	37.0	690.3
January	331.5	93.5		29.5	58.9	4,4	7.3	11.8	618.5
October	261.6	155.8	89.3	30.4	64.9	29.7	11.5	4,1	672.7
November	251.9	174.8	105.5			10.4	10.3	17.1	767.4
December	205.8	120,4	308.8	27.4	67.2	10.4	10.5	1,.1	, ,
1994—	258.8	65.3	61.3	28.0	37.4	11.8	5.6	97.7	566.0
January	250.0		<del></del>						
	<u> </u>		VALUE O	F TOTAL BUIL	DING (\$m)				<del></del> -
1992-93	8,775.4	4,433.4	5,426.3	1,391.9	2,546.1	411.4	227.5	674.4	23,886.4
1993—	007.5	205 2	197 n	77.5	186.3	35.2	18.1	62.4	2,048.4
January	986.0	295.3	387.9 485.3	96.7	224.4	31.5	20.7	41.5	2,021.
October	685.1	436.6			245.7	66.4	19.5	33.5	2,209.
November	754.3	465.3	508.9 464.6	115.5 10 <b>3</b> .1	243.7	40.6	16.7	43.6	2,080.
December	580.4	388.0	664.6	103.1	A-1.4	TVIV			_,
1994—	659.5	304.9	367.8	89.2	159.6	40,9	26.7	155.7	1,804
January	0.77.3	.s. <del>.,</del> , 3	20110						

#### EXPLANATORY NOTES

#### Scope and coverage

This publication contains monthly details of building work approved. Statistics of building work approved are compiled from:

- (a) Permits issued by local government authorities in areas subject to building control by those authorities; and
- (b) Contracts let or day labour work authorised by Commonwealth, State, semi-government and local government authorities.

Major building activity which takes place in areas not subject to the normal administrative approval processes (e.g. buildings on remote mine sites) is also included.

- 2. 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 from this publication, but can be found in *Engineering Construction Activity*, *Australia* (8762.0).
- 3. In relation to work carried out on existing buildings, the statistics include details of non-structural renovation and refurbishment work and the installation of integral building fixtures, for which building approval was obtained.
- 4. From July 1990, the statistics cover:
  - (a) all approved new residential building jobs valued at \$10,000 or more.
  - (b) approved alterations and additions to residential buildings valued at \$10,000 or more.
  - (c) all approved non-residential building jobs valued at \$50,000 or more.

#### **Definitions**

- 5. 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.
- 6. 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 approved.

- 7. 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 as follows:
  - (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.).
- 8. The number of dwelling units created by alterations and additions to existing buildings, and through the construction of new non-residential buildings, is not included in the tables but is shown as a footnote to Table 1.
- 9. Values data are derived by aggregation of the estimated value (when completed) of building work (excluding value of land and landscaping but including site preparation) as reported on approval documents. For 'houses', these estimates are usually a reliable indicator of the completed value of the building. However, for 'other residential buildings' and 'non-residential buildings' these estimates can differ significantly from the completed value of the building.

#### **Building classification**

- 10. 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.
- 11. Functional classification of buildings. A building is classified according to its intended major function. 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.
- 12. From July 1992, an expanded functional classification of buildings based on the Dwelling Structure

Classification (DSC) has been introduced by the ABS to provide more detailed information on residential building approvals.

- 13. The DSC has been developed by the ABS to provide a standard classification of the different types of dwelling structures (houses, flats, townhouses, etc.). The DSC will be implemented across all major collections of housing data in the ABS. The DSC has the same overall scope as the classification used in previous collections but provides more detail than previously available to reflect the current interest in medium to high density housing.
- 14. In particular, for Building Approvals, DSC allows new other residential building to be classified as follows:
  - (a) Semi-detached, row or terrace houses, townhouses, etc. (dwellings having their own private grounds and no other dwellings above or below) with:
    - one storey;
    - two or more storeys.
  - (b) Flats, units or apartments, etc. dwellings not having their own private grounds and usually sharing a common entrance, foyer or stairwell) in a building of:
    - one or two storeys;
    - three storeys;
    - four or more storeys.
- 15. More details on the DSC are contained in the ABS Information Paper, Dwelling Structure Classification (DSC) (1296.0).

#### General

16. For purposes of comparison, it should be noted that statistics of building approvals are affected from month to month by large projects (such as blocks of flats and multi storey office buildings) approved in particular months and also by the administrative arrangements of government authorities.

#### Seasonal adjustment

- 17. Seasonally adjusted building statistics are shown in Tables 3 and 5. In these 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 month) and the effect of movement in the date of Easter which may, in successive years, affect figures for different months. Details of the methods used in seasonally adjusting the series are available on request.
- 18. 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.
- 19. Seasonal adjustment may be carried out by various methods and the results may vary slightly according to the procedure adopted. Accordingly, seasonally adjusted statistics should not be regarded as in any way definitive. In interpreting particular seasonally adjusted statistics it is important to bear in mind the methods by which they have been derived and the limitations to which the methods used are subject.
- 20. Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences on the series may be more clearly recognised. Seasonal adjustment procedures do not aim to remove the irregular or non-seasonal influences which may be present in any particular month, such as the effect of the approval of large projects or as a consequence of the administrative arrangements of approving authorities. Irregular influences that are highly volatile can make it difficult to interpret the movement of the series even after adjustment for seasonal variation.
- 21. The seasonally adjusted series can, however, be smoothed to reduce the impact of the irregular component in the adjusted series. This smoothed seasonally adjusted series is called a trend estimate. There are a number of ways of accomplishing this, depending on the intended uses of the trend estimate. If importance is attached to measuring the underlying change in the most recent periods, moving averages employing appropriate weighting patterns should be adopted; the choice of averaging technique will determine in part the degree of smoothness of the derived series. For example, a 23-term moving average will generally even out more of the short term fluctuation in a series (and therefore appear 'smoother') than will a 13-term moving average. However, the longer the term of the moving average the longer the time series affected by revisions resulting from more recent data. In order to ensure that the underlying trend-cycle of a series is reflected in the trend estimate, the degree of smoothness alone cannot always be used as the sole criterion in determining which moving average is appropriate.
- 22. Trend estimates of building statistics are shown in Tables 4 and 5. Each of the component trend series shown has been derived independently. As with the seasonally adjusted series, the component trend series should not be subtracted from the total to derive unpublished components. The trend estimates have been derived by applying a 13-term Henderson-weighted moving average to all except the last six months of the corresponding seasonally adjusted series.
- 23. The last six monthly trend estimates are obtained by applying surrogates of the Henderson-weighted averages to the seasonally adjusted series. (Further details concerning trend estimates in general, and the "end-point problem" in particular, can be obtained from the information paper A Guide to Smoothing Time Series Estimates of Trend (1316.0)). As additional observations become

available, the provisional trend estimates for the latest six months will be revised.

24. Revisions to trend estimates will also occur with revisions to original data and as a result of the re-estimation of the seasonal factors.

#### Estimates at constant prices

- 25. Estimates of the quarterly value of building approvals at average 1989-90 prices are presented in original and seasonally adjusted terms for Australia in Table 6. (Note: monthly value data at constant prices are not available).
- 26. 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'.
- 27. 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).

## Unpublished data and related publications

- 28. The ABS can also make available certain building approvals 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. A charge may be made for providing unpublished information in these forms.
- 29. Users may also wish to refer to the following publications which are available on request:

Building Activity, Australia: Dwelling Unit Commencements, Preliminary (8750.0) — issued quarterly

Building Activity, Australia (8752.0) — issued quarterly

Engineering Construction Activity, Australia (8762.0) — issued quarterly

Construction Activity at Constant Prices, Australia (8782.0) — issued quarterly

Housing Finance for Owner Occupation, Australia (5609.0) — issued monthly

Price Index of Materials Used in House Building, Six State Capital Cities and Canberra (6408.0) — issued monthly

Price Index of Materials Used in Building Other Than House Building, Eight Capital Cities (6407.0) — issued monthly

House Price Indexes: Eight Capital Cities (6416.0) — issued quarterly

30. 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 Publications Advice (1105.0) which lists publications to be released in the next few days. The Catalogue and Publications Advice are available from any ABS Office.

#### Next release date

31. The expected release date for the February 1994 issue of this publication is 30 March 1994. The date can be confirmed a few days prior to release by telephoning Canberra (06) 252 6067.

#### Symbols and other usages

- nil or rounded to zero.
- r figure or series revised since previous issue.
- n.a. not available
- n.y.a. not yet available
- 32. Where figures have been rounded, discrepancies may occur between sums of the component items and totals.

IAN CASTLES Australian Statistician



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