

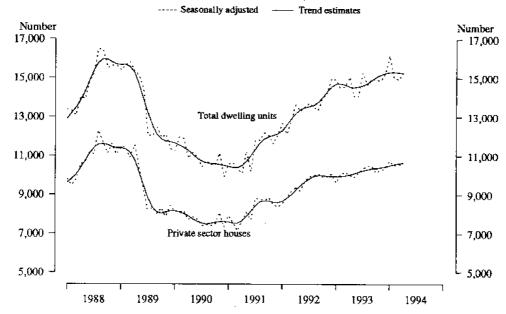
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BUILDING APPROVALS, AUSTRALIA, APRIL 1994

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 provisional trend for the total number of dwelling units approved remained flat to April 1994, at a level only slightly (4%) below that of the previous peak for this series in October 1988. The trend fell marginally (by 0.2%) in April to 15,264, following a similar fall in March and a small rise in February 1994. However, an increase of about 2 per cent in the seasonally adjusted number of total dwellings approved in May 1994 would see the trend revised to show continual growth from May 1993. The historical average monthly movement of this series, regardless of sign, is 4 per cent. A 4 per cent decline in the May seasonally adjusted estimate of dwelling unit approvals would see the trend in decline for the four months to May 1994.

The provisional trend for the *number of private sector* houses approved continued to display consistent growth to April 1994, as it has done since January 1993. The trend rose by 0.5 per cent in April, following similar growth in March and February 1994. However, there would only need to be a fall of 1 per cent in the seasonally adjusted number of private sector houses approved in May 1994 for the trend to level off. The historical average monthly movement of this series is 4 per cent.

DWELLING UNITS APPROVED, APRIL 1994

		Per	centage change
	Nwnher	From previous month	From corresponding month of previous year
Private sector houses -			
Trend estimate	10,663	0.5	6.3
Seasonally adjusted	10,641	0.8	6.1
Original	9,586	-18.3	1.2
Total dwelling units —			
Trend estimate	15,264	-0.2	4.7
Seasonally adjusted	15,297	2.5	1.5
Original	13,856	-16.1	-2.1

In seasonally adjusted terms, the total number of dwelling units approved rose by 2.5 per cent in April 1994 to 15,297, following falls of 0.9 per cent in March and 6.9 per cent in February 1994. Dwelling unit approvals for the three months to April 1994 are 2 per cent lower than for the three months to January 1994 but still well up on those for the same period in 1993.

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

The State estimates for the number of total dwelling units approved are displaying volatility which makes analysis of the trends more difficult. However, in broad terms, the trends in dwelling unit approvals are showing growth in New South Wales and Victoria, are flat in Queensland and South Australia and declining in Western Australia and Tasmania.

Value of building approved

The provisional trend for the value of total building approved continues to grow to April 1994. However, a fall of about 2 per cent in the seasonally adjusted value of total building approved in May 1994 would halt this growth. The historical average monthly movement of this series is 9 per cent.

The provisional trend series for the value of new residential building approved has almost flattened to April following consistent growth since May 1993. Unless there is an increase of more than 3 per cent in the seasonally adjusted series in May 1994, the trend will begin to decline. The historical average monthly movement of this series is 4 per cent.

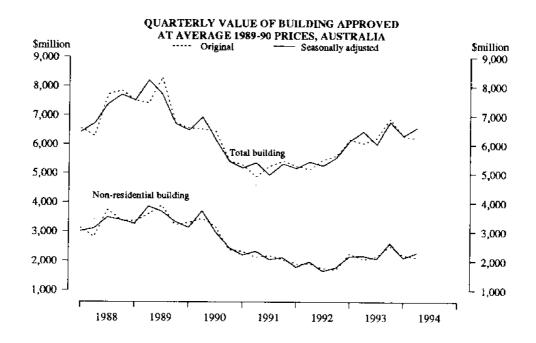
The provisional trend for the value of approved alterations and additions to residential buildings which had shown signs of levelling out, has been revised, on the basis of a 7.4 per cent increase in the seasonally adjusted estimate in April, to again show a pattern of sustained growth since January 1991.

The provisional trend for the value of non-residential building approved to April 1994 rose for the third successive month. However, there would need to be a further increase of more than 5 per cent in the seasonally adjusted series in May 1994 for this latest growth to continue. Users are again reminded of the extreme volatility of this series caused by the approval of small numbers of very large jobs.

Value of building approved at average 1989-90 prices

In seasonally adjusted, constant price terms, the value of total building approved in the March quarter 1994 increased by 4.5 per cent over the December quarter 1993 estimate. This resulted from an increase in building work approved in all three main building categories. There was a 5.3 per cent rise in the value of new residential building approved and a 1.8 per cent increase in the value of approved alterations and additions to residential buildings. The value of non-residential building approved rose by 8.1 per cent. The value of total building approved in the March quarter 1994 was 2.1 per cent above that of the same period twelve months ago.

		average	uilding appr 1989-90 pri tage Change	ices
		qtr 1993 qtr 1994	Mar. qti Mar. q	- 1993 to tr 1994
		Seasonally		Seasonally
	Original	adjusted	Original	adjusted
New residential building Alterations and additions	1.5	5.3	2.2	-0.2
to residential buildings	-7.0	1.8	6.7	5.8
Non-residential building	-4.]	8.1	3.0	5.1
Total building	-1.2	4.5	2.8	2.1



RELIABILITY OF CONTEMPORARY TREND ESTIMATES

The tables below present trend estimates of selected building approvals series for the six months November 1993 to April 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 reliably identified. 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 (May 1994) were equal to 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 May 1994, the trend estimate for that month would be 10,816, a movement of 0.6 per cent. The monthly movements in the trend estimates for February, March and April 1994, which are currently estimated to be 0.6 per cent, 0.5 per cent and 0.5 per cent respectively, would be revised to 0.8 per cent, 0.8 per cent and 0.8 per cent. On the other hand, a 4 per cent seasonally adjusted decline in the number of private houses approved in May 1994 would produce a trend estimate for May of 10,502, a movement of -0.4 per cent, with the movements in the trend estimates for February, March and April 1994 being revised to 0.4 per cent, 0.1 per cent and -0.1 per cent, respectively.

NUMBER OF PRIVATE SECTOR HOUSES APPROVED RELIABILITY OF TREND ESTIMATES

				Revised trend esti seasonally adji		1
	Tre	nd estimate	is up 44	% on April 1994	is down 4	% on April 1994
		% change on previous month	 No.	% change on previous month		% change on previous month
1993—						
November	10,401	0.2	10,395	0.2	10,409	0.3
December	10,440	0.4	10,428	0.3	10,454	0.4
1994						
January	10,502	0.6	10,495	0.6	10,508	0.5
February	10,564	0.6	10,582	8.0	10,548	0.4
March	10,614	0.5	10,667	0.8	10,556	0.1
April	10,663	0.5	10,750	0.8	10,542	-0.1
May	n.y.a.	n.y.a.	10,816	0.6	10,502	-0.4

TOTAL NUMBER OF DWELLING UNITS APPROVED RELIABILITY OF TREND ESTIMATES

				Revised trend esti seasonally adji		4
	Tre	end estimate	is up 44	% on April 1994	is down 4	% on April 1994
	No.	% change on previous month	No.	% change on previous month	No.	% change on previous month
1993—		· · · · · · · · · · · · · · · · · · ·				
November	15,184	0.9	15,177	0.8	15,200	1.0
December	15,259	0.5	15,245	0.5	15,285	0,6
1994						
January	15,313	0.4	15,303	0.4	15,323	0.3
February	15,323	0.1	15,345	0.3	15,292	-0.2
March	15,297	-0.2	15,378	0.2	15,204	-0.6
April	15,264	-0.2	15,422	0.3	15,095	-0.7
May	n.y.a.	n.y.a.	15,473	0.3	14,980	-0.8

VALUE OF NEW RESIDENTIAL BUILDING APPROVED RELIABILITY OF TREND ESTIMATES

Revised trend estimate if May 1994 seasonally adjusted estimate Trend estimate is up 4% on April 1994 is down 4% on April 1994 % change on % change on % change on previous month s_m previous month s_m previous month Sm1993---1,273.5 1,275.7 November 1,273.5 0.91.1 December 1,282.5 0.7 1,282.1 0.7 1,286.0 0.81994__ 0.6 1,292.0 0.7 1,291.6 0.7 1,293.5 January 1.298.9 0.5 1,299.8 1,294.7 February 0.6 0.1March 1,301.7 0.2 1,305.7 0.5 1,288.8 -0.5

VALUE OF NON-RESIDENTIAL BUILDING APPROVED RELIABILITY OF TREND ESTIMATES

0.2

n.y.a.

1,310.4

1,313.2

1,278.6

1,265.1

0.4

0.2

-0.8

-1.1

1,304.2

n.y.a.

April-

May

Revised trend estimate if May 1994 seasonally adjusted estimate Trend estimate is up 19% on April 1994 is down 19% on April 1994 % change on % change on % change on previous month previous month smprevious month $\hat{S}m$ Sm1993---November 715.8 -2.2 713.1-2.6 718.6 -1.8698.9 -2.0 708.4 December 704.1-1.6 -1.41994_ January 703.7 -0.1 700.9 0.3 705.7 -0.4 February 712.7 1.3 721.6 3.0 709.0 0.5 705.6 March 721.3 1.2 747.2 3.6 -0.5774.6 3.7 696.1 -1.3April 742.9 3.0 May n.y.a. n.y.a. 789.1 1.9 670.7 -3.7

VALUE OF TOTAL BUILDING APPROVED RELIABILITY OF TREND ESTIMATES

Revised trend estimate if May 1994 seasonally adjusted estimate Trend estimate is up 9% on April 1994 is down 9% on April 1994 % change on % change on % change on \$m previous month \$m previous month $\mathfrak{S}m$ previous month 1993— November 2,162.8 2,159.2 2,167.1 -0.2-0.4-0.6December 2,160.0 -0.1 2,152.5 -0.3 2,166.4 -0.0 1994__ 2,175.0 0.7 2,170.9 January 0.9 2,177.8 0.5 February 2,201.0 1.2 2,212.7 1.9 2,194.4 0.8 2,225.5 March 1.1 2,261.7 2.2 2,201.4 0.3April 2,262.4 1.7 2,313.0 2.3 2,199.2 -0.1May 2,349.1 1.6 2,177.5 -1.0 n.y.a. n.y.a.

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

		Houses		Other res	idential building	şs		Total	
Period	Private sector	Public sector	Total	Private sector	Public sector	Total	Private sector	Public sector	Total
1 990 -91	90,973	3,082	94,05 5	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
1 992 -93	119,846	3,741	123,587	40,319	6,651	46,970	160,165	10,392	170,557
1992-93									
July-April 1 993 -94	98,940	3,009	101,949	33,312	5,009	38,321	132,252	8,018	140,270
July-April	103,294	2,454	105,748	39,555	3,223	42,778	142,849	5,677	148,526
1993—									
February	9,041	319	9,360	3,186	497	3,683	12,227	816	13,043
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	14,155
May	10 ,2 49	306	10,555	3,625	686	4,311	13,874	992	14.866
June	10,657	426	11,083	3,382	956	4,338	14,039	1,382	15,421
July	10,989	176	11,165	4,128	526	4,654	15,117	702	15,819
August	10,774	153	10,927	4,108	322	4,430	14,882	475	15,357
September	11,152	333	11,485	4,181	169	4,350	15,333	502	15,835
October	10,435	257	10,692	3,801	142	3,943	14,236	399	14,635
November	10,960	295	11,255	4,564	342	4,906	15,524	637	16,161
December	9,621	302	9,923	3,525	245	3,770	13,146	5 47	13,693
1994									
Гапцагу	8,325	220	8,545	3,955	274	4,229	12,280	49 4	12,774
February	9,718	130	9,848	3,588	448	4,036	13,306	578	13,884
March	11,734	249	11,983	4,061	468	4,529	15,795	717	16,512
April	9,586	339	9,925	3,644	287	3,931	13,230	626	13,856

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 328 such dwelling units approved in April 1994. This includes 98 dwelling units created as the result of the conversion of an office building to apartments in New South Wales.

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

				New res	idential b	uilding				_				
	_	Houses		Other res	idential l	uildings		Total		Alterations and additions	Non-resi build		Total b	uilding
Period	Private sector	Public sector	Total	Private sector	Public sector	Total	Private sector	Public sector	Tota!	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	14,121.4	2,088.6	5,067.7	7,676.5	20,549.8	23,886.4
1993—														
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	2 42.3	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
February	867.0	11.2	878.3	274.4	28.7	303.1	1,141.4	39.9	1,181.3	173.7	492.5	781.0	1,806.6	2,136.0
March	1,061.9	19.7	1,081.6	350.7	30.8	381.6	1,412.6	50.6	1,463.1	203.3	436.0	596.7	2,051.4	2,263.1
April	878.1	33.3	911.4	263.5	17.8	281.3	1,141.5	51.1	1,192.7	178.8	448.3	642.0	1,767.2	2,013.4

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

		Number of dwell	ing units			Value()	Sm)	
	llouses		Total			Alterations and	.,	
Period	Private sector	Total	Private sector	Total	New residential building	additions to residential buildings	Non- residential building(a)	Totai building
1993								
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	1 85.2	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
February	10,536	10,719	14,203	15,047	1,277.6	193.4	910.3	2,400.7
March	10,557	10,837	14,110	14,919	1,317.2	185.4	624.7	2, 149.3
April	10,641	10,887	14,567	15,297	1,274.4	199.2	732.7	2,260.7

⁽a) Extreme care should be exercised in using the seasonally adjusted series for the value of non-residential building. The highly creatic 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 dwell	ing units			Value(\$	m)	
	Houses		Total			Alterations and		
Period	Private sector	Total	Private sector	Total	New residential building	additions to residential buildings	Non- residential building	Tota building
1993—								
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 July	10,190	10,430	13,789	14,570	1,192.1	177.8	692.0	2,057.4
	10,259	10,494	13,949	14,641	1,210.0	179.4	721.3	2,108.0
August	10,309	10,567	14,128	14,747	1,232.5	181.3	737.9	2,149.8
September	10,350	10,637	14,329	14,894	1,248.1	183.3	741.3	2,170.1
October r	10,378	10,688	14,516	15,056	1,262,2	184.8	731,9	2, 171.1
November r	10,401	10,717	14,634	15,184	1,273.5	185.7	715.8	2,162.8
December r	10,440	10,744	14,679	1 5,2 59	1,282.5	186.3	704.1	2,160.0
1994								
January r	10,502	10,785	14,681	15,313	1,292.0	187.0	703.7	2,175.0
February r	10,564	10,823	14,635	15,323	1,298.9	188.5	712.7	2, 201.0
March r	10,614	10,851	14,555	15,297	1,301.7	190.3	721.3	2,225.5
April	10,663	10,884	14,482	15,264	1,304.2	193.1	742.9	2,262.4

⁽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.	Qid	SA	WA	Tas
		SEASONALI	LY ADJUSTED			
1993—						
February	4,390	2,489	3,523	1,142	1,698	227
March	4,139	2,557	4,088	986	1,871	353
April	4,167	2,394	4,660	1,101	1,828	345
May	3,897	2,343	4,334	1,010	1,809	321
June	3,692	2,359	4,523	942	2,045	333
July	4,425	2,583	4,641	1,143	1,865	378
August	3,717	2,437	4,316	1,177	2,183	38€
September	3,870	2,723	4,798	850	2,145	349
October	3, 94 5	2,591	4,143	924	2,197	342
November	3,999	2,554	4,504	1,005	2,351	364
December	3,556	2,634	4,641	927	2,551	368
1994						
January	4,348	2,754	4,570	927	1,881	390
February	3,965	2,886	4,061	897	2,174	362
March	3,806	2,636	4,676	906	2,334	297
April	4,354	2,667	4,399	982	2,163	292
		TREND E	STIMATES			
1993—						
February	4,300	2,540	4,034	1,078	1,846	319
March	4,215	2,489	4,149	1,067	1,826	317
April	4,114	2,439	4,281	1,058	1,833	324
May	4,023	2,418	4,412	1,051	1,870	336
June	3,969	2,433	4,505	1,045	1,925	350
July	3,935	2,473	4,539	1,038	2,008	358
August	3,915	2,520	4,527	1,024	2,101	361
September	3,907	2,568	4,500	1,001	2,183	363
October r	3,900	2,613	4,485	971	2,241	367
Novamber r	3,903	2,649	4,475	945	2,263	367
December r	3,923	2,678	4,463	928	2,257	364
1994—						
January r	3,969	2,704	4,457	925	2,235	357
February r	4,019	2,721	4,448	926	2,213	345
March r	4,066	2,726	4,436	932	2,197	330
April	4,113	2,733	4,455	931	2,183	315

⁽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 Tasmania, 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 residentia	al building		Alterations	Non-residential	building	Total buil	ding
	House.	5	Other		and = additions to				
Period	Private sector	Total	residential buildings	Total	residential buildings	Private sector	Total	Private sector	Total
				ORIGINA	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	8,206.8	20,726.9	24,079.4
1992—									
Dec , qіт.	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	3,56 1.7	507.0	1,412.8	2,166.9	5,288.4	6,235.5
Sept. qu.	2,745.3	2,799.6	1,026.2	3,825.8	552.1	1,740.4	2,513.2	6,034.2	6,891.2
Dec. qtr.	2,569.2	2,626.7	937.1	3,563.8	524.4	1,406.9	2,210.3	5,429.5	6,298.5
1994									
Mar. qtr.	2,510.9	2,562.1	1,054.6	3,616.8	487.9	1,340.4	2,118.8	5,340.7	6,223.5
			SEA	SONALLY A	DJUSTED				
1992—									
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
1993—									
Mar. qu.	2,463.9	2,564.1	n.a.	3,827.6	496.1	n.4.	2,179.9	5,516.2	6,453.1
June qur.	2,470.9	2,538.0	п.а,	3,444.2	512.0	n.a.	2,088.2	5,152.0	6,019.9
Sept. qtr.	2,608.3	2,673.1	n.a.	3,686.6	515.2	n.a.	2,614.2	5,827.7	6,787.1
Dec. qtr.	2,548.2	2,619.9	n.a.	3,626.5	516.0	n.a.	2,121.1	5,468.4	6,304.4
1994—									
Mar. qtr.	2,698.2	2,755.2	n.a.	3,819.1	525.1	n.a.	2,291.9	5,693.2	6,586.4

⁽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, APRIL 1994

					Other resident	ial building				
	_		ched, row or ter ownhouses, etc.		Flats, u	nits or apartm	ents in a building	g of		Total
State	Houses	I storey	2 or more storeys	Total	1-2 storeys	3 storeys	4 or more storeys	Total	Total	residential building
			NU	MBER OF I	OWELLING UN	NTS				
NSW	2,505	470	256	726	304	134	139	577	1,303	3,808
Vic.	2,091	167	30	197		20	114	134	331	2,422
Qld	2,655	195	524	719	303	187	157	647	1,366	4,021
SA	704	113	30	143		_		_	143	847
WA	1,507	496	71	567	_	_	20	20	587	2,094
Tas.	243	36	_	36		_		_	36	279
NT	117	12	12	24	_	_	_	_	24	141
ACT	103	74	17	91	12	38	_	50	141	244
Australia	9,925	1,563	940	2,503	619	379	430	1,428	3,931	13,856
·				VAI	.UE (\$m)					
WZW	262.9	34.9	21.4	56.3	19.3	8.5	12.5	40.3	96.6	359.4
Vic.	191.0	9.9	2.3	12.2		1.1	19.0	20.1	32.3	223.3
Qld	234.6	9.9	36.6	46.4	16.2	13.2	12.9	42.3	88.7	323.4
SA	52.8	6.9	2.2	9.1	_	_	_	_	9.1	61.9
WĄ	122,8	30,7	6.2	36.9	_	_	1.0	1.0	38.0	160.8
Tas.	18.6	1.8	_	1.8	_	_	_	_	1.8	20.4
NT	15.7	0.8	1.0	1.8		_	_	_	1.8	17.5
ACT	12.9	6.4	1.7	8.1	0.9	4.0	_	4.9	13.1	26.0
Australia	911.4	101.3	71.3	.72.6	6.4	26.8	45.4	08.7	281.3	,192.7

TABLE 8. DETAILS OF BUILDING APPROVED, APRIL 1994

		W.	New residential building	ial buildir	มีเ							Valu	Value (Sm)	-	į				
	7		Other residential	idential	Total		Atomotions					Non-resic	Non-residential building	lding					
	Number	3	Number		Number	i	and and and additions					Other bus-			En	Enteriai: nment			
State	of dwelling units	Value (\$m)	of Ovelling units	Value (\$m)	of dwelling units	Value (Sm)	to residential buildings	Hotels, etc.	Shops 1	Shops Factories	Offices	iness pre- Ei mises	iness pre-Educati-Religi- nises onal ous		rec Health	and recreati- onal	Miscel. Ianeous	Total	Total building
								PRIV,	PRIVATE SECTOR	TOR							!		
MSM	2,423	254.3	1,191	6.68	3,614	347	83.3	1.7	31.8	75.3	8.6	16.8	4.0	1.9	32.9	2.5	3.9	180.8	608.3
Vic.	2,021	185.6	317	31.2	2,338	216.8	41.6	8.8	13.6	15.7	9.09	9.1	3.6	0.7	 80.	1.1	4.5	121.5	379.9
ΡĮΟ	2,569	227.4	1,322	86.0	3,891	313.4	16.6	5.9	12.8	7.8	3.8	14.0	9.0	9.0	9:0	5.6	4.0	55.6	385.7
SA	129	50.7	129	ب دو دو	908	59.0	10.5	0.3	1.9	4.0 6.0	Ξ:	0.8	0.7	0.1	0.1	6.3	0.0	15.3	× 5
Υ.	1,473	119.6	492	320	1,965	92.6	4.5. 4. c	5.0	× ×	o, -	4 -	4 c	Ø.0	Ξ.	T. 6	?	6'0	2.5	200.4
88 F	£ 24.5	0.8	욱 <u>노</u>	6.1	617	10.4). -) 	20.0	1.7	ਰ'. ∣	4; F	0.7		o,	15	6	0. CC	25.6 4.44
ACI	103	12.9		3 5	2 4 2	26.0	6.5		1.7	!	5.3	1	;	0.4	!	5 5	;	7.4	39.8
Australia	9,586	878.1	3,644	263.5	13230	1,141.5	1773	22.8	912	114.4	86.2	48.6	10.0	8.8	40.2	16.2	14.0	448.3	1,767.2
								PUB	PUBLIC SECTOR	OR									!
W Y	82	2	12	63	104	15.9	- 0.7	-	=	15.6	2 %	3.5	37.9		17	80	~	7.97	- 6
We.	7 6	. ·	7 -	3 =	. 2	, v	50	?	2	2	5 5	2 -	11.4	ı	. 5	-	0 -	£7.4	644
i P	2 %	, r	: 4	7.7	130	3	}			<u>څ</u> ا	7	5 5	8		2 29	1	3 -	, e	17.8
VS	8 8	7.	14	0.8	4	23	I	0.2	0.	1	2.4	:	13.0	1	1.2	0.8	3.1	20.8	23.7
WA	35,	3.2	95	6.0	129	9.5	0.2		0.1	0.1	ţ	1.9	7.9	I	I	9.0	9.0	11.1	20.5
Tas.	I		1	İ	1	ı			I	I	0.2	1	9.0	1	I	1	0.4	1.2	1.2
Þ	¥	8,8	ВÓ	9.0	42	7.3	0.1		1	ŀ	I	I	1.6	I	8.3 (3	0.1	2.0	12.0	19.4
ACT	I	!				I	ţ		0.1		2.2	1.2	0.1	I	2.1	1	1.3	7.2	7.2
Australia	339	33.3	287	17.8	979	51.1	1.4	1.8	13	16.4	27.3	871	74.2		44.2	3.4	13.1	193.6	246.2
									TOTAL		:								
NSW	2,505	262.9	1,303	96.6	3,808	359.4	83.9	3,4	32.8	6.06	18.0	22.4	41.9	1.9	36.6	3.4	8.5	257.0	700.3
Vic	2,091	191.0	331	32.3	2,422	223.3	42.1		13.6	15.7	73.3	12.2	15.0	0.7	e e	23	4.0	178.9	444.4
5 ⁄ ;	2,653	4 5	8 :	98./	120,4	523.4	9.01		871	o		4,4	4 5	9.6	* ·	0 0	y	0.50	4.004
SA	\$0/.	870	143	. ć	4 8	6.5	10.6	9 6 5 V	5: ¢	4 6	9 9	U.8	C.C.1	; ;	n -	97	4.	7.95.1 1.95.1	108.6
Υ×.	100,1	7 61	26	0.60	270	90.9	5.5. 5.5.		6.9	0.6	7 -	קיי	, y	1	. c	1.	3 5	10.8	5.635
žį į	547	0.01	8 8	ė •		* 2 C	5.5		970	1.7	<u> </u>	† -	2 6		, o	: 0	÷ 6	24.5	3 6
ACT	103	12.9	141	13.1		26.0	6.4		1.8	†	7.6	17	0.1	0.4	2.1	0.1	1.3	14.6	47.0
Austrolia	9.925	911.4	3.931	281.3	13.856	1.192.7	178.8	24.6	92.5	130.8	113.5	6.0.4	84.2	4 ,	4.4	19.7	27.1	642.0	2.013.4
	A								ţ							:	!		1

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

Class of building	1001.03	1003.03	July-Ap.		E 1	1994	; ;
	1991-92	<i>1992-93</i> PRIVATE:	<u>1992-93</u> SECTOR	1993-94	February	March	Apri
		10.010.0	0.500.0	0.480.5	242.0		250
New houses	9,113.0	10,319.3	8,507.2	9,190.7	867.0	1,061.9	878.1
New other residential buildings	2,060.3	3,091.4	2,597.4	2,933.2	274.4	350.7	263.5
Total new residential building	11,173.3	13,410.7	11,104.6	12,123.9	1,141.4	1,412.6	1,1415
Alterations and additions to residential buildings	1,954.8	2,071,4	1,710.1	1,836.2	172.7	202.8	177.3
Hotels, etc.	399.0	226.3	173.7	419.5	30.7	11.3	22.8
Shops	787,7	1,114.7	890.4	1,132.8	131.5	153.4	91.2
Factories	651.9	716.2	617.5	498.1	40.9	44.1	114.4
Offices	1,196.0	943,4	782.9	693.7	72.1	48.0	86.2
Other business premises	566.6	697.3	567,7	537.5	78.3	58.6	48.6
Educational	237.2	277.4	241.2	273.1	20.6	39.9	10.0
Religious	79.4	88.0	72.8	64.8	5,3	2,4	4,8
Health	249.4	318.7	266.8	425.6	70.6	22.8	40.2
Entertainment and recreational	371.0	441.9	377.9	277.3	25.3	14.0	16.2
Miscellaneous	207.3	243.8	192.3	277.3	17.2	41,5	14.0
Total non-residential building	4,745.4	5,067.7	4,183.2	4,599.8	492.5	436.0	448.3
Total	17,873.5	20,549.8	16,997.9	18,559.9	1,806,6	2,051.4	1,767.2
	17,070.0	PUBLIC S		15,007,7	1,000,0		1,707,2
New houses	275.6	286.5	232.3	208.9	11.2	19.7	33.3
New other residential buildings	557.1	424.2	329.1	208.7	28.7	30.8	17.8
Total new residential building	832.7	710.7	561.3	417.6	39.9	50.6	51.1
Alterations and additions to	19.1	171	12.3	8.2	1.0	0.5	1.4
residential buildings	19.1	17.1	12.3	6.2	1.0	0.5	1.4
Hotels, etc.	7.3	7,7	5.0	7.2	<u></u>	_	1.8
Shops	97.6	30,5	25.8	27.2	1.8	2.0	1.3
Factories	53.0	18.3	16.6	79.0	0.5	42.0	16.4
Offices	549.7	543.9	427.0	434.4	25.4	21.2	27.3
Other business premises	208.1	129.6	112.8	456.7	129.1	15.4	11.8
Educational	693.1	750.7	617.3	659.0	58.2	44 .1	74.7
Religious		_	_	_	_		_
Health	248,2	535.1	499.8	441.4	36.2	2.4	44.2
Entertainment and recreational	305.6	342.0	164.3	121.0	17.2	16.2	3.4
Miscellaneous	300.7	251.1	198.5	152.9	20.2	17.4	13.1
Total non-residential building	2,463.3	2,608.8	2,066.9	2,378.9	288.5	160.7	193.6
Total	3,315.1	3,336.6	2,640.6	2,804.7	329.4	211.7	246.2
		TOT	AL		1		
New houses	9,388.5	10,605.7	8,739.4	9,399.7	878.3	1,081.6	911.4
New other residential buildings	2,617.4	3,515.6	2,926.5	3,141.9	303.1	381.6	281.3
Total new residential building	12,005.9	14,121.4	11,665.9	12,541.6	1,1813	1,463.1	1,192.7
Alterations and additions to							
residential buildings	1,973.9	2,088.6	1,722.4	1,844.4	173.7	203.3	178.8
Hotels, etc.	406.3	234.0	178.6	426.7	30.7	11.3	24.6
Shops	885.2	1,145.1	916.3	1,159.9	133.3	155.4	92.5
Factories	704.9	734.5	634.1	577.1	41.5	86.1	130.8
Offices	1,745.7	1,487.3	1,209.9	1,128.1	97.5	69.2	113.5
Other business premises	774.7	826.9	680.5	994.3	207.3	74.0	60.4
Educational	930.3	1,028.1	858.5	932.2	78.8	84.1	84.2
Religious	79.4	88.0	72.8	64.8	5.3	2.4	4.8
Health .	497.5	853.8	766.6	867.0	106.8	25.2	84.4
Entertainment and recreational	676.6	783.9	542.1	398.3	42.5	30.2	19,7
Miscellaneous	508.0	494.9	390.8	430.2	37.4	58.8	27.1
Total non-residential building	7,208.7	7,676.5	6,250.2	6,978.7	781.0	596,7	642.0

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

	\$50,000 to t than \$200,0		\$200,000 to than \$500,0		\$500,000 to Shan \$1 m		\$1m to le. than \$5n		\$5m and over	i	Total	
Period	No.	Value (\$m)	No.	Value (\$m)	No.	Value (\$m)	No.	Value (\$m)	No.	Value (\$m)	No.	Value (\$m)
					HOTELS,	ETC.		 -				
1994 February	19	1.7	10	2.8	5	3.2	4	7.0	1	16.0	39	30.7
March	20	1.7	7	1.7	2	1,7	3	6.1		_	32	11.3
April	16	1.4	15	5.1	3	2.5	4	8.1	1	7.5	39	24.6
					SHOP	S						
1994 February	145	12.8	46	14.0	15	9.8	7	14.0	4	82.7	217	133.3
March	187	16.1	46	13.7	16	10.1	1 9	34.0	4	81.5	272	155.4
April	176	15.9	45	13.6	21	14.6	7	14.9	3	33.5	252	92.5
					FACTOR							
1994 February	91	9.6	29	9.2	12	7.7	5	8.9	1	6.1	138	41.5
March	94	9.6	51	14.9	19	12.4	7	13.4	1	35.8	172	86.1
April	84	9.2	33	9.4	16	11.7	14	26.0	2	74.5	149	130.8
					OFFICE							
1994 February	123	11.7	34	9.6	17	12.8	15	31.2	4	32.2	193	97.5
March	143	14.1	52	16.0	18	11.6	12	22.0	1	5.5	226	69.2
April	136	12.7	44	12.7	11	8.2	11	17.6	2	62.4	204	113.5
		40.			HER BUSINES					152.0		
1994 February	98	10.1 9.8	45 5 0	12.3 14.8	17 21	11.5 14.3	9 14	21.3 29.8	4 1	152.2 5.4	173 192	207.3 74. 0
March April	10 6 108	10.7	35	10.2	11	7.3	14	27.1	1	5.1	169	60.4
· · · · · · · · · · · · · · · · · · ·			•		EDUCATIO	ONAL						-
1994 February	49	5.0	25	8.0	15	11.0	19	41.7	1	13.2	109	78.8
March	37	3.9	29	8.6	16	11.4	18	36.2	1	24.0	101	84.1
April	32	4.3	24	7.3	7	5.3	10	24.1	5	43.2	78	84.2
					RELIGIO							
1994 February	9	1.1	6	1.8	4	2.4	_	_	_	_	19	5.3
March April	6 11	0.6 1.4	5 4	1.3 · 1.1	1 1	0.5 0.9		1.5	_	_	12 17	2.4 4.8
	.,		· ·				<u> </u>		<u></u>			110
1994 February	21	2.3	10	3.3	HEALT 6	1H 4.2	9	22.3	2	74.6	48	106.8
March	31	3.4	19	5.8	13	8.7	5	7.3	_	-	68	25.2
April	39	4.0	13	4.2	5	3.5	10	20.1	4	52.6	71	84.4
				ENTERT A	INMENT ANI	RECREA	TIONAL					
1994 February	40	3.9	13	3.9	10	6.3	7	15.7	2	12,7	72	42.5
March	33	2.9	21	5.6	3	1.8	7	14.2	1	5.7	65	30.2
April	23	2.5	12	3.2	6	3.9	3	5.2	. 1	5.0	45	19.7
					MISCELLA							
1994 February	36	3.7	19	6.3	7	4.6	10	22.8	_		72	37.4
March	72 53	6.7	15 25	5.1	9	6.0	13	25.5	2	15.5	111	58.8
April	52	5.1	25	8.2	10	6.2	5	7.6			92	27.1
1004 E-1		/17	020		NON-RESIDEN			1040		200.7	1 000	901.0
1994 February March	631 729	61.7 68.8	237 295	71.4 87.5	108 118	73.4 78.5	85 98	184.8 188.5	19 11	389.7 173.4	1,080 1,251	781.0 596 .7
April	677	67.1	250 250	75.0	91	64.0	79	152.1	19	283.8	1,116	642.0

TABLE 11. SUMMARY OF BUILDING APPROVED

Period	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Australia
			NUMBER	OF DWELLIN	G UNITS				
1992-93	48, 497	29,571	47,785	12,312	22,479	4,094	1,480	4,339	170,557
1993—									
April	3,827	2,301	4,376	1,000	1,756	344	160	391	14,155
1994—									
January	3,570	2,183	3,565	732	1,543	344	152	685	12,774
February	3,535	2,716	3,953	851	2,100	344	144	241	13,884
March	4,316	2,905	5,017	1,031	2,422	330	133	358	16,512
April	3,808	2,422	4,021	847	2,094	279	141	244	13,856
		V	ALUE OF NEW	RESIDENTIAL	BUILDING (\$m)			
1992-93	4,632.2	2,494.1	3,829.6	840.9	1,519.4	275.3	127.2	402.7	14,121.4
1993—									
April	362.6	193.6	354.4	67.9	121.0	24.9	17.5	45.1	1,187.0
1994—									
January	334.1	203.2	292.9	51.5	111.9	26.0	20.4	53.3	1,093.3
February	323.8	237.6	334.7	60.4	162.6	23.8	13.9	24.6	1,181.3
March	404.4	257.8	474.7	71.5	186.3	25.5	10.4	32.7	1,463.1
April	359.4	223.3	323.4	61.9	160.8	20.4	17.5	26.0	1,192.7
	VA	LUE OF ALTE	RATIONS AND A	ADDITIONS TO	RESIDENTIAL	BUILDINGS (\$	m)		
1992-93	965.0	533.0	212.9	132.6	137.1	33.1	19.2	\$5.7	2,088.6
1993—									
April	72.1	43.2	18.1	13.1	10.7	3.0	1.5	3.6	165.3
1994—			4						
January	66.6	36.5	13.6	9.7	10.4	3.1	0.7	4.7	145.2
February	83.1	44.1	16.6	7.9	13.0	2.7	1.6	4.7	173.7
March April	91.1 83.9	53.7 42. 1	20.8 16.6	10.4 10.6	14.8 13.5	4.1 3.7	1.9 1.9	6.5 6.4	203.3 178.8
*					BUILDING (Sm)				
		•	ALUE OF NON-	RESIDENTIAL.	BUILDING (3m)	· · · ··•= =	1.		
19 92 -93	3,178.2	1,406.3	1,383.9	41,8.4	889.6	103.1	81.1	216.0	7,676.5
1993—									
April	251.6	77.1	71.6	37.1	136.3	9.1	7.2	15.3	605.5
1994—									
January	258.8	65.3	61.3	28.0	37.4	11.8	5.6	97.7	566.0
February	199.7	363.4	105.1	40.0	42.7	6.2	4.4	19.6	781.0
March	169.3	165.3	136.5	29.6	49.7	6.7	25.9	13.6	596.7
April	257.0	178.9	63.5	36.1	46.6	10.8	34.5	14,6	642.0
			VALUE OF	TOTAL BUIL	DING (\$m)				
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—									
April	686.3	313.9	444.1	118.2	268.0	36.9	26.3	64.0	1,957.7
1994—							_		
January	659.5	304.9	367.8	89.2	159.6	40.9	26.7	155.7	1,804.5
February	606.5	645.1	456,3	108.2	218.4	32.7	19.9	49.0	2,136.0
March	664.7	476.8	632.0	111.5	250.7	36.3	38.2	52.9	2,263.1
April	700.3	444.4	403,4	108.6	220.9	35.0	53.8	47.0	2,013.4

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 May 1994 issue of this publication is 30 June 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.

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