

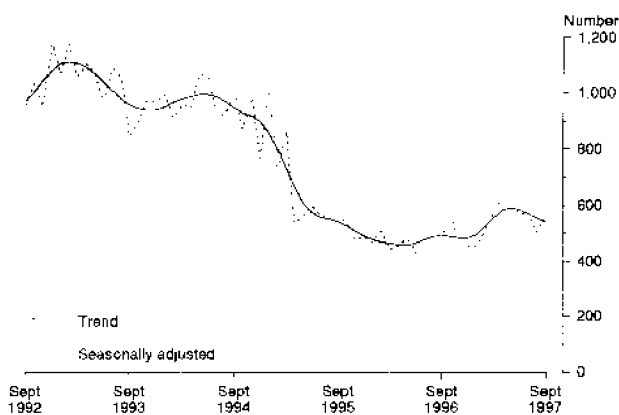
## BUILDING APPROVALS, SOUTH AUSTRALIA, SEPTEMBER 1997

### MAIN FEATURES

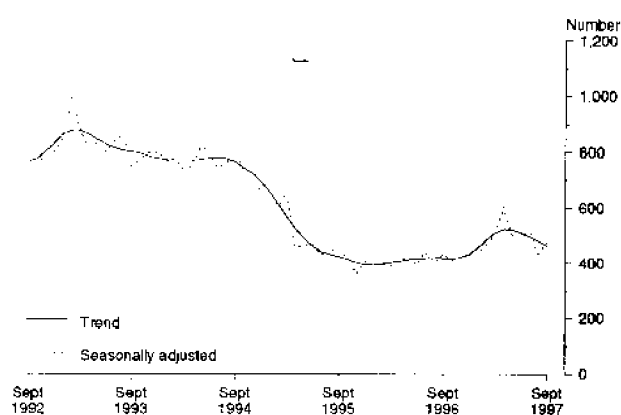
#### NUMBER OF DWELLING UNITS APPROVED

	September 1996	August 1997	September 1997	September 1996 to September 1997 change	August 1997 to September 1997 change
Original series	514	568	608	18.3%	7.0%
Seasonally adjusted	476	502	557	17.0%	11.0%
Trend estimate	493	555	539	9.3%	-2.9%

TOTAL DWELLING UNITS APPROVED



PRIVATE SECTOR HOUSES APPROVED



#### Residential building

- The trend for the total number of dwelling units approved has fallen for the fourth month and is 8.8% below May 1997.
- The trend for the number of private sector houses approved has fallen for the fifth month and is 11.1% below April 1997.
- The total number of dwelling units approved, in original terms was 608. Tea Tree Gully recorded the highest number of new dwellings approved, with 64.
- The value of new residential building approved was \$52.3 million and the value of alterations and additions to residential buildings was \$10.8 million.

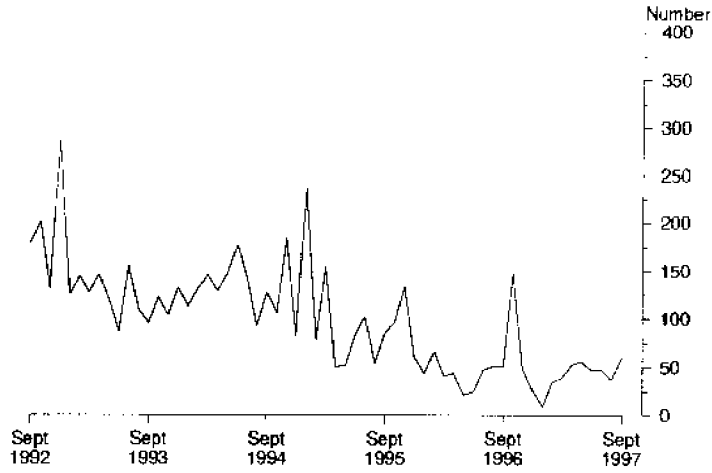
#### Non-residential building

- The value of non-residential building approved in September was \$58.4 million. Of the total, Education accounted for \$22.7 million (2 individual jobs for new work totalled \$11.4 million), followed by Shops (\$11.1 million) and Health (\$9.1 million).
- There were 4 building jobs valued at greater than \$5 million and 5 building jobs valued between \$1 million and \$5 million approved in September.

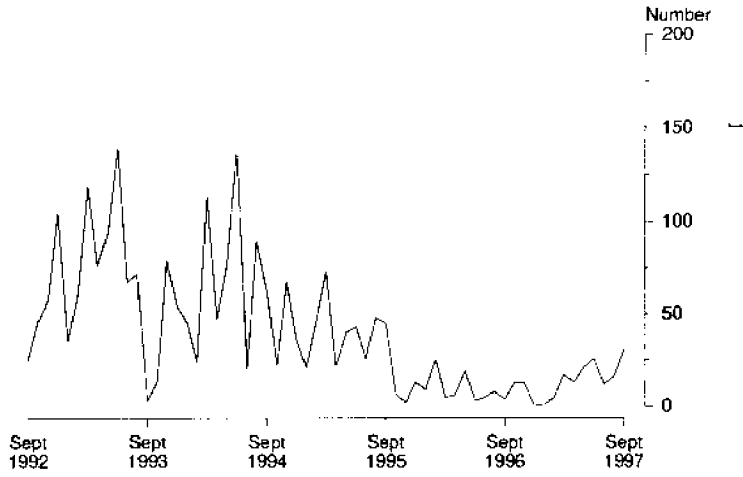
#### INQUIRIES

- for more information about statistics in this publication and the availability of related unpublished statistics, contact Merv Leaker on Adelaide (08) 8237 7585 or any ABS State Office.
- for information about other ABS statistics and services please refer to the back of this publication.

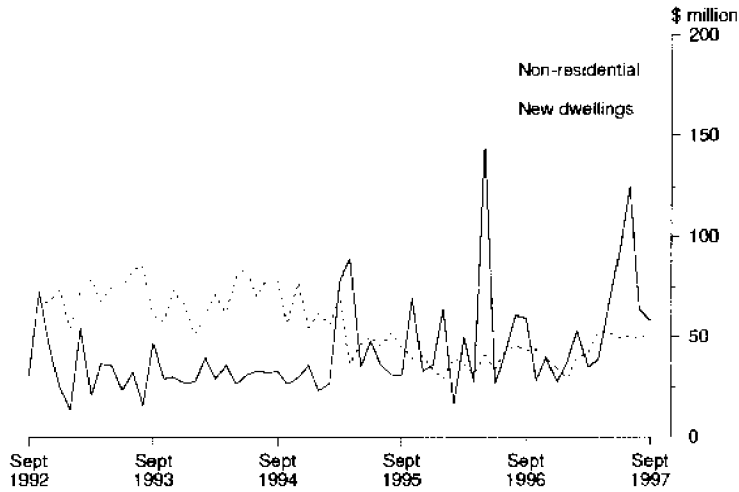
**NEW OTHER RESIDENTIAL BUILDINGS APPROVED  
PRIVATE SECTOR**



**TOTAL DWELLING UNITS APPROVED  
PUBLIC SECTOR**



**VALUE OF BUILDING WORK APPROVED**



## RELIABILITY OF CONTEMPORARY TREND ESTIMATES

The tables below present trend estimates of selected building approvals series for the six months April 1997 to September 1997.

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 21 to 23 of the Explanatory Notes for more information.

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 which would result if the movements in the seasonally adjusted estimates for next month (October 1997) were to equal the average absolute monthly percentage change in the series over the last ten years.

For example, if the seasonally adjusted estimate for the number of private sector houses approved (the first table below) were to increase by 9% in October 1997, the trend estimate for that month would be 476, a movement of 1.0%. The movements in the trend estimates for July, August and September which are currently estimated to be -3.0%, -3.1% and -3.2% respectively, would be revised to -2.8%, -2.1% and -1.2%. On the other hand, a 9% seasonally adjusted decline in the number of private sector houses approved in October 1997 would produce a trend estimate for October of 441, a movement of -3.5%, with the movements in the trend estimates for July, August and September being revised to -3.8%, -3.9% and -3.5% respectively.

### NUMBER OF PRIVATE SECTOR HOUSES APPROVED RELIABILITY OF TREND ESTIMATES

	Trend estimate		Revised trend estimate if October 1997 seasonally adjusted estimate			
			is up 9% on September 1997		is down 9% on September 1997	
	No.	% change on previous month	No.	% change on previous month	No.	% change on previous month
1997—						
April	522	2.8	522	2.8	523	3.1
May	521	-0.1	521	-0.1	524	0.1
June	510	2.1	510	-2.1	512	-2.4
July	495	-3.0	496	-2.8	492	-3.8
August	480	3.1	486	-2.1	473	3.9
September	464	3.2	480	-1.2	457	-3.5
October	n.y.a.	n.y.a.	476	1.0	441	-3.5

### TOTAL NUMBER OF DWELLING UNITS APPROVED RELIABILITY OF TREND ESTIMATES

	Trend estimate		Revised trend estimate if October 1997 seasonally adjusted estimate			
			is up 10% on September 1997		is down 10% on September 1997	
	No.	% change on previous month	No.	% change on previous month	No.	% change on previous month
1997—						
April	582	4.7	581	4.6	583	5.0
May	591	1.6	591	1.6	595	1.9
June	584	-1.2	583	-1.2	585	1.5
July	570	-2.4	571	2.1	566	-3.3
August	555	2.6	563	-1.4	546	3.5
September	539	-2.8	560	-0.5	528	-3.3
October	n.y.a.	n.y.a.	560	-0.0	511	3.1

TABLE 1. DWELLING UNITS APPROVED

Period	New houses			New other residential buildings			Conversions, etc.	Total (a)		
	Private sector	Public sector	Total	Private sector	Public sector	Total		Private sector	Public sector	Total
<b>ADELAIDE STATISTICAL DIVISION</b>										
1994-95	5,256	384	5,640	1,213	120	1,333	59	6,515	517	7,032
1995-96	3,029	177	3,206	646	29	675	46	3,721	206	3,927
1996-97	3,506	84	3,590	489	17	506	21	4,016	101	4,117
1996-97										
July-September	905	14	919	113	—	113	1	1,019	14	1,033
1997-98										
July-September	1,072	43	1,115	122	8	130	8	1,202	51	1,253
1996—										
July	317	2	319	45	—	45	—	362	2	364
August	301	8	309	19	—	19	1	321	8	329
September	287	4	291	49	—	49	—	336	4	340
October	264	13	277	143	—	143	3	410	13	423
November	276	—	276	42	—	42	1	319	—	319
December	221	1	222	23	—	23	—	244	1	245
1997—										
January	216	—	216	6	—	6	1	223	—	223
February	313	2	315	23	—	23	2	338	2	340
March	314	13	327	23	2	25	—	337	15	352
April	306	9	315	34	4	38	3	343	13	356
May	333	10	343	39	7	46	5	377	17	394
June	358	22	380	43	4	47	5	406	26	432
July	378	10	388	37	—	37	4	419	10	429
August	377	10	387	29	—	29	1	407	10	417
September	317	23	340	56	8	64	3	376	31	407
<b>SOUTH AUSTRALIA</b>										
1994-95	7,757	390	8,147	1,387	151	1,538	77	9,208	554	9,762
1995-96	4,930	179	5,109	773	29	802	57	5,760	208	5,968
1996-97	5,508	96	5,604	613	17	630	30	6,148	116	6,264
1996-97										
July-September	1,418	17	1,435	149	—	149	5	1,569	20	1,589
1997-98										
July-September	1,596	51	1,647	144	8	152	11	1,751	59	1,810
1996—										
July	476	5	481	47	—	47	—	523	5	528
August	484	8	492	51	—	51	4	536	11	547
September	458	4	462	51	—	51	1	510	4	514
October	401	13	414	148	—	148	4	553	13	566
November	438	—	438	49	—	49	1	488	—	488
December	382	1	383	27	—	27	—	409	1	410
1997—										
January	340	—	340	10	—	10	1	351	—	351
February	429	5	434	35	—	35	3	467	5	472
March	486	15	501	39	2	41	1	526	17	543
April	559	9	568	53	4	57	3	615	13	628
May	537	14	551	56	7	63	6	599	21	620
June	518	22	540	47	4	51	6	571	26	597
July	571	12	583	47	—	47	4	622	12	634
August	513	16	529	37	—	37	2	552	16	568
September	512	23	535	60	8	68	5	577	31	608

(a) Includes Conversions, etc. See paragraphs 10-12 of the Explanatory Notes.

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

Period	New residential building									Alterations and additions to residential buildings	Non-residential building		Total building	
	Houses			Other residential buildings			Total				Private sector	Total	Private sector	Total
	Private sector	Public sector	Total	Private sector	Public sector	Total	Private sector	Public sector	Total					
ADELAIDE STATISTICAL DIVISION														
1994-95	420.2	26.7	446.9	87.7	6.9	94.6	508.0	33.5	541.5	95.0	181.2	393.1	782.5	1,029.5
1995-96	254.6	13.2	267.7	46.3	1.9	48.2	300.9	15.1	315.9	93.3	303.4	445.7	696.9	854.9
1996-97	301.6	6.4	308.0	36.1	1.3	37.4	337.7	7.7	345.4	91.3	307.0	436.8	735.8	873.6
1996-97														
July-September	77.4	1.0	78.4	9.8	—	9.8	87.2	1.0	88.2	21.3	78.3	116.9	186.8	226.4
1997-98														
July-September	93.7	3.2	96.9	10.6	0.5	11.1	104.3	3.7	108.0	24.3	168.2	196.1	296.7	328.4
1996—														
July	26.3	0.1	26.4	3.2	—	3.2	29.5	0.1	29.6	5.8	22.3	36.1	57.6	71.5
August	25.9	0.5	26.4	2.9	—	2.9	28.8	0.5	29.4	7.0	20.6	34.4	56.4	70.8
September	25.2	0.4	25.6	3.7	—	3.7	28.9	0.4	29.2	8.6	35.4	46.3	72.8	84.2
October	23.2	0.9	24.1	8.4	—	8.4	31.6	0.9	32.5	9.8	16.1	18.9	57.5	61.2
November	23.7	—	23.7	3.2	—	3.2	26.9	—	26.9	6.6	14.8	35.3	48.3	68.9
December	18.6	0.1	18.7	2.0	—	2.0	20.7	0.1	20.8	8.1	21.5	23.9	50.3	52.7
1997—														
January	18.7	—	18.7	0.5	—	0.5	19.2	—	19.2	6.7	9.9	34.4	35.7	60.2
February	26.7	0.1	26.8	1.8	—	1.8	28.5	0.1	28.6	8.2	18.5	23.9	55.2	60.8
March	25.5	0.8	26.3	1.5	0.1	1.6	27.0	0.9	27.9	6.7	17.4	24.6	51.1	59.2
April	26.8	0.7	27.5	2.5	0.4	2.8	29.2	1.1	30.3	9.2	15.3	25.5	53.7	65.0
May	29.9	0.8	30.6	3.1	0.5	3.6	33.0	1.2	34.3	7.6	42.4	49.5	83.0	91.4
June	31.1	2.0	33.1	3.2	0.4	3.6	34.3	2.4	36.7	7.1	72.7	84.0	114.2	127.8
July	31.7	0.9	32.7	2.5	—	2.5	34.2	0.9	35.2	8.0	110.7	116.6	153.0	159.8
August	32.9	0.8	33.8	3.1	—	3.1	36.0	0.8	36.8	8.3	37.3	44.9	81.5	90.0
September	29.1	1.4	30.5	5.0	0.5	5.5	34.1	1.9	36.0	8.0	20.2	34.7	62.2	78.6
SOUTH AUSTRALIA														
1994-95	605.8	27.0	632.8	98.4	8.5	106.9	704.2	35.5	739.7	119.9	244.7	493.2	1,065.4	1,352.8
1995-96	399.4	13.3	412.7	54.6	1.9	56.6	454.1	15.3	469.3	119.1	393.0	566.2	964.3	1,154.6
1996-97	462.9	7.4	470.2	44.0	1.3	45.3	506.8	8.7	515.5	116.6	422.4	580.7	1,044.2	1,212.8
1996-97														
July-September	118.5	1.2	119.7	11.7	—	11.7	130.2	1.2	131.4	28.7	114.8	161.9	272.7	322.0
1997-98														
July-September	136.2	4.0	140.2	12.1	0.5	12.5	148.3	4.4	152.7	31.7	193.1	247.3	372.2	431.7
1996—														
July	39.2	0.4	39.5	3.3	—	3.3	42.4	0.4	42.8	7.7	26.8	41.9	76.9	92.5
August	40.2	0.5	40.7	4.5	—	4.5	44.7	0.5	45.2	10.3	42.2	60.9	96.4	116.4
September	39.2	0.4	39.5	3.8	—	3.8	43.0	0.4	43.4	10.7	45.8	59.1	99.5	113.2
October	34.2	0.9	35.1	8.6	—	8.6	42.7	0.9	43.7	12.0	25.0	28.5	79.7	84.2
November	35.7	—	35.7	4.2	—	4.2	39.9	—	39.9	8.8	18.7	39.7	67.5	88.5
December	32.4	0.1	32.5	2.3	—	2.3	34.7	0.1	34.8	9.7	25.3	28.0	69.6	72.5
1997—														
January	28.9	—	28.9	0.7	—	0.7	29.6	—	29.6	8.6	11.3	38.1	49.6	76.3
February	36.8	0.4	37.2	2.4	—	2.4	39.3	0.4	39.7	9.8	45.1	53.1	94.2	102.6
March	38.3	0.9	39.2	2.5	0.1	2.6	40.8	1.0	41.8	8.9	20.5	35.4	70.1	86.1
April	47.8	0.7	48.5	3.8	0.4	4.1	51.6	1.1	52.6	10.9	25.5	39.2	88.0	102.8
May	46.6	1.0	47.6	4.4	0.5	4.8	51.0	1.5	52.5	9.9	56.9	64.7	117.2	127.1
June	43.6	2.0	45.7	3.5	0.4	3.8	47.1	2.4	49.5	9.2	79.2	92.0	135.5	150.7
July	46.8	1.1	47.9	3.3	—	3.3	50.0	1.1	51.1	10.8	114.9	125.1	175.7	187.0
August	44.3	1.4	45.7	3.6	—	3.6	47.9	1.4	49.3	10.1	51.6	63.8	109.4	123.2
September	45.2	1.4	46.6	5.2	0.5	5.7	50.4	1.9	52.3	10.8	26.6	58.4	87.0	121.4

**TABLE 3. NUMBER OF DWELLING UNITS (a) APPROVED  
SEASONALLY ADJUSTED AND TREND ESTIMATES (b)(c)**

Period	Houses				Total			
	Private sector		Total		Private sector		Total	
	Seasonally adjusted	Trend estimate	Seasonally adjusted	Trend estimate	Seasonally adjusted	Trend estimate	Seasonally adjusted	Trend estimate
	<i>1996—</i>							
July	442	418	450	425	477	469	484	477
August	403	418	409	427	476	479	483	488
September	434	417	438	427	473	482	476	493
October	410	416	442	425	549	479	584	489
November	419	420	419	428	454	474	454	482
December	431	433	433	439	451	476	453	483
<i>1997—</i>								
January	434	455	434	460	452	490	452	495
February	466	483	472	488	503	516	509	523
March	503	508	512	514	561	547	572	556
April	604	522	614	530	613	570	630	582
May	503	521	511	532	605	577	618	591
June	498	510	511	523	552	568	569	584
July	513	495	530	509	561	553	578	570
August	436	480	448	496	492	537	502	555
September	477	464	498	482	529	520	557	539

(a) Includes Conversions, etc. See paragraphs 10-12 of the Explanatory Notes. (b) See paragraphs 16-23 of the Explanatory Notes. (c) Series have been revised due to annual re-analysis of seasonal adjustment factors.

**TABLE 4. VALUE OF BUILDING APPROVED AT AVERAGE 1989-90 PRICES (a)  
(\$ million)**

Period	New residential building				Alterations and additions to residential buildings	Non-residential building		Total building	
	Houses		Other residential buildings	Total		Private sector	Total	Private sector	Total
	Private sector	Total							
1994-95	527.6	551.1	97.4	648.5	104.4	224.5	452.5	945.1	1,205.4
1995-96	349.0	360.6	50.4	410.9	104.1	355.6	512.5	857.3	1,027.6
1996-97	419.2	425.8	40.0	465.8	105.4	378.8	524.3	940.2	1,095.5
<i>1996—</i>									
Mar. qtr.	77.2	79.7	13.1	92.8	24.8	84.2	118.4	199.4	235.9
June qtr.	87.2	89.0	4.9	93.9	25.3	154.9	178.7	271.7	297.9
Sept. qtr.	104.8	105.9	10.3	116.2	25.4	103.4	145.9	243.3	287.5
Dec. qtr.	91.1	92.0	13.3	105.4	27.2	62.0	86.5	193.7	219.0
<i>1997—</i>									
Mar. qtr.	96.1	97.4	5.0	102.4	25.2	69.0	116.8	195.0	244.5
June qtr.	127.1	130.5	11.3	141.8	27.6	144.4	175.1	308.3	344.5

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

TABLE 5. VALUE OF BUILDING APPROVED, BY CLASS OF BUILDING AND OWNERSHIP  
(\$ million)

Class of building	1995-96	1996-97	July-September		1997		
			1996-97	1997-98	July	August	September
<b>PRIVATE SECTOR</b>							
New houses	399.4	462.9	118.5	136.2	46.8	44.3	45.2
New other residential buildings	54.6	44.0	11.7	12.1	3.3	3.6	5.2
<i>Total new residential building</i>	<i>454.1</i>	<i>506.8</i>	<i>130.2</i>	<i>148.3</i>	<i>50.0</i>	<i>47.9</i>	<i>50.4</i>
Alterations and additions to residential buildings	117.2	115.0	27.8	30.8	10.8	10.0	10.0
Hotels, etc.	18.2	38.9	2.9	2.7	0.4	0.9	1.4
Shops	122.0	102.6	21.8	28.0	13.5	3.4	11.1
Factories	26.2	23.9	5.2	97.8	71.8	23.0	3.1
Offices	53.3	56.8	17.4	6.3	1.4	2.2	2.7
Other business premises	77.8	84.8	45.4	18.5	3.2	13.8	1.5
Educational	17.2	16.6	1.3	3.6	0.3	0.8	2.5
Religious	3.7	2.2	0.3	1.0	0.4		0.6
Health	41.9	50.0	16.2	10.2	2.4	5.8	2.0
Entertainment and recreational	23.2	13.0	1.8	22.4	20.1	1.0	1.2
Miscellaneous	9.6	33.7	2.6	2.6	1.3	0.8	0.5
<i>Total non-residential building</i>	<i>393.0</i>	<i>422.4</i>	<i>114.8</i>	<i>193.1</i>	<i>114.9</i>	<i>51.6</i>	<i>26.6</i>
<b>Total</b>	<b>964.3</b>	<b>1,044.2</b>	<b>272.7</b>	<b>372.2</b>	<b>175.7</b>	<b>109.4</b>	<b>87.0</b>
<b>PUBLIC SECTOR</b>							
New houses	13.3	7.4	1.2	4.0	1.1	1.4	1.4
New other residential buildings	1.9	1.3	—	0.5		—	0.5
<i>Total new residential building</i>	<i>15.3</i>	<i>8.7</i>	<i>1.2</i>	<i>4.4</i>	<i>1.1</i>	<i>1.4</i>	<i>1.9</i>
Alterations and additions to residential buildings	1.9	1.6	0.9	0.9	—	0.1	0.8
Hotels, etc.		3.5	0.7	0.5	0.4	0.1	—
Shops	7.9	3.6	2.4	1.0	0.8	0.2	—
Factories	6.7	2.2	0.4	0.1	—	0.1	—
Offices	43.5	36.4	15.0	5.9	0.9	0.9	4.1
Other business premises	17.8	8.5	4.0	1.1	1.0	0.1	0.1
Educational	42.5	44.5	10.0	26.8	2.2	4.3	20.2
Religious	1.0	—	—	—	—	—	—
Health	10.2	16.0	0.9	17.6	4.0	6.5	7.1
Entertainment and recreational	3.6	24.7	7.8	0.9	0.6	—	0.2
Miscellaneous	40.0	18.9	5.9	0.3	0.3	0.1	—
<i>Total non-residential building</i>	<i>173.2</i>	<i>158.4</i>	<i>47.1</i>	<i>54.1</i>	<i>10.2</i>	<i>12.2</i>	<i>31.7</i>
<b>Total</b>	<b>190.4</b>	<b>168.7</b>	<b>49.3</b>	<b>59.5</b>	<b>11.3</b>	<b>13.8</b>	<b>34.4</b>
<b>TOTAL</b>							
New houses	412.7	470.2	119.7	140.2	47.9	45.7	46.6
New other residential buildings	56.6	45.3	11.7	12.5	3.3	3.6	5.7
<i>Total new residential building</i>	<i>469.3</i>	<i>515.5</i>	<i>131.4</i>	<i>152.7</i>	<i>51.1</i>	<i>49.3</i>	<i>52.3</i>
Alterations and additions to residential buildings	119.1	116.6	28.7	31.7	10.8	10.1	10.8
Hotels, etc.	18.2	42.4	3.5	3.2	0.8	1.0	1.4
Shops	129.9	106.2	24.2	29.0	14.3	3.5	11.1
Factories	32.9	26.1	5.6	97.9	71.8	23.0	3.1
Offices	96.8	93.2	32.5	12.3	2.3	3.2	6.8
Other business premises	95.5	93.3	49.3	19.6	4.2	13.8	1.6
Educational	59.7	61.0	11.3	30.4	2.5	5.2	22.7
Religious	4.7	2.2	0.3	1.0	0.4	—	0.6
Health	52.1	66.0	17.2	27.7	6.4	12.2	9.1
Entertainment and recreational	26.8	37.7	9.6	23.3	20.8	1.0	1.5
Miscellaneous	49.6	52.6	8.5	2.9	1.6	0.8	0.5
<i>Total non-residential building</i>	<i>566.2</i>	<i>580.7</i>	<i>161.9</i>	<i>247.3</i>	<i>125.1</i>	<i>63.8</i>	<i>58.4</i>
<b>Total</b>	<b>1,154.6</b>	<b>1,212.8</b>	<b>322.0</b>	<b>431.7</b>	<b>187.0</b>	<b>123.2</b>	<b>121.4</b>

**TABLE 6. NON-RESIDENTIAL BUILDING JOBS APPROVED, BY CLASS OF BUILDING AND VALUE SIZE GROUPS**

Period	\$50,000 to less than \$200,000		\$200,000 to less than \$500,000		\$500,000 to less than \$1m		\$1m to less than \$5m		\$5m and over		Total	
	No.	Value (\$m)	No.	Value (\$m)	No.	Value (\$m)	No.	Value (\$m)	No.	Value (\$m)	No.	Value (\$m)
<b>HOTELS, ETC.</b>												
1997 July	4	0.4	1	0.4	—	—	—	—	—	—	5	0.8
August	4	0.3	3	0.7	—	—	—	—	—	—	7	1.0
September	6	0.5	3	0.9	—	—	—	—	—	—	9	1.4
<b>SHOPS</b>												
1997 July	27	2.6	4	1.1	3	1.9	—	—	1	8.7	35	14.3
August	31	2.7	3	0.9	—	—	—	—	—	—	34	3.5
September	29	2.6	3	1.0	3	2.1	—	—	1	5.5	36	11.1
<b>FACTORIES</b>												
1997 July	4	0.3	1	0.4	—	—	—	—	1	71.0	6	71.8
August	1	0.1	1	0.3	—	—	2	4.7	2	18.0	6	23.0
September	3	0.2	3	1.3	2	1.6	—	—	—	—	8	3.1
<b>OFFICES</b>												
1997 July	9	0.7	2	0.7	1	0.9	—	—	—	—	12	2.3
August	8	0.7	3	0.9	2	1.6	—	—	—	—	13	3.2
September	21	1.9	2	0.7	2	1.1	1	3.1	—	—	26	6.8
<b>OTHER BUSINESS PREMISES</b>												
1997 July	19	1.7	5	1.5	1	1.0	—	—	—	—	25	4.2
August	11	1.0	5	1.6	—	—	1	2.3	1	8.9	18	13.8
September	12	0.9	3	0.7	—	—	—	—	—	—	15	1.6
<b>EDUCATIONAL</b>												
1997 July	5	0.6	1	0.3	—	—	1	1.6	—	—	7	2.5
August	4	0.3	3	1.1	1	0.9	1	2.8	—	—	9	5.2
September	1	0.1	3	0.8	3	2.1	4	8.2	2	11.4	13	22.7
<b>RELIGIOUS</b>												
1997 July	—	—	2	0.4	—	—	—	—	—	—	2	0.4
August	—	—	—	—	—	—	—	—	—	—	—	—
September	1	0.1	1	0.5	—	—	—	—	—	—	2	0.6
<b>HEALTH</b>												
1997 July	2	0.2	—	—	—	—	2	6.3	—	—	4	6.4
August	2	0.2	—	—	—	—	—	—	2	12.0	4	12.2
September	1	0.2	3	0.7	2	1.3	—	—	1	6.8	7	9.1
<b>ENTERTAINMENT AND RECREATIONAL</b>												
1997 July	4	0.5	2	0.6	1	0.7	1	1.1	2	17.9	10	20.8
August	—	—	1	0.3	1	0.7	—	—	—	—	2	1.0
September	4	0.5	—	—	1	1.0	—	—	—	—	5	1.5
<b>MISCELLANEOUS</b>												
1997 July	5	0.5	3	1.2	—	—	—	—	—	—	8	1.6
August	2	0.2	—	—	1	0.6	—	—	—	—	3	0.8
September	4	0.3	1	0.2	—	—	—	—	—	—	5	0.5
<b>TOTAL NON-RESIDENTIAL BUILDING</b>												
1997 July	79	7.5	21	6.6	6	4.4	4	9.0	4	97.7	114	125.1
August	63	5.6	19	5.7	5	3.7	4	9.8	5	38.9	96	63.8
September	82	7.3	22	6.7	13	9.3	5	11.3	4	23.8	126	58.4



**TABLE 7. NUMBER AND VALUE OF DWELLING UNITS (a) APPROVED  
BY MATERIAL OF OUTER WALLS  
SEPTEMBER 1997**

<i>Particulars</i>	<i>Private sector</i>		<i>Public sector</i>		<i>Total</i>	
	<i>Number</i>	<i>Value (\$'000)</i>	<i>Number</i>	<i>Value (\$'000)</i>	<i>Number</i>	<i>Value (\$'000)</i>
<b>ADELAIDE STATISTICAL DIVISION</b>						
Houses —						
Brick, stone or concrete	16	2,183	—	—	16	2,183
Brick-veneer	238	20,155	23	1,418	261	21,572
Timber	2	96	—	—	2	96
Fibre cement	1	80	—	—	1	80
Steel, aluminium or other materials	1	56	—	—	1	56
Not stated	59	6,502	—	—	59	6,502
<b>Total houses</b>	<b>317</b>	<b>29,071</b>	<b>23</b>	<b>1,418</b>	<b>340</b>	<b>30,489</b>
<i>Other residential buildings</i>	56	5,003	8	469	64	5,472
<b>Total residential buildings</b>	<b>373</b>	<b>34,075</b>	<b>31</b>	<b>1,886</b>	<b>404</b>	<b>35,961</b>
<b>REST OF SOUTH AUSTRALIA</b>						
Houses —						
Brick, stone or concrete	20	1,877	—	—	20	1,877
Brick-veneer	78	6,827	—	—	78	6,827
Timber	25	1,514	—	—	25	1,514
Fibre cement	10	595	—	—	10	595
Steel, aluminium or other materials	4	242	—	—	4	242
Not stated	58	5,030	—	—	58	5,030
<b>Total houses</b>	<b>195</b>	<b>16,084</b>	<b>—</b>	<b>—</b>	<b>195</b>	<b>16,084</b>
<i>Other residential buildings</i>	4	220	—	—	4	220
<b>Total residential buildings</b>	<b>199</b>	<b>16,304</b>	<b>—</b>	<b>—</b>	<b>199</b>	<b>16,304</b>
<b>TOTAL SOUTH AUSTRALIA</b>						
Houses —						
Brick, stone or concrete	36	4,060	—	—	36	4,060
Brick-veneer	316	26,981	23	1,418	339	28,399
Timber	27	1,610	—	—	27	1,610
Fibre cement	11	675	—	—	11	675
Steel, aluminium or other materials	5	298	—	—	5	298
Not stated	117	11,532	—	—	117	11,532
<b>Total houses</b>	<b>512</b>	<b>45,156</b>	<b>23</b>	<b>1,418</b>	<b>535</b>	<b>46,573</b>
<i>Other residential buildings</i>	60	5,223	8	469	68	5,692
<b>Total residential buildings</b>	<b>572</b>	<b>50,379</b>	<b>31</b>	<b>1,886</b>	<b>603</b>	<b>52,265</b>

(a) Comprises new houses and dwelling units in new other residential buildings.

TABLE 8. SUMMARY OF BUILDING APPROVED BY STATISTICAL DIVISION, SEPTEMBER 1997

Statistical division	Dwelling units in new residential buildings (a)						Alterations and additions to residential buildings (\$'000)	Non-residential building (\$'000)	Total (\$'000)
	Houses		Other residential buildings		Total				
	Number	Value (\$'000)	Number	Value (\$'000)	Number	Value (\$'000)			
<b>PRIVATE SECTOR</b>									
Adelaide	317	29,071	56	5,003	373	34,075	7,931	20,217	62,222
Outer Adelaide	81	6,758	—	—	81	6,758	897	3,270	10,925
Yorke and Lower North	25	1,801	—	—	25	1,801	211	294	2,306
Murray Lands	36	3,083	4	220	40	3,303	381	520	4,204
South East	23	2,199	—	—	23	2,199	228	1,875	4,302
Eyre	15	1,336	—	—	15	1,336	236	203	1,775
Northern	15	906	—	—	15	906	158	235	1,298
<b>South Australia</b>	<b>512</b>	<b>45,156</b>	<b>60</b>	<b>5,223</b>	<b>572</b>	<b>50,379</b>	<b>10,042</b>	<b>26,613</b>	<b>87,033</b>
<b>PUBLIC SECTOR</b>									
Adelaide	23	1,418	8	469	31	1,886	58	14,457	16,401
Outer Adelaide	—	—	—	—	—	—	—	3,999	3,999
Yorke and Lower North	—	—	—	—	—	—	—	—	—
Murray Lands	—	—	—	—	—	—	—	5,248	5,248
South East	—	—	—	—	—	—	—	1,199	1,199
Eyre	—	—	—	—	—	—	723	6,840	7,563
Northern	—	—	—	—	—	—	—	—	—
<b>South Australia</b>	<b>23</b>	<b>1,418</b>	<b>8</b>	<b>469</b>	<b>31</b>	<b>1,886</b>	<b>781</b>	<b>31,742</b>	<b>34,409</b>
<b>TOTAL</b>									
Adelaide	340	30,489	64	5,472	404	35,961	7,989	34,673	78,623
Outer Adelaide	81	6,758	—	—	81	6,758	897	7,269	14,924
Yorke and Lower North	25	1,801	—	—	25	1,801	211	294	2,306
Murray Lands	36	3,083	4	220	40	3,303	381	5,768	9,452
South East	23	2,199	—	—	23	2,199	228	3,074	5,501
Eyre	15	1,336	—	—	15	1,336	959	7,043	9,338
Northern	15	906	—	—	15	906	158	235	1,298
<b>South Australia</b>	<b>535</b>	<b>46,573</b>	<b>68</b>	<b>5,692</b>	<b>603</b>	<b>52,265</b>	<b>10,823</b>	<b>58,355</b>	<b>121,443</b>

(a) Excludes Conversions, etc.

TABLE 9. NEW DWELLING UNITS (a) APPROVED, BY TYPE AND STATISTICAL DIVISION, SEPTEMBER 1997

Statistical division	New other residential building									Total new residential building
	New houses	Semi-detached, row or terrace houses, townhouses, etc. of			Flats, units or apartments in a building of				Total	
		1 storey	2 or more storeys	Total	1-2 storeys	3 storeys	4 or more storeys	Total		
NUMBER OF DWELLING UNITS										
Adelaide	340	20	44	64	—	—	—	—	64	404
Outer Adelaide	81	—	—	—	—	—	—	—	—	81
Yorke and Lower North	25	—	—	—	—	—	—	—	—	25
Murray Lands	36	4	—	4	—	—	—	—	4	40
South East	23	—	—	—	—	—	—	—	—	23
Eyre	15	—	—	—	—	—	—	—	—	15
Northern	15	—	—	—	—	—	—	—	—	15
<b>South Australia</b>	<b>535</b>	<b>24</b>	<b>44</b>	<b>68</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>68</b>	<b>603</b>
VALUE (\$'000)										
Adelaide	30,489	1,439	4,033	5,472	—	—	—	—	5,472	35,961
Outer Adelaide	6,758	—	—	—	—	—	—	—	—	6,758
Yorke and Lower North	1,801	—	—	—	—	—	—	—	—	1,801
Murray Lands	3,083	220	—	220	—	—	—	—	220	3,303
South East	2,199	—	—	—	—	—	—	—	—	2,199
Eyre	1,336	—	—	—	—	—	—	—	—	1,336
Northern	906	—	—	—	—	—	—	—	—	906
<b>South Australia</b>	<b>46,573</b>	<b>1,659</b>	<b>4,033</b>	<b>5,692</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>5,692</b>	<b>52,265</b>

(a) Excludes Conversions, etc.

TABLE 10. BUILDING APPROVED BY SELECTED STATISTICAL LOCAL AREA, SEPTEMBER 1997

Statistical local area	New residential buildings (a)						Alterations and additions to residential buildings (\$'000)	Non-residential building		
	Houses			Other residential buildings				Private sector (\$'000)	Total (\$'000)	Total building (\$'000)
	Private sector (number)	Public sector (number)	Total value (\$'000)	Private sector (number)	Public sector (number)	Total value (\$'000)				
<b>ADELAIDE STATISTICAL DIVISION</b>										
Adelaide (C)	—	—	—	4	—	383	345	3,094	4,060	4,788
Brighton (C)	6	—	758	—	—	—	95	—	—	854
Burnside (C)	15	—	2,029	2	—	150	834	90	90	3,103
Campbelltown (C)	23	—	1,869	—	—	—	189	—	—	2,058
East Torrens (DC)	—	—	—	—	—	—	—	—	—	—
Elizabeth (C)	—	1	49	—	—	—	13	—	—	62
Enfield (C) Pt A & Pt B	22	3	1,945	8	4	629	29	123	1,181	3,784
Gawler (M)	7	—	610	—	—	—	45	—	—	655
Glenslg (C)	1	—	169	2	—	150	338	110	110	766
Happy Valley (C)	16	—	1,742	—	—	—	191	200	200	2,134
Henley & Grange (C)	2	—	206	—	—	—	602	—	—	808
Hindmarsh and Woodville (C)	25	4	2,507	2	—	300	710	435	662	4,179
Kensington & Norwood (C)	1	—	260	—	—	—	65	154	154	479
Marion (C)	19	—	1,636	6	—	340	440	7,743	10,843	13,259
Mitcham (C)	9	—	1,413	—	—	—	627	2,816	2,816	4,857
Munno Para (C)	28	—	1,884	—	—	—	218	—	—	2,102
Noarlunga (C)	38	8	3,562	—	—	—	242	1,374	10,006	13,810
Payneham (C)	—	—	—	—	—	—	77	150	150	227
Port Adelaide (C)	3	—	269	—	—	—	41	300	300	611
Prospect (C)	3	—	218	—	—	—	206	—	—	424
St Peters (M)	—	—	—	28	—	2,800	91	935	935	3,826
Salisbury (C)	21	—	1,771	—	4	240	240	377	529	2,781
Stirling (DC)	4	—	515	—	—	—	398	—	—	913
Tea Tree Gully (C)	57	7	5,527	—	—	—	476	2,000	2,000	8,003
Thebarton (M)	1	—	55	—	—	—	191	—	161	407
Unley (C)	2	—	238	2	—	240	651	115	115	1,245
Walkerville (M)	1	—	220	2	—	240	233	—	—	693
West Torrens (C)	8	—	688	—	—	—	356	201	361	1,405
Willunga (DC)	5	—	346	—	—	—	46	—	—	392
Unincorporated	—	—	—	—	—	—	—	—	—	—
<b>Adelaide (SD)</b>	<b>317</b>	<b>23</b>	<b>30,489</b>	<b>56</b>	<b>8</b>	<b>5,472</b>	<b>7,989</b>	<b>20,217</b>	<b>34,673</b>	<b>78,623</b>
<b>REST OF STATE</b>										
Barossa (DC)	3	—	245	—	—	—	39	—	—	284
Light (DC)	10	—	865	—	—	—	—	400	400	1,265
Mallala (DC)	7	—	545	—	—	—	—	—	—	545
Mount Barker (DC)	—	—	—	—	—	—	—	—	625	625
Mount Gambier (C)	11	—	947	—	—	—	60	600	1,799	2,806
Murray Bridge (RC)	8	—	655	—	—	—	85	—	—	740
Northern Yorke Peninsula (DC)	6	—	405	—	—	—	—	—	—	405
Port Augusta (C)	3	—	166	—	—	—	13	—	—	179
Port Elliot & Goolwa (DC)	12	—	1,029	—	—	—	126	442	442	1,597
Port Lincoln (C)	8	—	754	—	—	—	786	85	6,925	8,465
Port Pirie (C)	3	—	112	—	—	—	21	—	—	133
Roxby Downs (M)	—	—	—	—	—	—	15	100	100	115
Strathalbyn (DC)	3	—	382	—	—	—	21	—	—	403
Victor Harbor (DC)	17	—	1,475	—	—	—	196	976	976	2,647
Whyalla (C)	3	—	188	—	—	—	69	80	80	336
Other	101	—	8,316	4	—	220	1,404	3,714	12,336	22,276
<b>Rest of State</b>	<b>195</b>	<b>—</b>	<b>16,084</b>	<b>4</b>	<b>—</b>	<b>220</b>	<b>2,834</b>	<b>6,397</b>	<b>23,682</b>	<b>42,820</b>
<b>SOUTH AUSTRALIA</b>										
<b>South Australia</b>	<b>512</b>	<b>23</b>	<b>46,573</b>	<b>60</b>	<b>8</b>	<b>5,692</b>	<b>10,823</b>	<b>26,613</b>	<b>58,355</b>	<b>121,443</b>

(a) Excludes Conversions, etc. (C) Municipality with city status. (DC) District Council. (M) Municipality. (RC) Rural City. (SD) Statistical Division.

## EXPLANATORY NOTES

### Introduction

This publication contains monthly details of building work approved.

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

### Scope and Coverage

3. Statistics of building work approved are compiled from:

- (a) permits issued by local authorities in areas subject to building control by those authorities;
- (b) contracts let or day labour work authorised by Commonwealth, State, semi-government and local government authorities;
- (c) major building activity which takes place in areas not subject to the normal administrative approval processes (e.g. buildings on remote mine sites).

4. 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 the ABS publication *Engineering Construction Survey* (8762.0).

5. 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.

6. From July 1990, the statistics cover:

- (a) all approved new residential building jobs valued at \$10,000 or more (previously \$5,000 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 (previously \$30,000 or more).

These changes in coverage do not have a statistically significant effect on broad building approvals aggregate data. However, care should be taken in interpreting data for specific classes of non-residential building.

### Definitions

7. A building is defined as a rigid, fixed and permanent structure which has a roof. Its intended purpose is primarily to house people, plant, machinery, vehicles, goods or livestock. An integral feature of a building's design, to satisfy its intended use, is the provision for regular access by persons.

8. A dwelling unit is defined as a self-contained suite of rooms, including cooking and bathing facilities and intended for long term residential use. Units (whether self-contained or not) within buildings offering institutional care such as hospitals or temporary accommodation, such as motels, hostels and holiday apartments are not defined as dwelling units. The value of units of this type is included in the appropriate category of non-residential buildings' approved.

9. A residential building is defined as a building predominantly consisting of one or more dwelling units. Residential buildings can be either houses or other residential buildings.

(a) A house is defined as a detached building predominantly used for long term residential purposes and consisting of only one dwelling unit. Thus detached granny flats and detached dwelling units such as caretaker's 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 town-houses, duplexes, apartment buildings etc.).

10. From the January 1995 issue of this publication, the number of dwelling units approved as part of alterations and additions to or conversions of existing residential or non-residential buildings and as part of the construction of non-residential building is shown separately in Tables 1 and 10 under the heading of 'Conversions, etc.', and is included in the total number of dwelling units shown in these tables. Previously, such dwellings were only included as a footnote.

11. In addition, from the January 1995 issue, the seasonally adjusted and trend estimates for the number of dwelling units approved, shown in Table 3, include these conversions, etc. Previously, only dwelling units approved as part of the construction of new residential buildings were included in these estimates.

12. The value of new residential building approved continues to exclude the value of dwelling units approved as part of alterations and additions to or conversions of existing residential or non-residential buildings and as part of the construction of non-residential building. Approved building work represented by these conversions, etc. jobs continues to be included in the value of alterations and additions to residential buildings or in the value of non-residential building as appropriate.

13. Value 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

14. 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.

15. Functional classification of buildings: a building is classified according to its intended major function. Hence a building which is ancillary to other buildings or forms a part of a group of related buildings is classified to the function of the building and not to the function of the group as a whole. An example of this can be seen in the treatment of building work approved for a factory complex. In this case a detached administration building would be classified to Offices, a

detached cafeteria building to Shops, while factory buildings would be classified to Factories. An exception to this rule is the treatment of group accommodation buildings e.g. a student accommodation building on a university campus would be classified to Educational.

### Seasonal Adjustment

16. 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.

17. Table 3 shows seasonally adjusted estimates for both private and total dwellings. For the four series shown, 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.

18. 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. These irregular influences that are highly volatile can make it difficult to interpret the movement of the series even after adjustment for seasonal variation.

19. Most of the component series have been seasonally adjusted independently. Therefore, 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 optimum 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.

20. As happens with all seasonally adjusted series, the seasonal factors are reviewed annually to take account of each additional year's data. For Building Approvals, the results of the latest review are shown in the July issue each year, but have been brought forward this year and shown in this issue. Further information about seasonal adjustment can be obtained from the Assistant Director of Time Series Analysis, Canberra, on (02) 6252 6345.

### Trend Estimates

21. Seasonally adjusted series can be smoothed to reduce the impact of the irregular component in the adjusted series. This smoothed seasonally adjusted series is called a trend estimate.

22. Table 3 shows trend estimates for both private and total dwellings. These are obtained by applying a 13-term Henderson-weighted moving average to all months of the respective seasonally adjusted series except the last six months. Trend series are created for the last six months by applying surrogates of the Henderson moving average to the seasonally adjusted time series. For further information, see *A Guide to Interpreting Time Series - Monitoring 'Trends': an Overview* (1348.0).

23. While the smoothing technique described in paragraphs 21 and 22 enables trend estimates to be produced for the latest few months, it does result in revisions to the trend estimates as new data become available. Generally, revisions become smaller over time and, after three months, usually have a negligible impact on the series. Revisions to the original data and re-analysis of seasonal factors may also lead to revisions to the trend.

### Estimates at Constant Prices

24. Estimates of the quarterly value of building approvals at average 1989-90 prices are presented in Table 4. (Note: monthly value data at constant prices are not available.)

25. 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 are derived from the same price data underlying the deflators compiled for the dwelling and non-dwelling construction components of the national accounts aggregate 'Gross fixed capital expenditure'.

26. 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).

### Australian Standard Geographical Classification (ASGC)

27. Area statistics are now being classified to the *Australian Standard Geographical Classification, 1996 Edition* (1216.0), effective from 1 July 1996, and ASGC terminology has been adopted in the presentation of building statistics.

### 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: photocopy, computer printout and clerically extracted tabulation. A charge may be made for providing unpublished information in these forms.

Other ABS publications which may be of interest include:

*Building Approvals, Australia* (8731.0) - issued monthly  
*Building Activity, Australia: Dwelling Unit Commencements, Preliminary* (8750.0) - issued quarterly  
*Building Activity, South Australia* (8752.4) - issued quarterly  
*Housing Finance for Owner Occupation, Australia* (5609.0) - issued monthly  
*Price Index of Materials Used in House Building* (6408.0) - issued monthly

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

### Symbols and Other Usages

- nil or rounded to zero (including null cells)  
 r figure or series revised since previous issue  
 n.a. not available

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

**P.M Gardner**  
 Regional Director



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