APRIL 1998 8731.5

BUILDING APPROVALS

WESTERN AUSTRALIA

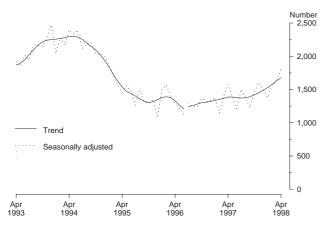
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MAIN FEATURES

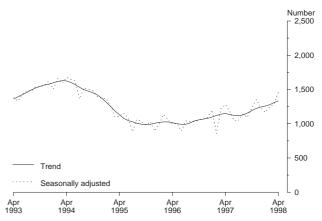
NUMBER OF DWELLING UNITS APPROVED

	April 1997	March 1998	April 1998	April 1997 to April 1998 change	March 1998 to April 1998 change
Original series	1,626	1,747	1,576	-3.1%	-9.8%
Seasonally adjusted Trend estimate	1,577 1,387	1,613 1,635	1,821 1,677	15.5% 20.9%	12.9% 2.6%





PRIVATE SECTOR HOUSES APPROVED



Residential building

- The trend for the total number of dwelling units approved increased by 2.6% in April and is 20.9% higher than April 1997. Growth will continue unless the seasonally adjusted estimate falls by more than 23.0% in May.
- The trend for the number of private sector houses increased 1.9% in April and is 16.2% higher than a year ago.
- In original terms, there were 1,576 dwelling units approved in April, a decrease of 171 (9.8%) on March.
- The value of new residential building approved was \$163.3 million and the value of alterations and additions to residential buildings was \$12.4 million.

• In terms of average 1989–90 prices the value of new residential building approved in the March quarter fell by 2.1% to \$431.0 million. It is, however, 25.0% higher than for the March quarter 1997.

Non-residential building

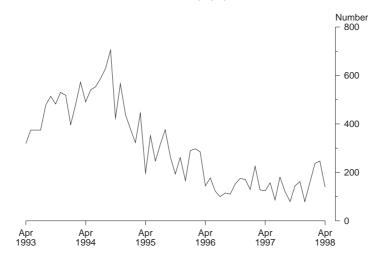
- The value of non-residential building approved in April was \$42.3 million. Other business premises accounted for \$9.6 million, followed by Shops (\$7.4 million) and Educational (\$6.7 million), of which one job accounted for \$5.6 million.
- There was one job valued at \$5 million and over and five jobs valued between \$1 million and \$5 million.
- In terms of average 1989–90 prices the value of non-residential building approved in the March quarter fell by 24.4% to \$169.7 million. It is 33.4% below the level of the March quarter 1997.

Please note that changes will be made to the content and presentation of the next issue of this publication to more closely align it with *Building Approvals*, *Australia* (Cat. no. 8731.0)

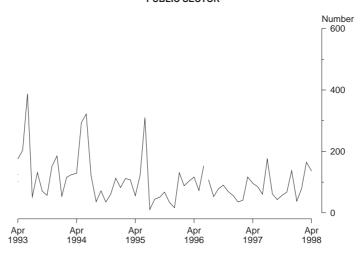
INQUIRIES

- 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 contact Information Services on Perth (08) 9360 5140, call at 2 The Esplanade, Perth or write to Information Services, ABS, GPO Box K881, Perth WA, 6001.

NEW OTHER RESIDENTIAL BUILDINGS APPROVED PRIVATE SECTOR



TOTAL DWELLING UNITS APPROVED PUBLIC SECTOR



VALUE OF BUILDING WORK APPROVED

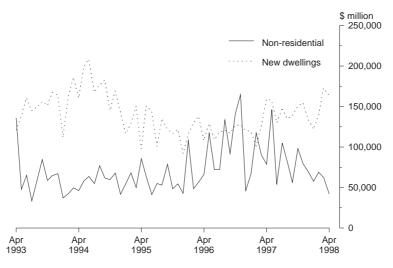


TABLE 1. NUMBER OF DWELLING UNITS APPROVED

	Λ	lew houses		New other i	residential build	dings			Total (a)	
Period	Private sector	Public sector	Total	Private sector	Public sector	Total	Conversions, etc.	Private sector	Public sector	Total
			PER	TH STATIS	ΓICAL DIVIS	SION				
1994-95	11,238	255	11,493	4,430	509	4,939	98	15,765	765	16,530
1995-96	8,237	149	8,386	2,376	451	2,827	80	10,693	600	11,293
1996-97	9,106	261	9,367	1,434	192	1,626	67	10,601	459	11,060
1996-97										
July-April	7,393	218	7,611	1,229	165	1,394	67	8,683	389	9,072
1997-98										
July-April	8,294	265	8,559	1,188	383	1,571	83	9,565	648	10,213
1997—							_		•0	=0.0
February	538	24	562	222	4	226	5	765	28	793
March	672	24	696	105	36	141	11	788	60	848
April	939	13	952	90	36	126	4	1,033	49	1,082
May	929 784	20 23	949 807	139 66	27	166 66	_	1,068	47	1,115 873
June	762	51	813	150	24	174	24	850 936	23 75	1,011
July August	808	20	813 828	101	4	105	10	936 919	24	943
September	813	14	827	74	14	88	17	904	28	932
October	836	6	842	115	38	153	1	952	44	996
November	913	35	948	96	21	117	2	1,011	56	1,067
December	824	22	846	63	76	139	25	912	98	1,010
1998— January	668	22	690	124	16	140		792	38	830
February	786	30	816	175	17	192	1	962	47	1,009
March	961	17	978	201	130	331	2	1,164	147	1,311
April	923	48	971	89	43	132	1	1,013	91	1,104
				WESTERN A	AUSTRALIA	Λ				
1994-95	15,783	424	16,207	5,297	808	6,105	115	21,194	1,233	22,427
1995-96	11,945	266	12,211	2,900	627	3,527	115	14,960	893	15,853
1996-97	13,068	565	13,633	1,682	331	2,013	97	14,841	902	15,743
1996-97										
July-April	10,635	471	11,106	1,437	278	1,715	92	12,158	755	12,913
1997-98 July-April	11,993	503	12,496	1,558	462	2,020	99	13,650	965	14,615
	11,223	505	12,.,0	1,550	.02	2,020		15,050	, 05	1 1,015
1997—										
February	773	30	803	226	12	238	6	1,005	42	1,047
March	958	81	1,039	129	36	165	12	1,099	117	1,216
April	1,397	59	1,456	125	38	163	7	1,529	97	1,626
May	1,327	49	1,376	158	37	195 103	5	1,490	86	1,576
June	1,106	45 134	1,151	87 182	16 41	223	25	1,193	61 175	1,254
July August	1,149 1,175	134 50	1,283 1,225	120	12	132	25 16	1,356 1,311	175 62	1,531 1,373
September	1,173	30	1,223	81	14	95	17	1,311	44	1,373
October	1,304	19	1,323	145	38	183	2	1,451	57	1,508
November	1,308	47	1,355	163	21	184	2	1,473	68	1,541
December	1,167	47	1,214	80	91	171	27	1,274	138	1,412
1998—										
January	953	23	976	162	16	178	1	1,116	39	1,155
	1,126	39	1,165	237	41	278	1	1,364	80	1,444
February	1,120									
February March	1,330	33	1,363	248	132	380	4	1,582	165	1,747

⁽a) Includes Conversions, etc. See paragraphs 9-11 of the Explanatory Notes.

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

						(\$ million)							
		Houses			idential bu			Total		Alterations and	Non-resi		Total by	vil din a
		Houses Public		Private	idential bi Public	uuaings	Private	Public		additions to residential	build Private	ing	Total bi Private	uiaing
Period	sector	sector	Total	sector	sector	Total	sector	sector	Total	buildings	sector	Total	sector	Tota
					PER'	TH STA	TISTICAI	L DIVISI	ON					
1994-95	928.5	17.9	946.4	302.5	31.6	334.1	1,231.0	49.5	1,280.6	126.1	438.5	555.5	1,795.5	1,962.2
1995-96 1996-97	787.4 903.3	10.6 20.1	798.0 923.3	186.5 136.1	33.0 11.1	219.6 147.2	973.9 1,039.4	43.6 31.2	1,017.6 1,070.6	128.2 139.5	512.8 542.5	597.3 779.9	1,614.7 1,718.7	1,743.1 1,990.0
1996-97														
July-April 1997-98	727.0	16.9	743.9	116.8	9.6	126.4	843.8	26.5	870.3	116.5	466.5	661.7	1,425.0	1,648.5
July-April	865.4	19.1	884.6	102.7	22.3	125.0	968.1	41.5	1,009.6	126.5	411.8	519.0	1,505.9	1,655.0
1997— February	55.0	1.6	56.6	19.8	0.3	20.1	74.9	1.9	76.7	9.8	31.5	35.5	116.2	122.0
March	69.3	1.8	71.1	12.6	2.8	15.4	81.8	4.6	86.5	12.6	56.4	62.6	150.8	161.7
April	90.5	1.0	91.5	10.2	1.9	12.2	100.7	2.9	103.7	14.0	42.1	43.8	156.4	161.5
May	93.7	1.3	95.0	13.1	1.5	14.6	106.8	2.8	109.7	11.3	48.8	89.8	166.7	210.8
June	82.5	1.8	84.4	6.2	_	6.2	88.8	1.8	90.6	11.8	27.2	28.4	127.0	130.8
July	78.3	4.2	82.6	12.0	1.4	13.3	90.3	5.6	95.9	12.6	53.9	87.5	156.8	196.0
August	82.3	1.9	84.2	7.6	0.3	7.9	89.9	2.2	92.0	12.4	30.5	55.2	132.8	159.7
September	86.8	1.1	87.9	7.7	2.1	9.7	94.5	3.1	97.6	12.8	41.8	42.2	149.0	152.6
October	84.6	0.4	85.0	10.5	2.0	12.5	95.1	2.4	97.5	13.7	52.2	70.9	160.9	182.1
November	94.9	2.0	96.9	7.8	1.2	9.0	102.7	3.2	105.9	12.7	56.9	61.6	172.2	180.2
December	84.9	1.4	86.3	5.1	3.8	8.9	90.0	5.2	95.2	13.1	40.9	48.9	143.8	157.2
1998— January	72.3	1.4	73.6	12.1	1.0	13.2	84.4	2.4	86.8	12.0	37.4	47.7	133.8	146.6
February	81.5	2.3	83.8	11.7	0.9	12.7	93.2	3.2	96.4	13.4	36.2	41.2	142.7	151.0
March	102.2	1.5	103.7	18.1	6.8	24.9	120.2	8.4	128.6	13.6	41.7	42.1	175.6	184.3
April	97.6	3.0	100.6	10.2	2.8	13.0	107.8	5.8	113.6	10.2	20.3	21.5	138.2	145.3
						WESTE	RN AUST	RALIA						
1994-95	1,319.8	34.5	1,354.3	366.3	54.0	420.3	1,686.1	88.5	1,774.6	156.2	580.9	728.2	2,422.9	2,659.0
1995-96	1,123.8	24.6	1,148.3	225.5	46.9	272.3	1,349.2	71.4	1,420.7	162.9	692.0	803.1	2,203.6	2,386.6
1996-97	1,294.2	54.9	1,349.1	153.8	21.8	175.7	1,448.0	76.8	1,524.7	172.7	774.3	1,204.4	2,391.0	2,901.8
1996-97				1000	40.5			4.50				4 000 0		
July-April 1997-98	1,041.5	46.5	1,088.0	130.8	18.5	149.3	1,172.3	65.0	1,237.3	143.5	664.8	1,003.8	1,977.6	2,384.6
July-April	1,254.2	45.2	1,299.4	131.4	28.7	160.1	1,385.6	73.9	1,459.5	157.1	569.7	722.6	2,111.6	2,339.2
1997—	=0.4		00.5					•	101.0			4450	1011	
February	78.1	2.1	80.2	20.3	0.8	21.1	98.4	3.0	101.3	12.3	73.6	117.8	184.1	231.4
March	98.5	10.2	108.7	14.3	2.8	17.1	112.8	13.0	125.8	15.0	68.3	90.4	196.0	231.1
April	137.0	6.8	143.8	13.3	2.1	15.4	150.3	9.0	159.2	16.8	72.7	78.8	239.0	254.8
May June	135.8 116.8	4.7 3.8	140.5 120.6	14.7 8.4	2.1 1.2	16.8 9.6	150.5 125.2	6.8 5.0	157.3 130.2	15.2 14.1	63.1 46.3	146.4 54.1	228.4 184.9	318.9 198.4
July	118.2	3.8 11.6	120.6	8.4 14.7	2.7	9.6 17.4	133.0	14.3	147.2	14.1	71.2	105.3	220.2	268.5
August	119.6	5.4	125.1	9.0	0.9	10.0	128.7	6.4	135.0	15.7	51.8	81.4	196.2	232.1
September	126.1	2.9	129.0	8.3	2.1	10.3	134.4	4.9	139.3	15.8	54.3	56.5	204.4	211.7
October	134.4	2.1	136.4	12.2	2.0	14.2	146.6	4.0	150.6	18.4	64.6	98.3	229.5	267.2
November	138.4	3.8	142.2	11.2	1.2	12.4	149.6	5.0	154.6	16.2	70.5	79.4	236.3	250.2
December	119.2	4.3	123.4	6.9	4.8	11.7	126.1	9.1	135.2	16.2	57.3	70.3	199.4	221.6
1998—														
January	103.7	1.5	105.1	16.2	1.0	17.2	119.8	2.5	122.3	13.8	46.3	57.6	179.9	193.7
February	117.2	3.4	120.6	15.8	2.8	18.6	132.9	6.3	139.2	16.5	59.8	69.1	209.1	224.8
March	140.4	3.3	143.7	22.0	7.1	29.1	162.4	10.4	172.8	16.2	60.2	62.4	238.7	251.4
April	137.1	7.0	144.1	15.1	4.1	19.1	152.2	11.1	163.3	12.4	33.7	42.3	198.0	218.0

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

		Н	ouses			Tota	l	
	Priv sec		Tota	l	Private sector		Total	
Period	Seasonally adjusted	Trend estimate	Seasonally adjusted	Trend estimate	Seasonally adjusted	Trend estimate	Seasonally adjusted	Trend estimate
1997—								
February	858	1,124	891	1,167	1,102	1,285	1,146	1,352
March	1,224	1,142	1,286	1,188	1,301	1,304	1,406	1,371
April	1,281	1,148	1,347	1,203	1,488	1,311	1,577	1,387
May	1,184	1,139	1,227	1,204	1,325	1,302	1,387	1,389
June	1,052	1,124	1,075	1,196	1,183	1,285	1,208	1,379
July	1,051	1,119	1,218	1,192	1,295	1,274	1,506	1,373
August	1,145	1,130	1,211	1,199	1,270	1,275	1,374	1,376
September	1,094	1,158	1,121	1,219	1,163	1,292	1,226	1,394
October	1,236	1,196	1,274	1,247	1,399	1,322	1,474	1,424
November	1,353	1,226	1,403	1,269	1,509	1,356	1,604	1,457
December	1,239	1,244	1,290	1,282	1,318	1,387	1,503	1,490
1998—								
January	1,170	1,259	1,202	1,300	1,322	1,424	1,380	1,533
February	1,248	1,280	1,290	1,326	1,495	1,467	1,580	1,582
March	1,280	1,309	1,304	1,359	1,467	1,516	1,613	1,635
April	1,460	1,334	1,551	1,389	1,695	1,554	1,821	1,677

(a) Includes Conversions, etc. See paragraphs 9-11 of the Explanatory Notes. (b) Seasonally adjusted series smoothed by application of a 13-term Henderson moving average. Trend estimates for the most recent months are provisional and can be revised as data for additional months become available. See Explanatory Notes for a more detailed explanation. (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)

		New residential b	uilding		Alterations	Non-resid buildi		Total buildir	ıg
	Houses		Other		and — additions				
Period	Private sector	Total	residential buildings	Total	to residential buildings	Private sector	Total	Private sector	Total
1994-95	1,356.3	1,391.5	407.6	1,799.0	160.5	559.2	701.2	2,427.5	2,660.7
1995-96	1,131.1	1,155.7	259.1	1,414.9	163.9	654.1	758.9	2,158.9	2,337.6
1996-97	1,303.9	1,359.2	164.5	1,523.8	174.1	719.5	1,118.9	2,331.8	2,816.8
1996—									
Dec. qtr.	316.2	328.0	46.2	374.3	42.8	194.4	328.3	592.4	745.4
1997—									
Mar. qtr.	279.7	294.4	50.3	344.7	42.4	160.9	254.7	527.8	641.8
June qtr.	393.2	408.6	38.8	447.4	46.4	167.5	256.8	637.6	750.7
Sept. qtr.	367.2	387.3	34.8	422.1	47.9	161.8	221.9	605.0	691.9
Dec. qtr.	395.1	405.3	35.1	440.3	51.1	174.1	224.4	646.4	715.8
1998—									
Mar. qtr	363.9	372.0	59.0	431.0	46.7	149.2	169.7	606.4	647.5

(a) See paragraphs 16-26 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)

		(\$ mill					
Class of building	1995-96	1996-97	July-Apr 1996-97	<u>il</u> 1997-98	E-h	1998	A1
	1995-90	PRIVATE S		1997-98	February	March	April
New houses	1,123.8	1,294.2	1,041.5	1,254.2	117.2	140.4	137.1
New other residential buildings	225.5	153.8	130.8	131.4	15.8	22.0	15.1
Total new residential building	1,349.2	1,448.0	1,172.3	1,385.6	132.9	162.4	152.2
Alterations and additions to residential buildings	162.4	168.7	140.6	156.3	16.3	16.1	12.2
residential buildings	102.4	106.7	140.0	130.3	10.3	10.1	12.2
Hotels, etc.	113.3	75.4	65.9	45.3	7.0	7.6	4.1
Shops	117.5 79.5	162.7	125.2	123.8	8.0	18.8 9.0	7.4
Factories Offices		96.2	80.3 107.6	74.9	10.1	9.0 2.2	5.8
	72.8 107.9	117.2 113.6	92.0	67.7 119.1	4.5 9.0	16.5	3.1 9.5
Other business premises Educational	43.5	38.8	34.7	30.3	2.5	1.0	1.1
Religious	43.3	5.2	4.4	7.7	1.0	0.3	- 1.1
Health	31.6	96.1	91.5	49.6	12.7	0.9	1.7
Entertainment and recreational	34.1	36.6	32.6	32.7	4.5	3.3	0.5
Miscellaneous	87.3	32.5	30.5	18.7	0.6	0.7	0.3
Total non-residential building	692.0	774.3	664.8	569.7	59.8	60.2	33.7
Total	2,203.6	2,391.0	1,977.6	2,111.6	209.1	238.7	198.0
Total	2,203.0	PUBLIC S		2,111.0	209.1	256.7	196.0
		PUBLIC S	ECTOR				
New houses	24.6	54.9	46.5	45.2	3.4	3.3	7.0
New other residential buildings	46.9	21.8	18.5	28.7	2.8	7.1	4.1
Total new residential building	71.4	76.8	65.0	73.9	6.3	10.4	11.1
Alterations and additions to							
residential buildings	0.5	3.9	2.9	0.8	0.1	0.1	0.3
Hotels, etc.	_	_	_	1.4	0.7	_	_
Shops	1.5	1.5	1.3	0.6	_	_	_
Factories	0.9	6.4	6.3	2.0	_	_	_
Offices	33.6	39.2	33.8	40.1	0.4	_	1.1
Other business premises	4.1	46.8	45.2	7.9	3.2	0.1	0.1
Educational	37.0	113.2	100.3	61.3	_	_	5.7
Religious	_	0.2	_	_	_	_	_
Health	1.2	118.4	74.1	14.1	_	_	_
Entertainment and recreational	13.9	55.7	31.7	9.7	1.1	1.3	1.5
Miscellaneous	18.8	48.8	46.2	15.9	3.9	0.9	0.2
Total non-residential building	111.1	430.1	339.0	152.9	9.3	2.3	8.6
Total	183.1	510.8	406.9	227.6	15.7	12.8	20.0
		TOTA	AL				
New houses	1,148.3	1,349.1	1,088.0	1,299.4	120.6	143.7	144.1
New other residential buildings	272.3	175.7	149.3	160.1	18.6	29.1	19.1
Total new residential building	1,420.7	1,524.7	1,237.3	1,459.5	139.2	172.8	163.3
Alterations and additions to							
residential buildings	162.9	172.7	143.5	157.1	16.5	16.2	12.4
Hotels, etc.	113.3	75.4	65.9	46.7	7.7	7.6	4.1
Shops	119.0	164.2	126.5	124.4	8.0	18.8	7.4
Factories	80.4	102.6	86.7	76.9	10.1	9.0	5.8
Offices	106.5	156.4	141.4	107.8	4.9	2.2	4.2
Other business premises	112.0	160.4	137.3	126.9	12.2	16.6	9.6
Educational	80.4	152.0	135.0	91.5	2.5	1.0	6.7
Religious	4.4	5.4	4.4	7.7	1.0	0.3	_
Health	32.8	214.5	165.6	63.7	12.7	0.9	1.7
Entertainment and recreational	48.0	92.2	64.3	42.4	5.6	4.6	2.0
Miscellaneous	106.2	81.3	76.8	34.6	4.4	1.6	0.6
Total non-residential building	803.1	1,204.4	1,003.8	722.6	69.1	62.4	42.3
Total	2,386.6	2,901.8	2,384.6	2,339.2	224.8	251.4	218.0

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

						ZE GROUI						
	\$50,000 t than \$20		\$200,000 than \$50		\$500,000 t than \$1		\$1m to than \$.		\$5m a over		Tota	l
Period	No.	Value (\$m)	No.	Value (\$m)	No.	Value (\$m)	No.	Value (\$m)	No.	Value (\$m)	No.	Value (\$m)
					HOTELS, I	ETC.						
1998 February	5	0.6	1	0.5	3	2.2	2	4.4	_	_	11	7.7
March	4	0.4	1	0.2	1	0.5	2	6.5	_	_	8	7.6
April	8	0.7	13	3.4			_		_	_	21	4.1
					SHOPS	S						
1998 February	22	2.0	10	3.4	2	1.5	1	1.2	_	_	35	8.0
March	21	1.6	6	1.5	3	2.3	2	2.9	2	10.6	34	18.8
April	22	2.1	5	1.5	1	0.8	1	3.1			29	7.4
					FACTOR							
1998 February	11	1.3	6	1.8	1	0.8	2	6.3	_	_	20	10.1
March	9	1.0	9	2.4	2	1.3	1	4.3	_	_	21	9.0
April	12	1.4	9	2.4	3	2.1					24	5.8
					OFFICE	ES						
1998 February	15	1.4	4	1.3	2	1.3	1	1.0	_	_	22	4.9
March	8	0.6	2	0.9	1	0.7	_	_	_	_	11	2.2
April	15	1.3	3	0.7	1	0.5	1	1.6			20	4.2
						S PREMISES						
1998 February	15	1.5	8	2.5	1	0.7	3	7.5	_	_	27	12.2
March	15	1.5	8	2.3	_	_	5	12.8	_	_	28	16.6
April	20	2.1	7	2.2	4	2.3	2	3.0			33	9.6
					EDUCATIO	NAL						
1998 February	2	0.1	3	1.1	_	_	1	1.3	_	_	6	2.5
March	4	0.4	2	0.6	_	_	_	_	_		6	1.0
April	3	0.3	1	0.3	1	0.5			1	5.6	6	6.7
					RELIGIO							
1998 February	1	0.1	1	0.2	1	0.8	_	_	_	_	3	1.0
March	1	0.1	1	0.2	_	_	_	_	_	_	2	0.3
April												
					HEALT							
1998 February	_	- 0.1	_	_	_		2	6.9	1	5.8	3	12.7
March	1	0.1	1	0.2	1	0.5 0.7	 1	1.0	_	_	3	0.9
April					1	0.7	1	1.0			2	1.7
1000 7.1		0.5				RECREAT		2.0			- 12	
1998 February	6	0.5	3 7	1.0	2 1	1.2	2	3.0	_	_	13	5.6
March April	2 2	0.2 0.2	3	2.6	1	0.9		1.0	_	_	11	4.6
Аргіі		0.2	3	1.0	1	0.8					6	2.0
1998 February	2	0.1	2		MISCELLAN		1	2.6				4.4
March	2	0.1	3 2	0.7 0.6	_ 1	0.7	1	3.6	_	_	6	4.4
March April	3 2	0.2 0.2	2	0.6	_	0.7	_	_	_	_	6 4	1.6 0.6
				TOTAL NO	N-BEGIDEN	ITIAL BUIL	DING					
1998 February	79	7.5	39	12.4	N-KESIDEN 12	8.4	15	35.1	1	5.8	146	69.1
March	68	5.9	39	11.6	10	6.9	11	27.5	2	10.6	130	62.4
April	84	8.3	43	12.0	12	7.7	5	8.7	1	5.6	145	42.3

TABLE 7. BUILDING APPROVALS BY STATISTICAL LOCAL AREAS (a), APRIL 1998

		Ne	w residentia	ıl building (b)		Alterations	Non-resid		
		Houses		Other r	esidential bui	ldings	and - additions			
Statistical local area, statistical subdivision and statistical division	Private sector (number)	Public sector (number)	Total value (\$'000)	Private sector (number)	Public sector (number)	Total value (\$'000)	to residential buildings (\$'000)	Private sector (\$'000)	Total (\$'000)	Total building (\$'000)
siatistical aivision	(number)	(number)	(\$ 000)	(number)	(number)	(\$ 000)	(\$ 000)	(\$ 000)	(\$ 000)	
		PERT	H STATIS	STICAL DI	VISION					
Cambridge (T)	12	_	2,002	5	_	288	560	180	180	3,030
Claremont (T)	1	_	290	_	_	_	113	520	520	923
Cottesloe (T)	5	_	1,881	_	_	_	150	_	_	2,031
Mosman Park (T)	3	_	700	_	_	_	653	_	_	1,353
Nedlands (C)	11	_	2,304	_	_	_	1,605	_	_	3,909
Peppermint Grove (S)	_	_	_	_	_	_	40	_		40
Perth (C) — Inner	_	_		_	_		_	617	1,157	1,157
Perth (C) — Remainder	3	_	794	11	_	1,973		359	359	3,126
Subiaco (C)	7	_	1,013	_	_	210	203	_	_	1,217
Vincent (T)	9	_	1,378	2	_	210	218	1 676	2216	1,805
Central Metropolitan (SSD)	51	_	10,363	18	_	2,471	3,541	1,676	2,216	18,591
Bassendean (T)	4	_	324	_	_	_	117	295	295	736
Bayswater (C)	10	_	1,125	_	_	_	385	225	225	1,736
Kalamunda (S)	19	_	2,122	_	_	_	186	175	498	2,805
Mundaring (S)	24	_	2,330	_	_	_	224	70	70	2,624
Swan (S)	116	8	10,476	4	3	443	77	4,662	4,812	15,808
East Metropolitan (SSD)	173	8	16,378	4	3	443	989	5,427	5,900	23,710
Stirling (C) — Central	41	1	3,860	25	12	2,455	329	1,000	1,000	7,643
Stirling (C) — Coastal	31	1	3,456	6	4	785	476	280	280	4,997
Stirling (C) — South-Eastern	10	26	2,560	2	_	200	699	_	50	3,509
Wanneroo (C) — Central Coastal	66	_	7,151	6	_	685	202	70	70	8,108
Wanneroo (C) — North-East	40	1	3,690	_	_	_	70	50	50	3,810
Wanneroo (C) — North-West	70	_	6,809	_	_	_	_			6,809
Wanneroo (C) — South-East	32	_	2,714	_	_	_	89	1,175	1,175	3,978
Wanneroo (C) — South-West	20	_	2,990	2	_	162	700	300	300	4,152
North Metropolitan (SSD)	310	29	33,230	41	16	4,287	2,565	2,875	2,925	43,007
Cockburn (C)	55	_	5,238	_	_	_	199	2,610	2,610	8,047
East Fremantle (T)	_	_	_	_	_	_	421	_	_	421
Fremantle (C) — Inner	_	_	_	_	_	_	_	_	_	_
Fremantle (C) — Remainder	9	_	1,162	12	_	1,264	389	270	270	3,085
Kwinana (T)	11	_	788	_	_	_	32	660	660	1,480
Melville (C)	37		6,282	_	_	_	715	930	930	7,927
Rockingham (C)	65	7	5,979		_	1 264	290	3,684	3,684	9,953
South West Metropolitan (SSD)	177	7	19,449	12	_	1,264	2,046	8,154	8,154	30,914
Armadale (C)	15	_	1,539	_	_	_	80	_	_	1,619
Belmont (C)	36	_	3,504	5		328	62	110	110	4,003
Canning (C)	46	3	4,073	_	17	905	133	1,626	1,626	6,736
Gosnells (C)	81	_	7,758	_	_	_	290	140	298	8,347
Serpentine-Jarrahdale (S)	9	_	1,205	_	_	2 600	108	300	300	1,613
South Perth (C)	15	_	2,094	6	_	2,600	205	_	_	4,898
Victoria Park (T) South East Metropolitan (SSD)	10 212	1 4	1,027 21,199	3 14	7 24	697 4,530	168 1,045		2,334	1,892 29,108
. , ,										
Total	923	48	100,620	89	43	12,995	10,186	20,308	21,529	145,329

TABLE 7. BUILDING APPROVALS BY STATISTICAL LOCAL AREAS (a), APRIL 1998—continued

		Ne	w residentia	al building (b)		Alterations	Non-resid buildi		
		Houses		Other r	esidential buil	dings	and - additions			
Statistical local area, statistical subdivision and statistical division	Private sector (number)	Public sector (number)	Total value (\$'000)	Private sector (number)	Public sector (number)	Total value (\$'000)	to residential buildings (\$'000)	Private sector (\$'000)	Total (\$'000)	Total building (\$'000)
Sidistical division	(number)	(mimoer)	(φ σσσ)	(number)	(number)	(ψ σσσ)	(ψ σσσ)	(ψ σσσ)	(ψ σσσ)	(φ σσσ)
		SOUTH V		TISTICAL	DIVISION					
Boddington (S)	1	_	40	_	_	_	60	_	_	100
Mandurah (C)	38	1	4,641	_	_	_	127	307	307	5,075
Murray (S)	10	2	1,156	_	_	_	16	_		1,172
Waroona (S)	2	_	192	_	_	_	42	148	148	382
Dale (SSD)	51	3	6,029	_	_	_	245	455	455	6,729
Bunbury (C)	12	1	1,514	_	_	_	132	1,147	1,147	2,793
Capel (S)	4	_	493	_	_	_	40	58	58	591
Collie (S)	7	_	687	_	_	_	_	_	_	687
Dardanup (S)	26	_	2,089	_	_	_	17	73	73	2,179
Donnybrook-Balingup (S)	1	_	79	_	_	_	25	_	_	104
Harvey (S)	22	_	2,119	_	_	_	_	466	466	2,585
Preston (SSD)	72	1	6,981	_	_	_	214	1,744	1,744	8,940
Augusta-Margaret River (S)	8	_	730	_	_	_	41	380	380	1,151
Busselton (S)	47	_	5,858	_	_	_	207	5,094	5,094	11,159
Vasse (SSD)	55	_	6,588	_	_	_	248	5,474	5,474	12,309
Boyup Brook (S)	2	_	144	_	_	_	_	_	_	144
Bridgetown-Greenbushes (S)	4	_	408	_	_	_	_	_	_	408
Manjimup (S)	5	_	469	_	_	_	127	250	250	846
Nannup (S)	_	_	_	_	_	_	30	120	120	150
Blackwood (SSD)	11	_	1,021	_	_	_	157	370	370	1,548
Total	189	4	20,620	_	_	_	864	8,043	8,043	29,526
	LOW	'ER GREAT	Γ SOUTHE	ERN STAT	ISTICAL D	VISION				
Broomehill (S)	_	_	_	_	_	_	_	_	_	
Gnowangerup (S)	4	_	324	_	_	_	23	_	_	346
Jerramungup (S)	1	_	41	_	_	_	_	50	50	91
Katanning (S)	_	7	545	_	_	_	20	_	_	565
Kent (S)	_	_	_	_	_	_	_	_	_	_
Kojonup (S)	_	_	_	_	_	_	_	_	_	_
Tambellup (S)	_	_	_	_	_	_	_	_	_	_
Woodanilling (S)		7		_	_	_				1.002
Pallinup (SSD)	3	/	909	_	_	_	43	50	50	1,002
Albany (T)	6	_	702	_	_	_	25	_	210	936
Albany (S)	19	_	1,778	_	_	_	153	464	464	2,395
Cranbrook (S)	4	_	254	_	_	_	18	_	_	272
Denmark (S)	3	_	263	_	_	_	15	_	_	278
Plantagenet (S)	6	_	435	_	_	_	_	143	143	578
King (SSD)	38	_	3,433	_	_	_	210	607	817	4,460

TABLE 7. BUILDING APPROVALS BY STATISTICAL LOCAL AREAS (a), APRIL 1998—continued

		Ne	w residentic	ıl building (b)		Alterations	Non-resid buildi		
		Houses		Other re	esidential buil	ldings	and - additions			
Statistical local area, statistical subdivision and statistical division	Private sector (number)	Public sector (number)	Total value (\$'000)	Private sector (number)	Public sector (number)	Total value (\$'000)	to residential buildings (\$'000)	Private sector (\$'000)	Total (\$'000)	Total building (\$'000)
	UPPI	ER GREAT	SOUTHE	RN STATIS	STICAL DI	VISION				
Brookton (S)	1		154		_	_	20	_		174
Cuballing (S)	_	_	_	_	_	_	_	_	_	_
Dumbleyung (S)	_	_	_	_	_	_	_	_	_	_
Narrogin (T)	_	_	_	_	_	_	_	_	_	_
Narrogin (S) Pingelly (S)		1	471	_	_	_	— 75		_	546
Wagin (S)	_	_	-				_			_
Wandering (S)	_	_	_	_	_	_	_	_	_	_
West Arthur (S)	_	_	_	_	_	_	_	_	_	_
Wickepin (S)	_	_	_	_	_	_	_	_	_	_
Williams (S)	_	_	_	_	6	429	_	_	_	429
Hotham (SSD)	4	1	624	_	6	429	95	_	_	1,148
Corrigin (S)	_	_	_	_	_	_	_	_	_	_
Kondinin (S)	_	_	_	_	_	_	_	_	_	_
Kulin (S)	_	_	_	_	_	725	_	_	_	_
Lake Grace (S) Lakes (SSD)	3 3		244 244	8 8	_	725 725	_		_	969 969
		_			_					
Total	7	1	868	8	6	1,154	95	_		2,117
		MIDLA	NDS STA	TISTICAL	DIVISION					
Chittering (S)	4	_	769	_	_	_	_	_	_	769
Dandaragan (S)	4	_	354	_	_	_	18	_	_	371
Gingin (S)	8	_	641	_	_	_	15	_	_	656
Moora (S) Victoria Plains (S)	4	_	501	_	_	_	18	_	_	519
Moore (SSD)	20	_	2,265	_	_	_	51	_	_	2,315
Beverley (S)	6	_	391	_	_	_	23	_	_	414
Cunderdin (S)	_	_	_	_	_	_	_	_	_	_
Dalwallinu (S)	2	2	361	_	2	215	_	_	_	576
Dowerin (S)	_	_	_	_	_	_	_	_	_	_
Goomalling (S)	_	_	_	_	_	_	_	_	_	_
Koorda (S)		_	33	_	3	302	_	_	_	302 33
Northam (T) Northam (S)	1 2		145			_	_		_	33 145
Quairading (S)	_						_			
Tammin (S)	_	_	_	_	_	_	_	_	_	_
Toodyay (S)	6	_	617	_	_	_	20	_	_	638
Wongan-Ballidu (S)	_	_	_	_	_	_	23	_	_	23
Wyalkatchem (S)	_	_	_	_	_	_	_	_	_	_
York (S) Avon (SSD)	2 19		165 1,713	_	 5		43 109	_	118 118	326 2,457
					-					-,,
Bruce Rock (S) Kellerberrin (S)	_	_	_	_	_	_	_	_	_	_
Merredin (S)		_	282	_	_	_	25	_	_	307
Mount Marshall (S)	_		_	_	_			_		_
Mukinbudin (S)	3	_	281	_	_	_	_	_	_	281
Narembeen (S)	_	_	_	_	_	_	_	_	_	_
Nungarin (S)	_	_	_	_	_	_	_	_	_	_
Trayning (S)	1	_	98	_	_	_	_	_	_	98
Westonia (S)	_	_	_	_	_	_	_	_	_	_
Yilgarn (S) Campion (SSD)	7	_	661	_	_	_		_	_	686
Campion (SSD)										

TABLE 7. BUILDING APPROVALS BY STATISTICAL LOCAL AREAS (a), APRIL 1998--continued

		Ne	w residentia	ıl building (b)		Alterations	Non-resid buildi		
		Houses		Other re	esidential bui	ldings	and additions			
Statistical local area, statistical subdivision and statistical division	Private sector (number)	Public sector (number)	Total value (\$'000)	Private sector (number)	Public sector (number)	Total value (\$'000)	to residential buildings (\$'000)	Private sector (\$'000)	Total (\$'000)	Total building (\$'000)
		SOUTH EA	STERN S	TATISTICA	AL DIVISIO	ON				
Coolgardie (S)										
Kalgoorlie/Boulder (C)	17	_	2,216	11	_	762	213	605	1,405	4,596
Laverton (S)	_	_	_	_	_	_	_	_	_	_
Leonora (S)	_	_	_	6	_	360	_	57	57	417
Menzies (S)	_	_	_	_	_	_	_	_	_	_
Ngaanyatjarraku (S)	_	_	_	_	_	_	_	_	_	_
Lefroy (SSD)	17	_	2,216	17	_	1,122	213	662	1,462	5,012
Dundas (S)	_	_	_	_	_	_	_	_	_	_
Esperance (S)	8	_	827	_	_	_	81	50	50	958
Ravensthorpe (S)	_	_	_	_	_	_	_	_	_	_
Johnston (SSD)	8	_	827	_	_	_	81	50	50	958
Total	25	_	3,043	17	_	1,122	294	712	1,512	5,971
		CENT	RAL STAT	ΓISTICAL 1	DIVISION					
Carnarvon (S)	_	_	_	_	_	_	_	313	313	313
Exmouth (S)	_	_	_	_	_	_	_	_	_	_
Shark Bay (S)	2	_	69	2	_	263	_	_	_	332
Upper Gascoyne (S)	_	_	_	_	_	_	_	_	_	_
Gascoyne (SSD)	2	_	69	2	_	263	_	313	313	645
Cue (S)	_	_	_	_	_	_	_	_	_	_
Meekatharra (S)	_	_	_	_	_	_	_	_	_	_
Mount Magnet (S)	_	_	_	_	_	_	_	_	_	_
Murchison (S)	_	_	_	_	_	_	_	_	_	_
Sandstone (S)	_	_	_	_	_	_	_	_	_	_
Wiluna (S)	_	_	_	_	_	_	_	_	_	_
Yalgoo (S)	_	_	_	_	_	_	_	_	_	_
Carnegie (SSD)	_	_	_	_	_	_	_	_	_	_
Carnamah (S)	_	_	_	_	_	_	_	_	_	_
Chapman Valley (S)	_	_	_	_	_	_	_	_	_	_
Coorow (S)	_	_	_	_	_	_	_	_	_	_
Geraldton (C)	6	_	793	_	_	_	101	531	531	1,425
Greenough (S)	19	_	2,480	_	_	_	73	_	_	2,553
Irwin (S)	6	_	548	_	_	_	21	_	_	569
Mingenew (S)	_	_	_	_	_	_	_	_	_	_
Morawa (S)	_			_	_	_		_	_	
Mullewa (S)	_	4	612	_	_	_	144	_	_	756
Northampton (S)	_	_	_	_	_	_	_	_	_	_
Perenjori (S) Three Springs (S)	_	_	100	_	_	_	_	_	_	100
Three Springs (S) Greenough River (SSD)	1 32	4	190 <i>4,623</i>	_	_	_	338	531		190 5,492
Total	34	4	4,692	2	_	263	338	844	844	6,137

TABLE 7. BUILDING APPROVALS BY STATISTICAL LOCAL AREAS (a), APRIL 1998—continued

		Ne	w residentia	ıl building (b)		Alterations				
		Houses		Other re	esidential buil	dings	and - additions				
tatistical local area, tatistical subdivision and tatistical division	Private sector (number)	Public sector (number)	Total value (\$'000)	Private sector (number)	Public sector (number)	Total value (\$'000)	to residential buildings (\$'000)	Private sector (\$'000)	Total (\$'000)	Total building (\$'000)	
		PILBA	ARA STAT	TISTICAL I	DIVISION						
East Pilbara (S)	1	_	100		_	_	60	590	590	750	
Port Hedland (T)	3	_	417	24	_	2,760	34	1,600	7,200	10,411	
De Grey (SSD)	4	_	517	24	_	2,760	94	2,190	7,790	11,161	
Ashburton (S)	_	_	_	_	_	_	_	_	_	_	
Roebourne (S)	11	9	2,052	_	2	329	42	260	599	3,022	
Fortescue (SSD)	11	9	2,052	_	2	329	42	260	599	3,022	
Total	15	9	2,569	24	2	3,089	136	2,450	8,389	14,183	
		KIMBE	RLEY STA	ATISTICAL	DIVISION						
Halls Creek (S)	_	_	_	_	_	_	_	_	_		
Wyndham-East Kimberley (S)	4	_	526	_	_	_	_	_	_	526	
Ord (SSD)	4	_	526	_	_	_	_	_	_	526	
Broome (S)	9	3	1,602	_	_	_	90	410	500	2,192	
Derby-West Kimberley (S)	_	3	600	_	_	_	10	280	480	1,090	
Fitzroy (SSD)	9	6	2,202	_	_	_	100	690	980	3,282	
Total	13	6	2,728	_	_	_	100	690	980	3,808	
		,	WESTERN	N AUSTRA	LIA						
Western Australia	1,295	81	144,120	140	56	19,140	12,449	33,703	42,281	217,991	

⁽a) City councils are marked (C), Town councils (T), Shire councils (S), and Statistical Subdivisions (SSD). (b) Excludes Conversions, etc.

TABLE 8. NUMBER OF NEW HOUSES (a) APPROVED BY MATERIAL OF OUTER WALLS, FLOOR AREA AND VALUE PER SQUARE METRE BY STATISTICAL DIVISION APRIL 1998

		Material of outer walls							
Statistical division	Double brick(b)	Brick veneer	Fibre cement	Timber	Other and not stated	Total	Floor area (sq m)	Average floor area (sq m)	r value per a square
Perth	860	1	2	4	103	971	205,240	229	451
South-West	158	8	3	8	16	193	39,117	233	437
Lower Great Southern	19	6	12	1	12	50	7,969	185	476
Upper Great Southern	2	2	1	_	3	8	1,194	199	571
Midlands	15	6	9	3	15	48	9,096	207	482
South-Eastern	7	14	2	1	1	25	2,231	279	371
Central	27	_	2	_	9	38	8,645	228	543
Pilbara	_	11	_	_	13	24	1,453	104	837
Kimberley	_	_	_	1	18	19	3,236	202	736
Western Australia	1,088	48	31	18	190	1,376	278,181	226	459

 $⁽a) \ Excludes \ Conversions, \ etc. \ \ (b) \ Includes \ houses \ constructed \ with \ outer \ walls \ of \ stone \ and \ concrete,$

TABLE 9. NEW DWELLING UNITS (a) APPROVED, BY TYPE AND STATISTICAL DIVISION APRIL 1998

		New other residential building								
		Semi-detached, row or terrace houses, townhouses etc. of			Flats,	Total				
Statistical division	New houses	1 storey	2 or more storeys	Total	1-2 storeys	3 storeys	4 or more storeys	Total	Total	new residential building
			NU	MBER OF D	WELLING UNITS	S				
Perth	971	79	42	121	_	5	6	11	132	1,103
South West	193	_	_	_	_	_	_	_	_	193
Lower Great										
Southern	50	_	_	_	_	_	_	_	_	50
Upper Great										
Southern	8	14	_	14	_	_	_	_	14	22
Midlands	48	5	_	5	_	_	_	_	5	53
South Eastern	25	11	_	11	6	_	_	6	17	42
Central	38	_	2	2	_	_	_	_	2	40
Pilbara	24	26	_	26	_	_	_	_	26	50
Kimberley	19	_	_	_	_	_	_	_	_	19
Western Australia	1,376	135	44	179	6	5	6	17	196	1,572
				VALUI	E (\$'000)					
Perth	100,620	5,160	4,435	9,595	_	800	2,600	3,400	12,995	113,615
South West	20,620	_		_	_	_	_,,,,,	_		20,620
Lower Great	-,-									-,-
Southern	4,342	_	_	_	_	_	_	_	_	4,342
Upper Great	<i>,-</i> ·-									,
Southern	868	1,154	_	1,154	_	_	_	_	1,154	2,022
Midlands	4,639	517	_	517	_	_	_	_	517	5,156
South Eastern	3,043	762	_	762	360	_	_	360	1,122	4,165
Central	4,692	_	263	263	_	_	_	_	263	4,955
Pilbara	2,569	3,089	_	3,089	_	_	_	_	3,089	5,658
Kimberley	2,728	_	_	_	_	_	_	_	_	2,728
Western Australia	144,120	10,682	4,698	15,380	360	800	2,600	3,760	19,140	163,260

⁽a) Excludes Conversions, etc.

EXPLANATORY NOTES

Introduction

This publication contains monthly details of building work approved.

Factors affecting comparability

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 government authorities in areas subject to building control by those authorities;
 - (b) approvals issued by the Rural Housing Authority in areas not subject to building control by local government authorities;
 - (c) contracts let or day labour work authorised by Commonwealth, State, semi-government and local government authorities;
 - (d) 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 townhouses, 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 Table 1 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 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. 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 dwellings 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:
- (a) The Central Metropolitan SSD (Perth SD) now excludes the SLA of Victoria Park (T) and the South East Metropolitan SSD (Perth SD) now includes Victoria Park (T);
- (b) The Central Statistical Division (Carnegie SSD) now excludes the SLA of Ngaanyatjarraku (S) and the South Eastern Statistical Division (Lefroy SSD) now includes Ngaanyatjarraku (S);
- (c) The existing SLA of Wanneroo (C) has been split into five smaller SLAs. These new SLAs are: Wanneroo (C) Central Coastal, Wanneroo (C) North-East, Wanneroo (C) North-West, Wanneroo (C) South-East and Wanneroo (C) South-West;
- (d) There have been minor changes to the boundaries of the SLAs within the LGA of Stirling (C). This resulted in Stirling (C) West being renamed Stirling (C) Coastal.

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 and clerically extracted tabulation. A charge may be made for providing unpublished information in these forms.
- 29. Other ABS publications which may be of interest include:

WESTERN AUSTRALIA	Catalogue No.
Building Activity (quarterly)	8752.5
Dwelling Unit Commencements (monthly)	8741.5
AUSTRALIA	
Price Index of Materials Used in	
House Building (monthly)	6408.0
Building Approvals (monthly)	8731.0
Building Activity, Australia: Dwelling Unit	
Commencements, Preliminary (quarterly)	8750.0
Building Activity (quarterly)	8752.0
Engineering Construction Survey (quarterly	8762.0
Housing Finance for Owner Occupation: Australia	5609.0

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 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

- 31. The following symbols, where shown in columns of figures or elsewhere in tables, mean:
 - nil or rounded to zero (including null cells)
 - figure or series revised since previous issue. r
 - not available n.a.
- Where figures have been rounded, discrepancies may occur between sums of the component items and totals.

Colin Nagle Regional Director, Western Australia

For more information...

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