

CATALOGUE NO. 8731.5

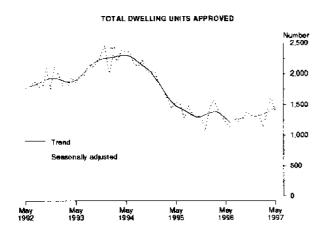
EMBARGO: 11:30 AM (CANBERRA TIME) MON 7 JULY 1997

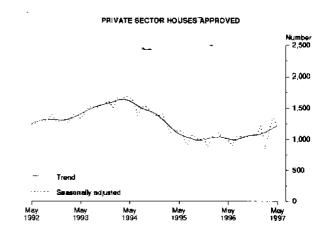
BUILDING APPROVALS, WESTERN AUSTRALIA, MAY 1997

MAIN FEATURES

NUMBER OF DWELLING UNITS APPROVED

	May 1996	April 1997	May 1997	May 1996 to May 1997 change	April 1997 to May 1997 change
Original series	1,420	1, <u>6</u> 26	+ 1,576	11.0%	3.1%
Seasonally adjusted	1,213	1,634	1,396	15.1%	14.6%
Trend estimate	1,274	-1 ,414	1,453	14.1%	2.8%





Residential

- The trend for the total number of dwelling units approved in May continued the upward movement evident since mid 1996. The May 1997 level is nearly 20% above that of June 1996.
- The trend for the number of private sector houses also increased and exceeds the June 1996 level by more than 22%.
- In original terms, the number of dwellings approved in May remained high, at 1,576. This comprised mainly of 1,327 houses and 158 other residential units from the private sector.
- The value of new residential building approved was \$157.3 million and the value of alterations and additions to residential buildings was \$15.2 million.

Non-residential

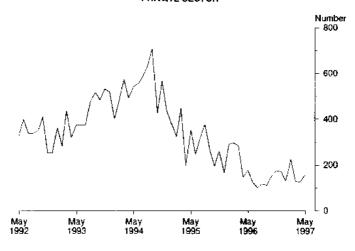
- The value of non-residential projects approved in May was \$146.4 million. Health accounted for \$45.1 million with one public sector project contributing most to the category. Similarly, one private sector shopping complex made up half the value of the Shop category (\$30.1 million) while Entertainment and Recreational was valued at \$21.8 million.
- There were 5 projects valued at more than \$5.0 million and 14 projects valued between \$1.0 million and \$5.0 million.

From January 1997 onwards the method for the processing of government dwelling jobs has been changed. The series has been amended back to July 1996 and a series break has been made at 30 June 1996. This series break will be reviewed when further information is received and analysed.

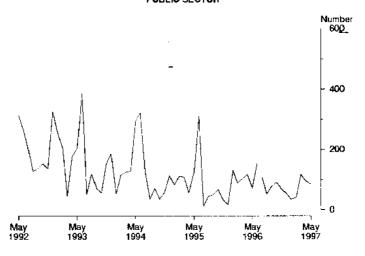
INQUIRIES

- 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 (09) 360 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

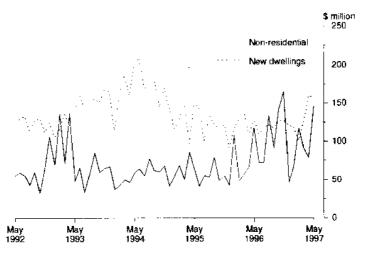


TABLE 1. NUMBER OF DWELLING UNITS APPROVED

	N	lew houses		New other :	residential buil	dings			Total (a)	
Period	Private sector	Public sector	Total	Private sector	Public sector	Total	Conversions, etc.	Private sector	Public sector	Tota
			PER	TH STATIS	ΓΙCAL DIVI	SION				
1993-94	13,899	321	14,220	4,924	929	5,853	177	18,986	1,264	20,250
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
1995-96										
July-May 1996-97	7,600	136	7,736	2,284	424	2,708	79	9,963	560	10,523
July-May	8,322	238	8,560	1,368	192	1,560	67	9,751	436	10,187
1996—										
March	731	1	732	256	60	316	10	997	61	1,058
April	643	14	657	117	61	178	3	763	75	838
May	831	11	842	160	45	205	8	999	56	1,055
June	637	13	650	92	27	119	1	730	40	770
July	813	20	833	89	39	128	5	907	59	96€
August	803	18	821	100	_	100	2	905	18	923
September	712	3 4	746	104	2	106	6	822	36	858
October	776	23	799	113	- 19	- 132	14	897	48	945
November	784	27	811	137	9	146	2	923	36	959
December	709	17	726	155	15	170	12	876	32	908
1997—										
January	647	18	665	114	5	119	6	767 →	23	790
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	20	94 9	139	27	166		1,068	. 47	1,115
				WESTERN	AUSTRALIA	\				
1993-94	18,966	471	19,437	5,938	1,206	7, i 44	195	25,085	1,691	26,776
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
1995-96										
July-May	11,028	217	11,245	2,777	523	3,300	113	13,918	740	14,658
1996-97 July-May	11,962	520	12,482	1,595	315	1,910	97	13,648	841	14,489
1996										
March	1,074	27	1,101	286	76	362	38	1,398	103	1,501
April	904	18	922	145	99	244	3	1,052	117	1,169
May	1,159	24	1,183	178	49	227	10	1,347	73	1,420
June	917	49	966	123	104	227	2	1,042	153	1,195
July	1,123	42	1,165	100	66	166	5	1,228	108	1,336
August	1,101 -	33	1,134	116	20	136	7	1,224	53	1,277
September	1,045	63	1,108	111	16	127	10	1,166	79	1,245
October	1,117	40	1,157	153	51	204	1.5	1,279	97	1,376
November	1,117	58	1,175	175	12	187	4	1,296	70	1,366
December	1,001	34	1,035	172	22	1 94	13	1,186	56	1,242
1997—							. =			,
January	1,003	31	1,034	130	5	135	13	1,146	36	1,182
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	5	1,490	86	1,576

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

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

				New res	idential be		<u>S</u> million)				-	•		
		Houses		Other res	idential h	uildings		Total		Alterations and additions	Non-resid build		Total bu	ilding
Period	Private sector	Public sector	Total	Private sector	Public sector	Total	Private sector	Public sector	Total	to residential muildings	Private sector	Total	Private sector	Total
					PER.	TH STA	TISTICAI	_ DIVISI	ON					
1993-94	1.967.8	19.2	1,087.0	319.3	58.6	377.9	1,387.1	77.8	1,464.8	122.0	388.1	492.4	1,896.8	2,079.3
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	787 4	10.6	798.0	186.5	33.0	219.6	973.9	43.6	1,017.6	128.2	512.8	597.3	1,614.7	1,743.1
1995-96														
July-May	723.5	9.7	733.2	180.5	31.6	212.0	904.0	41.3	945.2	118.9	463.8	542.1	1,486.4	1,606.2
1996-97 July-May	820,7	18.2	839.0	129.9	11.1	141.0	950.6	29.3	980.0	127.8	515.3	751.5	1,591.7	1,859.2
1996														
March	67.9	0.1	67.9	25.4	4.7	30.2	93.3	4.8	98.1	11.6	26.9	41.8	131.8	151.5
April	64.2	0.9	65.0	9.1	3.2	12.3	73.2	4.1	77.4	11.4	47.7	51.6	132.3	140.4
May	80.9	0.7	81.6	10.7	2.4	13.1	91.6	3.1	94.7	9.0	96.4	109.0	196.9	212.7
June	63.9	0.9	64.8	6.1	1.5	7.5	-70.0	2.4 -		9.4	48.9	55.2	128.2	136.9
July	76.3	1.4	77.7	6.1	1.9	8.1	82.4	3.4	85.8	10.4	49.4	57.7	141.6	153.9
August	78.9	1.3	80.2	8.7		8.7	87.5	1.3	88.9	13.7	44.1	67.2	145.1	169.8
Septembet.	69.4	3.8	73.2	7.4	0.1	7.5	76.8	3.9	80.7	9.4	57.3	73.9	143.5	164.0
October	74.0	1.7	75.8	10.2	0.8	11.0	84.3	2.5	86.8	11.1	94.3	120.1	189.6	218.1
November	75.4	1.7	77.1	12.0	0.5	12.5	87.4	2.2	89.6	11.7	37.4 -		136.6	227.0
December	7 3.0	1.3	74.3	15.5	1.0	16.6	88.6	2.3	90.9	12.2	28.6	29.7	129.4	132.8
1997—										-				
January	65.2	1.2	66.4	14.2	0.3	14.4	79.4	1.5	80.8	11.4	25.3	45.4	116.0	137.7
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 2.8	103.7 109.7	14.0 11.3	42.1 48.8	43.8 89.8	156.4 166.7	161.5 210.8
May	93.7	1.3	95.0	13.1	1.5	14.6	106.8	2.8	109.7	11.3		09.6	100.7	210.0
						WESTE	RN AUST	RALIA						
1993-94	1,469.3	34.4	1,503.7	382.5	78.5	461.0	1,851.8	112.9	1,964.7	150.0	513.1	667.0	2,513.8	2,781.7
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
1995-96													3 000 D	
July-May	1,034.1	20.2	1,054.3	217.5	39.6	2 5 7.1	1,251.6	59.8	1,311.4	150.9	629.9	731.0	2,032.0	2,193.3
1996-97 July-May	1,177.3	51.2	1,228.5	145.4	20.6	166.0	1,322.8	71.8	1,394.5	1 58.6	727.9	1,150.3	2,206.0	2,703.4
1996														
March	100.8	3.7	104.5	27.6	6 .1	33.7	128.4	9.9	138.2	14.8	35.5	56.9	178.7	210.0
April	89.5	1.4	90.9	11.2	6.1	17.3	100.7	7.5	108.1	13.6	60.8	66.5	175.1	188.2
May	111.9	2.3	114.3	12.1	2.9	15.0	124.0	5.3	129.2	11.1	103.4	117.4	238.5	257.8
June	89.7	4.3	94.0	8.0	7.3	15.3	97.7	11.6	109.3	12.0	62.1 43.0	72.1 72.6	171.6 187.5	193.4 204.2
July	104.1	3.3	107.3	6.8	4.1	10.9	110.8	7.4	118.2	13.3 16.2	63.9 71.7	133.4	204.4	271.0
August	107.5	2.8	110.4	9.7	1.4	11.1	117.2	4.2 8.4	121.4 117.2	12.6	74.1	91.9	195.3	221.6
September	101.0	7.2	108.2		1.2	9.0	108.8 119.5	7.3	126.9	14.3	114.6	141.0	248.2	282.1
October	107.4	3.6	111.0		3.7 0.7	15.9 15.2	122.1	7.3 5.8	127.8	14.2	54.9	165.0	191.1	307.0
November December	107.6 99.3	5.0 3.1	112.6 102.4		1.3	18.1	116.0	4.4	120.5	14.0	39.0	46.4	169.1	180.8
							-							
1997— January	101.1	2.3	103.4	15.4	0.3	15.6	116.5	2.5	119.0	14.9	31.7	66.7	163.0	200.6
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		2.8	17.1	112.8	13.0	125.8	15.0	68.3	90.4	196.0	231.1
TATAL CAL	137.0	6.8	143.8		2.1	15.4	150.3	9.0	159.2	16.8	72.7	78.8	239.0	254.8
April	1 1 / 17	0.8	1 44.7.19	1	2.1		1041.5	,,,,,,,				146.4	228.4	318.9

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

		House	es		Total					
	Private sector		Total		Private sector		Total			
Period	Seasonally adjusted	Trend estimate	Seasonally adjusted	Trend estimate	Seasonally adjusted	Trend estimate	Seasonally adjusted	Trend estimate		
1996—										
March	1,078	1,035	1,101	1,062	1,341	1,282	1,442	1,379		
April	1,013	1,025	1,033	1,050	1,199	1,247	1,305	1,337		
May	992	1,007	1,012	1,029	1,162	1,198	1,213	1,274		
June	896	994	920	1,013	1,071	1,155	1,134	1,217		
July	1,038	992	1,092	1,047	1,196	1,132	1,328	1,253		
August	1,040	1,012	1,086	1,070	1,134	1,146	1,225	1,262		
September	1,024	1,041	1,081	1,101	1,135	1,177	1,248	1,288		
October	1,057	1,058	1,141	1,117	1,245	1,198	1,377	1,301		
November	1,074	1,065	1,137	1,120	1,219	1,211	1,321	1,304		
December	1,079	1,070	1,116	1,122	1,259	1,224	1,339	1,306		
199 7—										
January	1,223	1,085	1,263	1,133	1,287	1,242	1,331	1,318		
February	848	1,111	882	1,159	1,096	1,270	1,141	1,341		
March	1,133	1,145	1,197	1,194	1,263	1,304	1,372	1,376		
April	1,374	1,183	1,442	1,233	1,544	1,341	1,634	1,414		
May	1,192	1,219	1,231	1,271	1,336	1,377	1,396	1,453		

⁽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)

				(2 mmoi	ı,	 			
		New residentia	al building		Alterations	Non-residen building		Total build	ling
	Houses		Other		and — additions to				
Period	Private sector	Total	residential huildings	Total	residential buildings	Private sector	Total	Private sector	Total
1993-94	1,580.5	1,617.4	453.3	2,070.7	161.4	501.0	651.3	2,613.2	2,883.4
1994-95	1,356.8	1,391.9	407.6	1,799.5	160.5	559.2	701.2	2,427.5	2,661.3
1995-96	1,131.0	1,155.6	259.1	1,414.7	163.9	654.1	758.9	2,158.9	2,337.5
1995									
Dec. qtr.	271.3	274.9	53.2	328.1	40.6	120.3	138.3	478.2	506.9
1996—									
Mar. qtr.	285.2	293.7	87.7	381.3	39.7	154.3	201.6	545.8	622.6
June qtr.	293.3	301.5	44.9	346.4	37.0	21.2. 9	240.8	571.5	624.3
Sept. qtr.	314.8	328.2	29.1	357.3	42.5	196.8	279.4	574.0	679.2
Dec. qtr.	316.2	328.0	46.3	374.3	42.8	1 94 .9	329.2	593.0	746.3
1997									
Mar. qtr.	279.7	294.4	50.5	344.8	42.4	161.7	256.0	528.8	643.2

⁽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

	-	on)			1007	
1004.05	7005 06			Manak		Ма
1994-92			1990-97	Marcn	Aprii	ми
1,319.8	1,123.8	1,034.1	1,177.3	98.5	137.0	135.8
366.3	225.5	217.5	145.4	14.3		14.7
1,686.1	1,349.2	1,251.6	1,322.8	112.8	150.3	150.5
155.9	162.4	150.5	155.4	14.9	16.0	14.8
469	113.3	105.3	69.8	14.7	18.7	4.0
					4.8	30.0
		73.2	87.5	4.5	1 5.5	7.3
		68.0	115.1	3.0	2.3	7.5
90.8	107.9	93.4	102.2	6.7	13.4	10.
30.2	43.5	40.9	34.8	4.2	2.1	0.1
5.7	4.4	4.0	5.0	1.4	0.5	0.0
32.2	31.6	27. 6	92.3	10.0	8.5	0.8
28.3	34.1	31.2	34.6	0.7	5.7	2.0
50.2	87.3	82.2	31.5			0.9
580.9	692.0	629.9	727.9	68.3	72.7	63
2,422.9	2,203.6 _	2,032.0	2,206.0	196.0	239.0	228.
	PUBLIC SE	CTOR				
616	712	7.A.T	Et 1	10.2	R N	4.1
					_	2.1
						6.3
88.3	/1.4	,79.α	//-0	15.0		5.0
0.7		0.4	2.7	0.1	0.8	0.3
0.2	0.5	0.4	2-2	V.1	0.0	-
1.6		_	_		_	— 0.1
						0.1 0.1
						5 5
					=	0
						12.5
32.1		= -				0.
2.9				2.5	-	44.
					2.0	19.
			46.6	0.1	0.7	0.
147.3	III.I	101.0	422.4	22.0	6.1	83
236.1	183.1	161.3	497.4	35.1	15.8	90.
200.1						
				-00.7	1 47 9	140.
1,354.3						140.
						157.
1,774.6	1,420.7	1,311.4	1,394.3	123.0	1 2 9.2	157.
156.2	162.9	150.9	158.6	15.0	16.8	15.
48.5	113.3	105.3	69.8	14.7	18.7	4.
136.2	119.0	104.6	156.6	21.7		30.
80.3	80.4	73.4	93.9	4.5		7.
116.0	106.5	98.5	154.3	7.6		12.
97.7	112.0	97.5	147.8			10.
82.3	80.4	77.9	147.9			13.
5.7	4.4	4.0				0. 45
36.0	32.8	28.9				45
36.0	48.0	44.6				21
89.5	106.2					1. 146.
728.2	803.1	731.0	1,150.3	90.4	/6.6	140.
	366.3 1,686.1 155.9 46.9 131.8 79.5 85.1 90.8 30.2 5.7 32.2 28.3 50.2 580.9 2,422.9 34.5 54.0 88.5 0.2 1.6 4.4 0.7 30.9 6.8 52.1 — 3.8 7.7 39.3 147.3 236.1 1,354.3 420.3 1,774.6 156.2 48.5 136.2 80.3 116.0 97.7 82.3 5.7 36.0 36.0 89.5	1,319.8 1,123.8 366.3 225.5 1,686.1 1,349.2 155.9 162.4 46.9 113.3 131.8 117.5 79.5 79.5 79.5 85.1 72.8 90.8 107.9 30.2 43.5 5.7 4.4 32.2 31.6 28.3 34.1 50.2 87.3 580.9 692.0 2,422.9 2,203.6 PUBLIC SE 34.5 54.0 46.9 88.5 77.4	1994-95 1995-96 1995-96 PRIVATE SECTOR 1,319.8	1,319.8	1994-95 1995-96 1996-97 March PRIVATE SECTOR	1994-95 1995-96 1995-96 1996-97 March April

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

				AND V.	ALUE SIZ	E GROUI	<u> </u>					
	\$50,000 ti than \$200		\$200,000 i than \$500		\$500,000 t than \$1		\$1m to 1 than \$5		\$5m as over		Total	!
Period	No.	Value (Sm)	No.	Value (\$m)	No.	Value (\$m)	No.	Value (Sm)	No.	Value (Sm)	No.	Value (Sm)
					HOTELS, I	ETC.						
1997 March	4	0.4	l	0.3	<u></u>		2	6.5	1	7.6	8	14.7
April	8	1.0	2	0.7	1	0.9	4	6.7	1	9.4	16	18.7
May	6	0.7	. 1	0.4	4	2.9	_			· · · · · · · · · · · · · · · · · · ·	11	4.0
					SHOPS							
1997 March	18	1.6	16	4.9	3	2.1	2	4.6	1	8.5	40	21.7
April	23	2.0	4	1.2	2 7	1.3	1 4	1.1 5.3	_ 1	15.1	30 38	5.6 30.1
May	16	1.4	10	2.9	· · ·	5.4		3.3	1	15.1	30	307.1
					FACTOR	ES						
1997 March	7	0.8	5	1.2			2	2.5	_	-	14	4.5
April	19 15	2.0 1.8	8 10	2. <i>1</i> 3.3	1 1	0.5 0.6	1 1	2.4 1.5	1	8.0	30 27	15.6 7.3
May	15	1.8	10	د.د		-	 '	1.9				,
					OFFICE							
1997 March	19	1.7	6	1.7	1	0.6	1 1	3.5 1.0	_	_	27 23	7.6 4.7
April *	17 22	1.5 2.2	4 7	1.3 1.8	1	0.8	4	8.7		_	33	12.8
May		2.2						3.7				12.0
						PREMISES						
1997 March	22	2.0	13	4.0	3,	1.8 0.7	1 2	4.8 2.5	1	5.0	39 34	12.5 13.5
April	21 18	2.3 1.8	9 16	3.0 5.0	1 5_	3.6					39	10.5
May		1.0										
					EDUCATIO						1	4.2
1997 March	1	0.2 0.3	1	0.3		0.6	1 1	3. 7 1. 2	_	_	3 6	2.1
April	4	0.3		_		-	2	6.0	1	6.6	6	13.0
May			·						<u> </u>			
	<u></u>			0.7	RELIGIO				.		3	1.4
1997 March		0.3	1 1	0.2 0.2	2	1.2	_	-	_		3	0.5
Aprîl May	3	0.4	1	0.3	_		_		_	_	4	0.8
			·	·								
		0.3	1	0.4	HEALT	H1	2	3.9	1	8,0	7	12.5
1997 March April	3 3	0.3	l	0.4	2	1.4	1	1.5	i	5.0	В	8.5
May	3	0.4	2	0.5		_	2	6.0	1	38.2	8	45.1
		-	E	NIERIAIN	MENT ANI	RECREAT	IONAL					
1997 March	2	0.2	2	0.7			l	3,3	1	5.5	6	9.7
April	6	0.6	· —	_	3	2.1	3	4.9	_		12	7.6
May	6	0.6	2	0.9	1	0.6	l	1.2	2	18.5	12	21.8
				N	/ISCELLAN	ŒOUS						
1997 March	6	0.6]	1.0	_		_	_	7 10	1.6 2.0
April	7	0.7	2	0.7	1	0.6	_	_	_	_	13	1.3
May	12	1.1	1	0.2				<u> </u>				
				TOTAL NO						30.7	164	90.4
1997 March	82	7.7	46	13.7	10	6.6 8.9	12 14	32.8 21.3	4 4	29.6 27.4	154 172	90),4 78.8
April	110	11.0	31	10.3	13	0.9	1.4	28.7	5	78.4	191	146.4

是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是 第一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是一个人,我们就是

TABLE 7. BUILDING APPROVALS BY STATISTICAL LOCAL AREAS (a), MAY 1997

		Ne	w residentia	ıl building (b)	ı		Alterations	Non-resid buildi		
		Houses		Other re	esidential buil	dings	and - additions			
Statistical local area,	Private	Public	Total	Private	Public	Total	to residential	Private		Total
statistical subdivision and	sector	sector	value	sector	sector	value	buildings	sector	Total	building
statistical division	(number)	(number)	(\$'000)	(number)	(number)	(\$1000)	(\$ '000)	(\$ '000)	(\$1000)	(\$ '000)
·		PERT	H STATIS	STICAL DI	VISION					
Cambridge (T)	13		2,865	5		250	631			3,746
Claremont (T)	6	_	422			_	70	285	285	777
Cottesloe (T)	7		1,390	_		_	170	110	110	1,670
Mosman Park (T)	5	_	1,047	_	_		84		_	1,131
Nedlands (C)	8	_	2,334	_		_	1,140	70	4,385	7,859
Peppermint Grove (\$)	1	_	276	_	_	_	13		_	289
Perth (C) Inner		_	_	_	_		_	1,771	2,331	2,331
Perth (C) - Remainder	2	_	347	24		3,300	_	1,406	1,656	5,304
Subiaco (C)	3	_	5(K)		_	_	689	460	460	1,649
Vincent (T)	8		744	_	_		351	_	_	1,095
Central Metropolitan (SSD)	53	_	9,926	29	_	3,550	3,147	4,103	9,228	25,851
, ,				-	-					
Bassendean (T)	4	2	380		6	304	56	250	250	990
Bayswater (C)	20	_	1,553	_ 2	_	120	248	2,790	11,290	13,211
Kalamunda (S)	15	_	1,567	_	_	_	411	185	355	2,333
Mundaring (S)	23	_	1,950	_	_		81	213	213	2,244
Swan (S)	112		9,348		_	_	267	84.5	3, 99 5	13,611
East Metropolitan (SSD)	174	2	14,797	2	6	424	1,064	4,253	16,103	32, 388
Stirling (C) — Central	33		3,195	9	_	597	*3 99	4,210	4,210	8,401
Stirling (C) — Coastal	36	7	4,964	12	7	1,597	946	15,350	15,562	23,069
Stirling (C) — South-Eastern	6	_	665	8	_	850	1,005	_	_	2,520
Wanneroo (C) — Central Coastal	63	_	6,635		_	_	165	1,050	7,684	14,484
Wanneroo (C) North-East	32		2,854	_		_	64	_	74	2,992
Wanneroo (C) - North-West	61	_	5,455	10	14	1,253		400	400	7,109
Wanneroo (C) — South-East	26		2,006		_		71	520	520	2,597
Wanneroo (C) — South-West	19	_	3,372	22	_	1,877	841	2,160	2,160	8,250
North Metropolitan (SSD)	276	7	29,146	61	21	6,174	3,491	23,690	30,610	69,422
Cockburn (C)	52	_	4,148	29	_	2,228	321	2,800	2,800	9,497
East Fremantle (T)	3		576	_		_	240	_	129	945
Fremantle (C) - Inner		_	_	6		1,100	60	70	70	1,230
Fremantle (C) Remainder	14	5	2,121	_	_	_	673	624	624	3,417
Kwinana (T)	16	_	1,251		_	_	12	259	259	1,522
Melville (C)	43	1	5,215		_	_	524	1,104	13,030	18,770
Rockingham (C)	109	_	10,406	2	_	153	42	4,350	8,599	19,200
South West Metropolitan (SSD)	237	6	23,717	37	_	3,481	1,872	9,206	25,511	54,581
Armadale (C)	12		1,432	_	_	_	265	840	840	2,537
Belmont (C)	5	_	485		_	_	220	3,057	3,057	3,762
Canning (C)	57	5	5,459	10		1,000	305	1,754	1,754	8,518
Gosnells (C)	79	_	6,162	_	_		191	1,575	1,850	8,203
Serpentine-Jarrahdale (S)	6		569	_	_	_	40	_	50	659
South Perth (C)	23	_	2,784		- 44-	_	649	50	50	3,482
Victoria Park (T)	7	_	562	_	_		33	300	7 6 3	1,357
South East Metropolitan (SSD)	189	5	17,452	10	_	1,000	1.702	7,576	8,364	28,517
	929	20	95,038	139	27	14,629	11,275	48,828	89,816	210,759

TABLE 7. BUILDING APPROVALS BY STATISTICAL LOCAL AREAS (a), MAY 1997 continued

		Ne	w residentia	l building (b,)		Alterations	Non-resid buildi		
		Houses		Other n	esidential buil	dings	and - additions			
Statistical local area, statistical subdivision and	Private sector	Public sector	Total value	Private sector	Public sector	Total value	to residential buildings	Private sector	Total	Total building
statistical division	(number)	(number)	(\$'000)	(number)	(number)	(\$'000)	(\$ '000)	(\$ '000)	(\$ '000)	(\$ '000)
		SOUTH V	VEST STA	TISTICAL	DIVISION					
Boddington (S)								90	90	90
Mandurah (C)	52		4,645	7	_	375	494	2,660	40,872	46,387
Murray (S)	5		1,540	_	_	_	50			1,590
Waroona (S)	4	_	514				20		_	534
Dale (SSD)	61	_	6,699	7	_	375	564	2,750	40,962	48,601
Bunbury (C)	31	13	3,801		_	_	231	2,041	2,041	6,073
Capel (S)	6	_	515	_		_	25	140	140	680
Collie (S)	1		55	_	_	_	25			80
Dardanup (S)	10		771	_	_	_	20	100	100	891
Donnybrook-Balingup (S)	3		252	_	_	_	20			272
Harvey (S)	23	1	2,554			_	88	125	125	2,766
Preston (SSD)	74	14	7,948				408	2,405	2,405	10,762
Augusta-Margaret River (S)	25	1	2,252	_	_	_	275	76	76	2,603
Busselton (S)	47		5,193			_	69	1,696	1,696	6,958
Vasse (SSD)	72	1	7,445	_		_	344	1,772.	1,772	9,561
Boyup Brook (S)	_	_			_	_	_	_	 -	
Bridgetown-Greenbushes (S)		****	_	_		<u>-</u>	<u> </u>	_	-	_
Manjimup (S)	5		567			_	31	_	620	1,218
Nannup (S)		_		_		_	_	362	362	362
Blackwood (SSD)		_	567	- _		_	31	362	982	1,580
Biackwood (SSD)		_								
Total	212	15	22,659	7		375	1,348	7,290	46,122	70,504
	LOW	ER GREAT	SOUTHE	RN STAT	ISTICAL DI	VISION				
Broomehill (S)			_	_	_		_		_	_
Gnowangerup (S)	_	4.0	_	_	_	_	_	_		100
Jerramungup (S)	2		193		_		_	-	_	193
Katanning (S)						_	13		_	13
Kent (S)	-	_		_		_	_	_	_	
Kojonup (S)	_	_	_			_	_		_	_
Tambellup (S)	_	_		_	_	_	_	_	_	
Woodanilling (S)	_		_		_	_		-	_	
Pallinup (SSD)	2	_	1 9 3	_	_	_	13	_	_	206
Albany (T)	5	_	537	_	_	_	113	_	_	650
Albany (S)	7	_	906	-	_	_	142	_	_	1,048
	- —		_	_	_	_	_			
Cranbrook (S)	5	_	607	_	_	_	60	90	90	757
Cranbrook (S) Denmark (S)	_					_	28	_	_	169
	1	_	140	_	_					
Denmark (S)		_	140 2,190	_	_	_	343	90	90	2,624

TABLE 7. BUILDING APPROVALS BY STATISTICAL LOCAL AREAS (a), MAY 1997 -- continued

		Ne	w residentia	il building (b,)		Alterations and	Non-resta buildi		
		Houses		Other re	esidential buil	ldings	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)	Tota buildin (\$`000
	UPPI	ER GREAT	SOUTHE	RN STATIS	STICAL DE	VISION				
Brookton (S)	1		50							5
Cuballing (S)	2	_	133	_	_	_	24	_	_	15
Dumbleyung (S)	_	_	_		_	_	_	_		_
Narrogin (T)	1	_	120		_	_	40		-	16
Narrogin (S)	•	_	_	_	_	 -	_	_	_	_
Pingelly (S)		_		_	_	_		_	_	_
Wagin (S)	_	1	70			_	20	_	_	9
Wandering (S)	_	_	_	_		_	_		_	_
West Arthur (S)	_		_	_	_	_	-	_	_	
Wickepin (S)	•	_	_	_	_	_	_	_		
Williams (S)			373	_	_	_	84	_	_	45
Hotham (SSD)	4	,	3/3	_		_	0 ₩	_		40
Corrigin (S)	_	_	_	_	_	_		_	_	_
Kondinit (S)	_	_	_	_	_	_	_	_	_	
Kulin (S)	_	_		_	_	_	_	_	-	_
Lake Grace (S)		_	_	_		_	_	-	_	
Lakes (SSD)	_	_	_		_	_	_	_	···	-
							.	-		
Total	4	1	373				<u>~84</u>		_ 	45
		MIDLA	NDS STA	ŢISTICAL	DIVISION					
Chittering (S)	3		211	,		_	,33	_		24
Dandatagan (S)	3	_	295	-		_		_	_	29
Gingin (S)	13	_	968	_		_	49		_	1,01
Moora (S)	3	_	292			_	15	_	-	30
Victoria Plains (S)	_	_	_	-		_		_	_	
Moore (SSD)	22	_	1,766	_	_	_	97	_	_	1,86
Beverley (S)	4	_	214	_	_	_	45	_	_	25
Cunderdin (S)	1	-	130	_		_	89	_		21
Dalwallinu (S)	3		178	_	_	_		_	_	17
Dowerin (S)	2	_	221		_	_	_	119	119	34
Goomalling (S)	2	_	140	-	 -	_	27	_	_	16
Koorda (S)	_		_		_	_	_	_		-
Northam (I)	3	_	302	-		_	35	_	_	33
Northam (S)	_	_		_	_	_	14	_		1
Quairading (S)	_	_		_	_	_		_		_
Tammin (S)		_	_	_	_				440	62
Toodyay (S)	2	_	170	_	_	-	10	440	440	0.
Wongan-Ballidu (S)	_		F	_	_	_	_	_		_
Wyalkatchem (S)	_	_		_	_	_	43		_	44
York (S) Avon (SSD)	5 22	_	405 1,761	_	_	_	263	55 9	559	2,5
			-•						_	
Bruce Rock (S)	_	_	_	_	_	_	_		_	-
Kellerberrin (S)			200	_	_	_	_	60	60	36
Merredin (S)	2		300	_	_	_	_	_		-
Mount Marshall (S)	_ 1	_	67	· -		_	_	_	,	
Mukinbudin (S)		_		_	_	_	_	_	_	-
Narembeen (S)	_	_	_			_	_	_	-	-
Nungarin (S)			_	_	_	_		_	_	-
Trayning (S)		_	_	_	_		_	_	_	-
Westonia (S)	_	_	_		_	_	_			-
Yilgam (S) Campion (SSD)	3	_	367		_	_	_	60	60	4
•										4,8

TABLE 7. BUILDING APPROVALS BY STATISTICAL LOCAL AREAS (a), MAY 1997—continued

		Ne	w residentia	l building (b,)		Alterations	Non-resid buildi		
		Houses		Other ri	esidential buil	dings	and = additions			
Statistical local area,	Private	Public	Total	Private	Public	Total	to residential	Private		Total
statistical subdivision and	sector	sector	value	sector	sector	value	buildings	sector	Total	building
statistical division	(number)	(number)	(\$1000)	(number)	(number)	(\$'000)	(\$'000)	(\$ '000)	(\$.000)	(\$.000)
		SOUTH EA	STERN S	TATISTIC	AL DIVISIO)N				
Coolgardie (S)	I		35				33	_		68
Kalgoorlie/Boulder (C)	35		4,459	6		580	151	1,618	1,718	6,908
Laverton (S)		_	_	_	_	_	_	_		
Leonora (S)	. —	_	_	_	_			_		_
Menzies (S)	_		_	_	_			_	-	_
Ngaanyatjartaku (S)	3	-	340	_	_	_	-	700	700	1,040
Lefroy (SSD)	39	_	4,834	6	_	580	184	2,318	2,418	8,016
Dundas (S)	_	_	_	_	_	_		_	_	
Esperance (S)	14	_	1,448	_		_	221	136	311	1,980
Ravensthorpe (S)			-,	_	_		_	_	_	- · · · -
Johnston (SSD)	14	_	1,448	_	_		221	136	311	1,980
	7.0		£ 293		-	580	406	2,454	2,729	9,997
Total	53		6,282	6		360		2,434	2,129	
•		CENT	RAL STA	TISTICAL:	DIVISION					
Carnarvon (S)	2	_	295	_		_	30		_	325
Exmouth (S)	2	_	236	_		_	80	_	_	316
Shark Bay (S)	_	_		_	_	_	~—			_
Upper Gascoyne (S)	_	-	_	_	_	_			-	
Gascoyne (SSD)	4	_	531	-	_	_	110	_		641
Cue (S)	_		_			_		_	_	_
Meekathama (S)			_		_	_		_	7 9	79
Mount Magnet (S)	ı		156	_		_	_	600	600	756
Murchison (S)	_	_	_	_	_	_	_	_	_	_
Sandstone (S)		_	_			_		_	_	_
Wiluna (S)		_	_		_			_	_	_
Yaigoo (S)		_	_	_		_	_	_		_
Camegie (SSD)	1	-	156	_	_	_	_	600	679	833
Carnamah (S)	_		_	_	_		_	_	_	_
Chapman Valley (S)	_		_		_	_	_	_	_	_
Coorow (S)			_	_	_	_	90	_	_	90
Geraldton (C)	5	_	976	_	10	582	445	125	125	2,128
Greenough (S)	12	_	1,220		_	_	70	150	200	1,489
Irwin (S)	10	_	694	_	_	-			2,809	3,503
Mingenew (S)		_	_	_		_	-	-	_	_
Morawa (S)	_	_	_	. —	_	_	_	_	_	
Muliewa (S)	_	_		_		_	_	190	289	289
Northampton (S)	1	_	100		_	_	32	300	300	432
Perenjori (S)	_	_	_	_	_	_		_	_	_
Three Springs (S)	_	_		_	_	_	_	_	. —	
Greenough River (SSD)	28		2,990	_	10	582	636	765	3,723	7,93.
	33	_	3,677		10	582	746	1,365	4,402	9,40

TABLE 7. BUILDING APPROVALS BY STATISTICAL LOCAL AREAS (a), MAY 1997 continued

		Ne	w residentia	l building (b.	i		Alterations and	Non-residential building			
atistical subdivision and atistical division ast Pilbara (S) ort Hedland (T) e Grey (SSD) shburton (S) ochourne (S) ortescue (SSD)		Houses		Other re	Other residential buildings						
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)	or Total	Total building (\$ '000)	
		PILBA	RA STAT	ISTICAL I	DIVISION						
East Pilbara (S)				2		200	161	690	690	1,051	
Port Hedland (T)	18		2,652	_	_	_	52	300	300	3,004	
De Grey (SSD)	18	_	2,652	2	-	200	213	990	990	4,055	
Ashburton (S)	1		300	_	_	.—	10	_		310	
Rochourne (S)	5	10	2,216	4	_	387	96	312	362	3,061	
Fortescue (SSD)	6	10	2,516	4	_	387	106	312	362	3,371	
Total	24	10	5,169	6		587	319	1,302	1,352	7,426	
		KIMBEI	RLEY STA	TISTICAL	DIVISION						
Halls Creek (S)				—	- -						
Wyndham-East Kimberley (S)	4	_	545_	. –	<u> </u>	_	47	400	547	1,139	
Ord (SSD)	4	••	545		_		47	400	547	1,139	
Broome (S)	1	3	480	_	. –	_	213	770	770	1,463	
Derby-West Kimberley (S)		_		_	_	_			_		
Fitzroy (SSD)	1	3	480	_	_		213	770	770	1,463	
Tetal	5	3	1,025	_			260	1,170	1,317	2,602	
			WESTER1	S AUSTRA	LIA	·					
Western Australia	1,327	49	140,500	158	37	16,753	15,153	63,118	146,447	318,853	

⁽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 MAY 1997

	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)	Average value per square metre (\$)
Perth	915	4		6	24	949	194,371	223	437
South-West	166	3	4	3	51	227	30,831	222	447
Lower Great Southern	9	4	2	1	4	20	1,217	203	452
Upper Great Southern	2		3	_		5	934	187	400
Midlands	19	4	9	9	6	47	5,596	215	376
South-Eastern	12	28	6	_	7	53	3,748	268	386
Central	24	2	1	_	6	33	3,765	209	585
Pilbara	1	4		-	29	34	1,369	137	956
Kimberley		***			8	8	1,320	165	776
Western Australia	1,148	49	25	19	135	1,376	243,151	222	443

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

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

	New houses	New other residential hullding								
		Semi-detached, row or terrace houses, townhouses, etc. of			Flats, units or apartments in a building of					Total new
Statistical division		1 storey	2 or more storeys	Total	I-2 storeys	3 storeys	4 or more storeys	Total	Total	residential huilding
			NU	MBER OF I	OWELLING UN	NITS				
Perth	949	136	5	141		25		25	166	1,115
South West	227	7	_	7				_	7	234
Lower Great										
Southern	20		_		_		_		_	20
Upper Great										
Southern	5 _	_		_	_			_		5
Midlands	47	_		_		_	_	_	_	47
South Eastern	53	6	_	6	_		_		6	59
Central	33	10	_	10	_	_	_		10	43
Pilbara	34	6	_	6	_	_	_	_	6	40
Kimberley	8	_	_		_	_	_	_		8
Western Australia	1,376	165	5	170		25		25	195	1,571
				VAL	TE (\$,000)					
Perih	95,038	11,402	427	11.829		2,800		2,800	14,629	109,667
South West	22,659	375		375		· —	_	_	375	23,034
Lower Great	2,383							_		2,383
Southern	2,363									2,55
Upper Great Southern	373		_		_	_	_	_		373
Midlands	3,893		_		_	_		_	_	3,893
South Eastern	6,282	580	_	580	_	_	_	. —	580	6,862
Central	3,677	582		582	_			_	582	4,259
Pilbara	5,169	587		587	_			_	587	5,755
Kimberley	1,025		_		_	_	_	_	_	1,025
·						- mn-		2.000	1 4 100	·
Western Australia	140,500	13,526	427	13,953	_	2,800	_	2,800	16,753	157,252

⁽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 (06) 252 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 arc: 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				
Building Activity (quarterly)	8752.0			
Engineering Construction Survey (quarterly	7) 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)
 - r figure or series revised since previous issue.
 - n.a. not available
- 32. Where figures have been rounded, discrepancies may occur between sums of the component items and totals.

M.A.KONRATH
Acting Regional Director, Western Australia

For more information...

The ABS publishes a wide range of information on Australia's economic and social conditions. Details are available in the *Catalogue of Publications and Products* is available from the WA Office of the ABS(see below for contact details).

Information Consultancy

Information tailored to special needs of clients or in-depth data investigations are provided by the ABS Information Consultancy Services in each of our Offices (available via the contacts below).

Electronic Data Services

A growing range of our data is available on electronic media. Our Telestats service delivers major economic publications ready to download into your computer on the day of release. Our Ausstats service enables on-line access to a data base of thousands of up-to-date time series. Selected datasets are also available on diskette or CD-rom. For more details on our electronic services, contact Information Services in any of our Offices on the numbers below.

Bookshops and Subscriptions

There are now over 500 titles available from the ABS Bookshops in each of our Offices. The ABS also provides a subscription mailing service through which nominated publications are provided by mail at no additional cost. (Telephone Publications Subscription Service toll free on 008 02 0608 Australia wide).

Sales and Inquiries

PERTH

Phone (09) 360 5140

Fax (09) 360 5955

© Commonwealth of Australia 1997

2873150005977 ISSN 0727-2278

Recommended retail price: \$15.50