Western Australia



Catalogue No. 8731.5

10 January 1995

BUILDING APPROVALS WESTERN AUSTRALIA

November 1994

MAIN FEATURES

The number of houses approved in November 1994 increased by 7.6 per cent when compared with October 1994 and decreased by 12.8 per cent when compared with November 1993.

The number of total dwelling units approved in November 1994 increased by 13.7 per cent when compared with October 1994 and decreased by 10.0 per cent when compared with November 1993.

The provisional trend for total new dwelling approvals fell 1.5 per cent in November 1994, following a 1.5 per cent fall in October 1994. This trend will continue to fall unless there is a rise of more than 6.7 per cent in the November seasonally adjusted figure. The historical average monthly movement of this series regardless of sign is 7.5 per cent.

NOTE: The town of Shepperton in the Perth Statistical Division was renamed Victoria Park on the 2nd November 1994.

Comparisons with previous periods are:

Month to month

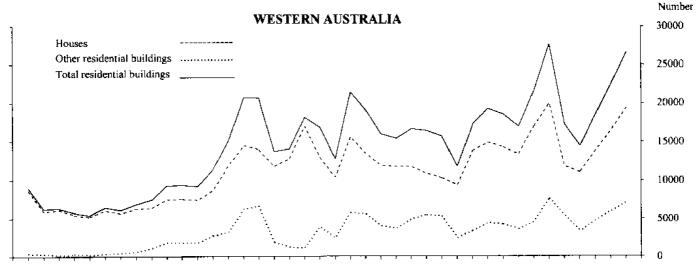
	Nov. 1994	Oct. 1994	% change	Nov. 1993	% change
Houses	1,522	1,415	+7.6	1,746	-12.8
Total dwelling units	2,124	1,868	+13.7	2,359	-10.0
	Th	ree month mov	ing average		
	Nov. 1994	Oct. 1994	% change	Nov. 1993	% change
Houses	1,532	1,580	-3.0	1,656	-7.5
Total dwelling units	2,142	2,203	-2.8	2,219	-3.5
	Elever	n months Janua	ary to Novembe	•	
	1994	1993	% change	1992	% change
Houses	17,372	16,299	+6.6	14,157	+22.7
Total dwelling units	24,328	22,108	+10.0	19,494	+24.8

PHONE INQUIRIES	Contact Ms Diane Braskic on (09) 360 512 publication and the availability of related u copies of publications, contact Information Sec	19 for further information about statistics in this impublished statistics. Other inquiries, including tryices on (09) 360 5140.
MAIL INQUIRIES	Write to Information Services, Australian Esplanade, Perth WA 6000.	Bureau of Statistics, Exchange Plaza, 2 The
ELECTRONIC SERVICES	 on Elderlink key *620# on PC-AUSSTATS phone (06) 252 6017 	• on Dial-A-Statistic phone 0055 86400

CONTENTS

Tabl	e	Page
	Graphs	
	New dwelling units approved (year ended 30 June)	2
	New dwelling units approved	3
	Total value of building approved	3
	New houses approved - original and seasonally adjusted	3
	New houses approved - trend estimate and seasonally adjusted	3
1	Number of dwelling units approved in new residential building	4
2	Value of building approved	5
3	Number of dwelling units approved - seasonally adjusted and trend estimates	6
4	Value of building approved at average 1989-90 prices	6
5	Value of building approved, by class of building and ownership	7
6	Non-residential building jobs approved, by class of building and value size groups	8
7	Building approvals by statistical local areas	9
8	Number of new houses approved by material of outer walls, floor area and value per square metre by statistical division	13
9	New residential dwellings approved, by type and statistical division	13
	Explanatory Notes	14

NEW DWELLING UNITS APPROVED (YEAR ENDED 30 JUNE)





Building Approvals - Western Australia

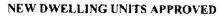
Please note the following when comparing figures from this publication with State figures in the Australian publication.

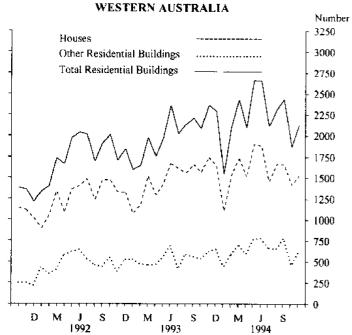
Dwelling unit approval numbers are being presented in a new manner in the Australian Building Approvals publication 8731.0. In some tables, the number of dwelling units in 8731.0 includes conversions to dwellings arising from alterations and additions to existing buildings and as part of the construction of non-residential buildings. These types of dwellings are currently excluded from total dwelling unit counts in this publication (although they are shown in the footnotes). The ABS intends to change the manner in which conversions data is presented in this publication in the near future.

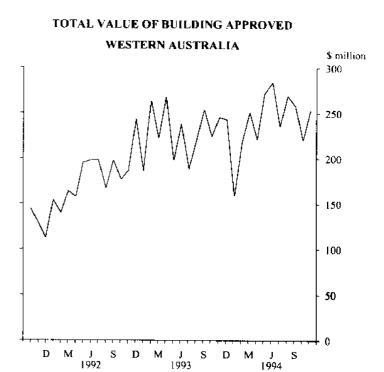
If you require more information, please contact Ms Diane Braskic on (09) 360 5129.

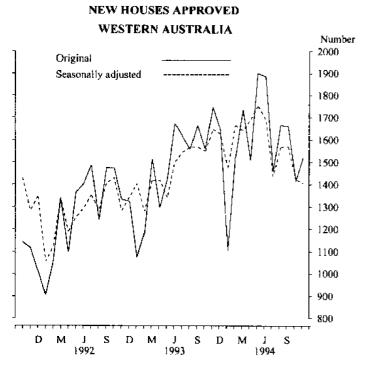
Australian Bureau of Statistics Western Australian Office January 1995











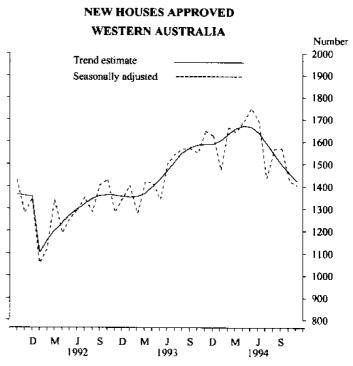


TABLE 1. NUMBER OF DWELLING UNITS APPROVED IN NEW RESIDENTIAL BUILDING

_		Houses		Other res	idential building	Υ	Total			
Period	Private sector	Public sector	Total	Private sector	Public sector	Total	Private sector	Public sector	Tota	
			PERTH S	STATISTICAL	DIVISION					
1991-92	9,969	194	10,163	2,505	[,434	3,939	12,474	1,628	14,102	
1992-93	11.618	285	11,903	3,448	1,540	4,988	15,066	1,825	16,891	
1993-94	13.899	321	14,220	4,924	929	5.853	18,823	1,250	20,073	
1993-94										
July-November	5.785	125	5,910	1,955	247	2,202	7,740	372	8,112	
1994-95										
July-November	5.585	83	5,668	2,470	159	2,629	8,055	242	8,297	
1993										
September	1,199	30	1,229	437	35	472	1.636	65	1,701	
October	1,125	14	1,139	412	28	440	1,537	42	1,579	
November	1,194	66	1,260	409	70	479	1,603	136	1,739	
December	1,196	47	1,243	429	104	533	1,625	151	1,776	
1994										
January	828	2	830	261	24	285	1,089	26	1,115	
February	1,095	6	1.101	401	95	496	1,496	101	1,597	
March	1,248	3	1,251	51 l	97	608	1,759	100	1,859	
April	1,109	5	1,114	429	49	478	1,538	54	1,592	
May	1,321	52	1,373	473	152	625	1,794	204	1,998	
June	1,317	81	1,398	465	161	626	1,782	242	2,024	
July	1,061	44	1,105	489	60	549	1,550	104	1,654	
August	1.216	10	1,226	523	6	529	1,739	16		
September	1,174	10	1,174	580	43	623	1,754	43	1,755 1,797	
October	1,007	7	1,014	365	28	393				
November	1,127	22	1,149	513	22	535	1,372 1, 64 0	35 44	1,407 1,684	
			WE	STERN AUST	RALIA	* '				
1991-92	13,474	362	13,836	3,078	1,663	4,741	16,552	2,025	18,577	
1992-93	16,036	449	16,485	4,081	1,913	5,994	20,117	2,362	22,479	
1993-94	18,966	471	19,437	5,938	1,206	7,144	24.904	1,677	26,581	
1993-94										
July-November 1994-95	7,981	159	8,140	2,383	291	2,674	10,364	450	10,814	
July-November	7,609	111	7,720	2,915	215	3,130	10,524	326	10,850	
1993—										
September	1,626	36	1,662	515	35	550	2,141	71	2,212	
October	1,546	15	1,561	483	42	525	2,029	57	2,086	
November	1,677	69	1,746	531	82	613	2,208	151	2,359	
December	1,585	60	1,645	518	126	644	2,103	186	2.289	
1994—										
January	1,091	13	1,104	398	41	439	1,489	54	1,543	
February	1,505	19	1,524	479	97	576	1,984	116	2,100	
March	1,724	8	1,732	573	117	690	2,297	125	2,422	
April	1,473	34	1,507	492	95	587	1,965	129	2,094	
May	1,828	72	1,900	541	223	764	2,369	295	2,664	
June	1,779	106	1,885	554	216	770	2,333	322	2,655	
July	1,407	51	1,458	587	71	658	1,994	122	2,116	
August	1,642	23	1,665	631	13	644	2,273	36	2,309	
		5	1,660	706	67	773	2,361	72	2,433	
Sentember	1077			71793						
September October	1,655 1,407	8	1,415	425	28	453	1,832	36	1,868	

NOTE: The number of self-contained dwelling units approved as part of the construction of non-residential building and alterations and additions to existing buildings (including conversions to dwelling units) are excluded from this table. There were 25 such dwelling units approved in November 1994.

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

				New res	idential bu	ilding				Alterations				
		Houses		Other res	idential hu	ildings		Total		und additions to	Non-residential building		Total huilding	
Period	Private sector	Public sector	Total	Private sector	Public sector	Total	Private sector	Public sector	Total	residential buildings	Private sector	Total	Private sector	Total
					PERT	TH STAT	 TISTICAL	. DIVISIO	ON O					<u> </u>
					01.0	215 2	022.2	02.4	014.6	104.0	245.2	100 £	1.170.4	1 410 0
1991-92	689.9	10.5	700.4	133.3 188.9	81.9 92.3	215.2 281.2	823.2 1.010.9	92.4 109.9	915.6 1,120.9	104.8 113.3	245.3 463.2	398.5 715.9	1,172.4 1,585.3	1,418.8 1,950.1
1992-93 199 3-94	822.1 1,067.8	17.7 19.2	839.7 1,087.0	319.3	58.6	377.9	1,387.1	77.8	1,464.8	122.0	388.I	492.4	1,896.8	2,079.3
1993-94														
July-November 1994-95	428.6	7.6	436.1	121.5	16.0	137.5	550.1	23.6	573.6	49.7	183.3	213.5	782.9	836.8
July-November	452.6	5.9	458.5	162.7	9.5	172.3	615.3	15.5	630.8	59.8	203.1	258.8	878.2	949.4
/993—						22.4			4400	0.7			170.0	105
September	85.5	2.2	87.7	28.1	2.4	30.5	113.6	4.6	118.2	9.7	56.6 47.0	57.9 50.7	179.9	185.9
October	85.5	0.8	86.3	27.1	1.8	28.9	112.6	2.6	115.2	11.3	47.0	50.7	170.9	177,2 176.2
November	89.7	3.5	93.2	25.2	4.2	29.4	114.9	7.7	122.6	10.4 9.8	35.4 20.7	43.1 56.4	160.8 147.0	176.2 191.8
December	91.6	2.7	94.4	24.9	6.3	31.2	116.5	9.0	125.5	7.8	20,7	4.0¢,	147.0	191.8
<i>1994</i> January	64.0	0.1	64.2	15.4	1.1	16.4	79.4	1.2	80.6	8.8	23.7	27.5	111.8	116.8
February	89.4	0.4	89.8	26.0	7.6	33.6	115.5	7.9	123.4	10.4	16.2	23.9	142.1	157.8
March	95.0	0.2	95.2	39.2	5,7	44.8	134.2	5.9	140.0	12.2	32.1	40.0	178.5	192.2
April	89.7	0.3	90.0	27.3	2.6	29.9	116.9	2.9	119.8	11.3	28.8	38.9	157.0	170.0
May	104.7	3.1	107.8	29.7	9.5	39.2	134,4	12.6	147.0	10.6	49,7	50.8	194.6	208.3
June	104.8	4.7	109.5	35.3	10.0	45.3	140.1	14.7	154,9	9.3	33.6	41.4	183.0	205.6
July	89.4	3.5	92,9	32.9	3.5	36.4	122.3	7.0	129.2	10.2	41.2	42.7	173.7	182.2
August	97.6	0.7	98.4	33.7	0.4	34.0	131.3	1.1	132.4	12.9	42.2	63.0	186.4	208.2
September	91.1	_	91.1	36.3	2.7	38.9	127.4	2.7	130.0	10.9	40.6	47.2	178.9	188.2
October	80.7	0.4	81.1	25.7	1.7	27.4	106.4	2.0	108.4	12.0	41.3	47.0	159.6	167.4
November	93.8	1.4	95.1	34,2	1.4	35.5	127.9	2.7	130.7	13.8	37.8	58.9	179.6	203.4
						WĖSTEI	RN AUST	RALIA						
1991-92	931.4	23.9	955.3	166.1	96.5	262.6	1.097.5	120.4	1,217.9	124.2	306,6	504.9	1,527.0	1.847.0
1992-93	1,138.8	34.9	1,173,7	227.6	118.1	345.7	1,366.4	153.0	1,519.4	137.1	591.3	889.6	2,091.8	2,546.1
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	2,781.1
1993-94						1// 0	720.7	20.1	740.0	61.3	242.4	301.1	1,042.8	1,132.
July-November 1994-95	593.3	11.3	604.6	146.4	18.9	165.2	739.7	30.1	769,8	61.2	242.6		-	,
July-November	625.7	8.6	634.3	194.8	13.4	208.2	820.4	22.0	842.5	72.5	251.3	322.2	1,144.2	1,237.:
1993—	110.4	2.0	121.4	32.3	2,4	34.7	150.6	5.4	156 .1	12.7	66.7	84.8	230.1	253.
September	}18.4 116.4		117.2		2.8	34.3	147.8	3.7	151.5	14.0	53.0	58.9	214.6	224.
October November	126.5		130.3		5.0	37.5	159.1	8.7	167.8	13.0	54.0	64.9	225.6	245.
December	121.3		125.0		8.1	39.3	152.5	11.8	164.3	11.7	25.8	67.2	190.0	243.
1994														
January	84.8	1.3	86.0	23.5	2.4	25.9	108.2	3.7	111.9	10.4	33.1	37.4	151.6	159.
February	122.4	1.7	124.0	30.8	7.8	38.6	153.2	9.4	162.6	13.0	31.2	42.7	197.4	218.
March	135.3	0.8	136. I	43.5		50.2		7.5	186.3	14.8	41.5	49.7	235.0	250.
April	119.6		122.8			38.0	151.6	9.2	160.8	13.5	35.5	46.6	200.4	220.
May	147.0		151.9			48.4	181.5	18.8	200.4		57.4	58.7	252.3	272.
June	145.7		153.2		14.8	55.4	186.3	22.3	208.7	12.0	46.0	63.7	244.3	284.
July	119.4		123.3		4.4	44.4	159.4	8.3	167.8	12.7	51.5	55.0	223.6	235.
August	132.7		134,8			42.4	174.3	2.9	177.3		54.2	77.1	243.4	269.
September	133.1		133.6			49.2	178.1	4.8	182.8		50.9	61.9	243.0	258.
October)13,1		113.6			31.7	143.2	2.1	145.3		48.3	60.2	206.0	220.
November	127,4	1.6	129.0	38,0	2.3	40.4	165.4	3.9	169.3	16.3	46.4	68.0	228.1	253.

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

		House	2.5		Total						
	Private sector		Total		Private sector		Total				
Period	Seasonally adjusted	Trend estimate	Seasonally adjusted	Trend estimate	Seasonally adjusted	Trend estimate	Seasonally adjusted	Trend estimate			
1993											
September	1,515	1,523	1,568	1,575	1,956	1,987	2,097	2,144			
October	1.516	1,538	1,550	1,586	2,092	2,046	2,209	2,199			
November	1,543	1,548	1.645	1,587	2,094	2,087	2,329	2,230			
December	1,592	1,561	1,625	1,589	2,154	2,112	2,391	2.242			
1994—											
January	1.517	1,589	1,475	1,607	2.046	2,133	1,941	2,251			
February	1.655	1,619	1,663	1,633	2,204	2,148	2,324	2,261			
March	1,599	1,637	1,640	1,657	2,059	2.155	2,309	2.271			
April	1,681	1.636	1,689	1,670	2,219	2.150	2,236	2,277			
May	1,679	r1.620	1,750	r1,665	2,187	r2,135	2,371	r2,275			
June	1,635	rl,588	1,689	r1,638	2,164	r2,110	2,343	r2,254			
July	1,358	r i ,545	1,436	r1,592	1,904	r2,078	2,037	r2,213			
August	1,544	r 1,502	1,568	r1,543	2.080	г2,046	2,142	r2,171			
September	1,564	г1,461	1,570	r1,498	2,079	r2,017	2.273	r 2, 136			
October	1,396	r1,423	1.424	r1,459	2,008	r1,989	2,060	г2,104			
November	1,340	1,391	1,406	1,424	1,916	1,969	2,050	2,072			

⁽a) 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.

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

				(2 millio)	1)				
	_	New residentia	al huilding		Alterations	Non-residen huilding		Total building	
	Houses	Houses			and — additions to				
Period	Private sector	Total	Other residential hulldings	Total	residential huildings	Private sector	Total	Private sector	Total
1991-92	1,052.9	1,079.9	256.1	1,336.1	140.4	298.3	491.3	1,645.9	1,967.9
1992-93	1,261.4	1,300.1	341.2	1,641.4	151.7	579.6	872.0	2,207.3	2,665.1
1993-94	1,580.5	1,617.4	453.6	2,071.0	161.4	501.5	651.9	2,613.2	2,884.3
1993—									
June qtr.	340,6	353.2	97.0	450.2	37.3	171.4	244.9	608.7	732,4
Sept. qtr.	381.7	389.0	92.2	481.2	37.2	132.8	173.6	631.5	692. I
Dec. qtr.	393.7	402.7	109.5	512.2	41.8	129.8	186.6	657.2	740.6
1994—									
Mar. qtr.	367.4	371.3	112,7	484.0	41.0	103.3	126,8	606.4	651.8
June qtr.	437.7	454.3	139.2	593.6	41.3	135.6	164.9	717.9	799.8
Sept. qtr.	398.3	405.1	133.3	538.4	43.0	152.6	189,1	717.3	770.5

⁽a) See paragraphs 20-25 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) July-November 1994 Class of huilding 19**9**2-**9**3 1993-94 1993-94 1994-95 September October November 1 - 1 - 1 - 1 PRIVATE SECTOR 1,138.8 1,469.3 593.3 625.7 133.1 113.1 127.4 New houses New other residential buildings 227.6 382.5 146.4 194.8 45.0 30.1 38.0 739.7 178.1 Total new residential building 1.366.4 1.851.8820.4 143.2 165.4 Alterations and additions to 148.9 134.1 60.5 72.4 14.0 14.6 16.2 residential buildings 30.3 19.5 Hotels, etc. 10.7 11.1 12.3 0.6 3.3 Shops 212.8 151.3 91.0 59.0 9.7 18.8 10.0 9.3 Factories 41.2 55.4 18.6 40.3 8.1 5.6 44.4 53.7 25.4 30.3 5.6 **2**.1 3,4 Offices 100.3 89 9 5.5 9.5 Other business premises 37.4 36.4 43 Educational 28.8 41.0 14.9 14.9 1.5 3.8 2.2 4.2 9.1 1.1 0.1 0.1 0.6 Religious 3.8 79.8 28.8 13.2 17.3 0.1 2.3 5.8 Health 24.4 25.7 9.0 3.0 0.7 8.1 Entertainment and recreational 17.7 Miscellaneous 44.7 27.9 18.1 14.7 5.2 1.1 3.1 591.3 513,1 242.6 251.3 50.9 48.3 46.4 Total non-residential building 228.1 Total 2,091.8 2,513.8 1,042.8 1,144.2 243.0 206.0 PUBLIC SECTOR 34.9 34.4 11.3 8.6 0.5 0.5 1.6 New houses 18.9 13.4 118.1 78.5 4.3 1.7 2.3 New other residential buildings 112.9 30. I 153.0 22.0 2.1 3.9 Total new residential building 4.8 Alterations and additions to 0.1 3.0 1.1 0.7 residential buildings Hotels, etc. 0.21.8 0.7 0.32.0 1.6 1.4 Shops Factories 4.6 1.3 0.80.1 67.6 27.7 0.3 1,7 5.3 7.5 3.7 Offices 17.4 6.5 0.3 0.3 0.1 Other business premises 12.2 6.6 11.3 40.7 4.7 17.0 Educational 98.6 61.0 3.6 Religious Health 22.1 23.4 23.4 3.5 2.4 0.3 0.2 0.6 49.7 13.7 6.2 1.4 0.4 Entertainment and recreational 3.2 9.7 0.5 5.4 2.0 Miscellaneous 41.3 7.6 20.9 11.0 11,9 21.6 Total non-residential building 298.3 153.9 58.5 93.0 15.7 14.1 25.5 Total 454_3 267.9 89.3 TOTAL 604.6 129.0 1.173.7 1.503.7634.3 133.6 113.6 New houses 208.2 New other residential buildings 345.7 461.0 165.2 49 2 31.7 40.4 1,519.4 1,964.7 769.8 842.5 182.8 145.3 169.3 Total new residential building Alterations and additions to residential buildings 137.1 150.0 61.2 72.5 14.0 14,6 16.3 10.8 30.3 11.1 19.5 12.3 0.6 3.3 Hotels, etc. 214.8 153.1 92.6 60.4 9.7 19,5 10.3 Shops 40.4 9.3 **Factories** 45.8 56.7 19.4 8.1 5.6 Offices 112.0 81.3 30.7 37.R 9.3 74 5.1 107.3 44.0 42.9 5.7 9.8 4.4 Other business premises 112.5 8.5 19.2 127.4 102.1 26.3 55.6 5.2 Educational 0.1 0.1 0.6 9.1 3.8 Religious 4.2 1.1 Health 101.9 52.2 36.5 20.8 2.5 26 5.8 74.0 39.5 15.2 19,2 3.4 0.8 8.6 Entertainment and recreational 35.5 21,4 24.5 5.6 6.5 5.1 Miscellaneous 86.0 68.0 301.1 322.2 61.9 60.2 Total non-residential building 889.6 667.0 Total 2,546.1 2,781.7 1,132.1 1,237.2 258.7 220.1 253.6

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

				AND V	ALUE SIZ	E GROUI	PS					
	\$50,000 to than \$200			\$200,000 to less than \$500,000		o less m	\$1m to less than \$5m		\$5m and over		Total	
Period	No.	Value (8m)	No.	Value (Sm)	No.	Value (\$m)	No.	Value (Sm)	No.	Value (\$m)	No.	Value (\$m)
., ., .,	•				HOTELS, E	ETC.						
1994 September	3	0.3	2	0.5						11.5	6	12.3
October	3	0.3	1	0.3		_	_				4	0.6
November	<u> </u>	0.2	1	0.4	2	1.4	l	1.4		_	6	3.3
					SHOPS	;						
1994 September	20	1.8	12	4.0	3	2.2	1	1.7			36	9.7
October	26	2.4	16	4.9	2	1.2	3	4.7	1	6.3	48	19.5
November	22	2.2	6	2.2	6	3.4	2	2.6			36	10.3
					FACTOR	IES						
1994 September	19	2.4	15	4.5			i	1.2	_		35	8.1
October	14	1.6	6	1.8	1	0.5	2	5.5	_	_	23	9.3
November	22	2.7	11	2.9	_						33	5.6
					OFFICE	S						
1994 September	21	2.4	5	1.7	2	1.6	2	3.7	_		30	9.3
October	9	0.8	3	1.0	1	0.7				_	13	2.4
November	12	1.0	6	1.8	2	1.3	!	1.0		_	21	5,1
					R BUSINESS	S PREMISE:	S					
1994 September	16	1.6	10	2.9	2	1.2	_		_	—	28	5.7
October	15	1.5	7	2.0	3	1.9	3	4.5	_	_	28	9.8
November	23	2.0		1.8	1	0.7	_				30	4.4
					EDUCATIO							
1994 September	8	0.9	3	0.9	2	1.4	1	1.9		_	14	5.2
October	4	0.6	3	1.0	3	2.4	3	4.5	_	_	13	8.5
November	3	0.3	3	0.7	3	2.1	2	6.6	<u> </u>	9.5	12	19.2
					RELIGIO	US						
1994 September October	1	0.1 0.1	_	_	_	_		_	_	_	1	0.1
November	t	0.1		0.4			_		_		1 2	0.1 0.6
				0.4								
1004 5	•	0.1			HEALT		 ,	1.0				
1994 September October	1 4	0.1 0.4		0.7	2	1.4	1 1	1.0 1.6	_		4 7	2, 5 2.6
November	3	0.2	_	_		1.3	3	4.3	_		8	5.8
			F	NTERTAIN	MENT AND	RECREAT	IONAL					
1994 September	3	0.3	1	0.2	_	_	1	2,9		····	5	3,4
October	7	0.6	1	0.3		-	_	_	_		8	0.8
November		0.5	3	0.8	ı	0.7	3	6.6		_	12	8.6
					MISCELLAN	NEOUS						
1994 September	6	0.7	4	1.4	1	0,7	1	3.0			12	5.6
October	5	0.5	3	0.7	2	1.3	2	4.1			12	6,5
November	7	0.6	3	1.2			2	3.3			12	5.1
	121				N-RESIDEN							
1994 September	98	10.4	52	16.1	12	8.5	8	15.4	į.	11.5	171	61.9
October	88	8.7	42	12.5	12	8.0	14	24.7	1	6.3	157	60.2
November	100	9.8	40	12.1	17	10.8	14	25,8	1	9.5	172	68.0

TABLE 7. BUILDING APPROVALS BY STATISTICAL LOCAL AREAS (a), NOVEMBER 1994

		^	iew resideni	ial building			Alterations	Non-resie buildi				
		Houses		Other re	esidential bui	dings	and = additions	-				
Statistical local area, statistical subdivision and	Private sector	Public sector	Total value	Private sector	Public sector	Total value	to rexidential buildings	Private	T I	Total building		
statistical division	(number)	(numher)	(\$ 000)	(number)	(number)	(\$'000)	(\$ '000)	sector (\$ '000)	Total (3 '000)	ounding (\$*000)		
	PERTH STATISTICAL DIVISION											
Cambridge (T)	5		915	3	_	240	714	430	430	2,299		
Claremont (T)	5		1,133	_	_	_	404	226	226	1,763		
Cottesloe (T)	1	_	236		_		135	_	_	371		
Mosman Park (T) Nedlands (C)	5 8	_	884 1,145	2	_	180	236			1,300		
Peppermint Grove (S)	_	_	1,143	_	_	_	1,379	80	214	2,738		
Perth (C) Inner	_	_	_		_	_	_	790	1.090	1,090		
Perth (C) — Remainder		_	_	53	_	3,939	265	960	3,460	7,664		
Subiaco (C)	4	_	485		_	_	400	735	735	1,620		
Victoria Park (T)	5	_	354	31	6	2,823	233	4,660	6,921	10,331		
Vincent (T)	7	_	749	4		347	693	740	740	2,521		
Central Metropolitan (SSD)	40		5,902	93	6	7,528	4,459	8,621	13,816	31,70		
Bassendean (T)	8	_	763			_	101	180	480	1,343		
Bayswater (C)	60		4,856	14	_	508	1,150	2,808	2,808	9,322		
Kalamunda (S)	24		2,134	2	_	100	249	_		2,483		
Mundaring (S) Swan (S)	35 110	_	3,007 7,097	2 14	_	100 480	181 284	1,370	1,670	4,957		
East Metropolitan (SSD)	237		17,857	32	_	1,188	1.965	3,123 <i>7,481</i>	3,523 8,481	11,385 29,49		
out with opinion (into)	201		17,007	31		7,1110	1.705	7,401	11, 4111	27,47		
Stirling (C) Central	23	_	2,227	118		7,155	545	878	10,378	20,305		
Stirling (C) West	14	_	1,274	69	_	5,863	396	150	210	7,743		
Stirling (C) — South-Eastern Wanneroo (C)	3 336	-	201	38	_	2,410	367	860	860	3,839		
North Metropolitan (SSD)	376	_	26,136 29,839	24 249	_	1,513 16,940	1,366 2, 674	8,973 10,861	13,118 24,566	42,130 74,020		
Cockburn (C)	80	_	7,499	10	<u>.</u>	593	26 1	2,342	2,342	10,695		
East Fremantle (T)	2	_	185	_	_		169	95	95	449		
Fremantie (C) — Inner	_	_	_		_	_	110	200	200	310		
Fremantle (C) — Remainder	6		509	34	_	3,180	951	538	538	5,178		
Kwinana (T)	21	_	1,310	_		_	46	719	719	2,074		
Melville (C)	43 125	-	5,963	6 14	3	719 544	1,081	470	470	8,231		
Rockingham (C) South West Metropolitan (SSD)	277	_	8,839 24,304	64	3	5,037	128 2,746	4,364	1.182 5.547	10,691 37,63		
Armadale (C)	36	_	3,060			_	219	81	81	3,360		
Belmont (C)	13	22	2,239	_	2	123	259	680	680	3,301		
Canning (C)	47		4,149	52	_	2,258	437	1,908	1,908	8,75		
Gosnells (C)	84	_	5,642	10	11	1,278	343	1,233	1,233	8,496		
Serpentine-Jarrahdale (S)	11	_	907		_		75	1,613	1,613	2,595		
South Perth (C) South East Metropolitan (SSD)	6 197		1,228 17,225	13 75	13	1,194 4.853	644 1,977	950 6.465	950 6,465	4,016 <i>30,52</i> 1		
- Total	1,127	22	95,127	513	22	35,546	13,821	37,792	58,875	203,364		
		SOUTH '	WEST ST	ATISTICAL	DIVISION	1						
Boddington (S)	3		229		_					229		
Mandurah (C)	79	_	6,258	6	_	436	230	689	689	7,613		
Murray (S)	15	_	1,714	_	_	-	47	_	_	1,76		
Waroona (S) <i>Dale (SSD)</i>	2 99		264 8,465	 6	_	436	12 <i>289</i>	 689	689	271 9,871		
Bunbury (C)	15	- 4	1,514	19	_	1,559	136	508	786	3,99		
Capel (S) Collie (S)	2		144 49	2	_	86	28	_		25) Al		
Colle (S) Dardanup (S)	9		877	_	_		88	_	_	4º 96:		
Donnybrook-Balingup (S)		_		_	_			_	_			
Harvey (S)	34	_	3,004	_	8	512		80	80	3,62		
Preston (SSD)	16	_	5,586	21	8	2,158		588	866	8.88		

TABLE 7. BUILDING APPROVALS BY STATISTICAL LOCAL AREAS (a), NOVEMBER 1994 continued

		,	Vew resident	ial building			Alterations	E7		
	 	Houses		Other re	rsidential 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	huildings	sector	Total	building
statistical division	(numher)	(number)	(\$1000)	(number)	(number)	(\$'000)	(\$'000)	(\$'000)	(\$'000)	(\$ '000)
	sot	JTII WEST	STATIST	ICAL DIVI	SION (cont	inued)				
Augusta-Margaret River (S)	8		833	2		80	105	50	50	1,068
Busselton (S)	26	_	2,885	2	_	215	73	490	490	3,663
Vasse (SSD)	34		3,718	4	_	295	178	540	540	4,731
Boyup Brook (S)	_	_	_		••••	_	_	_		
Bridgetown-Greenbushes (S)			_		_		48		_	48
Manjimup (S)	9		795	_	_	_		120	120	915
Nannup (S)	2	_	80	_			100	_		180
Blackwood (SSD)	H	_	875		_	_	148	120	120	1,143
Total	205	_	18,644	31	8	2,889	892	1,937	2,215	24,640
	LOW	ER GREAT	SOUTH	ERN STAT	ISTICAL D	IVISION				
Broomehill (S)	_		_							_
Gnowangerup (S)							_	_	_	
Jerramungup (S)	5	_	383	_			30	_	_	413
Katanning (S)	1	_	60			_	38			98
Kent (S)	_	_			~~			_	_	_
Kojonup (S)	_	_	_	_		_	10		_	10
Tambellup (S)		_	_		_	_	_		_	
Woodanilling (S)	1	-	28			_	_	_	_	28
Pallinup (SSD)	7		471	_	_	_	78		_	549
Albany (T)	13	_	1,398	2	_	100	46	340	340	1,884
Albany (S)	16		1,330				67	70	70	1,467
Cranbrook (S)	_		_	_	_					_
Denmark (S)	4	_	430	_	_	_	_	400	400	830
Plantagenet (S)	13	_	840	_	_	_	44	_	_	883
King (SSD)	46		3,999	2	_	100	157	810	810	5,065
Total	53	_	4,469	2	_	100	235	810	810	5,614
	UPPI	ER GREAT	SOUTHE	RN STATI	STICAL DI	VISION				
Brookton (S)								_	_	_
Cuballing (S)	1	_	45	_	_	_	_	_	_	4:
Dumbleyung (S)	_	_	_			_	_		_	_
Narrogin (T)	_	_			_		57	60	60	117
Narrogin (S)	1	_	72			_	_		_	72
Pingelly (S)	_	_	_	_		_	_	_	_	
Wagin (S)		_			_				-	_
Wandering (S)	_	_	_	_	_	_	_	_	_	_
West Arthur (S)	_	_	_		_				_	_
Wickepin (S)	_	_	_	_	_	_	_	_	_	_
Williams (S)	1	_	224	_	_	_	_	_	_	224
Hotham (SSD)	3	_	341	_		_	57	60	60	458
Corrigin (S)	_	_		-	_	_	25	_	_	2:
Kondinin (S)	1	_	60	_	_	_	23	_		83
Kulin (S)	_	_	_	_	_				_	_
Lake Grace (S)	_	_	_	_		_	32	70	70	103
							80	70	70	271
Lakes (SSD)	1	_	60	_		_	007	717	717	

For footnote, see end of table.

TABLE 7. BUILDING APPROVALS BY STATISTICAL LOCAL AREAS (a), NOVEMBER 1994 continued

		,	New residem	ial building			Alterations	Non-residential huilding		
		Houses		Other re	esidential hui	ldings	and and additions			
Statistical local area, statistical subdivision and statistical division	Private sector (number)	Public xector (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)
		MIDLA	NDS STA	TISTICAL	DIVISION				•••	
Chittering (S)	3	_	127	_	_	_	-	-		127
Dandaragan (S)	3		226		_	_	14	_	_	240
Gingin (S)	7		483		-		117	_	_	600
Moora (S)	1		99		_				-	99
Victoria Plains (S)	_	_	_	_	_	_	_	_		
Moore (SSD)	14	_	934	_	_	_	131	_	_	1,065
Beverley (S)	_	_		_	_	_		_		_
Cunderdin (S)	2	_	156		_	_	_	_	_	156
Dalwallinu (S)	_	-			_			_		_
Dowerin (S)			4			_				_
Goomalling (S)	_	_	_			_	_		-	
Koorda (S)	_	_	_	_	_	_		_	_	_
Northam (T)	1	_	73	6		400	15	280	280	768
Northam (S)	7	_	537			_	35		44	572
Quairading (S)	_	_	_	_	_	_	_	_	_	-
Tammin (S)	_		_			_	_	_	_	_
Toodyay (S)	3	_	331	_	_	-	93	****		424
Wongan-Ballidu (S)		_	_	_	_	_	_	_	_	_
Wyalkatchem (S)	_	_	_	_		_	_	_	_	_
York (S)	3	_	165	_	_	_	30			195
Avon (SSD)	16	_	1,261	6	_	400	173	280	280	2.114
Bruce Rock (S)		_		_	_	_	_	_	_	
Kellerberrin (S)	_	<u>. </u>	_	_	_	_	_	_	_	_
Merredin (S)	_			_	_			_		
Mount Marshall (S)	_	_	_	_	-	_	_	_	_	_
Mukinbudin (S)		-	_	_	_	_	_	_	_	_
Narembeen (S)	_	_	_	_	_	_	_	_	_	
Nungarin (S)	-			_		_	_	-	_	
Trayning (S)	_	_	_	_	_	_	_	_	_	_
Westonia (S)		_	_	_	_	_	_	_	_	
Yilgam (S)	2		104		_	_	35	2,150	2.150	2,288
Campion (SSD)	2	_	104	_	_	_	35	2,150	2,150	2,288
Total	32	_	2,299	6	_	400	339	2,439	2,438	5,468
		SOUTH EA	ASTERN S	TATISTIC	AL DIVISION	ON				
Coolgardie (S)								70	70	70
Kalgoorlie/Boulder (C)	17	_	1,790	9	_	558	441	2,513	2,513	5,302
Laverton (S)	_	_	_		_	_				
Leonora (S)			• · ·	_	_	_	_	_	_	_
Menzies (S)		_	_	_	_	_	_	_	_	_
Lefroy (SSD)	17	_	1,790	9	_	558	441	2,583	2.583	5.372
Dundas (S)	_	_	_			*"	-s .	–		
Esperance (S)	8		749	_	_	_	68	_	-	817
Ravensthorpe (S)	5	_	263	_	_	_	50	_	_	313
Johnston (SSD)	13	_	1,012	_	_	_	118	_	_	1,130
Total	30		2,802	9		558	559	2,583	2,583	6,502

For footnote, see end of table.

TABLE 7. BUILDING APPROVALS BY STATISTICAL LOCAL AREAS (a), NOVEMBER 1994—continued

		۸	iew resident	ial huilding			Alterations	ν.		
		Houses		Other re	esidential huil	dings	and = udditions			
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)
		CENTI	RAL STAT	TI\$TICAL I	DIVISION					
Camarvon (S)	2		189						_	189
Exmouth (S)	_				_		_			_
Shark Bay (S)	1		75	2		150	_	60	60	284
Upper Gascoyne (S)		_	364	_	_			60	60	473
Gascoyne (SSD)	3		264	2		150	_	047	00	7/3
Cue (S)	_			_	_			_	_	_
Meekatharra (S)		-	_				_			
Mount Magnet (S)		_				_			_	_
Murchison (S)	_		_	_	**		_		_	
Ngaanyatjarraku (S)		_	_			_			_	_
Sandstone (S)			_	_				_	_	
Wiluna (S) Valuna (S)	_		_	_		_	_	_		_
Yalgoo (S) Carnegie (SSD)		-	_	_		_	_	_	_	
C								v-=-	_	_
Carnamah (S) Chapman Valley (S)				_		_	_	_		
Coerow (S)	1		40	_	_		25	_		65
Geraldton (C)	i		95	3	6	716		255	255	1,123
Greenough (S)	16		1,962			_	47		123	2,132
Irwin (S)	1	_	100	_			15	_	_	115
Mingenew (S)	_	_		_	_	_	_	_		_
Morawa (S)			_	_		_	_			_
Mullewa (S)				_		_		_	116	116
Northampton (S)	5	_ `	347	_	_		15	53	53	415
Perenjori (S)	_	_		_	<u> </u>	_	_	-		265
Three Springs (S) Greenough River (SSD)	1 25	2 2	265 2,809			716	158	308	5 46	4.230
-							•			
Total		2	3,073	5	6	866	158	367	606	4,703
		PILBA	ARA STA	ΓISTICAL	DIVISION					
Fast Pilhara (S)	_		320		_	_	47	50	50	417
Port Hedland (T)	2 2	_	320 320		_	_	47	50	50	417
De Grey (SSD)	Z		2217							
Ashburton (S)	_		_		_	_	- 23	_	_	23
Roebourne (S)	1		130	_	-	_	- 30	123	123	283
Fortescue (SSD)	I		130	_	_		53	123	123	306
Total	3		450		_	_	100	173	173	723
		КІМВЕ	RLEY ST	ATISTICA	L DIVISIO	4				
Halls Creek (S)							-		_	
Wyndham-East Kimberley (S)	4		374				25	_		399
Ord (SSD)	4		374	_	-	_	- 25	-	_	399
Broome (S)	12	_	1,322	_		_	_	175	175	1,497
Derby-West Kimberley (S)				_	·-	_		_	_	
Fitzroy (SSD)	12	_	1,322	_		_	_	175	175	1,497
Total	16	_	1,696	_		_	- 25	175	175	1,896
		.,_	WESTER	N AUSTR	ALIA					
										444 45
Western Australia	1,498	24	128,960	566	36	40,35	9 16,266	46,397	67,996	253,587

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

TABLE 8. NUMBER OF NEW HOUSES APPROVED BY MATERIAL OF OUTER WALLS, FLOOR AREA AND VALUE PER SQUARE METRE BY STATISTICAL DIVISION NOVEMBER 1994

	Material of outer walls								
Statistical division	Double brick(a)	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	1.124	_	6	11	8	1,149	251,858	219	378
South-West	173	5	13	10	4	205	47,702	233	391
Lower Great Southern	8	22	17	4	2	53	11,529	218	388
Upper Great Southern	1		3		_	4	890	223	451
Midlands	8	6	12	4	2	32	6,287	196	366
South-Eastern	8	18	2	2		30	6,331	211	443
Central	20	1	8		1	30	6,021	201	510
Pilbara	i	2				3	725	242	621
Kimberley	_	1			15	16	4,023	251	421
Western Australia	1,343	55	61	31	32	1,522	335,366	220	385

⁽a) Includes houses constructed with outer walls of stone and concrete.

TABLE 9. NEW DWELLING UNITS APPROVED, BY TYPE AND STATISTICAL DIVISION NOVEMBER 1994

	Houses	Other residential building								
		Semi-detached, row or terrace houses, townhouses, etc. of			Flats, units or apartments in a building of					<u>.</u>
Statistical division		l storey	2 or more storeys	Total	1-2 storeys	3 storeys	4 or more storeys	Total	Total	Total residential building
			NU	MBER OF I	OWELLING U	VITS				
Perth	1,149	416	66	482	_	_	53	53	535	1,684
South West	205	37	2	39				_	39	244
Lower Great		***		•					3,	
Southern	53	2		2			_	_	2	55
Upper Great										
Southern	4	_	_	_	_			_		4
Midlands	32	6		6	_	_	_	_	6	38
South Eastern	30	9		9	_			_	9	39
Central	30	9	2	11	_		_	_	11	41
Pilbara	3		_	_		_	· -		_	3
Kimberley	16				_	_	_	_	_	16
Western Australia	1,522	479	70	549	_	_	53	53	602	2,124
		·		VALU	Æ (\$`000)					
Perth	95,127	25,590	6,018	31,608			3,939	3,939	35,546	130,673
South West	18,644	2,619	270	2,889				·	2,889	21,533
Lower Great										
Southern	4,469	100		100	_	_	_	_	100	4,569
Upper Great										
Southern	401	-	 ·		_	_	_	_		401
Midlands	2,299	400		400	_	-		_	400	2,699
South Eastern	2.802	558		558	_	_	_	_	558	3,360
Central	3,073	716	150	B66	_	_	_	~*.	866	3,939
Pilbara	450			_	_	_	_	_		450
Kimberley	1,696				_	_	_	_	_	1,696
Western Australia	128,960	29,983	6,438	36,421	_	_	3,939	3,939	40,359	169,320

EXPLANATORY NOTES

Introduction

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

- (a) permits issued by local government authorities in areas subject to building control by those authorities;
- (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.

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

Factors affecting comparability

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

Scope and coverage

- 3. 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.
- 4. 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.
- 5. From July 1990, the statistics cover:
 - (b) all approved new residential building jobs valued at \$10,000 or more:
 - (b) approved alterations and additions to residential buildings valued at \$10,000 or more;
 - (c) all approved non-residential building jobs valued at \$50,000 or more.

From July 1988 to June 1990, the statistics covered:

- (d) all approved new residential building jobs valued at \$5,000 or more (previously all new residential building jobs were included regardless of value);
- (e) approved alterations and additions to residential buildings valued at \$10,000 or more;
- (f) all approved non-residential building jobs valued at \$30,000 or more (previously \$10,000 or more).

These changes in scope mainly affect non-residential building data and 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

- 6. 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 humans.
- 7. A dwelling unit is defined as a self contained suite of rooms, including cooking and bathing facilities and intended for long term residential use. Units (whether self contained or not) within buildings offering institutional care, such as hospitals, or temporary accommodation, such as motels, hostels and holiday apartments, are not defined as dwelling units. The value of units of this type is included in the appropriate category of non-residential building approved.
- 8. A residential building is defined as a building predominantly consisting of one or more dwelling units. Residential buildings can be either houses or other residential buildings as follows:
 - (a) A house is defined as a detached building predominantly used for long term residential purposes and consisting of only one dwelling unit. Thus detached 'granny flats' and detached dwelling units (such as 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 flats, home units, townhouses, duplexes, apartment buildings, etc).
- 9. The number of dwelling units created by alterations and additions to existing buildings and through the construction of new *non-residential buildings* is not included in the tables but is shown as a footnote to Table 1.
- 10. Values data are derived by aggregation of the estimated value (when completed) of building work (excluding value of land and landscaping but including site preparation) as reported on approval documents. For houses, these estimates are usually a reliable indicator of the completed value of the building. However, for other residential buildings and non-residential buildings these estimates can, and often do, differ significantly from the completed value of the building.

Building classification

11. Ownership. The ownership of a building is classified as either public sector or private sector according to the sector of the intended owner of the completed building as evident at the time of approval. Residential buildings being constructed by private sector builders under government housing authority schemes whereby the authority has contracted, or intends to contract, to purchase the buildings on or before completion, are classified as public sector.

- 12. Functional classification of huildings. 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 in the treatment of group accommodation buildings where, for example, a student accommodation building on a university campus would be classified to Educational.
- 13. From July 1992, an expanded functional classification of buildings based on the *Dwelling Structure Classification* (DSC) has been introduced by the ABS to provide more detailed information on residential building approvals.
- 14. The DSC has been developed by the ABS to provide a standard classification of the different types of dwelling structures (houses, flats, townhouses, etc.). The DSC will be implemented across all major collections of housing data in the ABS. The DSC has the same overall scope as the classification used in previous collections but provides more detail than previously available to reflect the current interest in medium to high density housing.
- 15. In particular, for Building Approvals, DSC allows new other residential building to be classified as follows:
 - (a) Semi-detached, row or terrace houses, townhouses, etc. (dwellings having their own private grounds and no other dwellings above or below) with
 - one storey;
 - two or more storeys.
 - (b) Flats, units or apartments, etc. (dwellings not having their own private grounds and usually sharing a common entrance, foyer or stairwell) in a building of:
 - one or two storeys;
 - three storeys;
 - four or more storeys.
- 16. More details on the DSC are contained in the ABS Information Paper, Dwelling Structure Classification (DSC) (1296.0).

Seasonal adjustment

- 17. Seasonally adjusted dwelling unit statistics are shown in Table 3. In these series, account has been taken of normal seasonal factors and 'trading day' effects (arising from the varying numbers of Sundays, Mondays, Tuesdays etc. in the month) and the effect of movement in the date of Easter which may, in successive years, affect figures for different months. Revision of figures results from annual re-analysis, details of which, together with information regarding the methods used in seasonally adjusting the series, are available on request.
- 18. Each of the component series shown has been seasonally adjusted independently. As a consequence, while the unadjusted components in the original series shown add to the totals, the adjusted components may not add to the adjusted totals. Further, the difference between independently seasonally adjusted series does not necessarily produce series which are optimal or even

- adequate adjustments of the similarly derived original series. Thus the figures which can be derived by subtracting seasonally adjusted private sector dwelling units from the seasonally adjusted total should not be used to represent seasonally adjusted public sector dwelling units.
- 19. Seasonal adjustment may be carried out by various methods and the results may vary slightly according to the procedure adopted. Accordingly, seasonally adjusted statistics should not be regarded as in any way definitive. In interpreting particular seasonally adjusted statistics it is important to bear in mind the methods by which they have been derived and the limitations to which the methods used are subject.
- 20. Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences on the series may be more clearly recognised. Seasonal adjustment procedures do not aim to remove the irregular or non-seasonal influences which may be present in any particular month, such as the effect of the approval of large projects or as a consequence of the administrative arrangements of approving authorities. Irregular influences that are highly volatile can make it difficult to interpret the movement of the series even after adjustment for seasonal variation.
- 21. The seasonally adjusted series can, however, be smoothed to reduce the impact of the irregular component in the adjusted series. This smoothed seasonally adjusted series is called a trend estimate. There are a number of ways of accomplishing this, depending on the intended uses of the trend estimate. If importance is attached to measuring the underlying change in the most recent periods, moving averages employing appropriate weighting patterns should be adopted; the choice of averaging technique will determine in part the degree of smoothness of the derived series. For example, a 23-term moving average will generally even out more of the short term fluctuation in a series (and therefore appear 'smoother') than will a 13-term moving average. However, the longer the term of the moving average the longer the time series affected by revisions resulting from more recent data. In order to ensure that the underlying trend-cycle of a series is reflected in the trend estimate, the degree of smoothness alone cannot always be used as the sole criterion in determining which moving average is appropriate.
- 22. Trend estimates of dwelling unit statistics are shown in Table 3. The trend estimates (often referred to as trend-cycle estimates) have been derived by applying a 13-term Henderson-weighted moving average to the series.
- 23. While this technique enables trend estimates for the latest period to be produced, it does result in revisions to the trend estimates for the most recent months as additional observations become available. There may also be revisions as a result of changes in the original data, and as a result of the re-estimation of the seasonal factors. Details of other trend-cycle weighting patterns can be found in A Guide to Smoothing Time Series Estimates of Trend' (1316.0).

Estimates at constant prices

24. The base year of constant price estimates of building approvals, contained in this issue, has been changed to 1989-90.

- 25. Periodic rebasing of constant price estimates is necessary to take account of changed price relativities and structural relationships in the economy. The choice of the base year influences the movement in the constant price series and the usefulness of such series is diminished if the relative price weights of the base year differ significantly from the price relationships in the other periods included in the series. The more remote a base year is from the current period, the less likely that its relative prices will reflect the current situation.
- 26. A more detailed discussion of the need for rebasing constant price estimates and factors affecting the choice of base year is contained in the information paper *Change in Base Year of Constant Price Estimates from 1984-85 to 1989-90* (5227.0) released on 10 December 1992.
- 27. 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).
- 28. Constant price estimates measure changes in value after the direct effects of price changes have been eliminated. The deflators used to revalue the current price estimates in this publication are derived from the same price data underlying the deflators compiled for the dwellings and non-dwelling construction components of the national accounts aggregate 'Gross fixed capital expenditure'.
- 29. 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

30. Area statistics are classified according to the Australian Standard Geographical Classification. Figures previously published for local government areas and statistical divisions are directly comparable with this classification except for the cities of Perth, Fremantle and Stirling which are obtained by aggregating the component statistical local areas.

Perth City Council Re-structure

31. From July 1994, Perth City Council has been split. Although there are still five SLA's, only two retain the same boundaries. The new Town of Shepperton comprises the whole of the SLA previously known as Perth(C) South. The City of Perth is now comprised of two SLAs: Perth(C) Inner and Perth(C) Remainder. Perth(C) Inner boundaries have not changed. Perth(C) Remainder comprises the

majority of Perth(C) Outer. The new Town of Vincent comprises the major part of Perth(C) North and a small part of Perth(C) Outer. The new Town of Cambridge comprises the remainder of Perth(C) North as well as all of Perth(C) Wembley-Coastal. For maps showing the new SLA boundaries, please contact the relevant councils.

Unpublished data and related publications

- 32. The ABS also makes 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.
- 33. Users may also wish to refer to the following related publications which are available on request:

WESTERN AUSTRALIA	Catalogue No.			
Building Approvals - Private Sector, Perth Statistical Division (monthly)	8732.5			
Building Activity (quarterly)	8752.5			
Dwelling Unit Commencements (monthly)	8741.5			
AUSTRALIA				
Building Approvals (monthly)	8731.0			
Building Activity (quarterly)	8752.0			
Engineering Construction Survey (quarterly	y) 8762.0			
Housing Finance for Owner Occupation: Australia	5609.0			

34. All publications produced by the ABS are listed in *Catalogue of Publications and Products* (1101.0) which is available from any ABS Office.

Symbols and other usages

- 35. The following symbols, where shown in columns of figures or elsewhere in tables, mean:
 - nil, or rounded to zero
 r figure or series revised since previous issue.
- 36. Where figures have been rounded, discrepancies may occur between sums of the component items and totals.

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