





CATALOGUE NO. 8752.5 EMBARGOED UNTIL 11.00 A.M. 10 JANUARY 1994

BUILDING ACTIVITY, WESTERN AUSTRALIA SEPTEMBER QUARTER 1993

SUMMARY OF FINDINGS

Value of building work done at average 1989-90 prices, seasonally adjusted

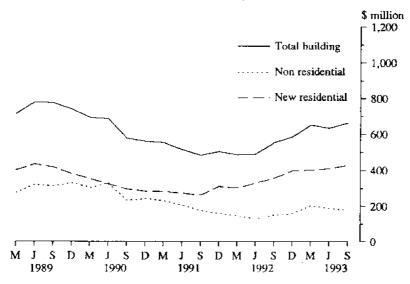
 The table below summarises the changes in the value of building work done (seasonally adjusted, at average 1989–90 prices) by comparing the levels for the September quarter 1993 with those for the previous quarter and for the same quarter last year.

VALUE OF BUILDING WORK DONE

•	Percentag	e change on
	June quarter 1993	Sept. quarter 1992
New residential building Alterations and additions	4.9	20.8
to residential buildings Non-residential building	4.9 -4 .9	14.9 18.4
Total building	4.4	20.0

- Expressed in seasonally adjusted, average 1989–90 prices the total value of building work done for the September quarter 1993 was \$663.4 million which was 4.4% higher than the June quarter figure and the highest level since the June quarter 1990 (\$687.1 million). The \$430.5 million recorded for new residential building work done was 4.9% higher than the previous quarter's figure, the highest level since the June quarter 1989 and the 6th consecutive rise in this statistical series.
- The value of non-residential building work done fell by 4.9% to \$178.9 million. This was still 18.4% higher than the figure for the September quarter 1992. The value of work done on alterations and additions to residential buildings rose by 4.9% to \$43.1 million. This was the fifth consecutive rise and the highest level reached since the statistical series began with the September quarter 1980.

VALUE OF WORK DONE AT AVERAGE 1989-90 PRICES SEASONALLY ADJUSTED



INQUIRIES

- for more information about statistics in this publication and the availability of related unpublished statistics, contact Colin Speechley on Adelaide (08) 237 7670 or any ABS State Office.
- for information about other ABS statistics and services please refer to the back of this publication.

SUMMARY OF FINDINGS - continued

Value of building work commenced at average 1989-90 prices

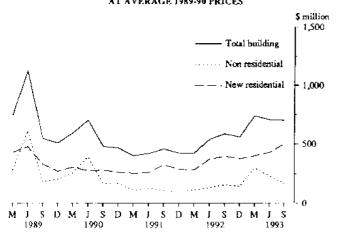
 The table below summarises the changes in the value of building work commenced (unadjusted, at average 1989–90 prices) by comparing the levels for the September quarter 1993 with those for the previous quarter and for the same quarter last year.

VALUE OF BUILDING WORK COMMENCED

	Percentage	e change on
	June quarter 1993	Sept. quarter 1992
New residential building Alterations and additions	15.9	25.7
to residential buildings	-17.1	-2.5
Non-residential building	-28.5	7.5
Total building	-0.7	19.2

- Expressed in average 1989–90 prices but not seasonally adjusted, the total value of building work commenced during the September quarter 1993 was \$699.7 million which was not significantly different from the June quarter figure of \$704.8 million. It was however 19.2% higher than the September quarter figure for the previous year.
- The steady figure for total commencements resulted from a \$66.2 million drop in the value of non-residential commencements together with a fall in commencements of residential alterations and additions just outweighing a 15.9% rise in the value of new residential commencements. The September quarter 1993 figure of \$498.6 million for the value of new residential commencements was the highest since the statistical series began with the September quarter 1969.

VALUE OF BUILDING WORK COMMENCED AT AVERAGE 1989-90 PRICES



Number of dwelling units commenced, seasonally adjusted

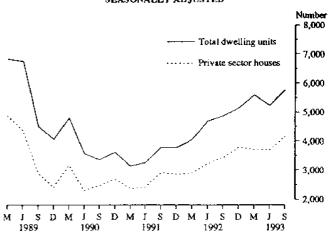
 The table below summarises the changes in the numbers of dwelling units commenced (seasonally adjusted) by comparing the numbers for the September quarter 1993 with those for the previous quarter and for the same quarter last year.

NUMBER OF DWELLING UNITS COMMENCED

	Percentag	e change on
	June quarter 1993	Sept. quarter 1992
Private sector houses	12.1	21.1
Total dwelling units	9.9	18.3

- In seasonally adjusted terms the estimate of the total number of dwelling units commenced during the September quarter 1993 was 5,756 which was 9.9% higher than the June quarter figure and the highest level since the June quarter 1989.
- At 4,150 the estimate of private sector houses commenced was 12.1% higher than the figure recorded for the June quarter 1993 and the highest level since the June quarter 1989 figure of 4,363.

NEW DWELLING UNITS COMMENCED SEASONALLY ADJUSTED



Original unadjusted data

- The total value of building work commenced (unadjusted, at current prices) during the September quarter 1993 was \$666.2 million. Of this, \$464.6 million was for new residential building resulting in 6,189 dwelling units.
- The total value of work done during the September quarter was \$670.7 million and the value of work yet to be done on jobs under construction at the end of the quarter was \$697.9 million.

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		. ~	New residential building	building						1	1000	TO THE TOTAL	F. (**)						
			Other residential	ntial								Non-year	Control of the Contro						
	Houses		buildings	5	Total		•			İ		non-restor	שומו סומום	20					
Pensd	Number of dwelling unis	Value (Sm)	Number of dwelling units	Value (Sm)	Number of dwelling units	Value (\$m)	Alterations and additions to residential buildings	Hovels eve.	Shops 1	Factories	Offices	Other business premises	Educa- nonal	Reli- gious	to Health	Enter- tainment and recrea- tional	Miscel- laneous	Total	Total building
ļ							ď	COMMENCED	g										-
1940.91	10.319	784.2	3.059	206.3	13 378	\$ 000	131.9	22.0	77.4	376	2003	9		Ş			,		
76-166	12,279	914.1	4,04	233.3	16,323	1.147.4	118.6	11.3	. 66	19.7	7.6C 4.8.4	53.9	88.3 107.6	0,7	227.7	5. E	62.9	574.9	1,697.2
1992-93 r	15,011	1,134.3	5,778	341.6	20,789	1,475.9	1429	12.8	212.8	43.7	117.8	69.0	134.7	10.0	33.1	70.3	87.9	842.1 842.1	2,460.9
1992 June ga	3,477	260.2	1,386	79.4	4.863	339.6	29.1	2.0	31.5	6	7.74	143	376	6	9	7	ć		, co
Sept. q.r	3,677	276.2	1,555	86.5	5,232	362.6	32.4	4 4	28.1	97	31.2	1 00	31.5	s oed vivo	7.9	. 6	0.0 8 0 1	157.7	300.0 553.8
Dec. qtr	3,704	266.9	1,324	76.6	5,028	343.5	36.5	3.8	13.7	11.2	42.1	15.1	18.9	0.5	0.1	15.8	22.2	4.5	524.3
1993 Man, cu	3,651	279.1	1,458	92.3	5,109	371.4	35.1	2.0	101,4	14.0	18.2	18.9	52.3	8.0	45.4	20.5	101	303 \$	7100
Junequr	3,978	312.1	1,44	86.3	5,419	398.4	38.8	2.7	69.7	10.9	26.2	23.3	32.3	1.9	28.9	24.8	15.8	236.6	673.8
अन्तर. वृष	4,506	358.0	1,683	106.7	6,189	464.6	32.4	4.8	33.5	9.3	14.7	17.1	22.8	1.6	7:62	13.2	22.5	1.691	666.2
						<u>a</u> S	UNDER CONSTRUCTION AT END OF PERIOD	CITON A	T END OF	PERIOD									
160661	4,115	372.1	1,881	144.1	5,996	5162	66.5	26.3	82.7	13.3	733.0	9.69	79.9	3.7	42.4	24.9	98.5	1.174.3	1 757 0
:99:92	4,795	405.1	2,539	185.4	7,334	590.5	50.5	13.2	44.2	13.3	231.2	39.7	98,4	4.	7,	23.7	97.1	599.6	1.240.6
1992-93 r	5,395	484.7	2,831	183.7	8,226	668.4	59,4	6.4	178.3	16.9	39.7	32.9	107.8	3.3	81.3	57.1	51.0	574.6	1,302.4
1992 June qu	4,795	405.1	2,539	185.4	7,334	590.5	50.5	13.2	4	13.3	231.2	39.7	4.80	4.2	25	23.7	07.1	5005	1 240 K
Sept. qu	5,516	480.2	3,065	219.8	8,581	6.669	52.5	13.3	55.7	15.5	242.2	36.8	102.2	10.2	37.1	25.4	5 6	630.0	1 382 4
Дес. qш	5,197	437.6	2,922	215.2	8,119	652.8	54.6	6.1	31.8	21.2	250.5	33.3	81.1	7.6	26.3	35.6	47.6	X 1.0	1,248.3
1993 Mar. qu	5,630	489.2	3,166	239.9	8,796	729.1	58.3	4.7	124.9	23.4	49.2	23.6	800	1 5	1 129	47.3	9 19	40K K	0.690
June qur r	5,395	484.7	2,831	183.7	8,226	668.4	59.4	4.9	178.3	16.9	39.7	32.9	107.8	3.3	81.3	57.1	51.0	574.6	1,302.4
Sept. qt	6,307	571.6	2,966	200.8	9,273	772.5	54.2	8.7	187.8	13.3	30.9	36.4	117.1	0.4	108.2	55.5	45.6	4.109	1,434.1
							U	COMPLETED	О										
16:0661	11,385	904.3	3,959	240.6	15,344	1,144.9	143.5	13.8	6'86	59.3	203.1	112.5	117.5	9.6	24.7	48.5	77.5	761.4	2,049.8
1991.92	11,539	892.7	3,377	195.5	14,916	1,088.2	139.6	21.6	91.5	1.9.1	611.6	1.76	91.6	7.1	49.1	35.4	56.4	1.081.0	2,308.9
102-7661	14,306	1,004.0	3,436	7 4 5.5	19,80	27.04,1	137.0	18.0	11.7	42.3	313.2	76.0	130.5	12.3	37.9	40.1	134.0	882.0	2,426.5
1992 June qu	2,933	219.2	916	54.0	3,849	273.2	32.4	1.0	7.9	2.4	103.7	28.6	5.9	1.4	8.6	56	17.6	179.6	485.2
Sept qu	2,942	202.6	1,015	53.8	3,957	256.4	31.7	2.7	15.8	5,4	18.7	14.8	26.1	6.0	5.1	7.5	24.6	121.6	8.607
nec. qr	4,01;	311.9	1,467	83.7	5,478	395.6	34.9	10.6	37.0	7.1	%	18.5	41.3	3.0	12.1	6.2	0.99	236.4	0.759
1993 Mar. qu	3,208	228.2	1,205	67.7	4,413	295.9	30.9	3.6	8.6	12.3	223.9	28.8	48.4	2.0	5.0	9.0	16.2	357.8	684.6
Junequr	4,206	321.2	1,749	138.4	5,955	459.6	39.4	1.1	16.3	17.6	36.0	13.9	14.6	6.4	15.7	17.4	27.2	166.1	665.1
ਮੁਲਾ ਰਾਜ	3,569	276.8	1,546	92.2	5,115	369.1	37.8	2.5	25.6	13.0	23.4	13.9	14.5	1.0	3.1	15.0	25.1	136.9	543.9

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	;	7	New residential building	l bailding								Val	Value (5m)		ļ			:	
	Houses	19	Other residential buildings	ential	Total		,					Non-resid	Non-residential building	Sug				į	
Period	Number of dwelling muits	Value (\$m)	Number of dwelling units	Value (\$m)	Number of dwelling units	Value (\$m)	Alterations and additions to residential buildings	Hotels etc.	Shops	Shops Factories	Offices	Other business premises	Educa- nonal	Reli-	K Health	Enter- tairment and recrea- tional	Miscel-	Total	Total
					į	 	VALUE OF WORK DONE DURING PERIOD	AK DONE	DURING	PERIOD									
1990-91	:	857.4	:	212.3	:	1,069.7	147.5	19.1	93.8	45.5	420.6	97.4	1160	63	46.7	9.00	0.55	0.46.7	0.071.0
1991-92	:	871.8	:	227.5	:	1,099.4	127.1	15.3	65.0	17.6	210.9	63.6	101.7	7.3	908	30.8	100.5	200	7.850.4
1992.93 r	:	1,102.1	:	346.1	:	1,448.2	140.8	15.3	103.0	46.7	125.7	69.2	133.9	12.2	72.4	59.3	84.2	721.8	2,310.8
1992 June qu	;	229.9	:	68.9	:	208.8	30.0	4.2	19.9	4	366	121	23.3	4	9 01	•	ŗ	4 70	,
Sept. qu	:	263.5	:	85.8	:	349.3	31.1	5,6	28.6	00	8.04	17.0	33.6	9.5	11.3	2 o C	177	174.5	5.104
Dec. qtr	:	281.3	;	91.1	:	372.4	36.8	4,4	22.9	11.6	32.9	18.9	40.4	33		9.6	22.2	174.2	583.4
1993 Mar. qu	:	265.0	;	83.9	:	348.9	32.9	2.9	17.4	13.1	23.3	173	140	£.	33	7.1	6		6 222
June qtr r	:	292.3	:	85.2	:	377.6	40.0	2.2	¥.	13.2	28.6	16.0	3,18	; ;	2 2	616	181	100	200.7
Sept. qtr		326.0	;	103.9	:	429.8	36.7	2.8	\$4.0	7.6	24.3	20.7	30.6	0.1	21.1	18.5	21.2	26.5	670.7
		:					VALUE OF WORK YET TO BE DONE	ORK YET	TO BED	ONE									
16-0661	:	160.0	:	84.2	Ξ	244.2	22.6	10.5	36.9	6.3	126.0	14.7	39.2	2.3	6.6	8.9	58.6	313.2	580.0
1991-92	:	214.7	;	94.0	:	308.7	19.1	6.7	22.2	7.8	24.8	19.0	47.6	5.6	20.6	12.2	16.7	183.3	5112
1992-93 r	:	256.9	;	90.7	;	347.7	25.0	2.7	134.2	7.0	21.6	19.0	53.6	1.9	32.7	26.4	20.7	319.9	692.6
1992 June qu	:	214.7	:	94.0	;	308.7	19.1	6.7	25.2	6	24.8	19.0	47.6	36	30.6	13.0	1,41	163	615
Sept. qu	;	229.3	:	96.4	:	325.6	21.8	3.9	23.9	9.9	14.6	13.9	43.9	i vo	17.0	7 0	21.5	160.0	7.115
Dec. qtr	;	217.4	:	84.4	:	301.8	21.9	2.8	14.2	7.9	24.5	10.0	23.7	3.7	10.2	17.3	21.4	135.7	459.4
1993 Mar. qu	:	232.3	:	93.1	:	325.4	24.5	2.2	9.86	6.9	23.8	-	53.1	-	203	20.4	23.3	3,77	2777
June qtr r	÷	256.9	;	90.7	:	347.7	25.0	2.7	134.2	7.0	21.6	19.0	53.6	2	32.7	26.4	5	100	7 69
Sept. qt	:	295.0	:	96.3	:	391.3	21.1	4.7	115.2	9'9	12.0	15.6	46.8	2.5	41.5	21.3	19.2	285.5	6769
NOTE: The number of self-contained dwelling units commenced 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 56 such dwelling units commenced in the September quarter 1993.	alf-contained dwell tits commenced in	ling units of the Septen	nommenced as aber quarter 15	part of the (construction c	f non-resi	fertial buildin	g and altern	stions and	additions to	existing bu	ildings (inc.	uding conv	ersions to	dwelling 1	units) are e	acluded fre	m this tabk	. There
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ABLE 2. SUMMARY OF PRIVATE SECTOR BUILDING ACTIVITY, W	ESTERN AUSTRALIA
	IMARY OF PRIVATE SECTOR BUILDING AC

Figure Property			~	New residential building	d building				Value (5m)				Valu	Value (Sm)						
Mathein of State Mathein of		House	5	Other residing	lential 85	Tota	-						Non-reside	nital build	žng					
\$\text{A}{\text{D}} \text{ \$\text{D}{\text{D}} \text{ \$\text{D}{\text{D}}} \text{ \$\text{D}{\text{D}} \text{ \$\text{D}} \text{ \$\text{D}{\text{D}} \t	Period	Number of dwelling units	Value (Sm)	Number of dwelling units	Value (\$m)	Number of dwelling units	İ	Alterations and additions to residential buildings	Hotels	Shops	Factories		Other business premises	Educa- tional	Reli: gious	_	Enter- airment and recrea-	Miscel- laneous	Total	Total building
1,921 70,1				i	i				COMMENC	自										
14 15 18 18 2 2 2 2 2 2 2 2 2	1990-91	11.6'6	761.7	2,453	1727	12,424	934.5	130.9	23.8	75.9	36.5	193.9	41.6	3 00	0.0	3.7.	200	2 4 4		1
14615 1,1032 3,955 221.1 18,570 1,384 1951 12.6 211.3 39.0 49.6 56.1 30.0 10.0 63.0 25.3 43.9 40.0	1991-92	11,921	889.9	2,657	153.7	14.578	1,043.6	117.9	1:1	98	19.	43.6	500	7 5	7.7	4 -	13.7	177	390.3	1,455.7
1,345 253 666 41,3 4,081 2843 2870 28.2 28.3 9.3 17.1 13.7 7.1 2.8 14.5 2.9 0.8 106.5 3,523 28.2 28.3 3.4 4,616 318.7 2.2 2.7 3.5 3.3 1.1 3.5 3.5 7.5 4.6 106.5 4,525 28.2 28.3 4,616 318.7 3.2 3.2 3.3 3.3 1.2 3.5 3.5 4.6 1.6 1.6 4,525 3,843 1,224 4,655 3.7 3.1 3.3 2.6 10.1 1.2 1.7 1.3 4.6 3.1 3.3 3.2 4.6 3.2 3.3 3.2 4,525 3,843 1,224 1,224 1,224 1,224 1.2 1.2 4.5 1.3 1.2 4.6 1.2 1.2 4.6 1.2 1.2 4.6 1.2 1.2 4.6 4.6	1992-93 r	14,615	1,103.2	3,955	231.1	18,570	1,334.3	139.1	12.6	211.3	39.0	49.6	56.1	30.0	10.0	63.0	25.5	43.9	540.9	2,014,4
1, 10, 10, 10, 10, 10, 10, 10, 10, 10,	1992 June qtr	3.385	253.1	969	413	4.081	200	Š	5	Š	ć	:		i		Í				
1,000 1,00	Sept. qtr	3.628	772.1	8 80	540	7.001	23.5	23.0	, ,	6 5	2	F./:	13.		% %	2	29	8.0	100.6	423.9
1,479 2882 910 534 4389 2316 313 20 1014 101 89 126 67 08 449 73 53 2000 4,395 3843 1,226 786 5,621 3107 313 26 101 121 173 6.3 19 96 30 89 141.2 4,395 3842 1,226 786 5,621 313 313 313 313 313 313 313 313 313 313 313 4,017 3656 1,721 3134 4944 655 653 81 42 133 42 43 43 42 133 43 44 42 133 43 43 43 44 43 43 4	Dec. qu	3,628	258.7	973	56.3	4,60	315.0	35.7	1. e. 3. ec	13.7	11.2	15.6	11.6	7.3 9.8	6.8	1.0	4.6 10.6	16.4	106.3	465.6 444.2
1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1, 1,	1993 Mar. qtr	3,479	2882	0.19	234	4 180	3105	e e	ć	3		4	;	1			<u>:</u>			!
4.595 548.1 1.204 76.5 54.21 47.04 21.3 4.5 54.5 10.1 11.1 11.1 4.5 54.5 11.5 11.5 12.5	June off r	3.870	304.2	1084	7	6907	0.120	53.5	77	101.4	10.1	χ, (c)	12.6	6.7	8.0	4	7.3	5,3	200.0	554.9
4017 365.6 1,721 133.8 5,738 4994 65.5 76.3 816 13.3 19.2 35.1 11.8 1.7 2.2 12.3 18.9 683. 17.5 12.0 13.9 19.2 17.5 12.0 13.8 5,738 4994 6.56.5 76.3 81.6 13.3 19.2 35.1 11.8 1.7 2.2 12.3 18.9 683. 17.5 12.0 13.9 19.2 17.5 12.0 13.0 13.0 13.0 13.0 13.0 13.0 13.0 13	Sept. qu	4,395	348.3	1,226	78.6	5,621	370.7 427.0	323	2, 4 6 %	30.3	10.1	12.1		6.3	1.9	9.6	3.0	6.8	141.2	549.7
4,017 585.6 1,72 133.8 5,738 499.4 665 263 81.6 133 133 192 113 192 113 192 113 192 113 192 113 192 113 192 113 192 113 192 113 192 113 192 113 193 113 113 193 113											0.1	15.4	14.0	0.0	9.1	18.9	3.3	19.5	123.9	583.1
4.007 3656 1,121 1338 5738 4994 665 263 816 133 5024 118 37 222 123 123 8.9 6888 1 8 1 8 1264 6,260 5942 504 132 443 118 3 192 351 148 42 163 49 142 1775 124 148 41 1264 6,260 5942 504 132 443 133 192 351 148 42 163 149 142 1775 124 149 149 149 149 149 149 149 149 149 14							IN IN	ER CONSTR	UCTION A	AT END OF	PERIOD				'					
4.706 397.8 1554 1264 6200 524.2 504 132 423 133 192 351 148 42 163 49 142 1773 1775 1775 1775 1775 1775 1775 1775	1990-91	4,017	365.6	1,721	133.8	5,738	499.4	66.5	26.3	81.6	13.3	502.4	16.3	11.8	3.7	22.2	123	8	8 8 8	1 264.7
1,298 476.9 1,929 1,524 1,52	76-1661	4,706	397.8	1,554	126.4	6,260	524.2	50.4	13.2	42.3	13.3	19.2	35.1	14.8	4.2	16.3	4.9	14.2	\$ 12.1	1631
4.706 397.8 1,554 1,254 1,254 6,260 524.2 50.4 13.2 423 13.3 19.2 55.1 14.8 4.2 16.3 4.9 14.2 1775 5,458 474.9 1,825 143.4 7,224 6,20.2 52.5 13.3 55.1 15.3 15.2 15.9 10.2 21.5 6.0 19.0 26.9 5,144 431.5 1,910 150.2 7,034 581.7 540 6.0 31.4 21.2 15.1 32.2 15.8 7.6 18.9 12.2 27.9 1883 7.545 475.9 1,252 12.0 160.1 7,475 636.1 56.7 4.7 124.9 19.5 17.0 16.3 12.8 6.6 59.3 16.3 22.2 50.5 6,196 561.6 2,048 138.6 8,244 700.3 54.1 87 185.9 12.7 21.0 13.0 33 62.1 16.7 22.0 38.9 1 10,092 87.2 2,949 183.1 3878 1,057.7 14.2 13.5 17.5 17.2 17.5 17.8 4.0 78.1 9.8 77.0 388.9 1 2.852 2,852 2,854 13.8 1,057.7 14.2 13.0 15.0 15.0 15.0 11.3 17.5 17.5 17.5 17.5 17.5 17.5 17.5 17.5	1885-931	2,298	476.9	1,929	125.1	7,227	601.9	56.9	6.3	177.5	12.2	17.3	21.0	13.0	3.3	62.1	16.7	23.9	353.2	1,012.1
5,458 4749 1,826 1454 7284 6202 52.5 13.3 55.1 15.5 14.3 36.1 19.0 10.0 2 1.6 19.0 20.9 36.9 35.1 15.5 14.3 36.1 15.0 14.0 14.2 17.0 16.3 12.8 16.3 2.0 19.0 20.9 36.9 35.1 15.1 15.2 15.1 15.2 15.2 15.3 15.3 15.3 15.3 15.3 15.3 15.3 15.3	1992 June qtr	4,706	397.8	1,554	126.4	6.260	524.2	50.4	12.7	42.3	13.1	6	. 36		:	,	•	•	1	;
5,455 475,9 2,020 1601 1502 7,054 581.7 54.0 6.0 174.7 13.1 13.1 13.2 14.3 30.2 15.9 10.2 26.9 19.0 206.9 150.1 13.1 13.1 13.1 13.1 13.1 13.1 13.1 1	Sept. qtr	5,458	474.9	1.826	145.4	7 284	6009	¥ 6.3	133	1 44	9 9 7	7 6	7.5	9.	7 6	19.3	4.9	14.7	177.5	752.1
Fig. 475.9 (1) 20.0 (160.1) 7475 (436.1) 56.7 4.7 (124.9) 19.5 (17.0 (16.3) 12.8 (6.6 59.3) 16.3 23.2 (20.0 (160.1) 7475 (436.1) 56.7 4.7 (124.9) 19.5 (17.3 (17.3) 13.0 (17.3) 19.3 (47.0) 15.1 (17.3 (12.4) 13.0 (17.3) 19.3 (47.0) 19.3	Dec. qtr	5,144	431.5	1,910	150.2	7,054	581.7	\$40	6.0	31.4	21.2	15.1	32.2	15.8	10.2	21.5	12.5	19.0 27.0	206.9	879.7
T 5,495 475.9 1,920 160.1 7,475 646.1 56.7 4.7 124.9 19.5 17.0 16.3 12.8 6.6 59.3 16.3 23.2 300.5 30.5 5.99 125.1 7,227 601.9 56.9 6.3 177.5 12.2 17.3 21.0 13.0 3.3 62.1 16.7 23.9 33.2 1 1 6,196 561.6 2,048 138.6 8,244 700.3 54.1 8.7 185.9 12.7 17.8 17.8 4.0 78.1 9.8 27.0 388.9 1 10,929 872.5 2,949 185.1 13,878 1,035.6 139.0 21.4 89.8 19.0 567.9 31.5 27.5 7.1 27.5 17.7 20.1 829.7 2 11,172 869.2 2,815 1644 13,987 1,035.6 139.0 21.4 89.8 19.0 567.9 31.5 27.5 7.1 27.5 17.7 20.1 829.7 2 2,852 213.7 700 42.4 3,552 256.0 32.4 1.0 7.5 24 92.6 70.7 34.0 12.3 17.5 16.1 34.2 37.5 1 2,852 13.4 79 42.4 3,552 256.0 32.4 1.0 7.5 16.5 10.8 6.2 0.9 2.3 3.5 11.6 73.7 1 2,852 13.5 24.4 79! 43.7 3,949 288.1 30.1 3.6 82 12.3 17.6 12.0 18.0 10.1 30 3.6 50.9 44.0 86.0 44.0 86.0 2.8 1 3,118 224.4 79! 43.7 3,949 288.1 30.1 3.6 82 12.3 17.6 12.0 13.1 80 64 71 40 86.0 94.0 84.0 84.0 84.0 84.0 87.5 11.0 7 67.0 45.5 39.3 11.1 16.3 17.6 12.0 13.1 80 64 71 40 86.0 94.0 94.0 94.0 94.0 94.0 94.0 94.0 94	31 6001	1	į											?	2	2			0.801	6.5.20
1,375 4,624 1,251 1,227 601; 9 56.9 6.3 177.5 12.2 17.3 21.0 13.0 3.3 62.1 16.7 23.9 333.2 1	1993 Mar. qu Ivan ata	5,455	475.9	2,020	160.1	7,475	636.1	56.7	4.7	124.9	19.5	17.0	16.3	12.8	9.9	59.3	16.3	23.2	300.5	993.2
COMPLETED 10,929 8725 2,949 185.1 13.878 1,057.7 142.3 13.5 97.1 59.3 175.7 101.4 31.3 5.6 17.1 244 16.7 542.1 11.172 869.2 2.815 164.4 13.987 1,057.7 142.3 13.5 18.0 75.1 42.3 54.9 175.7 101.4 31.3 5.6 17.1 244 16.7 24.1 16.2 17.5 19.0 17.1 17.1 17.1 17.0 42.4 13.87 1,057.7 142.3 13.5 18.0 75.1 42.3 54.9 70.7 34.0 12.3 17.5 16.1 34.2 375.1 12.882 213.7 700 42.4 3552 213.7 700 42.4 3552 213.7 700 42.4 3552 23.3 17.5 18.0 75.1 42.3 54.9 70.7 34.0 12.3 17.5 16.1 34.2 375.1 13.5 3.8 3.9 34.0 12.3 17.5 10.1 3.0 3.6 3.0 3.2 17.5 10.1 3.0 3.6 3.0 3.0 10.1 3.0 3.6 3.0 3.0 4.0 3.0 3.0 1.15.7 97.6 5.186 405.5 39.3 11.1 16.3 17.6 12.0 13.1 13.1 10.2 14.1 10	Tapacada 3	3,478	4/6.9	626'1	<u> </u>	7.227	6.109	56.9	6.3	177.5	12.2	17.3	21.0	13.0	33	62.1	16.7	23.9	353.2	1.012.1
10,929 872.5 2,949 185.1 13,878 1,037.7 142.3	ુન્યું. તેવ	961,96	301.0	2,048	9.8E1	8,244	700.3	54.1	8.7	185.9	12.7	21.2	23.7	17.8	4.0	78.1	8.6	27.0	388.9	1,143.3
10,929 872.5 2949 185.1 13,878 1,057.7 142.3 13.5 97.1 59.3 175.7 101.4 31.3 5.6 17.1 24.4 16.7 542.1 11,172 869.2 2,815 164.4 13,987 1,033.6 139.0 21.4 89.8 19.0 567.9 31.5 27.5 7.1 27.5 17.7 20.1 829.7 11,172 869.2 2,815 164.4 13,987 1,033.6 136.0 21.4 89.8 19.0 567.9 31.5 27.5 7.1 27.5 17.7 20.1 829.7 135.7 18.0 75.1 42.3 54.9 70.7 34.0 12.3 17.7 10.1 27.5 17.7 14.2 37.5 14.2 18.0 70.7 34.0 12.3 17.5 16.3 40.3 17.5 11.3 27.5 11.3 27.7 18.0 10.3 10.3 10.3 10.3 10.3 10.3 10.3	***	:						J	OMPLETE	an G										
11,172 869.2 2,815 164.4 13,987 1,033.6 139.0 214. 89.8 19.0 567.9 31.5 27.5 7.1 27.5 17.7 20.1 829.7 13,980 1,033.4 3,539 232.3 17,519 1,265.7 135.7 18.0 75.1 42.3 54.9 70.7 34.0 12.3 17.7 20.1 829.7 375.1 13.9 1.6 6.2 12.8 1.0 1.0 1.9 1.4 8.3 1.6 6.2 129.8 2,862 196.5 702 37.3 3,564 233.9 31.6 2.7 13.9 5.4 16.5 10.8 6.2 0.9 2.3 3.5 11.6 73.7 3,930 304.6 889 53.7 4,819 358.3 34.7 10.6 36.7 7.1 15.0 18.0 10.1 3.0 3.6 5.0 4.6 3.6 9.9 94.0 4,029 307.9 1,157 97.6 5,186 405.5 39.3 11.1 16.3 17.6 12.0 13.1 8.0 6.4 77.1 4,0 8.6 94.0 94.0 3,47 269.3 1,107 67.0 4,579 336.3 35.2 2.3 25.5 8.3 9.5 12.3 2.0 1.0 3.1 10.2 16.4 90.6	1990-91	10,929	872.5	2,949	185.1	13,878	1,057.7	142.3	13.5	97.1	59.3	175.7	101.4	31.3	8,8	17.1	24.4	14.7	1 073	1 440 1
13.980 1,033.4 3539 232.3 17,519 1,265.7 135.7 18.0 75.1 42.3 54.9 70.7 34.0 12.3 17.5 16.1 34.2 375.1 2,852 213.7 700 42.4 3,552 256.0 32.4 1.0 7.5 2.4 92.6 7.0 1.9 1.4 8.3 1.6 6.2 129.8 2,862 196.5 702 37.3 3,564 233.9 31.6 2.7 13.9 5.4 16.5 10.8 6.2 0.9 2.3 3.5 11.6 73.7 3,930 304.6 889 53.7 4,819 358.3 34.7 10.6 36.7 7.1 15.0 18.0 10.1 3.0 3.6 5.0 4.1 113.3 24.0 24.0 2.0 3.7 2.0 4.6 3.6 9.9 94.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2.0 2	1991-92	11,172	869.2	2,815	164,4	13,987	1,033.6	139.0	21.4	8.68	19.0	567.9	31.5	27.5	7.1	27.5	17.7	20.7	820.7	2,000
2,852 213.7 700 42.4 3,552 256.0 32.4 1.0 7.5 2.4 92.6 7.0 1.9 1.4 8.3 1.6 6.2 129.8 2,862 196.5 702 37.3 3,564 233.9 31.6 2.7 13.9 5.4 16.5 10.8 6.2 0.9 2.3 3.5 11.6 73.7 3,930 304.6 889 53.7 4,819 358.3 34.7 10.6 36.7 7.1 15.0 18.0 10.1 3.0 3.6 5.0 4.1 113.3 3,158 224.4 791 43.7 3,949 268.1 30.1 3.6 8.2 12.3 11.3 28.7 9.7 2.0 4.6 3.6 9.9 94.0 4,029 30.79 1,157 97.6 5,186 405.5 3.5 2.3 25.5 8.3 9.5 12.3 2.0 1.0 3.1 10.2 16.4 90.6	1992-93 r	13,980	1,033.4	3,539	232,3	17,519	1,265.7	135.7	18.0	75.1	42.3	54.9	70.7	8. 0.4.	12.3	17.5	16.1	34.2	375.1	1.776.5
2,862 196.5 702 37.3 3,564 233.9 31.6 2.7 13.9 5.4 16.5 10.8 6.2 0.9 2.3 3.5 11.6 73.7 3,930 304.6 889 53.7 4,819 358.3 34.7 10.6 36.7 7.1 15.0 18.0 10.1 3.0 3.6 5.0 4.1 113.3 31.5 224.4 791 43.7 3,949 268.1 30.1 3.6 8.2 12.3 11.3 28.7 9.7 2.0 4.6 3.6 9.9 94.0 4,029 307.9 1,157 97.6 5,186 405.5 39.3 1.1 16.3 17.6 12.0 13.1 8.0 6.4 7.1 4.0 8.6 94.0 3.472 269.3 1,107 67.0 4,579 336.3 35.2 2.3 25.5 8.3 9.5 12.3 2.0 1.0 3.1 10.2 16.4 90.6	1992 June qu	2.852	213.7	700	424	3 652	256.0	F C C	-		č	Š	c	•	,	ļ	,			
3,930 304.6 889 53.7 4,819 358.3 34.7 10.6 36.7 7.1 15.0 18.0 10.1 3.0 2.5 5.3 11.6 73.7 113.3 113.8 224.4 791 43.7 3,949 268.1 30.1 3.6 8.2 12.3 11.3 28.7 9.7 2.0 4.6 3.6 9.9 94.0 4,029 307.9 1,157 97.6 5,186 405.5 39.3 1.1 16.3 17.6 12.0 13.1 8.0 6.4 7.1 4.0 8.6 94.0 3.472 269.3 1,107 67.0 4,579 336.3 35.2 2.3 25.5 8.3 9.5 12.3 2.0 1.0 3.1 10.2 16.4 90.6	Sept. qt.	2,862	196.5	702	37.3	3,564	233.9	316	2.6	1 2	, r	16.5	0.0	Y: '	d. 0	, e	¢ ;	6.2	129.8	418.2
3.158 2244 791 43.7 3,949 268.1 30.1 3.6 8.2 12.3 11.3 28.7 9.7 2.0 4.6 3.6 9.9 94.0 4,029 307.9 1,157 97.6 5,186 405.5 39.3 1.1 16.3 17.6 12.0 13.1 8.0 6.4 7.1 4.0 8.6 94.0 3.472 269.3 1,107 67.0 4,579 336.3 35.2 2.3 25.5 8.3 9.5 12.3 2.0 1.0 3.1 10.2 16.4 90.6	Dec. qu	3,930	304.6	688	53.7	4,819	358.3	34.7	10.6	36.7	1.7	15.0	18.0	10.1	V. V.	2.5	ر د د	9.1.	13.7	339.2
5,138 2244 791 43.7 3,949 268.1 30.1 3.6 8.2 12.3 11.3 28.7 9.7 2.0 4.6 3.6 9.9 94.0 4,029 307.9 1,157 97.6 5,186 405.5 39.3 1.1 16.3 17.6 12.0 13.1 8.0 6.4 7.1 4.0 8.6 94.0 3,472 269.3 1,107 67.0 4,579 336.3 35.2 2.3 25.5 8.3 9.5 12.3 2.0 1.0 3.1 10.2 16.4 90.6				į	!				!		:	2	2.51		0	0.0	3.0	-Ţ	113.3	506.3
3,472 269.3 1,107 67.0 4,579 336.3 35.2 2.3 25.5 8.3 9.5 12.3 2.0 1.0 3.1 10.2 16.4 90.6	1993 Mar. qur line ater	3,158	202	161	43.7	3,949	268.1	30.1	3.6	8.2	12.3	11.3	28.7	6.7	2.0	4.6	3.6	6.6	94.0	392.2
25.2 25.3 8.3 9.5 12.3 2.0 1.0 3.1 10.2 16.4 90.6	Sent. off	477	260.3	701.1	0.7%	3,135	605.5	39.3	T :	16.3	17.6	12.0	13.1	0.0 0.0	6.4	7.1	4.0	8.6	94.0	538.8
	1 F	1 1	77/02	10111	0.10	6104	4.00c	23.7	6.3	c.03	8.3	c.	12.3	2.0	1.0	3.1	10.2	16.4	90.6	462.1

	!	\	New residential building	l building						,		Valu	Value (Sm)						
	Houses		Other residential buildings	lentiał ps	Total							Non-reside	Non-residential building	8 U					
Period	Number of dwelling units	Value (Sm)	Number of dwelling units	Value (Sm)	Number of dwelling units	Value (\$m)	Alterations and additions to residential buildings	Hotels etc.	Shape	Shops Factories	Offices	Other business premises	Educa- tional	Reli- gious	is Health	Enter- tairment and recrea-	Miscel- laneous	Total	Total building
						*	VALUE OF WORK DONE DURING PERIOD	RK DONE	DURING	PERIOD									
16-0661	:	829.9	:	169.0	:	998.9	146.5	18.9	93.1	45.5	205.8	1 3.5	30.5	63	10.7	100	5	į	1
1991-92		849.7	:	178.1	:	1,027.9	126.4	15.1	83	17.6	130.1	40.2	30.4	4 6	180	10.2	27.5	350 6	1,740.0
1992-93 r	:	1,070.4	:	232.4	:	1,302.8	137.9	15.1	100.7	42.6	56.7	62.3	33.2	12.2	60,3	23.6	40.3	447.0	1,887.8
1992 June qu	i	225.1	:	47.5	;	272.6	29.9	4.2	19.2	4	14.0	13.4	,	.		-	-		ş
Sक्ट. वृष	:	256.8	:	52.2	:	309.0	31,0	5.6	77.1	90	18.2	16.2		200	7	4. A	ñ (, L.S	5.44.5
Dec. gtr		274.7	:	61.7	:	336.4	36.3	4.4	22.4	11.6	14.8	18.6	10.0	3.3	53	5.5	13.6	109.6	482.3
1993 Mar. qu	:	256.4	:	55.5	:	311.8	31.7	2.9	17.3	11	1.	<u>7</u>	ŗ	ŗ	5	ŗ	3 ()	5	
June que	:	282.6	:	63.0	:	345.7	38.9	2.1	33.9	11.2	12.0	12.1	- 04	ie	7 2	2 2	14.	7171	7004
Sept. qtr		317.3	:	74.2	:	391.5	35.6	2.8	53.5	6.8	14.6	17.1	6.2	1 2	12.7	2 2	14.9	136.9	56.2
							VALUE OF WORK YET TO BE DONE	VORK YE	TTOBED	ONE									
1690-61	:	157.2	:	80.3	:	237.5	22.6	10.5	36.1	6.3	57.4	8.0	7.1	2.3	8,6	2.4	5.7	144.4	2 007
991-92	:	209.9	;	29.6	:	2,69.5	19.1	6.7	23.8	7.8	12.0	18.0	7.2	2.6	12.2	. 4		7 70	2000
1992-93 r	1	252.6	;	59.1	:	311.7	24.2	2.7	133.6	6.4	0.6	12.3	6.2	1.9	15.3	6.6	7.2	201.2	537.2
1992 June qt	:	209.9	:	59.6	:	269.5	19.1	6.3	23.8	7.8	12.0	80	,	3.6	, ,	Č	ć	ò	70
Seps. qtr	:	227.1	:	63.7	:	290.8	21.8	3.9	23.4	9.9	1.9	13.7	į	, v	14.1	1 -	ie	t c	202.0
Dec. qtr	:	213.7	:	9'09	:	274.2	21.6	2.8	14.2	7.9	7.1	1.6	6.9	3.7	10.0	7.3	124	81.4	377.2
1993 Mar. qtr	:	226.2	:	59.0	:	285.2	23.5	2.2	98.6	7,4	£.	90	5.5	=	23	2.6	Į	9,4	70.7
June qur	:	252.6	:	59.1	;	311.7	24.2	2.7	133.6	6.4	0.6	12.3	2	-	£	2 4		200	
Service of the		\ C C C				1111								:			•		•

, WESTERN AUSTRALIA	
RY OF PUBLIC SECTOR BUILDING ACTIVITY,	
TABLE 3, SUMMARY O	

			Now residential facilities	I building			ALC CALC	10 TO	ייי פיוומי	111111	M. Carry	THE COLLEGE ACTIVITY, WAS I BAIN AUSTRALIA	KALIA						
		·	The second second	Supplier							ļ	Z A	Value (3m)	i		į			
	Houses		Other residential buildings	tential ts	Total		•					Non-reside	Non-residential building	85				}	
Period	Number of dwelling units	Value (\$m)	Number of dwelling units	Value (Sm)	Number of dwelling units	Value (\$m)	Alterations and additions to residential buildings	Hotels etc.	Shops Factories		Offices	Other business premises	Educa- tional	Reli- grous	sa , Health	Enter- tannent and recrea-	Miscel- laneous	Total	Total building
						!	o l	COMMENCED											
1990-91	348	22.5	909	33.6	954	\$6.1	60	0	٠		3,45	17.9	0 00		د ه	0 0 1	4.1.5	101	3
1991-92	358	24.3	1,387	79.6	1,745	103.9	0.7	07	2.4	Į	7 6 72	10.3	4.6.		. o	3.0.0	7.04	137.1	C.147
1992-93 r	396	31.1	1,823	110.5	2,219	141.6	3.7	0.2	1.5	4.6	68.2	12.8	104.7	!	50.1 20.1	4. 8.	4	301.2	446.5
1992 June qu	92	7.1	9	38.2	782	45.2	10		20		4	ď	300		-	Ċ	,	,	ć
Sept. of	40	4	5.67	3 1.6	919	15.6		l	9 6	į	9	3 3	7 6	I	2;	1	7 7	ó	7.7
Dec qtr	76	8.2	351	20.2	427	28.5	0.8	0.1	3 !	į l	16.3 26.4	1.0	9.2 9.2		5 I	5.2	9,0	51.5 50.9	87.2 80.1
1993 Mar. qtr	172	10.9	548	96 96	720	8,64	1.9	ŀ	I	9.6	9.4	6.3	45.6		0.5		24.8	103 4	155 2
Juncqui	66	7.9	357	19.8	456	27.7	1.0	0.2	0.8	0.7	14.1	5.4	26.0	I	19.3	21.9	7.0	95.4	124.0
Sept. qtr	Ξ	9.6	457	28.0	895	37.7	0.2	1	1.2	9.0	1.3	23	16.1	ŀ	10.8	6.6	3.0	45.2	83.0
						CINI	UNDER CONSTRUCTION AT END OF PERIOD	JCTTON A	T END OF	PERIOD									
1990-91	86	9.9	160	10.2	258	16.8			1:1		230.6	53.2	68.1	1	20.2	12.7	9.68	475.5	492.3
1991-92	68	7.3	985	59.1	1,074	66.4	0.1	ļ	1.8	1	212.0	4.6	83.5	1	18.4	18.8	82.9	422.1	488.5
1992-93 r	64	7.8	902	58.6	666	66.5	2.4	0.2	0.8	4.6	22.4	11.9	94.8		19.2	40.4	27.1	221.4	290.3
1992 June qtr	68	7.3	985	59.1	1,074	66.4	0.1	1			212.0	4	2.5	į	18.4	90	82.0	100	400
Sept. qtr	58	5.3	1,239	74.4	1,297	7.67	l	I	9.0	I	228.0	9.6	86.3	J	15.6	4.91	72.5	423.0	402 %
Dec. qtr	53	6.1	1,012	64.9	1,065	71.1	9.0	0.1	0.4	I	235.4	1	65.3	I	7.3	23.4	19.7	352.8	424,4
1993 Mar. otr	175	<u>.</u>	1146	90	1 231	1.00	71			ć	ç	Ċ	ç		í	;	;	,	
June atr	66) ac	606	986	900	1.07 66.5) T	5	1 2	, ,	7.76	4.4	5.0	F	6.6	31.0	86 5 44 .	196.1	290.7
Sept. qu	111	10.0	918	62.2	1,029	72.2	0.1	1	61	9.0	9.7	12.6	99.3	1 1	30.0	40.4	18.6	218.5	808 808
							3	COMPLETED	Ð.										
1990-91	456	31.7	1,010	55.5	1,466	87.2	1.2	0.2	1.7		27.5	11.0	86.3		LL	24.1	8.09	219.3	307.7
1991-92	367	23.5	295	31.1	929	54.6	9.0	0.2	1.6	l	43.8	66.2	4	I	21.5	17.8	36.2	251.4	306.6
1992-93 r	388	30.6	1,897	111.2	2,285	141.8	1.3	0.1	2.6	I	258.2	5.4	96.5	í	20.3	24.0	8.66	506.9	650.0
1992 June qtr	83	5.6	216	11.6	297	17.2	I	I	0.4	[11.1	21.6	0.4	ļ	03	9	11.5	40	1.09
Sept. qtr	80	6.1	313	16.5	393	22.6	0.1	l	9:1	ł	2.2	4.0	20.0	I	2 2	4.0	13.0	47.0	70.5
Dec. qu	81	7.4	578	30.0	629	37.4	0.2	1	0.3	ł	19.5	0.5	31.2	I	8,5	1.2	61.9	123.0	160.6
1993 Mar. qu	20	3.8	414	24.0	464	27.8	6.0	0.1	9.0	ŀ	212.5	0.1	787	١	0.4	7	7	8 290	202.4
June qur	177	13.4	592	40.7	769	54.1	0.1		1	I	24.0	60	6.7	į	9.6	13.4	18.5	72.2	126.3
Sept. qtr	76	7.5	439	25.2	536	32.8	2.7	0.2	I	4,6	13.9	1.6	12.5	I		8.4	8.7	46.4	81.8
					!														

TABLE 3. SUMMARY OF PUBLIC SECTOR BUILDING ACTIVITY, WESTERN AUSTRALIA—coninued

		<	New residential building	l building								Valu	Value (\$m)						
	Houses		Other residential buildings	ential ts	Total		! ' !					Non-residential building	ntial build	60 12 12					
Period	Number of dwelling units	Value (Sm)	Number of dwelling units	Value (\$m)	Number of dwelling units	Value (\$m)	Alterations and additions to residential buildings	Hotels	Shops Factories		Offices	Other business premises	Educa- tional	Reli- gious	u Health	Enter- tainment and recrea- tional	Missel- laneous	Total	Total building
						*	VALUE OF WORK DONE DURING PERIOD	K DONE	DURING PE	RIOD								:	`
1990-91	:	27.4	:	43.3	;	70.8	0.1	0.0	0.7		1247	32.2	7,70		2				
1991-92	:	22.1	:	49.4	;	71.5	0.7	3 2	: -	I		7 6	4.00	I	6.00	20.7	55.1	345.5	417.3
1992-93 r	:	31.6	:	113.7	: :	145.4	29	0.0	24	4.0	6.9	6.9	100.7	1 1	2 23	35.6 35.6	43.9	283.3	355.5
1992 June qtr	;	4,	:	214		26.30	6		ţ		•	;						<u>:</u> i	
Sept. of		6.7	Ī	32.6	:	4 6	7.0	I	<u>.</u>	ľ	12.6	3.7	18.5	ı	9.	6.4 4.	12.8	603	87.1
Dec. qt		9	:	20.0	:	26.0	- T	l	9:0	1	32	0.8	26.1	i	کر 50	5.5	7.6	70.0	110.4
-	•	Š	;	t.	:	30.0	C)	1	3	I		0.3	30.4	1	7.7	4.1	8.6	64.6	101.1
1993 Mar. qu	;	8.6	;	28.5	:	37.1	1.2	I	ļ	3.0	7	,	0		:		,	į	
June qtr r	:	6.3	:	22.2	;	31.9	17	0.1	0	ì	7 7	1 4	107 C 9C	l	- 2	7 ;	0 0	870	101.1
Sept. qu	:	8.6	;	29.7	:	38.3	===	: 1	0.5	80	9.7	. 99 1 eri	1 1 1 2 5	1 1	4 00 0 4	13.4	10.9	5. E	110.5 2. 7.
							VALUE OF WORK YET TO BE DONE	ORK YET	TO BE DON	自		į.							
160661	1	2.7	:	3.9		99	 		a c		7 87	47	4		:				
1991-92	:	4 .	:	74.4	: ‡	39.3	ł	1	e e•		2 2	· ·	26.0	l		o o	529	168.8	175.5
1992-93 r	:	£,3	;	31.7	:	36.0	8.0	!	0.5	9.0	12.6	5.7	47.4	1	. 4. 7.	9,01	13.5	118.7	155.4
1992 June qu	:	4.	-	Х 4	:	\$5 \$5	i	I	-		ç	•	ç			. 4			<u>-</u>
Sept. qu	:	2.2	:	32.6	: :	7	1	!!) v		K 9	9 5	£0.7	1	n 1	90 G	13.0	86.9	126.2
Dec. qu	;	3.8	:	23.8	: :	27.5	0.3		3 1	1	17.3	6.0	16.8	1 !	0.2	8.9 0.0	ю, ю, 4. С	- 52 - 52 - 53	101.0
1993 Mar. qtr	:	6.1	:	14.		40.3	-			•	;		;			;	ì]	
June our r		7	•	11.7	:	1 2	2 0	ĺ	;	χ.;	7 :	9.C	6 0	l	1	129	17,1	98.6	139.8
Sept. qtr	: :	4	:	300	:	20.00	0	ļ	<u>.</u>	9.6	12.6	6.7	47.4	I	17.4	19.8	13.5	118.7	155.4
* : 3	:	;	:	9.7	:	7'00	!	1	1.2	0.3	4.1	5.5	40.0	1	19.9	16,4	4.6	¥.	131.1

TABLE 4. NUMBER OF DWELLING UNITS BY STAGE OF CONSTRUCTION, WESTERN AUSTRALIA SEASONALLY ADJUSTED SERIES

		House	eş			Tota	d.	
	Privat sector	•	Total	· · · · · · · · ·	Privat sector		Total	
Period	Commenced	Completed	Commenced	Completed	Commenced	Completed	Commenced	Complesed
1992 June qu	3,229	2,990	3,275	n.a.	4,013	3,676	4,702	3,954
Sept. qtr	3,427	3,010	3,502	n.e.	4,305	3,784	4,865	4,264
Dec. qtr	3,792	3,504	3,890	n.a.	4,670	4,245	5,148	4,873
1993 Mar. qtr	3,714	3,245	3,899	n.t.	4,743	4,127	5,591	4 610
June qtr r	3,702	4,223	3,746	T.E.	4,881	5,364	5,238	4,532
Sept. gtr	4,150	3,655	4,290	n.a.	5,245	4,866	5,756	6,116 5,516

TABLE 5. VALUE OF BUILDING WORK DONE, WESTERN AUSTRALIA SEASONALLY ADJUSTED SERIES (\$ million)

			(\$ million	 			
	New)	residential building		Alterations and	Non-residential bu	ülding	
Period	Houses C	Other residential buildings	Total	additions to — residential buildings	Private sector	Total	Total building
1992 June qtr	229.2	71.7	302.0	27.9	74.1	136.9	463.8
Sept. qtr	246,3	82.3	327.2	33.2	97.5	158.5	527.4
Dec. qtr	283.8	84.4	367.5	34.5	102.2	165.5	557.9
1993 Mar. qtr	283.0	91.7	375.3	35.7	137.1	209.8	624.2
June qu'r	291.6	88.6	381.7	37.2	115.0	194.9	609.4
Sept. qtr	304,4	99.6	402.3	39.2	128.2	185.7	638.3

TABLE 6. VALUE OF BUILDING WORK COMMENCED, AT A VERAGE 1989-90 PRICES (a), WESTERN AUSTRALIA (\$ million)

	New ro	esidential building		Alterations and	Non-residential bu	ülding	
Period	O Houses	ther residential buildings	Total	additions to — residential buildings	Private sector	Total	Total building
1990-91	855.2	202.4	1,057.6	144.7	381.7	561.9	1,764.2
1991-92	1,036.7	227.6	1,264.3	133.9	277.6	450.0	1,848.2
1992-93 г	1,266.4	337.0	1,603.4	158.5	530.3	825.6	2,587.5
1992 June qtr	295.7	77.7	373.4	32.8	98.1	134.0	540.2
Sept. qu	311.7	84.9	396.6	36.3	103.9	154.2	587.1
Dec. gur	299.5	75.5	375,0	40.7	91.7	141.6	557.3
1993 Mar. qtr	310.4	91.2	401.6	38.8	196.3	297.9	738.3
June qtr r	344.8	85.4	430.2	42.7	138.4	231.9	704.8
Sept. qtr	393.2	105.4	498.6	35.4	121.4	165.7	699.7

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

TABLE 7. VALUE OF BUILDING WORK DONE, AT AVERAGE 1989-90 PRICES (a), WESTERN AUSTRALIA ORIGINAL AND SEASONALLY ADJUSTED SERIES

(\$ million)

New residential building Alterations and Non-residential building additions to Other residential residential Private Total Period Houses buildings Total buildings sector Total building **ORIGINAL** 1990-91 929.8 207.4 1,137.2 160.4 579.9 913.0 2,210.6 1991-92 986.1 219.6 1,205.7 143.8 344.0 614.9 1,964.4 1992-93 r 337.5 1,229.5 1,567.0 157.0 429.6 693.6 2,417.6 327.2 34.0 1992 June qu 260.6 66.6 68.7 126.9 488.1 Sept qu 297.4 83.0 380.4 35.1 99.3 166.0 581.5 Dec. qtr 315.0 88.6 403.6 41.2 105.1 167.0 611.8 377.1 1993 Mar. qtr 294.8 82.3 36.6 117.5 178.1 591,8 322.3 83.6 405.9 44.1 107.7 182.5 632.5 June qur r Sept. qu 358.2 101.8 460.0 40.3 131.9 196.7 697.0 SEASONALLY ADJUSTED 1992 June qtr 259.8 69.3 330.8 31.7 70.8 130.9 490.6 278.0 79.6 356.3 37.5 92.9 151.1 553.0 Sept. qu Dec. gur 317.9 82.1 398.3 38.6 98.0 158.6 585.1 1993 Mar. qtr 314.9 89.9 405.6 39.7 132.4 202.6 652.4 June qtr r 321.5 86.9 410.4 41.1 111.0 188.2 635.4 334.5 97.6 430.5 123.5 178.9 663.4

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

TABLE & NUMBER OF DWELLING UNITS BY OWNERSHIP, CLASS OF BUILDER AND STAGE OF CONSTRUCTION, WESTERN AUSTRALIA

		P ₇	ivate sector	-			Public sector			Total	
		Houses		Other			Other			Other	
Period	Contractor- built	Other	Total	residential buildings	Total	Houses	residential buildings	Total	llouses	residential buildings	Tota
	**************************************			COM	MENCED						
1990-91	8,287	1,684	9,971	2,453	12,424	348	606	954	10,319	3,059	13,378
1991-92	9,811	2,110	11,921	2,657	14,578	358	1,387	1,745	12,279	4,044	16,323
1992-93 r	12,704	1,911	14,615	3,955	18,570	396	1,823	2,219	15,011	5,778	20,789
1992 June qtr	2,780	605	3,385	696	4,081	92	690	782	3,477	1,386	4,863
Sept. qtr	3,192	436	3,628	988	4,616	49	567	616	3,677	1,555	5,232
Dec. qtr	3,133	495	3,628	973	4,601	76	351	427	3,704	1,324	5,028
1993 Mar. qtr	2,99 0	489	3,479	910	4,389	172	548	720	3,651	1,458	5,109
June otr r	3,388	491	3,879	1,084	4,963	99	357	456	3,978	1,441	5,419
Sept. qtr	3,853	542	4,395	1,226	5,621	111	457	568	4,506	1,683	6,189
		ι	INDER C	ONSTRUCT	ION AT E	ND OF PE	RIOD				
1990-91	2,410	1,607	4,017	1,721	5,738	98	160	258	4,115	1,881	5,996
1991-92	2,800	1,906	4,706	1,554	6,260	89	985	1,074	4,795	2,539	7,334
1992-93 г	3,470	1,828	5,298	1,929	7,227	97	902	999	5,395	2,831	8,226
1992 June qtr	2,800	1,906	4,706	1,554	6,260	89	985	1,074	4,795	2,539	7,334
Sept. qtr	3,611	1,847	5,458	1,826	7,284	58	1,239	1,297	5,516	3,065	8,581
Dec. qtr	3,337	1,807	5,144	1,910	7,054	53	1,012	1,065	5,197	2,922	8,119
1993 Mar. qtr	3,558	1,897	5,455	2,020	7,475	175	1,146	1,321	5,630	3,166	8,796
June qtr r	3,470	1,828	5,298	1,929	7,227	97	902	99 9	5,395	2,831	8,226
Sept. qtr	4,220	1,976	6,196	2,048	8,244	111	918	1,029	6,307	2,966	9,273
				сом	PLETED						
1990-91	8,730	2,200	10,929	2,949	13,878	456	1,010	1,466	11,385	3,959	15,344
1991-92	9,398	1,774	11,172	2,815	13,987	367	562	929	11,539	3,377	14,916
1992-93 r	12,053	1,927	13,980	3,539	17,519	388	1,897	2,285	14,368	5,436	19,804
1992 June qtr	2,396	456	2,852	700	3,552	81	216	29 7	2,933	916	3,849
Sept. qtr	2,407	455	2.862	702	3,564	80	313	393	2,942	1,015	3,957
Dec. qtr	3,406	524	3,930	889	4,819	81	578	659	4,011	1,467	5,478
1993 Mar. qtr	2,769	389	3,158	791	3,949	50	414	464	3,208	1,205	4,413
June qtr r	3,470	560	4,029	1,157	5,186	177	592	769	4,206	1,749	5,955
Sept. qtr	3,090	382	3,472	1,107	4,579	97	439	536	3,569	1,546	5,115

TABLE 9. NUMBER AND VALUE OF NEW HOUSES BUILT BY CONTRACT BUILDERS FOR PRIVATE OWNERSHIP, BY COMPLETION VALUE RANGE AND STAGE OF CONSTRUCTION WESTERN AUSTRALIA

					EKNAU						1.4. 4	
		Сотт	enced		Under	CONSTRUCTIO	n at end of pe	riod		Сотр	retea	
Period	Less than \$40,000	\$40,000 to \$59,999	\$60,000 and over	Total	Less 1kan \$40,000	\$40,000 to \$59,999	\$60,000 and over	Total	Less than \$40,000	\$40,000 to \$59,999	\$60,000 and over	Total
					NUMBI	R						
1990-91	395	3,727	4,165	8,287	83	808	1,519	2,410	407	3,743	4,579	8,730
1991-92	327	4,362	5,122	9,811	84	961	1,755	2,800	300	4,211	4,887	9,398
1992-93	732	4,604	7,367	12,704	165	831	2,474	3,470	651	4,728	6,673	12,053
1992 June qtr	116	1,184	1,480	2,780	84	961	1,755	2,800	93	1,066	1,238	2,396
Sept. qu	104	1,264	1,824	3,192	95	1,160	2,356	3,611	128	1,056	1,223	2,407
Dec. qtr	187	1,299	1,647	3,133	177	1,047	2,113	3,337	59	1,435	1,913	3,406
1993 Mar. qtr	239	884	1,868	2,990	240	878	2,439	3,558	176	1,065	1,529	2,769
June qtr r	201	1,158	2,028	3,388	165	831	2,474	3,470	288	1,173	2,009	3,470
Sept. qtr	25	1,348	2,480	3,853	27	1,084	3,110	4,220	50	1,158	1,881	3,090
		<u></u>			VALUE (Sm)						
1990-91	13.7	187.5	426.4	627.6	3.0	40.3	194.7	237.9	13.8	188.3	509.3	711.4
1991-92	11.8	221.1	491.6	724.5	3.1	48.8	192.3	244.2	11.0	212.6	505.0	728.5
1992-93	25.3	234.6	702.7	962.5	5.9	43.3	285.2	334.4	22.4	239.3	622.0	883.7
1992 June qtr	4.1	60.0	141.3	205.4	3.1	48.8	192.3	244.2	3.2	53.5	124.0	180.8
Sept. qtr	3.7	64.7	16 9 .1	237.4	3.3	59.2	257.3	319.B	4.6	53.6	106.6	164.8
Dec, qtr	6.5	66.4	150.5	223.4	6.0	53.9	230.2	290.1	2.1	72.9	181.6	256.5
1993 Mar. qtr	8.3	44.1	179.2	231.6	8.4	44.2	275.3	328.0	5.9	54.2	134.6	194.8
June qtr r	6.8	59.4	203.9	270.1	5.9	43.3	285.2	334.4	9.8	58.6	199.2	267.6
Sept. qtr	0.9	70.7	232.9	304.5	0.9	57.2	344,4	402.5	1.8	60,0	178.3	240.1

TABLE 10. SUMMARY OF BUILDING ACTIVITY, WESTERN AUSTRALIA RELATIVE STANDARD ERRORS (PER CENT) SEPTEMBER QUARTER 1993

		New residential	building		Value	
	Houses		Total		Alterations	
Ownership and stage of construction	Number	Value	Number of dwelling units	Value	and additions to residential buildings	Total building
	PI	UVATE SECTO)R			
Commenced	2.9	3.1	2.3	2.6	6.3	1.9
Under construction at end of period	3.1	3.2	2.3	2.5	6,7	1.6
Completed	4.5	5.2	3.4	4.2	9.9	3.1
Value of work done		3.0		2.4	5.6	1.7
Value of work yet to be done		3.7		3.0	8.2	1.9
	TOTAL PRIV	ATE AND PUB	LIC SECTORS			
Commenced	2.9	3.0	2.1	2.4	6.3	1.7
Under construction at end of period	3.0	3.1	2.1	2.3	6.7	1.3
Completed	4.4	5.1	3.0	3.8	9.2	2.7
Value of work done	* *	2.9	- 4	2.2	5.4	1.4
Value of work yet to be done	••	3.6	• •	2.7	8.1	1.6

TABLE II - VALUE OF NON-RESIDENTIAL BUILDING COMPLETED AND UNDER CONSTRUCTION BY STATISTICAL LOCAL AREAS AND STATISTICAL DIVISIONS (\$'000)

Statistical division		Commissed during marion		Under construction
Statistical division		Completed during period	!	at end of period
Statisitical local area (a)	Year ended June 1993 (r)	Quarter ended June 1993 (r)	Quarter ended September 1993p	Quarter endea September 1993p
	PERTH STAT	ISTICAL DIVISION		
Armadale (C)	6,294	559	258	7,482
Bassendean (T)	2,004	604	1,900	1,561
Bayswater(C)	7,267	1,221	490	89,647
Belmont (C)	10,160	6,144	2,773	3,225
Canning (C)	36,721	4,863	6,727	15,896
Claremont (T)	6,715	523	921	368
Cockburn (C)	28,910	10,358	1,767	10,514
Cottesloe (T)	670	_	165	715
East Fremantle (T)	395	115	_	800,8
Fremantle (C) - Inner	2,977	305	380	3,136
Fremantle (C) - Remainder	13,450	2,223	2,200	11,207
Fremantle (C) - Total	16,427	2,528	2,580	14,343
Gosnells (C)	8,821	2,456	711	7,920
Kalamunda (S)	6,125	1,260	2,804	1,881
Kwinana (T)	7,399	1,385	2,821	204
Melville (C)	27,054	12,255	4,467	58,497
Mosman Park (T)	789	1 40	• —	7,184
Mundaring (S)	6,214	932	300	1,013
Nedlands (C)	11,946	8,545	340	12,482
Peppermint Grove (S)			622	_
Perth (C) - Inner	305,938	7,530	2,930	25,241
Perth (C) - North	2,704	2,117	_	5,305
Perth (C) - Outer	26,195	2,836	5,948	13,389
Perth (C) - South	24,299	5,763	91	31,608
Perth (C) - Wembley-Coastal	11,738	6,650	81	168
Perth (C) - Total	370,874	24,896	9,050	<i>75</i> ,711
Rockingham (C)	15,270	4,510	3,567	36,171
Serpentine-Jarrahdale (S)	3,950	470	85	800
South Perth (C)	4,928	947	1,230	6,702
Stirling (C) - Central	29,295	10,325	6,173	2,153
Stirling (C) - West	26,832	3,258	3,141	17,140
Stirling (C) - South-Eastern	2,169	600	_	6,294
Stirling (C) - Total	58,296	14,183	9,314	25,587
Subiaco (C)	6,018	1,956	6,137	20,450
Swan (S)	52,332	22,414	19,644	21,075
Wanneroo (C)	70,617	16,104	18,994	103,849
Total	766,196	139,365	97,667	531,286
······	SOUTH-WEST ST	TATISTICAL DIVISION		
Augusta-Margaret River (S)	1,993	345	545	2,363
Boddington (S) (b)	_		_	_
Boyup Brook (S)	_	_	_	30
Bridgetown-Greenbushes (S)	917	_	392	617
Bunbury (C)	6,363	1,955	4,041	2,584
Busselton (S)	7,592	740	456	7,022
Capel (S)	502	409	_	_
Collie (S)	98	_	_	965
Dardanup (S)	432		193	737
Donnybrook-Balingup (S)	517	64	175	1,200
Harvey (S)	3,729	229	2,718	1,677
Mandurah (C)	6,526	175	1,690	4,381
Manjimup (S)	1,081	230	181	1, 36 6
Murray (S)	595	173		520
Nannup (S)	545	195	_	81
Waroona (S)	4,510	3,500	_	
Total (b)	35,399	8,014	10,390	23,543

TABLE 11 – VALUE OF NON-RESIDENTIAL BUILDING COMPLETED AND UNDER CONSTRUCTION BY STATISTICAL LOCAL AREAS AND STATISTICAL DIVISIONS – continued (\$'000)

		Completed during period		Under construction at end of period
Statistical division Statistical local area (a)	Year ended June 1993 (r)	Quarter ended June 1993 (r)	Quarter ended September 1993p	Quarter endea September 1993p
	LOWER GREAT SOUTI	ERN STATISTICAL DIV	ISION	
Albany (T)	8,235	4,886	2,832	2,105
Albany (S)	1,725	355		2,962
Broomehill (S)	_	_	_	_
Cranbrook (S) Denmark (S)	1 180	_	-	1.064
Gnowangerup (S)	1,180	_	85	1,066 100
Jerramungup (S)	225	_	_	785
Katanning (S)	162	_		
Kent (S)	_	_	•	
Kojonup (S)		. 		150
Plantagenet (S)	889	100	_	217
Tambellup (S) Woodanilling (S)	_	_	_	395
Total	- 12.416		2017	
1000	12,416	5,340	2,917	7,781
· "	UPPER GREAT SOUTH	ERN STATISTICAL DIVI	SION	
Brookton (S)	_		_	370
Corrigin (S)	_	_		_
Cuballing (S) Dumbleyung (S)	_		_	_
Kondinin (S)	— 848	_	_	
Kulin (S)		<u>-</u>	_	201
Lake Grace (S)	****	_	-	
Narrogin (T)	950	212	250	1,030
Narrogin (S)	_	_	_	_
Pingelly (S)		_		_
Wagin (S)	84	_	_	_
Wandering (S) West Arthur (S)		_	_	_
Wickepin (S)	<u> </u>			400
Williams (S)	155	_	_	-
Total (b)	2,037	212	250	2,081
	MIDLANDS STA	ATISTICAL DIVISION		
Beverley (S)		_	_	135
Bruce Rock (S)	****	_	_	_
Chittering (S)	334	180	_	1,150
Cunderdin (S)	60	60	_	_
Dalwallinu (S) Dandaragan (S)	— 113	_	_	— 852
Dowerin (S)	——————————————————————————————————————			832
Gingin (S)	55	_	190	300
Goomalling (S)	_	_	_	
Kellerberrin (S)	_		_	_
Koorda (S)		_		
Merredin (S)	204	_	178	55
Moora (S) Mount Marshall (S)	420	_		
Mukinbudin (S)	390	302		_
Narembeen (S)		_	_	
Northam (T)	732	527	450	600
Northam (S)	64 1	95	82	2,679
Nungarin (S)	-	_	_	_
Quairading (S)	_	_	_	-
Гаттіп (S) Гооdyay (S)	212	212	180	180
Frayning (S)	——————————————————————————————————————	<u> </u>	100	190
Victoria Plains (S)	-	_		100
Westonia (S)	_	_	_	_
Wongan-Ballidu (S)	915	-	439	_
Wyalkatchem (S)	_	_		_
Yilgam (S)	220	_	_	_
York (S)	50		_	
l'Otal	4,346	1,376	1,520	6,051

TABLE 11 – VALUE OF NON-RESIDENTIAL BUILDING COMPLETED AND UNDER CONSTRUCTION BY STATISTICAL LOCAL AREAS AND STATISTICAL DIVISIONS – continued (\$'000)

		C 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		Under construction
Statistical division	Year ended	Completed during period	-	at end of period
Statistical local area (a)	June 1993 (r)	Quarter ended June 1993 (r)	Quarter ended September 1993p	Quarter ended September 1993 _F
	SOUTH-EASTERN	STATISTICAL DIVISION	N	
Coolgardic (S) Dundas (S)	189		_	
Esperance (S)	1,834		88	_
Kalgoorlie-Boulder (C)	9,912	494 2,346	278 3,127	1,010
Laverton (S)	_		5,121 —	13,104
Leonora (S)	1,797	1,747	206	1,473
Menzies (S) Ravensthorpe (S)	1.422			· -
Total	1,432 15,164	192 4, 77 9	3,700	 15,587
		TISTICAL DIVISION		10,001
Carnamah (S)	228	228		
Camarvon (S)	1,111	102	518	1,769
Chapman Valley (S) Coorow (S)	113 130	_	104	
Cue (S)	130		_	130
Exmouth (S)	240	180		99 101
Geraldton (C)	4,914	1,837	1,996	3,465
Greenough (S)	1,887	1,067	53	· —
Irwin (S) Meekatharra (S)	535 1,591	_	650	_
Mingenew (S)		_	56	
Morawa (S)	1,815	_	_	
Mount Magnet (S)		_	_	_
Mullewa (S) Murchison (S)	186	_		_
Ngaanyatjarraku (S) (c)		_	-	186
Northampton (S)	151	100	120	125
Perenjori (S)	_	_		12.3
Sandstone (S)	-			_
Shark Bay (S)	200	_	_	137
Three Springs (S) Upper Gascoyne (S)	_			
Wiluna (S) (c)	<u></u> 171	_	3,419	1 971
Yalgoo (S)			— VIF,C	1,871
Total	13,271	3,514	6,916	7,882
	PILBARA STAT	ISTICAL DIVISION		
Ashburton (S)	2,283	_	_	1,099
East Pilbara (S)	1,703	322	209	5,316
Port Hedland (T) Roebourne (S)	6,993	306	227	1,921
Potal	12,279 23,258	I,176 1,804	10,253 10,689	330 8,666
		TISTICAL DIVISION	10,000	
Proome (S)	2,339	1,257	1,414	1,474
Derby-West Kimberley (S)	1,920	95	530	1,474
falls Creek (S)	707		_	1,321
Vyndham–East Kimberley (S)	4,917	386	948	630
Total	9,883	1,738	2,892	4,542
	STATE S	UMMARY		
tatistical division — Penh	766,196	139,365	97,667	531,286
South-West	35,399	8,014	10,390	23,543
Lower Great Southern	12,416	5,340	2,917	7,781
Upper Great Southern Midlands	2,037	212	250	2,081
South-Eastern	4,346 15.164	1,376 4,770	1,520	6,051
Central	15,164 13,271	4,779 3,514	3,700 6,916	15,587 7,882
Pilbara	23,258	1,804	10,689	7,082 8,666
Kimberley	9,883	1,738	2,892	4,542
VESTERN AUSTRALIA	881,970	166,143	136,940	607,420

⁽a) City councils are marked (C), Town councils (I) and Shire councils (S). (b) From 1 July 1993, Boddington (S) is part of the South-West Statistical Division. Formerly part of the Upper Great Southern Statistical Division. (c) From 1 July 1993, Ngaanyatjarraku is a new Shire council. Formerly part of Wiluna (S).

EXPLANATORY NOTES

Introduction

This publication contains detailed results from the quarterly Building Activity Survey.

- 2. The statistics are compiled on the basis of returns collected from builders and other individuals and organisations engaged in building activity. The quarterly survey consists of two components:
 - (a) A sample survey of private sector house building activity involving new house construction or alterations and additions valued at \$10,000 or more to houses.
 - (b) A complete enumeration of jobs involving construction of new residential buildings other than private sector houses, all alterations and additions to residential buildings (other than private sector houses) with an approval value of \$10,000 or more, and all non-residential building jobs with an approval value of \$50,000 or more.
- 3. From the September quarter 1990, only non-residential building jobs (both new and alterations and additions) with an approval value of \$50,000 (previously \$30,000) or more are included in the survey. The impact of these changes is relatively small at the Total Western Australia level, however, care should be taken in interpreting data for specific classes of non-residential building. The ABS will continue to periodically review the cut-offs for both residential and non-residential building activity to take account of inflation in future years.
- 4. The use of sample survey techniques in the Building Activity Survey means that reliable estimates of private sector house building activity, including alterations and additions to houses, are available only at the State level. However, dwelling unit commencement data for regions below State level are shown in the monthly series of dwelling unit commencements (Catalogue No. 8741.5). Data from this series, unlike those compiled from the Building Activity Survey, are based on information reported by local and other government authorities.

Scope and coverage

- 5. 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.
- Building jobs included in each quarter in the Building Activity Survey comprise those building jobs selected in previous quarters which have not been completed (or commenced) by the end of the previous quarter and those building jobs newly selected in the current quarter. The population list from which building jobs are selected for inclusion comprises all approved building jobs which were notified to the ABS up to but not including the last month of the reference quarter (i.e. up to the end of August in respect of the September quarter survey). This introduces a lag to the statistics in respect of those building jobs notified and commenced in the last month of the reference quarter (i.e. for the month of September in respect of the September quarter survey). For example building jobs which were notified as approved in the month of June and which actually commenced in that month are shown as commencements in the September quarter. Similarly, building jobs which were notified in the month of September and which actually commenced in that month are shown as commencements in the December quarter.

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 building.
- 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 caretakers' residences) associated with non-residential buildings are defined as houses for the purpose of these statistics.
 - (b) An other residential building is defined as a building which is predominantly used for long term residential purposes and which contains (or has attached to it) more than one dwelling unit (e.g.includes townhouses, duplexes, apartment buildings, etc.).
- 10. 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.
- 11. Commenced. A building job is regarded as commenced when the first physical building activity has been performed on site in the form of materials fixed in place and/or labour expended (this includes site preparation but excludes delivery of building materials, the drawing of plans and specifications and the construction of non-building infrastructures such as roads).
- 12. Under construction. A building job is regarded as being under construction at the end of a period if it has been commenced but has not been completed, and work on it has not been abandoned.
- 13. Completed. A building job is regarded as completed when building activity has progressed to the stage where the building can fulfil its intended function. In practice, the ABS regards buildings as completed when notified as such by respondents to the survey.

Valuation of building jobs

- 14. The value series in this publication are derived from estimates reported on survey returns as follows:
 - (a) Value of building commenced or under construction represents the anticipated completion value based, where practicable, on estimated market or contract price of building jobs excluding the value of land and land scaping. Site preparation costs are included. Where building jobs proceed over several quarters the anticipated completion value reported on

- the return for the first (commencement) quarter may be amended on returns for subsequent (under construction) quarters as the job nears completion,
- (b) Value of building completed represents the actual completion value based, where practicable, on the market or contract price of building jobs including site preparation costs but excluding the value of land and landscaping.
- (c) Value of building work done during the period represents the estimated value of building work actually carried out during the quarter on building jobs which have commenced.
- (d) Value of building work yet to be done represents the difference between the anticipated completion value and the estimated value of work done on building jobs up to the end of the period.

Building classification

- 15. Ownership. The ownership of a building is classified as either private sector or public 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.
- 16. Builder type. Houses are classified according to the type of builder as follows.
 - (a) Contractor-built houses are those constructed by a private recognised building contractor, either under contract, or in anticipation of sale or rental.
 - (b) Houses built by other than contract builders are those constructed by an owner (other than a recognised building contractor) or under the owner's direction, without the services of a single contractor responsible for the whole job. Houses built by businesses (other than recognised building contractors) and public sector organisations are also included in this category.
- 17. Functional classification of buildings. A building is classified according to its intended major function. Hence a building which is ancillary to other buildings or forms a part of a group of related buildings is classified to the function of the building and not to the function of the group as a whole. An example of this can be seen in the treatment of building work approved for a factory complex. In this case a detached administration building would be classified to Offices, a detached cafeteria building to Shops, while factory buildings would be classified to Factories. An exception to this rule is the treatment of group accommodation buildings where, for example, a student accommodation building on a university campus would be classified to Educational.
- Examples of the types of buildings included under each main functional heading are shown in the following list.
 - (a) Houses. Includes cottages, bungalows, detached caretakers'/managers' cottages, rectories.
 - (b) Other residential buildings. Includes blocks of flats, home units, attached townhouses, villa units, terrace houses, semi-detached houses, maisonettes.
 - (c) Hotels, etc. Includes motels, hostels, boarding houses, guest houses, holiday apartment buildings.

- (d) Shops. Includes retail shops, restaurants, cafes, taverns, dry cleaners, laundromats, hair salons, shopping arcades.
- (e) Factories. Includes paper mills, oil refinery buildings, brickworks, foundries, power houses, manufacturing laboratories, workshops as part of a manufacturing process.
- Offices. Includes banks, post offices, council chambers, head and regional offices.
- (g) Other business premises. Includes warehouses, storage depots, service stations, transport depots and terminals, electricity sub-station buildings, pumping station buildings, telephone exchanges, mail sorting centres, broadcasting stations, film studios.
- (h) Educational. Includes schools, colleges, kindergartens, libraries, museums, art galleries, research and teaching laboratories, theological colleges.
- (i) Religious. Includes churches, chapels, temples.
- (j) *Health*. Includes hospitals, nursing homes, surgeries, clinics, medical centres.
- (k) Entertainment and recreational. Includes clubs, theatres, cinemas, public halls, gymnasiums, grandstands, squash courts, sports and recreation centres.
- (1) Miscellaneous. Includes law courts, homes for the aged (where medical care is not provided as a normal service), orphanages, gaols, barracks, mine buildings, glasshouses, livestock sheds, shearing sheds, fruit and skin drying sheds, public toilets, and ambulance, fire and police stations.

Reliability of the estimates

- 19, Since the figures for private sector house building activity (including alterations and additions) are derived from information obtained from a sample of approved building jobs they are subject to sampling error; that is, they may differ from the figures that would have been obtained if information for all approved jobs for the relevant period had been included in the survey. One measure of the likely difference is given by the standard error, which indicates the extent to which an estimate might have varied by chance because only a sample of approved jobs was included.. There are about two chances in three that a sample estimate will differ by less than one standard error from the figure that would have been obtained if all approved jobs had been included, and about nineteen chances in twenty that the difference will be less than two standard errors. Another measure of sampling variability is the relative standard error, which is obtained by expressing the standard error as a percentage of the estimate to which it refers. The relative standard errors of estimates provide an indication of the percentage errors likely to have occurred due to sampling, and are shown in Table 10.
- 20. An example of the use of relative standard errors is as follows. Assume that the estimate of the number of new private sector houses commenced during the latest quarter is 2,000 (for actual estimate see Table 2) and that the associated relative standard error is 2.5 per cent (for actual percentage see Table 10). There would then be about two chances in three that the number which would have been obtained if information had been collected about all approved private sector house jobs would have been within the range 1,950 to 2,050 (2.5 per cent of 2,000 is 50) and about nineteen chances in twenty that the number would have been within the range 1,900 to 2,100.

21. The imprecision due to sampling variability, which is measured by the relative standard error, should not be confused with inaccuracies that may occur because of inadequacies in the source of building approval information, imperfections in reporting by respondents, and errors made in the coding and processing of data. Inaccuracies of this kind are referred to as non-sampling error, and may occur in any enumeration whether it be a full count or only a sample. Every effort is made to reduce the non-sampling error to a minimum by the careful design of questionnaires, efforts to obtain responses for all selected building jobs, and efficient operating procedures.

Seasonal adjustment

- 22. Seasonally adjusted building statistics are shown in Tables 4, 5and 7. In the seasonally adjusted series, account has been taken of normal seasonal factors and trading day effects (arising from the varying number of Sundays, Mondays, Tuesdays etc. in the quarter and the effect of movement in the date of Easter) which may, in successive years, affect figures for different quarters. Details of the methods used in seasonally adjusting the series are given in Seasonally Adjusted Indicators, Australia (1308.0).
- 23. Since seasonally adjusted statistics reflect both irregular and trend movements, an upward or downward movement in a seasonally adjusted series does not necessarily indicate a change of trend. Particular care should therefore be taken in interpreting individual quarter to quarter movements. 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 component may not add to the adjusted totals. Further, the difference between independently scasonally 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 scasonally adjusted public sector dwelling units.

Estimates at constant prices

- 24. Estimates of the value of commencements and work done at average 1989–90 prices are shown in Tables 6 and 7. 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'.
- 25. 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).
- 26. The factors used to seasonally adjust the constant price series are identical to those used to adjust the corresponding current price series.

Australian Standard Geographical Classification

27. 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.

Unpublished data and related publications

- 28. The ABS can also make available certain building approvals and activity data which are not published. Where it is not practicable to provide the required information by telephone, data can be provided in the following forms: microfiche, photocopy, computer printout, floppy disk and clerically extracted tabulation. A charge may be made for providing unpublished information in these forms.
- 29. Users may also wish to refer to the following building and construction publications which are available on request:

Western Australia	Catalogue No.
Building Approvals (monthly)	8731.5
Building Approvals - Private Sector, Perth Statistical Division (monthly)	8732.5
Dwelling Unit Commencements Reported by Approving Authorities (monthly)	8741.5
Australia	Catalogue No.
Building Approvals (monthly)	8731.0
Building Activity: Dwelling Unit Commencen	ients,
Preliminary (quarterly)	8750.0
Building Activity (quarterly)	8752.0

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 *Publications Advice* (1105.0) which lists publications to be released in the next few days. The Catalogue and Publications Advice are available from any ABS office.

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

preliminary - series subject to revision

P.C. KELLY
Deputy Commonwealth Statistician
and Government Statist

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