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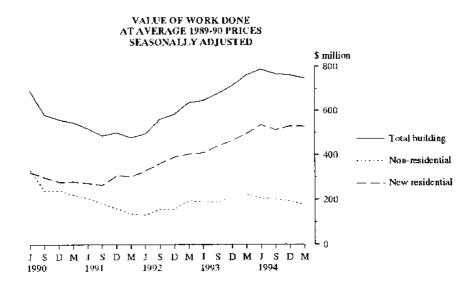
BUILDING ACTIVITY, WESTERN AUSTRALIA MARCH QUARTER 1995

SUMMARY OF FINDINGS

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

	Percentage	e change on
	Dec. quarter 1994	Mar. quarter 1994
New residential building Alterations and additions	-0.2	6.8
to residential buildings	-2.2	7.3
Non-residential building	-8.9	-22.3
Total building	-1.9	-1.8

- In seasonally adjusted average 1989–90 prices the total value of building work done during the March quarter 1995 fell by a relatively marginal 1.9% to \$746.3 million. Furthermore, after 3 consecutive quarterly falls, the March quarter figure was still only 5.2% less than the June quarter 1994 record high for the series, since it began with the September quarter 1980.
- For new residential building, work done during the March quarter, at \$529.3 million, remained virtually the same as for the previous quarter and was not significantly different from the June quarter 1994 level of \$536.1 million, the record for the series since it began with the September quarter 1980.
- Work done during the March quarter on non-residential building fell a further 8.9% to \$175.5 million, making a 22,3% fall from the level of a year earlier.



INQUIRIES

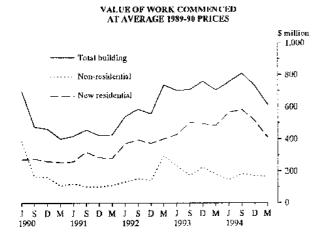
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- for information about other ABS statistics and services please contact Information Services on Adelaide (08) 237 7100, call at 55 Currie Street, Adelaide, or write to Information Services, ABS, GPO Box 2272, Adelaide SA 5001.

SUMMARY OF FINDINGS - continued

Value of building work commenced at average 1989-90 prices

	Percentage	e change on
	Dec. quarter 1994	Mar. quarter 1994
New residential building Alterations and additions	-19.7	-14.7
to residential buildings	-25.3	-16.1
Non-residential building	_3.8	-8.6
Total building	-16.3	-13.2

- In average 1989–90 prices (but not seasonally adjusted), the total value of building work commenced during the March quarter 1995 fell 16.3% to \$613.3 million, the lowest since the December quarter 1992. This series has now fallen 24.3% from the recent high of \$810.6 million for the September quarter 1994.
- The above falls have been primarily due to falls in the value of new residential building commenced. During the March quarter this series fell 19.7% to \$412.2 million, the lowest for 2 years, and has now fallen 29.4% from its record high of \$583.9 million for the September quarter 1994. In addition, commencements of alterations and additions fell 25.3% from a record high in the December quarter 1994 to \$34.8 million for the March quarter, the lowest since the June quarter 1992.
- By comparison, commencements of non-residential buildings fell only 3.8% during the March quarter to \$166.3 million.

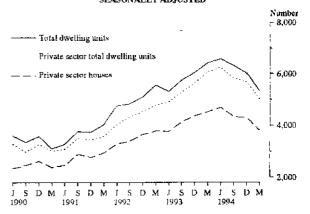


Number of dwelling units commenced, seasonally adjusted

	Percentag	e change on
	Dec. quarter 1994	Mar. quarter 1994
Private sector houses	-10.7	-15.8
Private sector dwelling units	-12.1	-17.6
Total dwelling units	-11.6	-17.0

- In seasonally adjusted terms, the total number of dwelling units commenced during the March quarter 1995 was 5,336. This was 11.6% fewer than in the previous quarter and 19.2% fewer than the recent high in the June quarter 1994.
- The number of private sector houses commenced was 3,817. This was down 10.7% from the December quarter 1994 and down 19.0% from the recent high in the June quarter 1994. More generally, commencements of all dwelling units in the private sector fell by a slightly higher 12.1% during the March quarter.

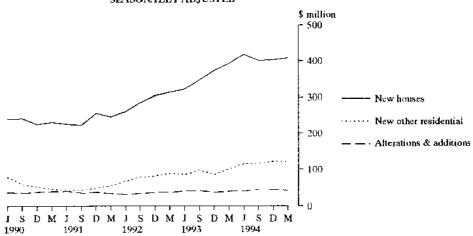
NEW DWELLING UNITS COMMENCED SEASONALLY ADJUSTED



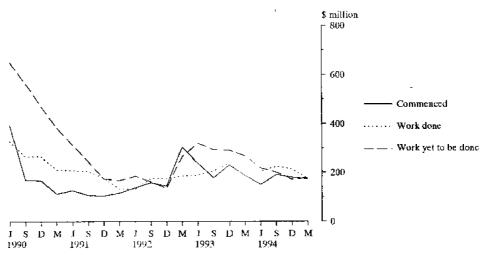
Original unadjusted data

- The total value of building work commenced (unadjusted, at current prices) during the March quarter 1995 was \$610.6 million, a decrease of \$115.6 million from the previous quarter, mainly in the residential sector. Compared with the previous quarter, the total number of dwelling units commenced fell by 1,073 or 18.0% to 4,874.
- The total value of all building work done during the March quarter fell \$103.8 million or 13.0% to \$693.8 million. At the end of March, the value of work yet to be done on jobs under construction was \$646.1 million, having fallen by a lesser \$64.2 million or 9.0% during the quarter.

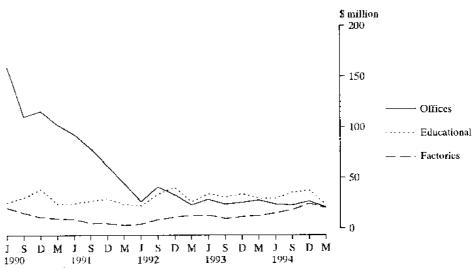
VALUE OF RESIDENTIAL WORK DONE AT AVERAGE 1989-90 PRICES SEASONALLY ADJUSTED



VALUE OF NON-RESIDENTIAL BUILDING



VALUE OF NON-RESIDENTIAL WORK DONE



AUSTRALIA
Y, WESTERN
ACTIVIT
OF BUILDING
1. SUMMARY
TABLE 1

		*	New residential building	building								Value	Value (Sm)						
	House		Other residential	ential	, E							Non-residential building	ıtial buildir	81					
Period	Number of dwelling units	Value (\$m)	Number of dwelling units	Value (\$m)	Number of dwelling units	Value (\$m)	Alterations and additions to residential buildings	Hotels erc.	Shops F	Shops Factories	Опсез	Other business premises	Educa- nonal	Reli- gious I	ta 1 Health	Enter- tainment and recrea- tional	Miscel- taneous	Total	Total building
						<u> </u> 	0	COMMENCED											
1991.92	97.6.61	914.1	4.044	733 7	16231	1 147 4	1186	-	69.3	19.4	68.4	62.3	107.6	7.7	39.2	33.0	44.2	462.3	1,728.3
1992-93	15,011	1,134.3	5,778	341.6	20,789	1,475.9	142.9	12.8	212.8	43.7	117.8	69.0	134.7	10.0	83.1	70.3	87.9	842.1	2,460.9
1993-94	18,118	1,485.3	6,682	4 1.14	24,800	1,926.3	151.1	31.5	167.7	54.7	108.5	101.5	107.5	6.4	70.3	47.8	48.2	744.0	2,821.5
1993 Dec. qtr	4,449	363.9	1,512	98.6	5,961	462.5	38.9	5.8	64.1	13.2	51.9	31.6	14.1	4.	25.1	6.6	11.3	229.4	730.9
1904 Mar. oft.	4 721	346 7	1.660	109.8	5 881	456.5	38.7	9.1	40.7	13.8	28.6	26.5	40.6	4	11.4	80	5.6	186.5	681.7
June atr	4,917	413.1	1,827	126.1	6.744	539.1	41.1	8.6	29.3	18.5	13.3	20.7	30.0	6.0	4,0	15.9	9,8	151.1	731.4
Sept. qtr	4,850	423.0	1,986	141.9	6,836	565.0	41.5	10.0	30.0	24.0	31.2	32.8	36.0	## ! #6 +	6.8	4.6	8.6	189.5	796.0
Dec. qtr r	4,297	382.6	1,650	119.8	5,947	502.4	45.1	17.6	0.86	20.3	15.7	23.1	16.0	92	10.9	13.7	22.0	178.7	726.2
1995 Mar. qtr	3,566	315.4	1,308	88.9	4,874	404,4	33.9	5.7	17.5	20.6	30.2	17.5	31.1	13	8.6	10.9	29.0	172.3	610.6
						N N	UNDER CONSTRUCTION AT END OF PERIOD	UCTION A	T END OF	PERIOD									
1991-92	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	4.2	34.7	23.7	97.1	\$99.6	1,240.6
1992-93	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
1993-94	7,369	707.3	3,687	263.8	11,056	971.1	71.3	23.9	246.1	25.2	62.7	25.4	94.1	3.3	67.0	26.0	20.5	594.2	1,636.7
1993 Dec. qtr	6,500	587.7	2,912	205.2	9,412	792.9	53.5	14.2	218.7	16.5	60.7	53.4	83.2	4.0	129.6	38.5	36.1	654.9	1,501.4
1994 Mar. otr	7,096	659.4	3,314	235.1	10.410	894.4	61.8	18.2	236.7	20.1	6.60	47.4	85.7	4.2	92.4	37.1	17.9	625.6	1,581.9
June qtr	7,369	707.3	3,687	263.8	11,056	971.1	71.3	23.9	246.1	25.2	62.7	25.4	94.1	3.3	67.0	26.0	20.5	594.2	1,636.7
Sept. qtr	8,146	783.7	3,990	305.9	12,136	1,089.6	74,4	28.5	131.5	36.9	64.0	44.0	109.3	5.1	63.9	27.9	16.1	527.2	1,691.1
Dec. qtr r	7,619	757.0	3,712	288.6	11,331	1,045.6	70.5	35.3	94.6	33.4	59.9	34.1	54.9	3.8	39.8	23.3	29.5	408.6	1,524.7
1995 Mar. qtr	6,921	705.7	3,328	258.4	10,249	964.2	68.3	33.8	58.7	27.1	78.9	32.2	52.1	5.1	36.1	30.6	46.5	401.1	1,433.6
							J	COMPLETED	a									į	
1991-92 1992-93	11,539	892.7 1.064.0	3,377	195.5 343.5	14,916	1.088.2	139.6	21.5	21.5 77.7	19.1	611.6	97.7 76.0	91.6	7.1	49.1 37.9	35.4 40.1	56,4 134.0	1,081.0 882.0	2,308.9
1993-94	16,069	1,284.3	5,770	370.3	21,839	1,654.6	143.4	14.7	106.3	46.5	87.0	110.1	123.0	6.4	95.0	78,8	76.7	744.4	2,542.5
1993 Dec. qu	4,240	350.7	1,485	92.5	5,725	443.2	40.2	9,5	33.5	10.0	21.7	19.8	49.9	1.9	9.8	26.4	23.2	199.1	682.5
1994 Mar. qtr	3,601	280.0	1,204	80.2	4.805	360.2		5.2	25.6	10.2	24.7	32.1	36.9	2	5.1.1	10.6	24.9	222.7	614.6
June qtr	4,619	371.6	1,454	101.3	6,073	472.9		4	21.2	13.2	17.0	44.1	21.6	6	31.1	26.8	9,0	187.1	692.9
Sept. qu Dec. qu r	4,034 4,822	413.3	1,838	132.7	6,660 6,660	452.3 545.9	59.4 50.4	5.1 11.3	77.8	24.2	21.4	32.4	20.8 69.9	1.7	36.2	18.1	8.5	301.5	897.8
1995 Mar. qtr	4,201	370.9	1,670	120.0	5,871	490.9	38.9	7.5	56.6	27.6	11.8	19.9	35.1	0.2	12.9	3.8	12.1	187.5	71.7.2

TABLE 1. SUMMARY OF BUILDING ACTIVITY, WESTERN AUSTRALIA—continued

		×	New residential building	building			!					Value	Value (Sm)						
			Other residential	ntial					:			Non-residential building	nal buildir	50					
	Houses		buildings	,	Total	1	Alterations	:								Enter-			
					,		and					Ocher			tai	tainment and			
Period	Number of dwelling units	Value (Sm)	Number of dwelling units	Value (\$m)	mumoer oj dwelling units	Value (\$m)	residential buildings	Hotels etc.	Shops Factories		Offices p		Educa- fional	Reli- gious I	Health		Miscel- laneous	Total	Total building
						3	VALUE OF WORK DONE DURING PERIOD	K DONE	DURING PI	RIOD									
1001-02	:	871.8	:	227.5	:	1,099.4	127.1	15.3	65.0	17.6	210.9	63.6	101.7	7.3	30.6	30.8	100.2	642.9	1,869.4
1997-93	: :	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
1993-94	: :	1,412.1	•	411.2	:	1,823.2	149.6	21.7	249.1	50.0	101.5	107.9	123.6	6.9	92.5	56.8	57.5	867.4	2,840.2
1993 Dec. qtr	:	355.9	:	94.2	:	450.1	37.6	6.5	61.7	11.7	25.5	32.8	33.8	2.2	29.9	16.4	18.2	238.9	726.5
1004 Mar. att	;	338.4	:	95.9	:	434.3	35.2	5.3	8.99	13.0	28.1	29.0	29.6	2.1	21.8	11.8	10.0	217.4	6989
Ime off		390.2		115.7	:	505.9	39.8	7.0	66.4	15.6	23.9	23.6	29.6	1.5	19.7	10.0	8.0	205.3	750.9
Sent of		392.6	: :	127.4	: :	520.0	42.6	10.6	72.0	18.6	23.0	26.4	35.5	1.9	15.1	10.4	11.2	224.8	787.5
Dec. qtr r	: :	402.B	: :	135.7	; ;	538.5	45.9	6.3	4 &	24.5	26.6	27.3	37.7	13	14.8	15.2	12.9	213.3	797.6
1995 Mar. qtr	:	368.2	:	114.8	;	483.0	39.6	12.3	30.5	20.5	21.2	22.5	23.5	1.9	11.8	5.6	17.4	171.3	693.8
							VALUE OF WORK YET TO BE DONE	VORK YE	TO BE DO	NE									
1991-92	:	214.7	:	94.0	:	308.7	19.1	6.7	25.2	7.8	24.8	19.0	47.6	2.6	50.6	12.2	16.7	183.3	511.2
1992.93	. :	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
1993-94	:	354.3	:	132.0	;	486.3	31.0	13.2	60.1	11.9	30.2	13.7	39.5	1.3	50.9	17.4	9.5	217.6	734.9
1993 Dec. qtr	;	309.7	:	102.3	:	412.0	23.5	6.5	119.0	6.3	38.5	18.0	29.0	25	42.8	14.1	12.1	290.8	726.4
1994 Mar. atr	:	323.2	:	117.7	:	440.9	28.3	10.5	95.8	9.1	40.4	15.2	39.2	1.7	34,9	11.6	8,8	267.3	736.5
June atr	:	354.3	:	132.0	:	486.3	31.0	13.2	60.1	11.9	30.2	13.7	39.5	£.1	20.5	17.4	5 i	217.6	734.9
Sept. of	:	390.5	:	150.0	:	540.5	30.9	12.3	31.0	17.5	39.0	20.8	40.1	2,9	16.2	11.9	7.2	198.9	770.2
Dec. qtr r	:	374.9	:	133.7	:	508.6	31.6	22.0	27.8	13.9	29.6	16.5	17.8	2.1	14.0	10.1	16.2	170.1	710.3
1995 Mar. qtr	;	329.2	:	109.4	:	438.6	28.7	15.8	18.1	14.7	39.2	12.0	26.6	1.6	11.4	11.5	27.9	178.7	646.1

NOTE: The number of self-emitained dwelling units commenced as part of the construction of non-residential building and alterations and additions to existing buildings (including convenients to dwelling units) are excluded from this table. There were 31 such dwelling units commenced in the March quarter 1995.

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		N	New residential building	building								Value (Sm)	(km)						
	House		Other residential	ntia!	Total						,	Non-residential building	tial buildir	<u> </u>					
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 etc.	Shops Factories		t Offices p	Other business premises	Educa- tional	Reii- gious 1	fa fa Health	Enter- tainmens and recrea- tional	Miscel- laneous	Total	Total building
							ت ا	COMMENCED	A										
1991-92	11,921	6.688	2,657	153.7	14,578	1,043.6	117.9	11.1	6.99	19.3	43.6	50.0	30.3	7.7	21.1	9.3	25.9	285.2	1,446.6
1992-93		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
1993-94		1,455.7	5,495	366.1	23,234	1,621.8	150.2	31.5	165.7	53.6	53.1	85.1	43.5	6.4	6.4	27.2	38.8	549.7	2,521.6
1993 Dec. qtr	4,344	356.4	1,359	89.0	5,703	445.3	38.5	8.8	63.5	13.0	17.0	26.3	4.8	2.4	10.5	7.1	10.2	164.2	648.1
1994 Mar. otr	4,130	340.4	1.413	92.3	5,543	432.7	38.5	9.1	40.7	13.8	9.6	17.9	8.6	4.1	71	3.0	3.6	120.5	591.7
June otr	4,845	406.9	1,489	105.8	6,334	512.7	40.9	9.6	29.1	18.1	12.9	20.7	18.5	6.0	4.0	13.7	5.3	133.2	6.989
Sept. qtr	4,630	406.9	1,589	115.9	6,219	522.8	41.4	10.0	29.4	24.0	28.9	28.0	10.3	4, 6, 6	8.2	4.2	5,5	151.7	715.9
Dec. qtr r 1995 Mar. otr	3.470	307.6	1.088	75.6	5,775	383.2	45. E.	5.7	38.1	20.6	10.8	17.5	15.1	C (1	ж Э. 5.8	8.1	1.2.U 6.3	149,0	535.6
							UNDER CONSTRUCTION AT END OF PERIOD	CTION A	I END OF	PERIOD									
1001	A 2006	207.9	1 554	176.4	6 760	5343	50.4	12.0	40.2	111	19.2	35.1	14.8	4.7	16.3	4.0	143	1775	752 1
1001-03	90° r	476.0	1 020	1251	1,000	5 FOX	0.9%	4 4	177.5		173	2.5	13.0	9 10	1 69	16.7	1 D	5 5 5 7	1 00 1
1992-95	9777	4,0,4 5,00 5	1,925	1717	177.7	0113	90 F	, o 6	244.4	240	24.0	24.6	0.54	9 4	1.70	10.7	5 6 8±	431.8	1,515.1
+4-044			702.4	1-717	C+7.04	7.11.7	7.1.6		Ė	î 1	Ç.	ř	t J	j.	0.53	7	1	2	21.11.67
1993 Dec. qtr	6,362	576.5	2,279	158.4	8,641	735.0	53.1	14.2	216.7	16.5	19.1	36.3	20.0	4,0	85.7	14.2	23.4	450.2	1,238.2
1994 Mar. qtr	6.980	650.4	2,708	189.7	889'6	840.1	61.8	18.2	235.0	20.1	21.2	32.1	13.8	4.2	50.3	9.6	14.4	419.0	1,320.9
June qtr	7,278	699.5	2,967	212.1	10,245	911.7	71.2	23.9	244,4	24.9	24.9	24.6	25.4	3.3	26.0	19.3	15.2	431.8	1,414.6
Sept. qtr	7,901	765.0	3,120	241.9	11,021	1,006.9	74.4	28.5	129.5	36.6	31.7	38.7	30.1	5.1	30.7	21.5	11.0	363.5	1,444.7
Dec. qtr 1	7,532	749.7	3,208	255.0	10,740	1,004,7	70.5	35.3	93.6	33.4	26.6	29.0	23.9	с. 8	24.2	22.3	16.8	308.8	1,384.0
1995 Mar. qtr	6,807	696.5	2,876	228.7	9,683	925.1	68.3	33.8	58.5	27.1	34.2	30.1	18.5	5.1	20.9	27.5	13.6	269.3	1,262.7
						·	S	COMPLETED	Q.										
1991-92 1992-93	11.172	869.2 1,033.4	2,815 3,539	164.4	13,987 17,519	1,033.6	139.0 135.7	21.4 18.0	89.8 75.1	19.0	567.9 54.9	31.5 70.7	27.5 34.0	7.1 12.3	27.5 17.5	17.7	20.1 34.2	829.7 375.1	2,002.3
1993-94	15,684	1,254.6	4,403	287.7	20,087	1,542.3	140.0	14.5	105.3	41.0	45.7	82.3	30.6	6.4	91.0	24.6	48.8	490.0	2,172.2
1993 Dec. qtr	4,163	344.5	1,112	70.7	5,275	415.2	40.1	2.9	32.9	9.2	18.3	18.8	6.4	1.9	80. 80.	2.3	17.1	118.5	573.8
1994 Mar. qtr	3,488	271.4	930	61.3	4,418	332.7	31.1	5.2	25.4	10.2	8.2	21.6	15.3	£.	49.1	6.8	13.9	158.1	521.9
June qtr	4,522	364.3	1,230	87.4	5,752	451.7	32.9	₹ 0	21.1	13.2	9.6	29.4	6 , 6	6.1	30.0	4.	4 c	124.9	6095
Sept. qu Dec. qtr r	4,622	398.6	1,342	94.3	5,964	492.8	50.3	11.3	76.0	23.9	17.4	31.2	12.9	1.7	15.6	12.1	10	208.3	751.5
1995 Mar. qtr	4,132	365.0	1,398	102.8	5,530	467.8	38.8	7.5	55.5	27.5	11.3	16.9	21.0	0.2	12.4	3.1	9.5	164.9	5.179

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		~	New residential building	building				•				Vatu	Value (\$m)						
			Other residential	ential		İ						Non-reside	Non-residential building	8w,					
	Houses		buildings		Total		Alterations					4			149	Enter- tainment			
Period	Number of dwelling units	Value (Sm)	Number of dwelling units	Value (\$m)	Number of dwelling units	Value (\$m)	additions to residential buildings	Hotels etc.	Shops	Shops Factories	Offices	Omer business premises	Educa- tional	Reli- gious	Health	and recrea- tional	Miscel- laneous	Total	Total building
						VA	VALUE OF WORK DONE DURING PERIOD	(K DONE I	OURING	PERIOD									
1991-92	:	849.7	;	178.1		1,027.9	126.4	15.1	63.1	17.6	130.1	40.2	30.4	7.3	18.0	10.2	27.5	359.6	1,513.9
1992-93	:	1,070.4	:	232.4	:	1,302.8	137.9	15.1	100.7	42.6 48.4	56.7	62.3 84.6	33.2	12.2	60.3 5.03	23.6	5.0 4 5.04	617.5	2,474.5
1993-94	:	L,364.3	:	57.75	;) (a)		14.7	· ·	-	, <u>r</u>	. 756		;	5	,	5	167.8	679.0
1993 Dec. qtr	:	349.2	:	74.8	;	424.0	6/6	9	200	1	13.3	t.67	D.K	7	9.07	7	9.71	2.01	
1994 Mar. qtr	:	329.6	:	81.9	:	411.4	34.9	5.3	5.99	13.0	11.3	21.2	4.8	2.1	15.1	6.4	6.7	154.0	600.4
June qtr	:	384.6	:	96.1	:	480.7	39.6	7.0	65.8	15.4	15.5	19.1	10,4	1.5	11.7	4 Ö	ν, Φ	156.6	676.9
Sept. qtr	:	381.3	;	102.8	:	484.1	42.5	10.6	71.3	18.5	17.1	24.6	13.5	1.9	10.8	ربر احل ا	7.7	183.5	710.1
Dec. qtr r	:	393,4	:	113.4	:	506.B	45.8	83	43.6	24.4	16.0	24.5	11.6	1.3	4.	13.7	αό Ο (161.8	7145
1995 Mar. qtr	:	362.1	:	101.4	;	463.5	39.5	12.3	30.2	20.5	15.2	21.4	13.6	1.9	9.1	8.3	9.2	141.8	644.8
							VALUE OF WORK YET TO BE DONE	ORK YET	TO BE I	JONE									
1991-92		209.9	,	59.6] 	269.5	19.1	6.7	23.8	7.8	12.0	18.0	7.2	2.6	12.2	ъ.	3.7	96.4	385.0
1992-93	:	252.6	:	59.1	;	311.7	24.2	2.7	133.6	6.4	0.6	12.3	6.2	1.9	15.3	9,9	7.2	201.2	537.2
1993-94	:	350.1	:	108.7	:	458.9	30.9	13.2	59.9	11.7	8.1	13.6	15.5	1.3	8.6	13.2	7.1	153.4	643,2
1993 Dec. qtr	:	303.5	:	83.1	;	386.6	23.4	6.5	118.0	8.3	11.2	14.6	6.4	2.5	17.2	5.3	9.1	1,661	609.1
1994 Mar. qtr	:	319.5	;	95.0	:	4145	28.3	10.5	95.2	9.1	10.4	10.8	7.3	1.7	15.9	4.0	4 7	172.4	615.2
June atr	;	350.1	:	108.7	;	458.9	30.9	13.2	89.9	11.7	8.1	13.6	15.5	1.3	8.6	13.2	[.7	153.4	43.2
Sept. qtr	:	381.4	:	124.7	:	506.2	30.9	12.3	8.8	17.5	20.2	17.6	12.4	2.9	7.9	10.2	4,9	136.8	673.8
Dec. qtr r	:	371.9	:	122.7	:	494.6	31.5	22.0	27.7	13.9	16.5	15.0	7.5	7.1	8 :0	9.4 4.	8.0	130.1	7.959
1995 Mar. qtr	:	324.4	:	98.4	:	422.9	28.7	15.8	17.8	14.7	20.3	11.5	9.4	1.6	8.0	4.6	5.1	113.7	565.2

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

		2,	New residential building	building								Valu	Value (\$m)						
	Houses		Other residential buildings	ıntiai 3	Total							Non-residential building	ntial buildi	l g				1	
Period	Number of dwelling units	Value (Sm)	Number of dwelling units	Value (3m)	Number of dwelling units	Value (\$m)	Alterations and additions to residential buildings	Hoteis efc.	Shops 1	Shops Factories	Offices	Other business premises	Educa- tional	Reli- gious	ta Health	Enter- tainment and recrea- tional	Miscel- laneous	Totai	Tota! building
							"	COMMENCED								!			
1991-92	358	24.3	1,387	79.6	1,745	103.9	0.7	0.2	2.4		24.9	12.3	77.3	ı	18.1	23.8	18.3	177.1	281.6
1992-93	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	1	20.1	8.	44.1	301.2	446.5
1993-94	379	29.6	1,187	75.0	1,566	104.6	1.0	1	2.0	1.1	55.4	16,4	64.0	1	25.4	20.6	4.6	194.3	299.8
:993 Dec. qtr	105	7.5	153	9.7	258	17.2	0.4	I	9'0	0.2	34,9	5.4	5.7	ł	14.6	2.7	1.1	65.2	82.8
1994 Mar. qtr	ጜ	6.3	247	17.5	338	23.8	0.2	1	ı	I	18.8	8.7	30.7	I	I	5.8	1.9	0.99	90.0
June qtr	17	6.2	338	20.2	410	26,4	0.2		0.2	0.3	4.0	I	11.5	1	1	2.2	3.3	17.9	44.5
Sept. qtr	220	16.2	397	26.0	617	42.1	0.1		0.6	1 5	2.3	8.4	25.7		0.7	4.0	9.6 4.0	37.8	80.1 40.9
1995 Mar. qtr	96	7.8	220	13.4	316	21.2	0.1	1	0.4		11.8	1	16.0	ì	0.1	2.8	22.7	53.7	75.0
							UNDER CONSTRUCTION AT END OF PERIOD	UCTION A	T END OF	PERIOD									
1991-92	89	7.3	985	59.1	1.074	66.4	0.1	1	1.8		212.0	4,6	83.5		18.4	18.8	82.9	422.1	488.5
1992-93	6	7.0	905	90	666	66.5	2.4	0.2	8.0	4.6	22.4	11.9	94.8	ı	19.2	40.4	27.1	221.4	290.3
1993-94	8 8	7.8	720	51.7	811	59.5	0.2	!	1,8	0.3	37.8	0.9	68.6	1	41.0	6.7	5.3	162.4	222.0
1003 Dec 25	07.1	-	633	46.8	Ļ	c X	80		-	!	4	110	633	۱ ا	6 44	747		204.8	6196
mh	2-1	•	3	2	:	9	5		1				!		2		į	}	
1994 Mar. qtr	116	9.0	909	45.3	722	54.4	ļ	I	1.6	1	44.8	15.3	71.9	l	42.1	27.5	3.5	206.6	261.0
June qts	91	7,8	57 E	51.7	811	59.5	0.2	1	8.7	0.3	37.8	6.6	68.6		41.0	6.7	en e Vo	162.4	222.0
Sept. 4tr Dec. atr r	245 78	7.3	504	33.6	591 591	40.9	1 1		0.7	0.1	9.55 4.56	3.1 3.1	31.0	!	15.6	1,0	12.8	99,9	140.8
1995 Mar. qtr	114	9.3	452	29.8	566	39.0	0.1	ŀ	0.3	1	7.44	2.0	33.6	1	15.2	3.1	32.9	131.8	170.9
								COMPLETED	 A				:						
1991.92	367	23.5	562	31.1	929	54.6	9.0	0.2	1.6		43.8	66.2	64.1		21.5	17.8	36.2	251.4	306.6
1992-93	388	30.6	1,897	111.2	2,285	141,8	1.3	0.1	2.6	1	258.2	5.4	596	1	20.3	24.0	8.66	506.9	650.0
1993-94	385	29.7	1,367	82.6	1,752	112.4	3.4	0.2	1.0	5.6	41.3	27.8	92.4	1	4.0	54.2	28.0	254.4	370.2
1993 Dec. qtr	π	6.2	373	21.8	450	28.0	0.1	1	0,6	6.0	क्ष स्प	6.0	43.5	ŧ	1.0	24.1	6.1	80.6	108.7
1994 Mar. qtr	113	8.6	274	18.9	387	27.5	0.5	ŀ	0.3	I	16.5	10.5	21.7		1.9	2.7	11.0	64.6	92.6
June atr	76	7.3	224	13.9	321	21.2	0.1	j	ļ	I	7.4	14.7	14.7	I	1.1	72.7	1,4	62.1	83.4
Sept. qtr	99	5,7	233	14.2	299	19.4	0.3	1	4.0	0.1	8.1	0.5	15.0	1	56	0.7	9.6	37.9	57.6
Dec. qtr r	200	14.7	496	38.4	969	53.1	0.1	1	¥,4	0.3	4.0	1.3	57.0	1	20.6	6.0	2.3	93.2	146.4
1995 Mar. qtr	69	5.9	272	17.2	341	23.1	0.1	I	1.2	0.1	5.0	3.0	14.1	1	0.5	0.7	2.6	22.6	45.8

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

		2	New residential building	building								Valu	Value (5m)						
	House		Other residential	ential	Total							Non-residential building	rtial build	guil					
	Number of		Number of		Number of		Alterations and additions to					Other			•	Enter- tainment and			
Period	dwelling units	Value (\$m;)	dwelling units	Value (\$m)	dwelling units	Value (\$m)	residential buildings	Horels etc.	Shops	Factories	ОЩсея	business premises	Educa- tional	Reli- gious	Health	recrea- tional	Miscel- laneous	Total	Total building
						Λ	VALUE OF WORK DONE DURING PERIOD	K DONE	NURUNG	PERIOD									
1991-92		22.1	:	49.4	.	71.5	0.7	0.2	1.8	ı	80.8	23.3	71.2	ı	12.5	20.6	72.7	283.3	355.5
1992-93	:	31.6	:	113.7	:	145.4	2.9	0.2	2.4	4.0	689	6,9	100.7	1	12.2	35.6	43.9	274.8	423.1
1993-94	:	29.8	:	84.1	•	113.9	1,9	I	2.3	1.6	47.3	23.3	9.68	1	32.2	36.1	17.4	249.9	365.7
1993 Dec. qtr	;	6.7	:	19.4	:	26.1	0.3	I	1.2	9.0	12.2	7.4	24.8	ļ	9.1	10.3	5.5	71.1	57.6
1994 Mar. qtr	;	86 0.	:	14,0	:	22.9	0.3	I	0.3	I	16.9	7.8	21.2	I	6.7	7.1	3.3	63.3	86.5
June atr	:	5.5	;	19.7	:	25.2	0.2	I	9,0	0.1	8.5	4.6	19.2	1	8.0	5.4	2.3	48.6	74.0
Sept. qtr	:	11.3	:	24.6	:	35,9	0.2	1	0.7	0.1	5.9	1.9	22.0]	4.3	2.0	3.5	41.3	77.4
Dec. qir r	:	4,6	:	22.3	:	31.6	0.1		6.0	0.1	10.6	13,8	26.1		5,3	٧. -	4.0	51.4	83.1
1995 Mar. qtr	:	6.1	:	13.4	•	19.5	0.1	i	0.3	!	6.0	1.1	6.6	I	2.6	1.4	8.2	29.5	49.1
							VALUE OF WORK YET TO BE DONE	VORK YET	TO BEL	ONE								:	
1991-92	:	4.8	:	34.4	:	39.3	1	i	1.3	1	12.9	1.0	40.3	1	8.5	8.6	13.0	6.98	126.2
1992-93	ï	4.3	:	31.7	:	36.0	9.0	1	9.5	9.0	12.6	6.7	47,4	1	17.4	19.8	13.5	118.7	155.4
1993-94	:	4.2	:	23.3	:	27.5	I	ŀ	0.2	0.2	22.1	0.1	24.0	ł	11.1	4.1	4.5	64.2	91.7
1993 Dec. qtr	:	6.2	:	19.2	:	25.4	0.2	1	6.0	I	27.3	હ. 4	22.7	ł	25.7	89	2.9	91.8	117.3
1994 Mar. qtr	:	3.7	;	7.7.7	:	26.4	1	I	9.0	Ī	30.1	4,4	31.8	I	19.0	7.6	4.1	6.46	121.3
June qtr	:	4.2	;	23.3	:	27.5	I	1	0.2	0.2	22.1	0.1	24.0	1	11.1	4.1	2,4	64.3	61.7
Sept. qtr	:	9.1	:	25.3	:	343	1	I	0.7	0.1	18.7	3.2	27.6	ì	6.8	1.7	2.3	62.1	96.4
Dec. qtr 1	:	3.0	:	11.1	:	14.0	1		0.1		13.1	1.5	10.3		6.0	0.7	8.2	40.0	54.1
1995 Mar. qtr	:	4.8	:	11.0	:	15.8		i	0.2	ı	18.8	0.5	17.1	1	3.4	2.1	22.8	1.59	80.8

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

		SEASONALLI ADJUSTED SERIES										
		House	: <i>\$</i>	1	<u>-</u>							
Period	Privat sector		Total		Privat sector		Total					
	Commenced	Completed	Commenced	Completed	Commenced	Completed	Commenced	Completed				
1993 Dec. qtr	4.370	3,633	4,513	n.a.	5,641	4,648	6,052	5.078				
1994 Mar. gtr	4,532	3,826	4,594	n.a.	6,088	4,885	6,432	5.191				
June qtr	4,715	4,417	4.764	n.a.	6,263	5,60 6	6,607	5,940				
Sept. qtr	4,339	4,329	4,560	п.а.	5,824	5,758	6,326	6.137				
Dec. qtr r	4,276	4,025	4,352	n.a.	5,704	5,253	6,037	5,905				
1995 Mar. qtr	3,817	4,551	3.889	n.a.	5,016	6,131	5,336	6,360				

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

	New re	esidential building		Alterations and	Non-residential bu	ilding	
Period	O Houses	ther residential buildings	Total	additions to residential buildings	Private sector	Total	Total building
1993 Dec. qtr	343.5	88.6	435.3	35.4	149.6	226.0	690.8
1994 Mar. gtr	362.9	104.4	467.9	37.8	169.4	234.9	738.5
June atr	390.7	118.8	511.1	38.5	170.9	214.3	767.6
Sept, qtr	380.8	121.8	496.5	43.7	174.2	212.3	757.1
Dec. qtrr	387.6	127.6	520.0	43.2	144.0	201.9	757.9
1995 Mar. qtr	395.1	125.2	520.8	42.5	156.0	184.4	745.3

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

	New re	esidential building		Alterations and	Non-residential bu		
Period	O Houses	ther residential buildings	Total	additions to residential buildings	Private sector	Total	Total building
1991-92	1,037.5	227.6	1,265.1	133.9	277.6	450.0	1,849.0
1992-93	1,266.1	336.9	1,603.0	158.5	530.3	825.6	2,587.1
1993-94	1,611.7	433.9	2,045.6	162.4	536,8	726.6	2,934.6
1993 Dec. qtr	396.9	97.3	494.2	42.0	160.5	224.2	760.4
1994 Mar. gtr	375.2	108,0	483.2	41.5	117.6	182.0	706.7
June qtr	442.7	123.4	566.1	43.6	129.6	147.0	756.7
Sept. qtr	445.4	138.5	583.9	42.9	147.1	183.8	810.6
Dec. qtr r	396.8	116.4	513.2	46.6	144.1	172.8	732.6
1995 Мат. qtr	325.9	86.3	412.2	34.8	114.5	166.3	613.3

⁽a) See paragraphs 24 and 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 7. VALUE OF BUILDING WORK DONE, AT AVERAGE 1989-90 PRICES (a), WESTERN AUSTRALIA ORIGINAL AND SEASONALLY ADJUSTED SERIES

			(\$ million)	_			
	New res	idential building		Alterations and	Non-residential bu	ilding	
Period	Other residential Houses buildings		Total	additions to — residential huildings	Private sector	Total	Total building
			ORIGINAI				
1991-92	986.1	219.6	1,205.7	143.8	344.0	614.9	1,964.4
1992-93	1,228.5	337.5	1,566.0	156.8	429.6	693.6	2,416.4
1993-94	1,530.8	402.0	1,932.8	162.2	594.0	834.5	2,929.5
1993 Dec. qtr	387.3	92.1	479.4	40.9	161.5	229.9	750.2
1994 Mar, qtr	366.3	93.7	460.0	38.1	148.1	209.0	707.1
June qtr	417.7	112.9	530,6	42.6	150.4	197.1	770.3
Sept. qtr	413.3	123.7	537.0	44.9	175.9	215.5	797.4
Dec. qtr r	418.3	131.1	549.4	47.7	154.4	203.4	800.5
1995 Mar. qtr	380.4	110.5	490.9	40.9	134.9	163.0	694.8
		SEA	SONALLY AL	DJUSTED			
1993 Dec. qtr	373.8	86.6	463.7	38.5	144.0	217.5	713,3
1994 Mar. qtr	392.6	102.1	495.6	40.9	162.9	225.9	760.3
June qtr	418.3	115.9	536.1	41.2	164.1	205.8	787.4
Sept. qtr	400.9	118.2	512.7	46.0	166.9	203.5	766. 7
Dec. qtr r	402.6	123.3	530.6	44.9	137.4	192.6	760.7
1995 Mar. qtr	408.3	120.5	529.3	43.9	148.4	175.5	746.3

⁽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 8. NUMBER OF DWELLING UNITS BY OWNERSHIP, CLASS OF BUILDER AND STAGE OF CONSTRUCTION, WESTERN AUSTRALIA

		Pro	vate sector			Public sector			Total		
Period	Contractor- built	Houses Other	Total	Other residential buildings	Total	Houses	Other residential buildings	Total	Houses	Other residential buildings	Tota
··				COM	MENCED						•
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	12,704	1,911	14,615	3,955	18.570	396	1,823	2,219	15,011	5,778	20,789
1993-94	15,718	2,021	17,739	5,495	23,234	379	1,187	1,566	18,118	6,682	24,800
1993 Dec. qtr	3,722	622	4,344	1,359	5,703	105	153	258	4,449	1.512	5,961
1994 Mar. qtr	3,684	446	4,130	1.413	5,543	91	247	338	4,221	1,660	5,88.
June qtr	4,434	411	4,845	1,489	6,334	72	338	410	4,917	1,827	6,74
Sept. qtr	4,287	343	4,630	1,589	6,219	220	397	617	4,850	1,986	6,830
Dec. qtr r	3,684	571	4,255	1,520	5,775	42	130	172	4,297	1,650	5,941
1995 Mar. qtr	3,087	382	3,470	1,088	4,558	96	220	316	3,566	1.308	4.87
		ι	INDER C	ONSTRUCT	ION AT E	ND OF PI	ERIOD				
1991-92	2,800	1,906	4,706	1,554	6,260	89	985	1,074	4,795	2,539	7,334
1992-93	3,470	1,828	5,298	1,929	7,227	97	902	999	5,395	2,831	8,226
1993-94	5,355	1,922	7,278	2,967	10,245	91	720	811	7,369	3,687	11,056
1993 Dec. qtr	4,352	2,010	6,362	2,279	8,641	138	633	<i>7</i> 71	6,500	2,912	9,412
1994 Ma r. qtr	4,913	2,067	6,980	2,708	9,688	116	606	722	7,096	3,314	10,410
June qtr	5,355	1,922	7,278	2,967	10,245	91	720	611	7,369	3,687	11,050
Sept. qtr	6,149	1,752	7,901	3,120	11,021	245	870	1,115	8,146	3,990	12,130
Dec. qtr r	5,637	1,894	7,532	3,208	10,740	87	504	591	7,619	3,712	11,331
1995 M ar, qtr	5,031	1,776	6,807	2,876	9,683	114	452	566	6,921	3,328	10,249
	···			COM	PLETED						
1991-92	9,398	1,774	11,172	2,815	13,987	367	562	929	11,539	3,377	14,916
1992-93	12,053	1,927	13,980	3,539	17,519	388	1,897	2,285	14,368	5,436	19,804
1993-94	13,837	1,847	15,684	4,403	20,087	385	1,367	1,752	16,069	5,770	21,839
1993 Dec. qtr	3,633	531,	4,163	1,112	5,275	77	373	4 50	4,240	1,485	5,725
1994 Mar. qtr	3,122	366	3,488	930	4.418	113	274	387	3,601	1,204	4,805
June qtr	3,966	5 5 6	4,522	1,230	5,752	97	224	321	4,619	1.454	6,073
Sept. qtr	3,457	511	3,968	1,412	5,380	66	233	299	4.034	1,645	5,679
Dec. qtr r	4,232	390	4,622	1,342	5,964	200	496	696	4,822	1,836	6,660
1995 Mar. qtr	3,643	489	4,132	1,398	5,530	69	272	341	4,201	1,670	5,871

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

		Comm	enced		Under	constructio	n at end of pe	riod	Completed			
Period	Less than \$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	Less than \$40,000	\$40,000 to \$59,999	\$60,000 and over	Total
					NUMBI	ER						
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
1993-94	276	4,391	11,051	15,718	165	973	4,217	5,355	222	4,312	9,303	13,837
1993 Dec. qtr	49	921	2,752	3,722	36	845	3,471	4,352	87	1,159	2,386	3,633
1994 Mar. qtr	51	1,061	2,572	3,684	65	1,048	3,800	4,913	47	858	2,218	3,122
June qtr	151	1,062	3,222	4,434	165	973	4,217	5,355	38	1,137	2,792	3,966
Sept. qtr	113	854	3,320	4,287	100	1,082	4,966	6,149	115	846	2,495	3,457
Dec. qtr r	75	754	2,855	3,684	63	692	4.683	5,637	88	1,007	3,137	4,232
1995 M ar, qtr	_	668	2,419	3,087		757	4,274	5,031	37	803	2,803	3,643
					VALUE (\$nı)						
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
1993-94	9.3	231.4	1,050.0	1,290.7	5.9	51.6	479.1	536.5	7.2	225.5	869.4	1,102.1
1993 Dec. qtr	1.4	48.5	259.3	309.3	1.1	44.9	373.3	419.4	2.8	60,6	232.9	296.2
1994 Mar. qtr	1.6	56.6	241.3	299.5	2,0	56.2	419.7	477.8	1.7	45.2	196.9	243.8
June qtr	5.3	55,6	312.5	373.5	5.9	51.6	479.1	536.5	1.0	59.7	257.5	318.2
Sept. qtr	4.3	44.7	326.9	375.9	3.8	57,2	557.6	618.6	4.0	43.8	249.2	297.1
Dec. qtr f	2.4	39.8	283.4	325.5	2.0	47.2	533.6	582.8	3.2	53.7	311.2	368.1
1995 Mar. qtr	_	34.8	238.B	273.6	_	39.8	499.9	539.6	1.3	42.1	274.5	317.9

TABLE 10. SUMMARY OF BUILDING ACTIVITY, WESTERN AUSTRALIA RELATIVE STANDARD ERRORS (PER CENT) MARCH QUARTER 1995

		New residential	building		Value	
	Houses		Total Number of		Alterations and additions	
Ownership and stage			dwelling		to residential	Total
of construction	Number	Value	units	Value	buildings	building
	PF	UVATE SECTO)R			
Commenced	3.9	4.3	2.9	3.4	5.9	2.5
Under construction at end of period	3.0	3.1	2.1	2.3	5,7	1.7
Completed	4,4	4.9	3.3	3.8	9.4	2.7
Value of work done		2.7		2.1	5.7	1.5
Value of work yet to be done		3.8	••	2.9	6.6	2.2
	TOTAL PRIVA	ATE AND PUB	LIC SECTORS		· · · · · · · · · · · · · · · · · · ·	
Commenced	3.8	4.1	2.7	3.2	5.9	2.2
Under construction at end of period	3.0	3.1	2.0	2.2	5.7	1.5
Completed	4.3	4.8	3.1	3.6	9.4	2.5
Value of work done		2.6	• •	2.0	5.7	1.4
Value of work yet to be done	• •	3.7		2.8	6.6	1.9

EXPLANATORY NOTES

Introduction

This publication contains detailed results from the quarterly Building Activity Survey. Users should note that data for the latest quarter is subject to revision.

- 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. Prior to the September quarter 1990, the cut-off for inclusion of non-residential building jobs (both new and alterations and additions) was \$30,000 or more and prior to the September quarter 1985 it was \$10,000 or more. Care should be taken in interpreting data for specific classes of non-residential building.
- 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/Territory and Australia levels with the exception of the Northern Territory. However, dwelling unit commencement data for regions below State level are shown in the monthly series of dwelling unit commencements compiled by State offices of the ABS. 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 (e.g. 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 (e.g. 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 when 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 landscaping. Site preparation costs are included. Where building jobs proceed over several quarters, the anticipated completion value reported on the re-

- turn 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 up to the end of the period on building jobs commenced but not completed.

Building classification

- 15. 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.
- 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.
- 18. 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, rnaisonettes.
 - (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 areades.
- (e) Factories. Includes paper mills, oil refinery buildings, brickworks, foundries, powerhouses, 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.
- (i) 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.
- (l) 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

- 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

- Seasonally adjusted building statistics are shown in Tables 4, 5 and 7. In the seasonally adjusted 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 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),
- 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 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.

Estimates at constant prices

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).
- The factors used to seasonally adjust the constant price series are identical to those used to adjust the corresponding current price series.

Unpublished data and related publications

- 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 elerically extracted tabulation. Inquiries should be made to the contact shown at the front of this publication.
- Users may also wish to refer to the following building and construction publications which are available on request:

Building Approvals, Australia (873-1.0) - monthly (\$13.50)

Building Approvals, Western Australia (8731.5) - monthly (\$12.00)

Dwelling Unit Commencements Reported by Approving Authorities, Western Australia (8741.5) - monthly (\$13.00)

Building Activity, Australia: Dwelling Unit Commencements, Preliminary (8750.0) - quarterly (\$11.00)

Engineering Construction Activity, Australia (8762.0) quarterly (\$11.00)

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.

Symbols and other usages

not applicable

nil or rounded to zero

figure or series revised since previous issue

preliminary – series subject to revision p

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

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ISSN 0728-4055