

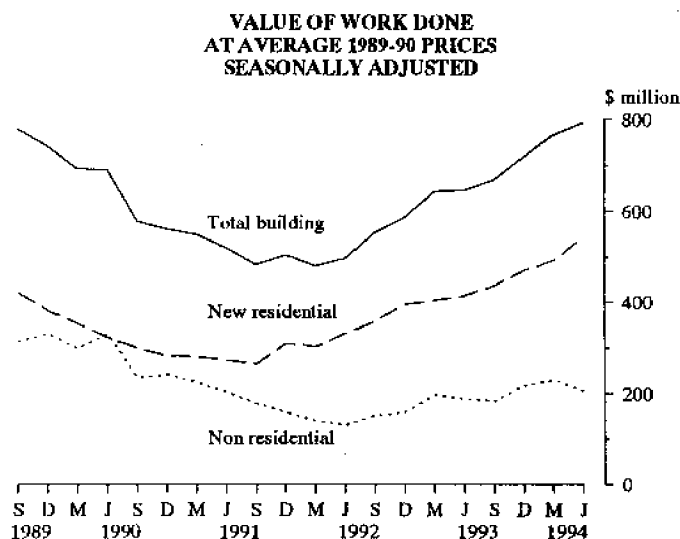
**BUILDING ACTIVITY, WESTERN AUSTRALIA
JUNE QUARTER 1994**

SUMMARY OF FINDINGS

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

	Percentage change on	
	Mar. quarter 1994	June quarter 1993
New residential building	10.5	31.7
Alterations and additions to residential buildings	-3.1	-3.6
Non-residential building	-13.6	5.8
Total building	2.5	21.8

- Expressed in seasonally adjusted average 1989-90 prices the total value of building work done for the June quarter 1994 was \$786.1 million, a record since the statistical series began with the September quarter 1980. This was an increase of 2.5% over the March quarter figure of \$766.6 million and the ninth successive increase in this series.
- The value of work done on new residential building rose by \$51.5 million or 10.5% to \$544.2 million for the June quarter 1994. This was the third successive record level for the series which began with the September quarter 1980 and the ninth successive increase.
- However, work done on non-residential building was \$200.1 million, down \$31.6 million or 13.6% on the March quarter.



INQUIRIES

- for more information about statistics in this publication and the availability of related unpublished statistics, contact Colin Speechley on Adelaide (08) 237 7495 or any ABS State Office.
- for information about other ABS statistics and services please refer to the back of this publication.

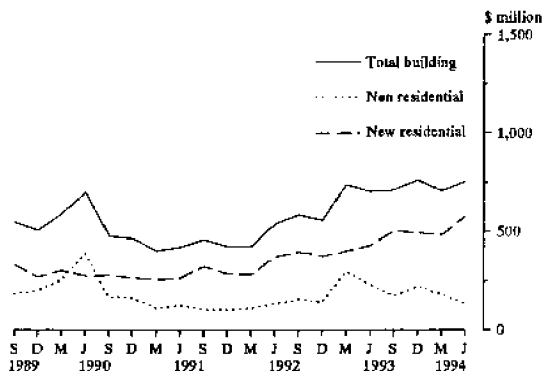
SUMMARY OF FINDINGS – continued

Value of building work commenced at average 1989–90 prices

	Percentage change on	
	Mar. quarter 1994	June quarter 1993
New residential building	19.3	34.1
Alterations and additions to residential buildings	4.1	1.2
Non-residential building	-26.8	-42.5
Total building	6.5	6.9

- Expressed in average 1989–90 prices (but not seasonally adjusted) the total value of building work commenced during the June quarter 1994 was \$753.2 million. This was up \$46.2 million or 6.5% on the previous quarter.
- The value of new residential building commenced was up markedly by \$93.4 million or 19.3% to \$576.6 million, a record for the series which began with the September quarter 1969. Commencements of houses were up by 20.3% to a record level of \$451.3 million for the June quarter 1994 while other residential buildings were up 16.0% to \$125.3 million, the highest level since the December quarter 1981. Finally, residential alterations and additions rose to \$43.2 million, again a record since the beginning of the series with the September quarter 1973.
- However, non-residential commencements fell by \$48.9 million or 26.8% to \$133.4 million, the lowest for 9 quarters and due entirely to a sharp decrease in public sector commencements.

VALUE OF WORK COMMENCED AT AVERAGE 1989-90 PRICES



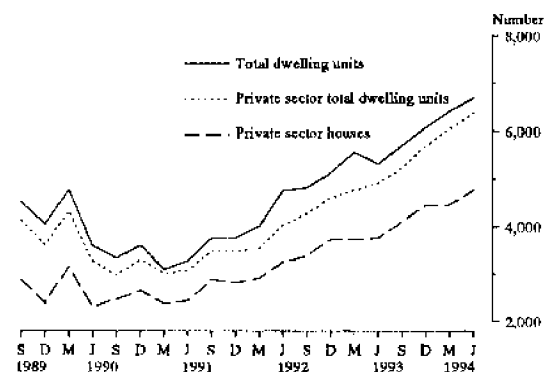
- For the year 1993–94, the total value of work commenced was \$2,932.1 million, up 13.3% on the previous year. This increase was due to a rise of \$453.2 million or 28.3% in new residential building commencements to \$2,056.5 million with the increase in both houses and other residential buildings being almost proportional. On the other hand the level of non-residential building commencements fell by \$112.0 million to \$713.6 million.

Number of dwelling units commenced, seasonally adjusted

	Percentage change on	
	Mar. quarter 1994	June quarter 1993
Private sector houses	7.1	26.8
Private sector dwelling units	5.4	29.3
Total dwelling units	4.4	26.0

- In seasonally adjusted terms the estimate of the total number of dwelling units commenced during the June quarter 1994 was 6,703 which was 4.4% more than the previous quarter and the most for 5 years.
- Commencements of private sector houses rose by 7.1% during the June quarter 1994 to 4,777, the most since the March quarter 1989.

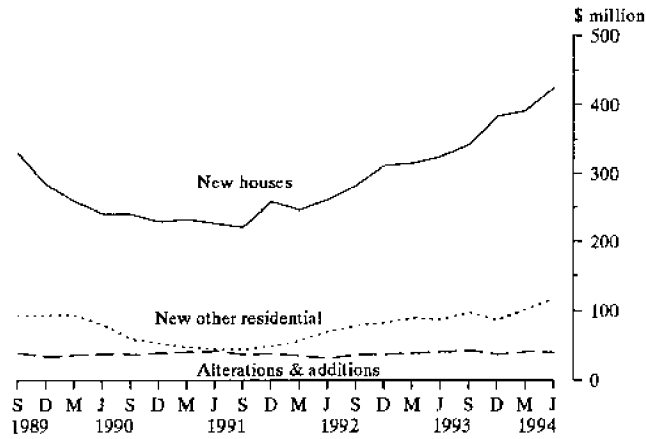
NEW DWELLING UNITS COMMENCED SEASONALLY ADJUSTED



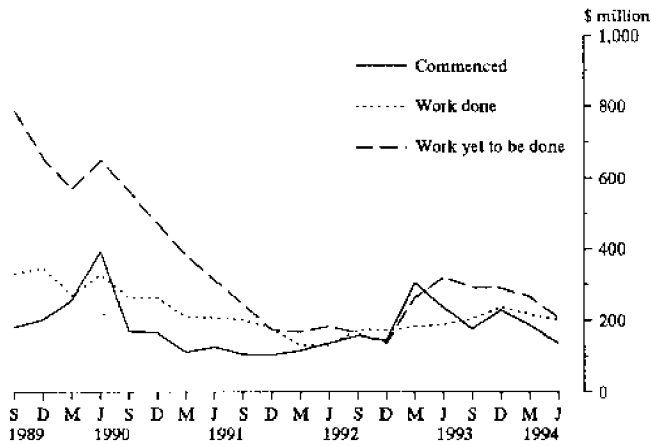
Original unadjusted data

- The total value of building work commenced (unadjusted, at current prices) during the June quarter 1994 was \$725.3 million which represents a 6.4% increase on the previous quarter. Of this, \$548.0 million was for new residential building resulting in 6,823 dwelling units.
- The total value of work done during the June quarter 1994 rose \$62.8 million to \$749.7 million while the value of work yet to be done on jobs under construction at the end of June 1994 decreased by \$7.0 million to \$729.5 million.
- For the year 1993–94, the total value of work commenced was \$2,815.4 million which was \$354.5 million or 14.4% higher than for 1992–93. The increase was entirely due to a rise of \$459.3 million to \$1,935.2 million in the value of commencements of new residential buildings involving the construction of 24,879 dwelling units.

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



VALUE OF NON-RESIDENTIAL BUILDING



VALUE OF NON-RESIDENTIAL WORK DONE

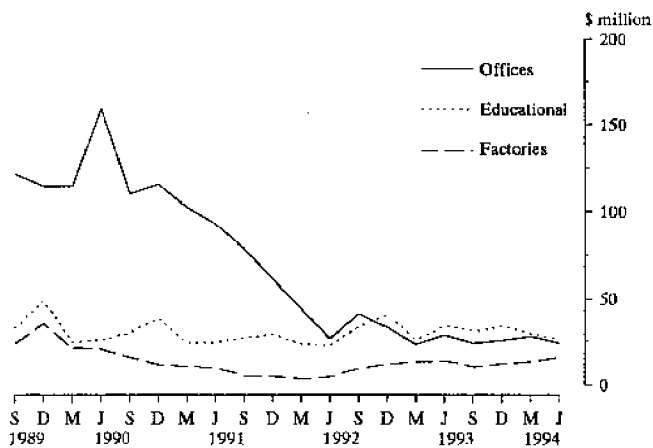


TABLE I. SUMMARY OF BUILDING ACTIVITY, WESTERN AUSTRALIA

Period	New residential building				Non-residential building										Total building					
	Houses		Other residential buildings		Total		Value (\$m)													
	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 etc.	Shops	Factories	Offices	Business premises	Other	Educational		Religious	Health	Entertainment and recreational	Miscellaneous	Total
COMMENCED																				
1991-92	12,279	914.1	4,044	233.3	16,323	1,147.4	118.6	11.3	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	18,183	1,492.8	6,696	442.4	24,879	1,935.2	150.7	30.4	166.7	54.3	108.4	100.7	96.5	6.4	70.3	47.7	48.2	729.5	2,815.4	
1993 Mar. qtr	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	0.8	45.4	20.5	30.1	303.5	710.0	
June qtr	3,978	312.1	1,441	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	
Sept. qtr	4,531	361.7	1,683	106.5	6,214	468.2	32.4	6.9	33.6	9.3	14.7	22.6	22.8	1.6	29.7	13.2	22.6	177.0	677.6	
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	2.4	25.1	9.9	11.3	229.4	730.9	
1994 Mar. qtr	4,221	346.7	1,660	109.8	5,881	456.5	38.7	9.1	40.7	13.8	28.6	26.5	40.6	1.4	11.4	8.8	5.6	186.5	681.7	
June qtr	4,982	420.6	1,841	127.4	6,823	548.0	40.7	8.7	28.2	18.1	13.2	19.9	19.1	0.9	4.0	15.9	8.6	136.6	725.3	
UNDER CONSTRUCTION AT 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	599.6	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	7,553	722.5	3,714	266.1	11,267	988.7	72.0	23.0	245.4	25.3	62.8	25.4	84.0	3.3	67.0	26.0	20.5	582.6	1,643.3	
1993 Mar. qtr	5,630	489.2	3,166	239.9	8,796	729.1	58.3	4.7	124.9	23.4	49.2	23.6	88.1	6.6	67.1	47.3	61.6	496.6	1,284.0	
June qtr	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	
Sept. qtr	6,292	569.8	2,885	196.5	9,177	766.3	53.5	10.8	187.6	13.2	30.7	41.6	117.1	3.7	108.2	55.5	48.2	616.6	1,436.4	
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. qtr	7,096	659.4	3,314	235.1	10,410	894.4	61.8	18.2	236.7	20.1	66.0	47.4	85.7	4.2	92.4	37.1	17.9	625.6	1,581.9	
June qtr	7,553	722.5	3,714	266.1	11,267	988.7	72.0	23.0	245.4	25.3	62.8	25.4	84.0	3.3	67.0	26.0	20.5	582.6	1,643.3	
COMPLETED																				
1991-92	11,539	892.7	3,377	195.5	14,916	1,088.2	139.6	21.6	91.5	19.1	611.6	97.7	91.6	7.1	49.1	35.4	56.4	1,081.0	2,308.9	
1992-93	14,368	1,064.0	5,436	343.5	19,804	1,407.5	137.0	18.0	77.7	42.3	313.2	76.0	130.5	12.3	37.9	40.1	134.0	882.0	2,426.5	
1993-94	15,962	1,277.6	5,757	369.3	21,719	1,646.9	142.3	14.5	106.0	46.1	86.8	109.3	122.1	6.4	95.0	78.7	76.7	741.6	2,530.9	
1993 Mar. qtr	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	
June qtr	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	
Sept. qtr	3,609	282.0	1,627	96.3	5,236	378.3	38.6	2.5	25.9	13.1	23.5	14.1	14.5	1.3	3.1	15.0	22.6	135.5	552.5	
Dec. qtr	4,240	350.7	1,485	92.5	5,725	443.2	40.2	2.9	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	31.7	5.2	25.6	10.2	24.7	32.1	36.9	1.2	51.1	10.6	24.9	222.7	614.6	
June qtr	4,513	364.9	1,441	100.3	5,954	465.2	31.8	3.9	20.9	12.8	16.8	43.4	20.7	1.9	31.1	26.8	6.0	184.3	681.3	

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

Period	New residential building				Non-residential building														
	Houses		Other residential buildings		Total		Value (\$m)												
	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 etc.	Shops	Factories	Offices	Other business premises	Educational	Religious	Health	Entertainment and recreational	Miscellaneous	Total building	
							VALUE OF WORK DONE DURING PERIOD												
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	30.6	30.8	100.2	642.9	1,869.4
1992-93	..	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	..	1,416.2	..	410.5	..	1,826.7	149.4	21.3	248.3	49.8	101.3	107.4	120.1	6.9	93.4	56.7	57.5	862.9	2,839.0
1993 Mar. qtr	..	265.0	..	83.9	..	348.9	32.9	2.9	17.4	13.1	23.3	17.3	26.1	3.7	33.8	17.6	29.3	184.4	566.3
June qtr	..	292.3	..	85.2	..	377.6	40.0	2.2	34.1	13.2	28.6	16.0	33.8	2.2	19.5	21.2	18.1	189.0	606.6
Sept. qtr	..	327.5	..	105.4	..	432.9	37.0	2.9	54.1	9.7	23.9	22.5	30.6	1.1	21.1	18.6	21.3	205.9	675.9
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
1994 Mar. qtr	..	338.4	..	95.9	..	434.3	35.2	5.3	66.8	13.0	28.1	29.0	29.6	2.1	21.8	11.8	10.0	217.4	686.9
June qtr	..	394.3	..	115.1	..	509.4	39.6	6.7	65.7	15.4	23.8	23.1	26.1	1.5	20.6	9.9	8.0	200.7	749.7
							VALUE OF WORK YET TO BE DONE												
1991-92	..	214.7	..	94.0	..	308.7	19.1	6.7	25.2	7.8	24.8	19.0	47.6	2.6	20.6	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	..	356.9	..	134.0	..	491.0	30.7	12.5	59.8	11.7	30.2	13.5	32.1	1.3	20.0	17.3	9.5	207.9	729.5
1993 Mar. qtr	..	232.3	..	93.1	..	325.4	24.5	2.2	98.6	9.3	23.8	11.8	53.1	1.1	22.3	20.4	22.2	264.6	614.5
June qtr	..	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
Sept. qtr	..	296.8	..	95.2	..	391.9	20.9	6.7	116.1	6.6	12.3	19.3	46.8	2.5	41.5	21.2	19.2	292.2	705.1
Dec. qtr	..	309.7	..	102.3	..	412.0	23.5	6.5	119.0	8.3	38.5	18.0	29.0	2.5	42.8	14.1	12.1	290.8	726.4
1994 Mar. qtr	..	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 qtr	..	356.9	..	134.0	..	491.0	30.7	12.5	59.8	11.7	30.2	13.5	32.1	1.3	20.0	17.3	9.5	207.9	729.5

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 19 such dwelling units commenced in the June quarter 1994.

TABLE 2. SUMMARY OF PRIVATE SECTOR BUILDING ACTIVITY, WESTERN AUSTRALIA

Period	New residential building										Non-residential building										Total building
	Houses					Other residential buildings					Total					Value (\$m)					
	Number of dwelling units	Value (\$m)	Number of dwelling units	Value (\$m)	Number of dwelling units	Value (\$m)	Alterations and additions to residential buildings	Houses etc.	Shops	Factories	Offices	Other business premises	Educational	Religious	Health	Entertainment and recreational	Miscellaneous				
COMMENCED																					
1991-92	11,921	889.9	2,657	153.7	14,578	1,043.6	117.9	11.1	66.9	19.3	43.6	50.0	30.3	7.7	21.1	9.3	25.9	285.2	1,446.6		
1992-93	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		
1993-94	17,804	1,463.2	5,511	367.5	23,315	1,830.6	149.7	30.4	164.7	53.2	53.0	84.3	36.7	6.4	44.9	27.1	38.8	539.4	2,519.7		
1993 Mar. qtr	3,479	268.2	910	53.4	4,389	321.6	33.3	2.0	101.4	10.1	8.9	12.6	6.7	0.8	44.9	7.3	5.3	200.0	554.9		
June qtr	3,879	304.2	1,084	66.5	4,963	370.7	37.9	2.6	68.9	10.1	12.1	17.8	6.3	1.9	9.6	3.0	8.9	141.2	549.7		
Sept. qtr	4,420	352.0	1,234	79.0	5,654	431.0	32.2	6.9	32.5	8.7	13.4	20.3	6.7	1.6	18.9	3.3	19.6	131.8	595.0		
Dec. qtr	4,344	356.4	1,359	89.0	5,703	445.3	38.5	5.8	63.5	13.0	17.0	26.3	8.4	2.4	10.5	7.1	10.2	164.2	648.1		
1994 Mar. qtr	4,130	340.4	1,413	92.3	5,543	432.7	38.5	9.1	40.7	13.8	9.8	17.9	9.8	1.4	11.4	3.0	3.6	120.5	591.7		
June qtr	4,910	414.4	1,505	107.2	6,415	521.6	40.5	8.7	28.1	17.7	12.8	19.9	11.7	0.9	4.0	13.7	5.3	122.9	685.0		
UNDER CONSTRUCTION AT END OF PERIOD																					
1991-92	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	177.5	752.1		
1992-93	5,298	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		
1993-94	7,458	714.6	2,996	214.4	10,454	929.0	71.9	23.0	243.6	24.9	24.9	24.6	19.5	3.3	26.0	19.3	15.2	424.3	1,425.2		
1993 Mar. qtr	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	6.6	59.3	16.3	23.2	300.5	993.2		
June qtr	5,298	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		
Sept. qtr	6,182	559.9	2,032	137.6	8,214	697.5	53.4	10.8	185.6	12.6	21.1	29.0	17.8	3.7	78.1	9.8	30.4	398.9	1,149.8		
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	9,688	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	7,458	714.6	2,996	214.4	10,454	929.0	71.9	23.0	243.6	24.9	24.9	24.6	19.5	3.3	26.0	19.3	15.2	424.3	1,425.2		
COMPLETED																					
1991-92	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	2,002.3		
1992-93	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	17.5	16.1	34.2	375.1	1,776.5		
1993-94	15,581	1,248.0	4,390	286.7	19,971	1,534.7	138.9	14.4	105.0	40.6	45.5	81.6	29.7	6.4	91.0	24.6	48.8	487.3	2,160.9		
1993 Mar. qtr	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	392.2		
June qtr	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	538.8		
Sept. qtr	3,511	274.4	1,131	68.3	4,642	342.7	36.0	2.3	25.9	8.4	9.6	12.4	2.0	1.3	3.1	10.2	13.1	88.4	467.0		
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	8.8	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	1.2	49.1	8.0	13.9	158.1	521.9		
June qtr	4,420	357.8	1,217	86.4	5,637	444.2	31.7	3.9	20.8	12.7	9.4	28.7	6.0	1.9	30.0	4.1	4.6	122.2	598.2		

TABLE 2. SUMMARY OF PRIVATE SECTOR BUILDING ACTIVITY, WESTERN AUSTRALIA—continued

Period	New residential building				Non-residential building														
	Houses		Other residential buildings		Alterations and additions to residential buildings					Other non-residential building									
	Number of dwelling units	Value (\$m)	Number of dwelling units	Value (\$m)	Number of dwelling units	Value (\$m)	Hotels etc.	Shops	Factories	Offices	Other business premises	Ethical	Recreational	Health	Entertainment and recreational	Miscellaneous	Total building		
VALUE OF WORK DONE DURING 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	56.7	62.3	33.2	12.2	60.3	23.6	40.3	447.0	1,887.8
1993-94	..	1,386.4	..	326.3	..	1,712.7	147.5	21.3	246.0	48.2	54.1	84.0	32.5	6.9	61.2	20.6	40.1	615.0	2,475.2
1993 Mar. qtr	..	256.4	..	55.5	..	311.8	31.7	2.9	17.3	11.1	11.7	15.1	7.1	3.7	32.7	7.5	12.5	121.7	465.2
June qtr	..	282.6	..	63.0	..	345.7	38.9	2.1	33.9	11.2	12.0	12.3	8.5	2.2	16.9	5.2	7.2	111.6	496.1
Sept. qtr	..	318.9	..	74.3	..	393.2	35.9	2.9	53.9	8.9	14.3	18.9	6.2	1.1	12.7	5.2	15.0	139.1	568.2
Dec. qtr	..	349.2	..	74.8	..	424.0	37.3	6.5	60.5	11.1	13.3	25.4	9.0	2.2	20.8	6.2	12.8	167.8	629.0
1994 Mar. qtr	..	329.6	..	81.9	..	411.4	34.9	5.3	66.5	13.0	11.2	21.2	8.4	2.1	15.1	4.7	6.7	154.0	600.4
June qtr	..	388.7	..	95.4	..	484.1	39.4	6.7	65.1	15.2	15.3	18.6	8.9	1.5	12.6	4.6	5.6	154.1	677.6
VALUE OF WORK YET TO BE DONE																			
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	2.4	3.7	96.4	385.0
1992-93	..	252.6	..	59.1	..	311.7	24.2	2.7	133.6	6.4	9.0	12.3	6.2	1.9	15.3	6.6	7.2	201.2	537.2
1993-94	..	352.8	..	110.8	..	463.5	30.7	12.5	59.6	11.5	8.1	13.3	10.2	1.3	8.9	13.2	7.1	145.8	640.0
1993 Mar. qtr	..	226.2	..	59.0	..	285.2	23.5	2.2	98.6	7.4	8.7	6.8	6.5	1.1	22.3	7.5	5.1	166.0	474.7
June qtr	..	252.6	..	59.1	..	311.7	24.2	2.7	133.6	6.4	9.0	12.3	6.2	1.9	15.3	6.6	7.2	201.2	537.2
Sept. qtr	..	291.4	..	66.2	..	357.6	20.9	6.7	114.6	6.3	8.1	13.8	6.8	2.5	21.7	4.8	11.8	197.0	575.5
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	199.1	609.1
1994 Mar. qtr	..	319.5	..	95.0	..	414.5	28.3	10.5	95.2	9.1	10.4	10.8	7.3	1.7	15.9	4.0	7.4	172.4	615.2
June qtr	..	352.8	..	110.8	..	463.5	30.7	12.5	59.6	11.5	8.1	13.3	10.2	1.3	8.9	13.2	7.1	145.8	640.0

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

Period	New residential building				Non-residential building												Total building		
	Houses				Other residential buildings				Total				Value (\$m)						
	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 etc.	Shops	Factories	Offices	Other business premises	Educational	Religious	Health	Entertainment and recreational		Miscellaneous	Total
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	—	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	—	20.1	44.8	44.1	301.2	446.5
1993-94	379	29.6	1,185	75.0	1,564	104.6	1.0	—	2.0	1.1	55.4	16.4	59.8	—	25.4	20.6	9.4	190.1	295.7
1993 Mar. qtr	172	10.9	548	38.8	720	49.8	1.9	—	—	3.9	9.4	6.3	45.6	—	0.5	13.1	24.8	103.5	155.2
June qtr	99	7.9	357	19.8	456	27.7	1.0	0.2	0.8	0.7	14.1	5.4	26.0	—	19.3	21.9	7.0	95.4	124.0
Sept. qtr	111	9.6	449	27.6	560	37.2	0.2	—	1.2	0.6	1.3	2.3	16.1	—	10.8	9.9	3.0	45.2	82.5
Dec. qtr	105	7.5	153	9.7	258	17.2	0.4	—	0.6	0.2	34.9	5.4	5.7	—	14.6	2.7	1.1	65.2	82.8
1994 Mar. qtr	91	6.3	247	17.5	338	23.8	0.2	—	—	—	18.8	8.7	30.7	—	—	5.8	1.9	66.0	90.0
June qtr	72	6.2	336	20.2	408	26.4	0.2	—	0.2	0.3	0.4	—	7.3	—	—	2.2	3.3	13.7	40.3
UNDER CONSTRUCTION AT END OF PERIOD																			
1991-92	89	7.3	985	59.1	1,074	66.4	0.1	—	1.8	—	212.0	4.6	83.5	—	18.4	18.8	82.9	422.1	488.5
1992-93	97	7.8	902	58.6	999	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
1993-94	95	8.0	718	51.7	813	59.7	0.2	—	1.8	0.3	37.8	0.9	64.5	—	41.0	6.7	5.3	158.3	218.2
1993 Mar. qtr	175	13.3	1,146	79.8	1,321	93.1	1.6	—	—	3.9	32.2	7.4	75.3	—	7.9	31.0	38.4	196.1	290.7
June qtr	97	7.8	902	58.6	999	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
Sept. qtr	110	9.9	853	58.9	963	68.8	0.1	—	1.9	0.6	9.7	12.6	99.3	—	30.0	45.7	17.9	217.7	286.6
Dec. qtr	138	11.2	633	46.8	771	58.0	0.4	—	1.9	—	41.7	17.0	63.2	—	44.0	24.2	12.7	204.8	263.2
1994 Mar. qtr	116	9.0	606	45.3	722	54.4	—	—	1.6	—	44.8	15.3	71.9	—	42.1	27.5	3.5	206.6	261.0
June qtr	95	8.0	718	51.7	813	59.7	0.2	—	1.8	0.3	37.8	0.9	64.5	—	41.0	6.7	5.3	158.3	218.2
COMPLETED																			
1991-92	367	23.5	562	31.1	929	54.6	0.6	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	—	258.2	5.4	96.5	—	20.3	24.0	99.8	506.9	650.0
1993-94	381	29.5	1,367	82.6	1,748	112.2	3.4	0.2	1.0	5.6	41.3	27.8	92.4	—	4.0	54.2	28.0	254.4	370.0
1993 Mar. qtr	50	3.8	414	24.0	464	27.8	0.9	0.1	0.4	—	212.5	0.1	38.7	—	0.4	5.4	6.3	263.8	292.4
June qtr	177	13.4	592	40.7	769	54.1	0.1	—	—	—	24.0	0.9	6.7	—	8.6	13.4	18.6	72.2	126.3
Sept. qtr	98	7.6	496	28.0	594	35.7	2.7	0.2	—	4.6	13.9	1.6	12.5	—	—	4.8	9.4	47.1	85.5
Dec. qtr	77	6.2	373	21.8	450	28.0	0.1	—	0.6	0.9	3.4	0.9	43.5	—	1.0	24.1	6.1	80.6	108.7
1994 Mar. qtr	113	8.6	274	18.9	387	27.5	0.5	—	0.3	—	16.5	10.5	21.7	—	1.9	2.7	11.0	64.6	92.6
June qtr	93	7.1	224	13.9	317	21.0	0.1	—	—	—	7.4	14.7	14.7	—	1.1	22.7	1.4	62.1	83.1

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

Period	New residential building				Non-residential building													
	Houses		Other residential buildings		Alterations and additions to residential buildings				Shops, Factories, etc.				Offices, business premises, educational, religious, health, recreation and entertainment				Total	
	Number of dwelling units	Value (\$m)	Number of dwelling units	Value (\$m)	Value (\$m)	Number of dwelling units	Value (\$m)	Shops, Factories, etc.	Offices	business premises	educational	religious	Health	recreation and entertainment	Miscellaneous	Total	Total building	
VALUE OF WORK DONE DURING PERIOD																		
1991-92	..	22.1	..	49.4	..	71.5	0.7	0.2	1.8	..	80.8	23.3	71.2	..	12.5	20.6	283.3	355.5
1992-93	..	31.6	..	113.7	..	145.4	2.9	0.2	2.4	4.0	68.9	6.9	100.7	..	12.2	35.6	274.8	423.1
1993-94	..	29.9	..	84.1	..	114.0	1.9	..	2.3	1.6	47.3	23.3	87.6	..	32.2	36.1	247.9	363.8
1993 Mar. qtr	..	8.6	..	28.5	..	37.1	1.2	..	..	2.0	11.6	2.2	18.9	..	1.1	10.1	62.8	101.1
June qtr	..	9.7	..	22.2	..	31.9	1.1	0.1	0.3	2.0	16.6	3.7	25.2	..	2.6	16.0	77.5	110.5
Sept. qtr	..	8.6	..	31.1	..	39.7	1.1	..	0.2	0.8	9.7	3.6	24.5	..	8.4	13.4	66.9	107.7
Dec. qtr	..	6.7	..	19.4	..	26.1	0.3	..	1.2	0.6	12.2	7.4	24.8	..	9.1	10.3	71.1	97.5
1994 Mar. qtr r	..	8.9	..	14.0	..	22.9	0.3	..	0.3	..	16.9	7.8	21.2	..	6.7	7.1	63.3	86.5
June qtr	..	5.6	..	19.7	..	25.3	0.2	..	0.6	0.1	8.5	4.6	17.2	..	8.0	5.4	46.6	72.1
VALUE OF WORK YET TO BE DONE																		
1991-92	..	4.8	..	34.4	..	39.3	..	..	1.3	..	12.9	1.0	40.3	..	8.5	9.8	86.9	126.2
1992-93	..	4.3	..	31.7	..	36.0	0.8	..	0.5	0.6	12.6	6.7	47.4	..	17.4	19.8	118.7	155.4
1993-94	..	4.1	..	23.3	..	27.4	..	..	0.2	0.2	22.1	0.1	21.9	..	11.1	4.1	62.0	89.5
1993 Mar. qtr	..	6.1	..	34.1	..	40.2	1.0	..	..	1.9	15.1	5.0	46.5	..	..	12.9	17.1	98.6
June qtr	..	4.3	..	31.7	..	36.0	0.8	..	0.5	0.6	12.6	6.7	47.4	..	17.4	19.8	118.7	155.4
Sept. qtr	..	5.4	..	29.0	..	34.4	..	..	1.5	0.3	4.2	5.5	40.0	..	19.9	16.4	95.2	129.6
Dec. qtr	..	6.2	..	19.2	..	25.4	0.2	..	0.9	..	27.3	3.4	22.7	..	25.7	8.8	91.8	117.3
1994 Mar. qtr r	..	3.7	..	22.7	..	26.4	..	..	0.6	..	30.1	4.4	31.8	..	19.0	7.6	94.9	121.3
June qtr	..	4.1	..	23.3	..	27.4	..	..	0.2	0.2	22.1	0.1	21.9	..	11.1	4.1	62.0	89.5

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

Period	Houses				Total			
	Private sector		Total		Private sector		Total	
	Commenced	Completed	Commenced	Completed	Commenced	Completed	Commenced	Completed
1993 Mar. qtr	3,751	3,294	3,912	n.a.	4,781	4,154	5,566	4,551
June qtr	3,767	4,114	3,833	n.a.	4,929	5,252	5,320	6,066
Sept. qtr	4,110	3,822	4,244	n.a.	5,242	5,041	5,714	5,758
Dec. qtr	4,469	3,647	4,607	n.a.	5,704	4,630	6,086	5,030
1994 Mar. qtr	4,461	3,638	4,531	n.a.	6,050	4,646	6,419	4,953
June qtr	4,777	4,504	4,809	n.a.	6,374	5,700	6,703	6,061

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

Period	New residential building			Alterations and additions to residential buildings	Non-residential building		Total building
	Houses	Other residential buildings	Total		Private sector	Total	
1993 Mar. qtr	282.9	91.3	374.0	35.7	135.6	204.7	614.7
June qtr	293.2	88.8	383.5	37.6	119.8	196.0	618.0
Sept. qtr	311.0	100.3	407.7	39.5	129.9	189.8	642.2
Dec. qtr	351.5	88.1	441.2	34.9	151.9	227.7	695.4
1994 Mar. qtr	361.2	104.1	465.2	38.1	171.6	240.9	744.7
June qtr	395.8	119.8	517.8	37.2	166.0	208.3	764.8

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

Period	New residential building			Alterations and additions to residential buildings	Non-residential building		Total building
	Houses	Other residential buildings	Total		Private sector	Total	
1991-92	1,036.7	227.6	1,264.3	133.9	277.6	450.0	1,848.2
1992-93	1,266.4	336.9	1,603.3	158.5	530.3	825.6	2,587.4
1993-94	1,620.7	435.8	2,056.5	162.0	527.6	713.6	2,932.1
1993 Mar. qtr	310.4	91.2	401.6	38.8	196.3	297.9	738.3
June qtr	344.8	85.3	430.1	42.7	138.4	231.9	704.7
Sept. qtr	397.3	105.2	502.5	35.3	129.1	173.4	711.2
Dec. qtr	396.9	97.3	494.2	42.0	160.7	224.5	760.7
1994 Mar. qtr r	375.2	108.0	483.2	41.5	117.8	182.3	707.0
June qtr	451.3	125.3	576.6	43.2	120.0	133.4	753.2

(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)**

Period	New residential building			Alterations and additions to residential buildings	Non-residential building		Total building
	Houses	Other residential buildings	Total		Private sector	Total	
ORIGINAL							
1991-92	986.1	219.6	1,205.7	143.8	344.0	614.9	1,964.4
1992-93	1,230.5	337.5	1,568.0	157.1	429.6	693.6	2,418.7
1993-94	1,537.0	401.3	1,938.3	162.2	591.6	830.2	2,930.7
1993 Mar. qtr	294.8	82.3	377.1	36.6	117.5	178.1	591.8
June qtr	323.3	83.6	406.9	44.2	107.7	182.5	633.6
Sept. qtr	360.3	103.3	463.6	40.7	134.0	198.5	702.8
Dec. qtr	387.3	92.1	479.4	40.9	161.5	229.9	750.2
1994 Mar. qtr r	366.3	93.7	460.0	38.1	148.1	209.0	707.1
June qtr	423.1	112.2	535.3	42.5	148.0	192.8	770.6
SEASONALLY ADJUSTED							
1993 Mar. qtr	314.8	89.5	404.2	39.7	131.0	197.7	642.5
June qtr	324.3	87.0	413.3	41.5	115.7	189.2	645.6
Sept. qtr	342.1	98.3	436.6	43.5	125.2	182.9	667.8
Dec. qtr	382.5	86.2	469.9	38.0	146.2	219.1	718.0
1994 Mar. qtr r	391.0	101.8	492.7	41.3	165.0	231.7	766.6
June qtr	424.6	116.8	544.2	40.0	159.4	200.1	786.1

(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**

Period	Private sector					Public sector			Total		
	Houses			Other residential buildings	Total	Houses	Other residential buildings	Total	Houses	Other residential buildings	Total
	Contractor- built	Other	Total								
COMMENCED											
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	15,770	2,034	17,804	5,511	23,315	379	1,185	1,564	18,183	6,696	24,879
1993 Mar. qtr	2,990	489	3,479	910	4,389	172	548	720	3,651	1,458	5,109
June qtr	3,388	491	3,879	1,084	4,963	99	357	456	3,978	1,441	5,419
Sept. qtr	3,878	542	4,420	1,234	5,654	111	449	560	4,531	1,683	6,214
Dec. qtr	3,722	622	4,344	1,359	5,703	105	153	258	4,449	1,512	5,961
1994 Mar. qtr r	3,684	446	4,130	1,413	5,543	91	247	338	4,221	1,660	5,881
June qtr	4,485	424	4,910	1,505	6,415	72	336	408	4,982	1,841	6,823
UNDER CONSTRUCTION AT END OF PERIOD											
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	5,509	1,949	7,458	2,996	10,454	95	718	813	7,553	3,714	11,267
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	3,470	1,828	5,298	1,929	7,227	97	902	999	5,395	2,831	8,226
Sept. qtr	4,231	1,952	6,182	2,032	8,214	110	853	963	6,292	2,885	9,177
Dec. qtr	4,352	2,010	6,362	2,279	8,641	138	633	771	6,500	2,912	9,412
1994 Mar. qtr r	4,913	2,067	6,980	2,708	9,688	116	606	722	7,096	3,314	10,410
June qtr	5,509	1,949	7,458	2,996	10,454	95	718	813	7,553	3,714	11,267
COMPLETED											
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	13,747	1,834	15,581	4,390	19,971	381	1,367	1,748	15,962	5,757	21,719
1993 Mar. qtr	2,769	389	3,158	791	3,949	50	414	464	3,208	1,205	4,413
June qtr	3,470	560	4,029	1,157	5,186	177	592	769	4,206	1,749	5,955
Sept. qtr	3,116	394	3,511	1,131	4,642	98	496	594	3,609	1,627	5,236
Dec. qtr	3,633	531	4,163	1,112	5,275	77	373	450	4,240	1,485	5,725
1994 Mar. qtr r	3,122	366	3,488	930	4,418	113	274	387	3,601	1,204	4,805
June qtr	3,876	543	4,420	1,217	5,637	93	224	317	4,513	1,441	5,954

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

Period	Commenced				Under construction at end of period				Completed			
	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
NUMBER												
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	4,366	11,128	15,770	165	1,011	4,333	5,509	222	4,261	9,264	13,747
1993 Mar. qtr	239	884	1,868	2,990	240	878	2,439	3,558	176	1,065	1,529	2,769
June qtr	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	2,505	3,878	40	1,084	3,108	4,231	50	1,158	1,908	3,116
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	1,036	3,298	4,485	165	1,011	4,333	5,509	38	1,086	2,753	3,876
VALUE (\$m)												
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	230.5	1,057.4	1,297.1	5.9	53.6	489.7	549.1	7.2	223.2	866.2	1,096.6
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	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	236.8	308.4	1.3	57.2	343.8	402.3	1.8	60.0	182.1	243.9
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	54.7	319.9	379.9	5.9	53.6	489.7	549.1	1.0	57.3	254.3	312.7

**TABLE 10. SUMMARY OF BUILDING ACTIVITY, WESTERN AUSTRALIA
RELATIVE STANDARD ERRORS (PER CENT)
JUNE QUARTER 1994**

Ownership and stage of construction	New residential building				Value	
	Houses		Total		Alterations and additions to residential buildings	Total building
	Number	Value	Number of dwelling units	Value		
PRIVATE SECTOR						
Commenced	2.9	3.1	2.2	2.5	6.2	1.9
Under construction at end of period	2.7	2.8	1.9	2.1	5.5	1.5
Completed	4.1	4.6	3.2	3.7	9.4	2.6
Value of work done	..	2.8	..	2.3	5.4	1.6
Value of work yet to be done	..	3.2	..	2.5	7.0	1.8
TOTAL PRIVATE AND PUBLIC SECTORS						
Commenced	2.8	3.1	2.1	2.4	6.2	1.8
Under construction at end of period	2.7	2.8	1.8	2.0	5.5	1.3
Completed	4.1	4.5	3.1	3.5	9.4	2.3
Value of work done	..	2.8	..	2.2	5.4	1.5
Value of work yet to be done	..	3.2	..	2.3	7.0	1.6

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

Statistical division Statistical local area (a)	Completed during period			Under construction at end of period
	Year ended June 1994	Quarter ended March 1994 (r)	Quarter ended June 1994p	Quarter ended June 1994p
PERTH STATISTICAL DIVISION				
Armadale (C)	11,003	6,834	1,833	2,377
Bassendean (T)	4,542	836	870	1,409
Bayswater (C)	12,365	952	6,510	87,398
Belmont (C)	10,129	2,165	607	5,008
Canning (C)	26,713	3,205	8,996	21,320
Claremont (T)	2,374	360	481	2,433
Cockburn (C)	17,737	4,278	4,306	3,269
Cottesloe (T)	1,043	485	340	—
East Fremantle (T)	120	—	—	8,148
Fremantle (C) - Inner	3,803	—	490	3,193
Fremantle (C) - Remainder	9,438	3,165	1,981	16,056
Fremantle (C) - Total	13,241	3,165	2,471	21,249
Gosnells (C)	9,905	1,628	1,649	6,932
Kalamunda (S)	5,339	63	1,187	2,172
Kwinana (T)	6,906	418	3,106	2,375
Melville (C)	73,213	62,821	3,059	12,111
Mosman Park (T)	7,194	6,594	—	180
Mundaring (S)	3,629	489	1,660	704
Nedlands (C)	18,537	4,701	3,225	300
Peppermint Grove (S)	718	—	96	—
Perth (C) - Inner	42,128	14,240	13,279	47,123
Perth (C) - North	5,620	218	5,075	3,150
Perth (C) - Outer	26,860	6,485	5,189	7,489
Perth (C) - South	24,777	8,114	5,985	15,909
Perth (C) - Wembley-Coastal	714	170	295	1,179
Perth (C) - Total	100,099	29,227	29,823	74,850
Rockingham (C)	45,280	14,163	22,421	31,300
Serpentine-Jarrahdale (S)	374	289	—	1,422
South Perth (C)	10,306	2,489	2,598	9,134
Stirling (C) - Central	20,026	5,760	4,946	8,116
Stirling (C) - West	23,578	10,594	2,162	1,805
Stirling (C) - South-Eastern	9,916	70	9,110	1,062
Stirling (C) - Total	53,520	16,424	16,218	10,983
Subiaco (C)	20,612	6,193	614	32,809
Swan (S)	45,127	6,601	12,279	61,792
Wanneroo (C)	72,778	8,630	20,339	108,644
Total	572,805	183,010	144,689	508,317
SOUTH-WEST STATISTICAL DIVISION				
Augusta-Margaret River (S)	3,408	615	817	1,599
Boddington (S) (b)	—	—	—	—
Boyup Brook (S)	—	—	—	30
Bridgetown-Greenbushes (S)	1,541	892	164	298
Bunbury (C)	13,684	2,095	5,458	4,395
Busselton (S)	10,217	1,629	3,548	8,667
Capel (S)	100	100	—	—
Collie (S)	1,144	882	42	1,500
Dardanup (S)	1,024	—	190	220
Donmybrook-Balingup (S)	1,547	1,197	174	180
Harvey (S)	4,037	491	163	2,191
Mandurah (C)	9,030	3,561	2,240	4,877
Manjimup (S)	2,481	203	1,079	1,081
Murray (S)	1,132	459	266	216
Nannup (S)	136	20	116	81
Waroona (S)	1,147	—	1,147	—
Total (b)	50,627	12,145	15,404	25,333

NOTE: Table 11 will be excluded from future issues, although information will continue to be available as a special data service. For further details contact Colin Speechley on Adelaide (08) 237 7495 or any ABS State Office.

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

Statistical division Statistical local area (a)	Completed during period			Under construction at end of period
	Year ended June 1994	Quarter ended March 1994 (r)	Quarter ended June 1994p	Quarter ended June 1994p
LOWER GREAT SOUTHERN STATISTICAL DIVISION				
Albany (T)	6,387	1,919	1,087	2,896
Albany (S)	3,546	2,075	407	165
Broonte Hill (S)	—	—	—	—
Cranbrook (S)	—	—	—	—
Denmark (S)	1,486	195	242	1,155
Gnowangerup (S)	290	—	290	280
Jerramungup (S)	834	—	64	30
Katanning (S)	—	—	—	—
Kent (S)	—	—	—	—
Kojonup (S)	207	67	—	—
Plantagenet (S)	293	—	78	120
Tambellup (S)	410	—	—	—
Woodanilling (S)	—	—	—	—
Total	13,452	4,256	2,168	4,647
UPPER GREAT SOUTHERN STATISTICAL DIVISION				
Brookton (S)	362	362	—	108
Corrigin (S)	—	—	—	—
Cuballing (S)	—	—	—	—
Dumbleyung (S)	—	—	—	—
Kondinin (S)	140	140	—	—
Kulin (S)	—	—	—	—
Lake Grace (S)	—	—	—	100
Narrogin (T)	2,024	680	1,094	85
Narrogin (S)	—	—	—	—
Pingelly (S)	—	—	—	—
Wagin (S)	—	—	—	—
Wandering (S)	110	—	110	—
West Arthur (S)	1,300	—	1,300	—
Wickepin (S)	472	472	—	—
Williams (S)	89	—	—	—
Total (b)	4,497	1,654	2,504	293
MIDLANDS STATISTICAL DIVISION				
Beverley (S)	135	—	—	—
Bruce Rock (S)	—	—	—	—
Chittering (S)	1,150	—	—	—
Cunderdin (S)	—	—	—	100
Dalwallinu (S)	378	80	—	—
Dandaragan (S)	217	—	—	872
Dowerin (S)	—	—	—	—
Gingin (S)	699	278	—	4,040
Goomalling (S)	128	—	—	—
Kellerberrin (S)	57	29	28	—
Koorda (S)	—	—	—	—
Merredin (S)	693	—	460	360
Moora (S)	—	—	—	—
Mount Marshall (S)	—	—	—	—
Mukinbudin (S)	—	—	—	—
Narembeen (S)	—	—	—	—
Northam (T)	1,355	250	—	18,190
Northam (S)	2,098	2,016	—	—
Nungarin (S)	—	—	—	—
Quairading (S)	412	412	—	245
Tammin (S)	—	—	—	—
Toodyay (S)	357	177	—	2,479
Trayning (S)	—	—	—	—
Victoria Plains (S)	155	55	—	—
Westonia (S)	—	—	—	—
Wongan-Ballidu (S)	521	—	82	—
Wyalkatchem (S)	—	—	—	—
Yilgarn (S)	—	—	—	—
York (S)	60	—	—	—
Total	8,414	3,297	569	26,285

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

Statistical division Statistical local area (a)	Completed during period			Under construction at end of period
	Year ended June 1994	Quarter ended March 1994 (r)	Quarter ended June 1994p	Quarter ended June 1994p
SOUTH-EASTERN STATISTICAL DIVISION				
Coolgardie (S)	225	—	—	80
Dundas (S)	88	—	—	—
Esperance (S)	1,269	330	360	958
Kalgoorlie-Boulder (C)	18,985	3,046	1,782	4,407
Laverton (S)	—	—	—	—
Leonora (S)	1,839	—	—	1,177
Menzies (S)	—	—	—	—
Ravensthorpe (S)	86	—	86	—
Total	22,492	3,376	2,228	6,623
CENTRAL STATISTICAL DIVISION				
Carnamah (S)	—	—	—	—
Carnarvon (S)	2,327	1,346	60	1,876
Chapman Valley (S)	104	—	—	—
Coorow (S)	187	—	47	—
Cue (S)	171	—	72	—
Exmouth (S)	473	—	372	—
Geraldton (C)	9,000	1,548	2,105	3,111
Greenough (S)	444	250	141	76
Irwin (S)	705	—	55	420
Meekatharra (S)	323	267	—	—
Mingenew (S)	70	70	—	—
Murawa (S)	—	—	—	—
Mount Magnet (S)	457	—	457	—
Mullewa (S)	406	406	—	—
Murchison (S)	170	—	—	—
Ngaanyatjarraku (S) (c)	—	—	—	—
Northampton (S)	687	90	227	—
Perejori (S)	—	—	—	—
Sandstone (S)	—	—	—	—
Shark Bay (S)	47	—	—	505
Three Springs (S)	—	—	—	—
Upper Gascoyne (S)	—	—	—	—
Wiluna (S) (c)	5,290	—	—	—
Yaloo (S)	—	—	—	—
Total	20,860	3,977	3,536	5,988
PILBARA STATISTICAL DIVISION				
Ashburton (S)	15,598	5,660	8,880	470
East Pilbara (S)	5,888	1,182	1,261	210
Port Hedland (T)	4,421	1,773	731	265
Roeboome (S)	12,214	220	552	892
Total	38,122	8,834	11,423	1,837
KIMBERLEY STATISTICAL DIVISION				
Broome (S)	4,205	1,497	756	1,370
Derby-West Kimberley (S)	1,654	—	—	—
Halls Creek (S)	2,122	—	801	—
Wyndham-East Kimberley (S)	2,393	651	256	1,939
Total	10,375	2,148	1,813	3,309
STATE SUMMARY				
STATISTICAL DIVISION--				
Perth	572,805	183,010	144,689	508,317
South-West	50,627	12,145	15,404	25,333
Lower Great Southern	13,452	4,256	2,168	4,647
Upper Great Southern	4,497	1,654	2,504	293
Midlands	8,414	3,297	569	26,285
South-Eastern	22,492	3,376	2,228	6,623
Central	20,860	3,977	3,536	5,988
Pilbara	38,122	8,834	11,423	1,837
Kimberley	10,375	2,148	1,813	3,309
WESTERN AUSTRALIA	741,644	222,698	184,335	582,632

(a) City councils are marked (C), Town councils (T) 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. 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.

6. 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 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 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, 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, powerhouses, manufacturing laboratories, workshops as part of a manufacturing process.
- (f) *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.
- (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

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, 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).

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 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

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. Inquiries should be made to the contact shown at the front of this publication.

29. Users may also wish to refer to the following building and construction publications which are available on request:

Building Approvals, Australia (8731.0) – monthly (\$13.50)
Building Approvals, Western Australia (8731.5) – monthly (\$11.00)

Dwelling Unit Commencements Reported by Approving Authorities, Western Australia (8741.5) – monthly (\$11.00)

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

Building Activity, Australia (8752.0) – quarterly (\$14.50)

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

Construction Activity at Constant Prices, Australia (8782.0) – quarterly (\$11.00)

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.

Symbols and other usages

.. not applicable
— nil or rounded to zero
r figure or series revised since previous issue
p preliminary – series subject to revision

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

P.C. KELLY
Deputy Commonwealth Statistician
and Government Statist



For more information ...

The ABS publishes a wide range of statistics and other information on Australia's economic and social conditions. Details of what is available in various publications and other products can be found in the *ABS Catalogue of Publications and Products* available at all ABS Offices.

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