

**BUILDING ACTIVITY, VICTORIA
DECEMBER QUARTER 1993**

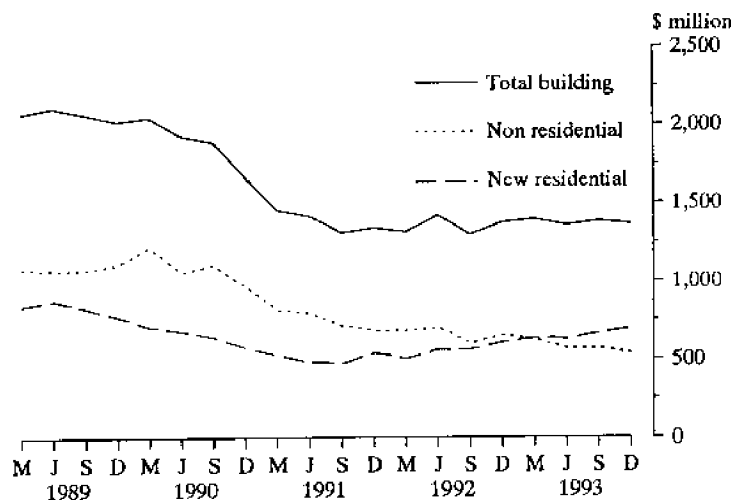
SUMMARY OF FINDINGS

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

	Percentage change on	
	Sept. quarter 1993	Dec. quarter 1992
New residential building	4.0	15.3
Alterations and additions to residential buildings	3.3	7.9
Non-residential building	-6.1	-17.7
Total building	-1.2	-0.8

- Expressed in seasonally adjusted average 1989-90 prices the total value of building work done for the December quarter 1993 was \$1,363.1 million, which was not significantly different from the figures for either the previous quarter or the same quarter of the previous year.
- The value of non-residential building work done dropped 6.1% to be \$535.0 million for the December quarter. This was the lowest value recorded for this data item since the September quarter 1984. On the other hand the value of new residential work done rose to \$696.9 million which was its highest value since the \$705.8 million reported for the March quarter 1990. The value of residential alterations and additions also rose and was at its highest level since the June quarter 1990.

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



INQUIRIES

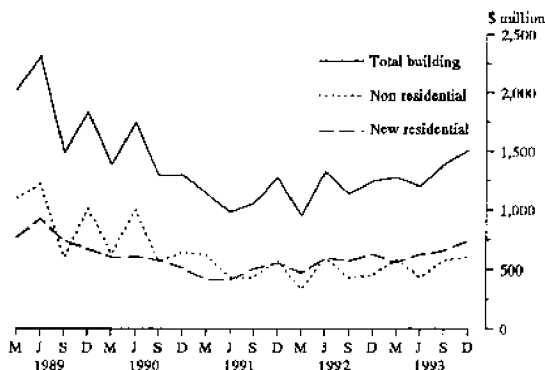
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SUMMARY OF FINDINGS – continued

Value of building work commenced at average 1989–90 prices

	Percentage change on	
	Sept. quarter 1993	Dec. quarter 1992
New residential building	12.8	18.4
Alterations and additions to residential buildings	12.1	2.0
Non-residential building	4.0	31.9
Total building	9.0	21.3

- Expressed in average 1989–90 prices (but not seasonally adjusted) the total value of building work commenced during the December quarter 1993 was \$1,509.8 million, an increase of 9.0% on the figure for the September quarter and the highest value since the \$1,745.4 million achieved for the June quarter 1990.
- The value of new residential buildings commenced rose by 12.8% to be \$743.8 million, its highest level since \$924.5 million was reported for the June quarter 1989.
- Commencements of non-residential buildings also rose in value although by only 4.0%. Even so the December quarter figure of \$605.2 million was the highest since the March quarter 1991.
- The value of residential alterations and additions rose for the third time in succession and the December quarter level of \$160.8 million has not been exceeded since the June quarter of 1989.

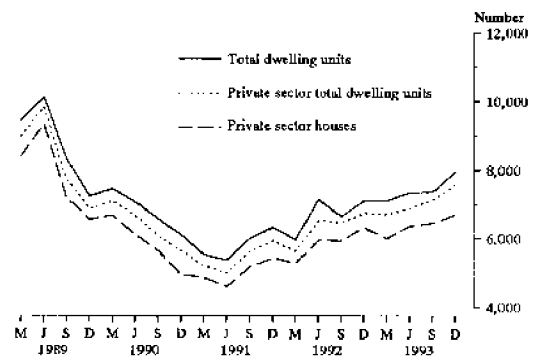
VALUE OF WORK COMMENCED
AT AVERAGE 1989-90 PRICES

Number of dwelling units commenced, seasonally adjusted

NUMBER OF DWELLING UNITS COMMENCED

	Percentage change on	
	Sept. quarter 1993	Dec. quarter 1992
Private sector houses	3.9	5.9
Private sector dwelling units	6.4	12.4
Total dwelling units	8.1	12.2

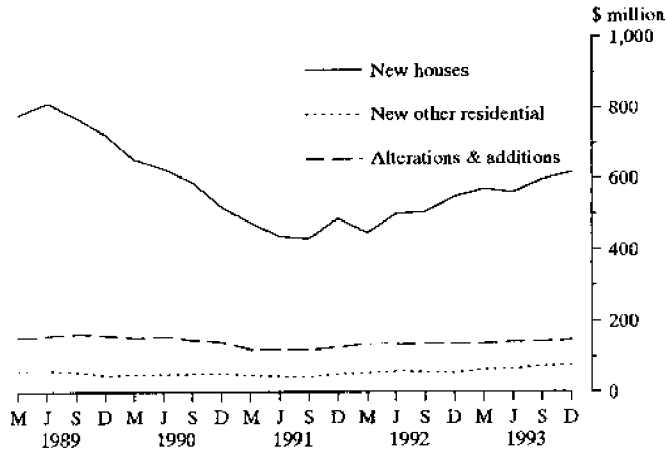
- In seasonally adjusted terms the estimate of the total number of dwelling units commenced during the December quarter 1993 was 7,951 which was 8.1% higher than for the September quarter and the highest number since the September quarter 1989 when 8,306 were reported.
- There were also upward movements for private sector houses and private sector dwelling units. The former rose 3.9% to 6,696, while the latter rose 6.4% to 7,576. These figures were also the highest levels reached since the September quarter 1989.

NEW DWELLING UNITS COMMENCED
SEASONALLY ADJUSTED

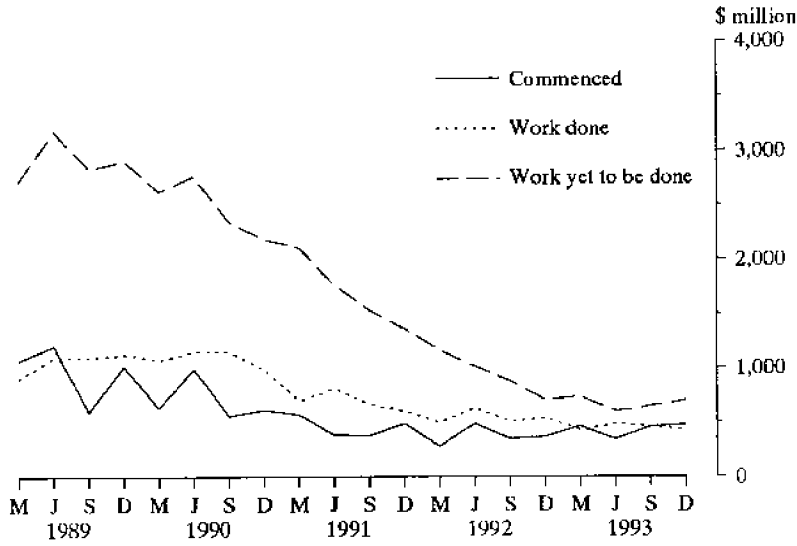
Original unadjusted data

- The total value of building work commenced (unadjusted, at current prices) during the December quarter 1993 was \$1,405.8 million. Of this, \$760.2 million was for new residential building resulting in 8,308 dwelling units.
- The total value of work done during the December quarter was \$1,332.0 million while the value of work yet to be done on jobs under construction at the end of the quarter was \$1,364.4 million.

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



VALUE OF NON-RESIDENTIAL BUILDING



VALUE OF NON-RESIDENTIAL WORK DONE

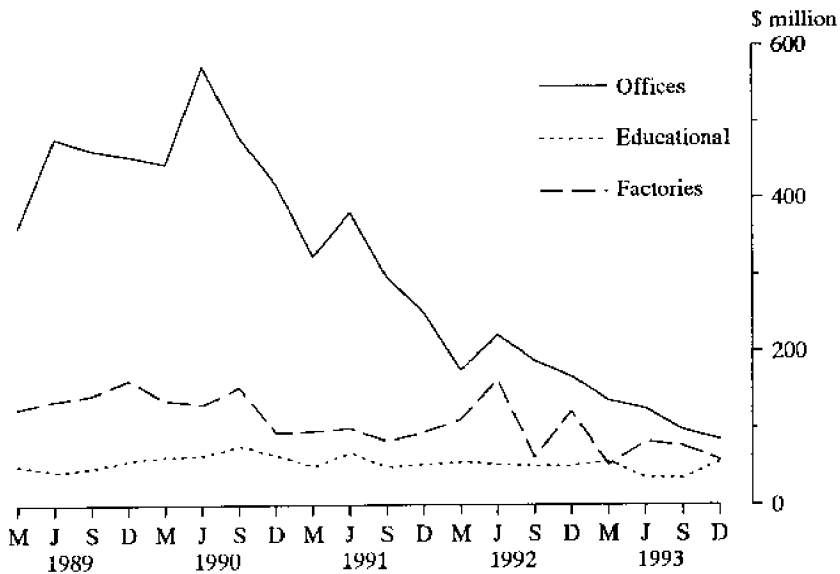


TABLE 1. SUMMARY OF BUILDING ACTIVITY, VICTORIA

Period	New residential building										Non-residential building																																		
	Houses					Other residential buildings					Total					Other business premises					Educational groups					Health					Recreational					Miscellaneous					Total building				
	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 groups	Health	Recreational	Miscellaneous	Total building																												
COMMENCED																																													
1990-91	21,094	1,872.7	2,486	148.1	23,580	2,020.8	532.7	53.2	229.8	421.1	622.8	249.7	187.9	19.1	67.5	195.4	84.3	2,130.7	4,684.3																										
1991-92	22,392	1,988.6	3,029	207.4	25,421	2,196.0	542.7	76.6	161.9	353.5	417.4	172.7	194.0	17.2	112.1	56.1	68.1	1,629.6	4,368.4																										
1992-93	25,717	2,255.6	2,438	172.6	28,155	2,428.2	561.5	36.0	189.4	186.9	243.4	152.3	178.5	14.1	273.4	107.3	137.0	1,518.3	4,508.1																										
1992 Sept. qtr	6,176	544.3	583	41.2	6,759	585.5	133.8	8.7	56.7	21.4	66.6	37.7	53.2	2.8	62.1	20.5	21.4	351.1	1,070.4																										
Dec. qtr	6,935	606.6	464	34.3	7,399	640.9	161.0	3.2	38.8	89.6	69.9	32.4	42.5	2.6	32.3	32.6	20.3	364.2	1,166.1																										
1993 Mar. qtr	5,852	513.3	757	50.2	6,609	563.5	129.8	10.0	38.9	33.3	52.9	49.2	48.2	3.3	151.5	24.1	49.4	460.9	1,154.2																										
June qtr	6,753	591.4	634	46.9	7,387	638.3	137.0	14.1	54.9	42.7	54.1	32.9	34.6	5.3	27.5	30.0	45.9	342.2	1,117.4																										
Sept. qtr	6,779	614.0	708	52.5	7,487	666.5	146.7	9.5	111.8	48.3	66.8	35.8	55.1	5.4	75.8	31.3	16.7	456.3	1,269.5																										
Dec. qtr	7,478	694.3	830	65.8	8,308	760.2	170.0	13.1	131.2	51.9	48.8	47.7	54.1	5.5	22.7	43.8	56.9	475.6	1,405.8																										
UNDER CONSTRUCTION AT END OF PERIOD																																													
1990-91	11,512	1,123.8	1,999	157.8	13,511	1,281.5	253.6	197.0	204.5	570.2	2,924.4	95.1	189.2	22.1	299.7	204.3	119.9	4,826.3	6,361.5																										
1991-92	11,210	1,107.3	2,154	155.1	13,364	1,262.4	258.7	35.5	177.5	554.2	2,021.3	126.3	173.4	18.1	243.3	50.6	65.4	3,463.6	4,984.7																										
1992-93	11,772	1,144.6	2,022	150.1	13,794	1,294.7	243.2	30.6	79.1	347.7	877.9	117.9	132.1	17.2	412.6	72.2	107.8	2,195.1	3,733.0																										
1992 Sept. qtr	11,409	1,119.7	2,106	155.6	13,515	1,275.2	252.1	38.5	119.4	430.3	1,793.3	124.2	161.5	22.1	296.8	43.2	65.5	3,094.7	4,622.0																										
Dec. qtr	11,896	1,169.9	1,813	138.8	13,709	1,308.6	246.3	28.1	62.7	314.5	1,723.2	121.8	150.9	17.2	294.1	61.1	62.6	2,836.3	4,391.2																										
1993 Mar. qtr	11,596	1,139.6	2,023	154.1	13,619	1,293.7	241.7	33.7	62.5	330.1	1,109.6	124.6	150.8	17.4	427.8	57.1	69.0	2,382.7	3,918.1																										
June qtr	11,772	1,144.6	2,022	150.1	13,794	1,294.7	243.2	30.6	79.1	347.7	877.9	117.9	132.1	17.2	412.6	72.2	107.8	2,195.1	3,733.0																										
Sept. qtr	11,188	1,077.8	1,877	144.9	13,065	1,222.7	234.0	30.6	147.3	176.8	721.1	114.6	119.6	18.9	424.5	83.2	71.4	1,907.1	3,363.7																										
Dec. qtr	11,976	1,164.2	1,777	144.5	13,753	1,308.7	265.0	26.9	219.4	157.3	702.9	117.2	132.3	17.0	431.1	92.6	108.6	2,005.2	3,578.9																										
COMPLETED																																													
1990-91	25,215	2,394.2	2,898	206.4	28,113	2,600.6	601.2	210.8	560.2	380.7	1,655.7	456.9	266.8	23.5	195.2	181.4	66.6	3,997.7	7,194.5																										
1991-92	22,401	2,026.8	2,865	215.7	25,266	2,242.5	543.1	165.8	195.5	390.1	1,383.3	140.0	210.8	21.7	166.3	211.4	120.0	3,064.9	5,790.5																										
1992-93	25,099	2,233.4	2,566	179.1	27,665	2,412.5	583.5	42.0	289.7	380.5	1,395.5	169.6	222.2	19.3	107.4	91.0	85.3	2,802.4	5,798.5																										
1992 Sept. qtr	5,964	530.9	629	43.0	6,593	573.9	144.4	5.7	115.3	148.3	302.7	41.4	65.2	2.7	10.2	29.4	19.7	740.8	1,459.1																										
Dec. qtr	6,432	565.2	755	51.4	7,187	616.6	162.7	14.0	96.9	188.5	141.2	44.4	53.2	7.8	35.9	14.9	24.1	621.0	1,400.3																										
1993 Mar. qtr	6,153	546.6	547	35.0	6,700	581.5	135.3	4.8	38.4	20.9	667.2	43.1	49.7	3.5	18.4	29.0	34.8	909.7	1,626.5																										
June qtr	6,550	590.7	635	49.8	7,185	640.5	141.1	17.5	39.1	22.8	284.4	40.6	54.0	5.3	42.9	17.6	6.7	531.0	1,312.6																										
Sept. qtr	7,308	677.9	853	59.2	8,161	737.1	157.9	8.1	42.8	232.0	278.7	39.8	68.4	4.2	52.6	23.4	45.2	795.2	1,690.1																										
Dec. qtr	6,667	616.9	930	67.7	7,597	684.7	141.9	9.3	60.9	72.8	67.5	48.2	39.7	7.1	18.2	32.3	18.2	374.2	1,200.8																										

TABLE 1. SUMMARY OF BUILDING ACTIVITY, VICTORIA—continued

Period	New residential building										Non-residential building														
	Houses					Other residential buildings					Total					Alterations and additions to residential buildings					Shops, Factories, Offices, Religious, Educational, Other business premises, Health, Recreational and Entertainment				
	Number of dwelling units	Value (\$m)	Number of dwelling units	Value (\$m)	Number of dwelling units	Value (\$m)	Value (\$m)	Hotels etc.	Shops	Factories	Offices	Religious	Educational	Other business premises	Health	Recreational	Entertainment	Total	Total	Total					
VALUE OF WORK DONE DURING PERIOD																									
1990-91	..	2,146.8	..	194.8	..	2,341.6	562.0	127.1	393.4	441.9	1,603.8	365.2	258.9	23.1	171.6	160.6	97.8	3,643.4	6,546.9	6,546.9					
1991-92	..	1,993.4	..	181.0	..	2,174.4	550.3	102.1	177.2	450.4	942.9	1,337.7	210.6	18.6	113.3	151.7	103.7	2,404.2	5,128.9	5,128.9					
1992-93	..	2,286.7	..	196.3	..	2,483.0	579.5	33.6	207.3	317.3	617.3	196.5	192.4	20.3	178.1	92.4	115.4	1,970.7	5,033.2	5,033.2					
1992 Sept. qtr	..	535.3	..	46.2	..	581.5	142.5	10.8	69.6	61.2	187.8	50.6	50.1	7.0	31.9	20.4	22.9	512.3	1,236.2	1,236.2					
Dec. qtr	..	592.9	..	46.8	..	639.6	153.1	7.8	59.9	121.8	167.4	55.5	51.0	4.3	35.8	19.9	21.3	544.7	1,337.4	1,337.4					
1993 Mar. qtr	..	552.3	..	49.0	..	601.3	132.6	5.3	31.8	52.4	136.5	44.6	56.4	4.4	49.3	22.6	23.4	426.7	1,160.6	1,160.6					
June qtr	..	606.3	..	54.3	..	660.6	151.4	9.7	46.0	82.0	125.6	45.7	34.9	4.6	61.1	29.5	47.9	487.0	1,298.9	1,298.9					
Sept. qtr	..	624.5	..	58.2	..	682.7	146.0	11.4	64.9	76.6	97.5	45.1	33.7	5.9	75.6	27.1	20.2	458.0	1,286.7	1,286.7					
Dec. qtr	..	672.4	..	64.6	..	737.0	166.5	9.6	63.3	58.5	84.5	38.9	57.0	4.1	49.1	32.3	31.3	428.5	1,332.0	1,332.0					
VALUE OF WORK YET TO BE DONE																									
1990-91	..	443.0	..	46.5	..	489.5	94.8	11.4	59.4	294.1	900.6	34.5	73.3	9.6	104.4	111.7	61.9	1,763.9	2,348.2	2,348.2					
1991-92	..	492.1	..	82.6	..	574.7	94.1	16.6	53.1	220.9	437.9	72.7	59.2	8.8	101.0	17.7	29.0	1,016.8	1,685.7	1,685.7					
1992-93	..	482.8	..	67.3	..	550.1	84.1	20.0	37.3	78.1	93.5	38.3	45.2	6.9	199.6	37.8	43.6	600.4	1,234.6	1,234.6					
1992 Sept. qtr	..	502.9	..	81.4	..	584.3	89.5	14.6	40.6	184.1	324.9	61.7	60.0	8.5	132.8	19.2	28.1	874.6	1,548.4	1,548.4					
Dec. qtr	..	525.8	..	74.6	..	600.5	93.5	10.2	21.1	135.2	243.0	48.8	51.7	7.1	130.2	32.2	28.2	707.7	1,401.7	1,401.7					
1993 Mar. qtr	..	493.1	..	75.9	..	569.0	92.6	15.3	27.6	119.6	160.4	50.1	44.8	6.4	233.0	34.6	46.0	737.9	1,399.5	1,399.5					
June qtr	..	482.8	..	67.3	..	550.1	84.1	20.0	37.3	78.1	93.5	38.3	45.2	6.9	199.6	37.8	43.6	600.4	1,234.6	1,234.6					
Sept. qtr	..	471.9	..	63.1	..	535.0	86.8	16.8	83.6	62.6	118.8	29.9	67.3	6.9	188.6	44.5	32.3	651.4	1,273.2	1,273.2					
Dec. qtr	..	503.0	..	65.9	..	568.8	93.1	13.3	53.3	57.3	90.0	41.8	63.1	8.0	164.2	54.9	56.4	702.5	1,364.4	1,364.4					

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 110 such dwelling units commenced in the December quarter 1993.

TABLE 2. SUMMARY OF PRIVATE SECTOR BUILDING ACTIVITY, VICTORIA

Period	New residential building				Non-residential building										Total building				
	Houses				Other residential buildings		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	Educational	Religious		Health	Entertainment and recreational	Miscellaneous	Total
COMMENCED																			
1990-91	20,052	1,806.1	1,883	111.8	21,915	1,917.9	532.1	43.9	189.0	292.6	568.3	188.1	77.7	19.1	34.6	171.2	48.4	1,632.8	4,082.7
1991-92	21,827	1,953.0	1,887	130.5	23,714	2,083.6	542.0	71.9	158.3	322.9	337.6	116.1	54.8	17.2	44.7	32.0	31.7	1,187.2	3,812.8
1992-93	24,633	2,188.7	2,155	154.2	26,788	2,342.9	561.1	33.8	178.5	182.6	193.4	136.6	61.0	14.1	98.0	42.6	105.2	1,045.8	3,949.8
1992 Sept. qtr	6,019	535.1	522	37.5	6,541	572.6	133.7	8.5	53.9	20.8	48.5	29.9	18.7	2.8	12.1	9.7	10.8	215.7	922.0
Dec. qtr	6,715	594.1	340	26.0	7,055	620.1	160.7	3.2	34.0	87.2	65.3	27.2	19.8	2.6	28.2	13.2	9.5	289.9	1,070.7
1993 Mar. qtr	5,484	489.7	735	48.5	6,219	538.2	129.7	8.0	37.3	32.8	38.6	48.6	13.7	3.3	33.4	13.6	43.3	272.7	940.6
June qtr	6,414	569.8	558	42.3	6,972	612.1	136.9	14.1	53.3	41.8	41.0	30.9	8.8	5.3	24.3	6.2	41.8	267.5	1,016.5
Sept. qtr	6,553	600.9	662	49.7	7,215	650.7	146.6	9.4	111.1	45.4	52.1	30.3	23.2	5.4	20.4	8.0	12.9	318.3	1,115.5
Dec. qtr	7,114	670.2	822	65.0	7,936	735.2	169.4	6.0	130.1	47.7	29.3	46.0	42.7	5.5	19.6	12.3	11.6	350.9	1,255.5
UNDER CONSTRUCTION AT END OF PERIOD																			
1990-91	11,125	1,099.7	1,366	110.6	12,491	1,210.2	253.4	181.4	190.6	444.2	1,873.1	70.1	51.6	22.1	46.8	185.8	53.9	3,119.5	4,583.1
1991-92	10,955	1,091.0	1,246	90.9	12,201	1,182.0	258.5	24.8	176.3	402.6	911.7	72.7	34.1	18.1	36.4	36.8	36.0	1,749.5	3,190.0
1992-93	11,048	1,102.2	1,501	109.2	12,549	1,211.5	243.2	21.1	77.3	327.6	811.5	63.9	29.6	17.2	76.1	27.5	92.4	1,544.2	2,998.8
1992 Sept. qtr	11,135	1,102.9	1,440	107.7	12,575	1,210.6	252.1	30.7	117.0	284.3	913.5	72.3	39.4	22.1	43.3	22.2	35.7	1,580.5	3,043.2
Dec. qtr	11,530	1,148.7	1,151	88.5	12,681	1,237.2	246.2	20.3	60.5	293.5	848.2	67.4	38.4	17.2	61.4	27.9	33.4	1,468.1	2,951.6
1993 Mar. qtr	10,994	1,104.0	1,401	105.3	12,395	1,209.4	241.6	24.1	61.6	308.8	831.9	71.6	33.7	17.4	85.0	28.0	53.9	1,516.1	2,967.1
June qtr	11,048	1,102.2	1,501	109.2	12,549	1,211.5	243.2	21.1	77.3	327.6	811.5	63.9	29.6	17.2	76.1	27.5	92.4	1,544.2	2,998.8
Sept. qtr	10,458	1,037.0	1,460	111.2	11,918	1,148.3	233.9	21.0	147.2	173.4	664.2	57.1	35.5	18.9	57.9	22.0	63.2	1,260.3	2,642.5
Dec. qtr	11,234	1,119.4	1,551	124.6	12,785	1,244.0	264.8	19.9	219.3	150.0	659.9	68.9	54.7	17.0	64.1	19.8	58.8	1,332.3	2,841.2
COMPLETED																			
1990-91	24,009	2,317.2	2,318	170.4	26,327	2,487.6	599.5	196.0	532.2	363.8	1,356.7	405.6	84.2	33.2	71.8	146.2	35.5	3,215.2	6,302.3
1991-92	21,710	1,983.7	1,998	155.0	23,708	2,138.7	542.5	155.8	179.0	385.0	1,325.1	109.5	71.7	21.7	56.8	181.7	47.4	2,533.8	5,215.0
1992-93	24,481	2,193.5	1,898	136.5	26,379	2,330.0	582.9	38.5	279.3	245.0	299.7	147.9	65.1	19.3	61.2	56.9	41.3	1,254.1	4,167.0
1992 Sept. qtr	5,823	522.3	328	22.4	6,151	544.7	144.1	2.7	113.4	142.3	50.1	32.3	13.2	2.7	6.5	25.7	11.7	400.6	1,089.4
Dec. qtr	6,304	557.2	627	45.3	6,931	602.5	162.5	13.8	91.7	61.2	135.2	34.1	20.0	7.8	10.2	7.8	12.2	394.2	1,159.2
1993 Mar. qtr	6,021	538.0	485	31.7	6,506	569.7	135.2	4.6	35.8	20.7	55.0	42.1	18.7	3.5	11.3	14.4	14.6	220.6	925.6
June qtr	6,333	576.0	458	37.1	6,791	613.1	141.1	17.5	38.3	20.8	59.5	39.4	13.0	5.3	33.2	9.0	2.8	238.7	992.9
Sept. qtr	7,093	663.6	703	49.0	7,796	712.6	157.9	8.1	40.6	211.8	252.9	37.8	18.3	4.2	39.0	14.6	34.6	661.9	1,532.4
Dec. qtr	6,321	597.2	731	52.9	7,052	650.1	141.4	7.2	59.8	72.3	32.1	36.4	22.3	7.1	13.7	14.1	14.0	279.0	1,070.6

TABLE 3. SUMMARY OF PUBLIC SECTOR BUILDING ACTIVITY, VICTORIA—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																		
1990-91	..	69.8	..	43.1	..	112.9	1.8	14.7	32.1	41.2	472.4	58.9	173.8	0.3	121.9	32.0	54.2	1,001.4
1991-92	..	38.6	..	52.7	..	91.3	0.7	3.1	11.8	70.1	319.1	33.8	145.2	—	61.3	25.8	50.4	812.5
1992-93	..	52.4	..	42.8	..	95.2	0.4	4.3	11.1	51.7	76.1	47.0	128.6	..	88.0	44.7	40.6	587.7
1992 Sept. qtr	..	9.1	..	11.2	..	20.3	—	2.7	2.5	14.5	38.9	16.4	35.5	—	20.3	8.6	14.9	174.6
Dec. qtr	..	9.3	..	12.3	..	21.6	0.3	0.2	6.0	31.0	13.5	18.7	32.9	—	19.9	10.1	11.3	143.6
1993 Mar. qtr	..	11.8	..	8.5	..	20.3	—	0.4	1.1	3.3	9.3	5.3	38.7	—	24.5	8.1	9.2	100.0
June qtr	..	22.2	..	10.7	..	32.9	—	0.9	1.5	2.9	14.4	6.7	21.6	—	23.3	17.9	5.2	94.3
Sept. qtr	..	18.3	..	9.3	..	27.6	0.1	0.7	1.5	2.5	12.5	10.0	21.1	—	50.6	15.7	4.9	119.6
Dec. qtr	..	21.3	..	5.5	..	26.8	0.5	2.2	1.1	2.6	25.5	3.9	25.0	..	33.2	21.2	17.4	132.2
VALUE OF WORK YET TO BE DONE																		
1990-91	..	11.2	..	9.6	..	20.8	—	7.6	8.9	89.0	242.6	7.0	50.7	—	76.0	6.7	30.2	518.6
1991-92	..	8.1	..	34.6	..	42.8	—	9.7	0.9	49.5	40.0	32.3	46.2	—	78.1	5.9	13.6	319.0
1992-93	..	21.8	..	17.9	..	39.6	—	7.6	0.9	1.9	16.5	7.4	35.4	—	166.0	26.1	5.2	267.0
1992 Sept. qtr	..	8.2	..	29.2	..	37.4	—	7.1	1.4	35.3	24.1	23.4	43.1	..	108.2	8.2	9.3	260.0
Dec. qtr	..	11.3	..	30.5	..	41.9	—	7.0	0.5	6.7	11.7	17.6	33.9	—	93.3	17.3	9.3	197.3
1993 Mar. qtr	..	22.5	..	23.8	..	46.3	—	8.5	0.7	3.9	17.3	11.9	30.6	—	185.9	19.7	6.2	284.8
June qtr	..	21.8	..	17.9	..	39.6	—	7.6	0.9	1.9	16.5	7.4	35.4	—	166.0	26.1	5.2	267.0
Sept. qtr	..	16.2	..	11.5	..	27.7	—	7.0	—	2.8	20.5	2.9	46.1	..	159.1	35.1	3.8	277.4
Dec. qtr	..	18.8	..	7.1	..	25.9	—	4.9	—	4.5	16.5	1.6	32.0	—	130.7	44.7	32.2	267.1

TABLE 4. VALUE OF BUILDING ACTIVITY (a) BY CLASS OF BUILDING AND STAGE OF CONSTRUCTION, MELBOURNE STATISTICAL DIVISION, VICTORIA (\$m)

Period	Non-residential building										Total	
	New other residential buildings (b)	Hotels, etc.	Shops	Factories	Offices	Other business premises	Educational	Religious	Health	Entertainment and recreational		Miscellaneous
COMMENCED												
1990-91	107.5	29.3	197.6	370.6	595.3	219.2	161.3	13.6	39.4	176.8	61.1	1,864.2
1991-92	157.0	65.8	142.8	312.0	530.8	145.8	137.7	13.0	76.4	37.8	48.6	1,510.7
1992-93	143.9	25.4	162.8	93.0	217.4	125.3	148.1	10.1	247.8	75.9	104.9	1,210.6
1992 -												
September	32.2	6.8	46.6	11.9	55.3	33.7	42.2	2.3	52.1	14.4	14.6	279.7
December	27.9	1.4	33.0	20.8	66.3	27.3	35.4	2.0	27.2	27.4	15.4	236.3
1993 -												
March	45.0	6.0	34.5	27.1	49.4	37.0	39.7	2.5	143.4	12.5	43.0	395.1
June	38.8	11.2	48.7	33.2	46.4	27.3	30.9	3.3	25.1	21.6	31.9	279.5
September r	49.1	5.3	100.2	32.6	56.5	25.3	43.6	4.6	65.5	24.5	12.3	370.4
December	61.5	8.0	123.5	31.9	41.8	35.2	46.4	5.2	12.3	33.8	51.5	389.7
UNDER CONSTRUCTION AT END OF PERIOD												
1990-91	129.4	176.5	188.8	541.7	2,916.4	82.2	178.0	16.4	269.7	192.9	74.1	4,636.7
1991-92	119.1	23.3	171.1	517.8	2,017.5	112.1	132.3	14.9	207.9	44.5	48.6	3,289.7
1992-93	123.1	16.5	70.3	251.9	861.5	104.9	108.3	13.7	388.8	53.9	83.9	1,953.9
1992 -												
September	119.8	25.3	107.0	398.7	1,782.2	112.1	115.6	18.6	253.4	34.6	48.9	2,896.4
December	107.7	16.9	52.4	222.1	1,712.1	114.6	104.4	14.4	270.9	51.4	49.4	2,608.6
1993 -												
March	121.6	20.1	54.8	237.6	1,096.7	110.0	118.1	14.7	405.3	43.4	56.2	2,157.0
June	123.1	16.5	70.3	251.9	861.5	104.9	108.3	13.7	388.8	53.9	83.9	1,953.9
September r	123.7	15.2	134.7	84.3	709.4	102.5	95.7	15.5	402.1	66.7	62.6	1,688.8
December	124.3	19.8	208.8	75.7	691.6	102.1	108.5	15.9	407.1	75.3	100.7	1,805.5
COMPLETED												
1990-91	161.4	169.5	521.4	321.0	1,595.9	414.4	195.6	19.2	148.5	160.8	49.6	3,596.1
1991-92	205.1	147.2	166.5	359.5	1,359.8	114.4	183.9	15.6	135.9	188.4	73.1	2,744.3
1992-93	141.6	33.0	265.7	346.2	1,381.4	140.7	173.6	15.2	68.4	67.9	62.4	2,554.5
1992 -												
September	33.2	4.9	111.0	134.1	298.7	34.5	58.6	2.3	8.0	25.3	14.8	692.2
December	39.7	9.8	89.3	180.7	137.6	34.5	46.6	6.3	10.0	10.6	15.9	541.2
1993 -												
March	31.1	3.3	31.5	14.8	665.2	38.8	26.9	2.4	9.3	20.7	28.0	841.0
June	37.7	15.0	33.9	16.6	279.9	32.8	41.5	4.2	41.1	11.3	3.7	480.2
September r	49.8	5.4	35.3	200.5	262.7	28.4	56.8	3.3	41.2	13.6	28.6	675.6
December	61.9	3.3	51.6	41.9	60.0	38.8	32.4	4.5	9.4	23.9	11.4	277.3

TABLE 4. VALUE OF BUILDING ACTIVITY (a) BY CLASS OF BUILDING AND STAGE OF CONSTRUCTION, MELBOURNE STATISTICAL DIVISION, VICTORIA - continued
(\$m)

Period	Non-residential building										Total	
	New other residential buildings (b)	Hotels, etc.	Shops	Factories	Offices	Other business premises	Educational	Religious	Health	Entertainment and recreational		Miscellaneous
	VALUE OF WORK DONE DURING PERIOD											
1990-91	150.1	96.7	361.7	385.1	1,568.2	329.5	210.8	17.7	133.8	139.5	67.0	3,310.1
1991-92	135.6	89.1	150.9	419.5	922.4	110.2	168.3	13.8	76.0	132.2	66.6	2,149.0
1992-93	161.8	23.0	182.0	235.7	592.8	166.8	147.3	16.2	141.1	63.3	84.5	1,652.7
1992 -												
September	38.3	9.0	63.5	45.3	179.5	44.3	33.8	5.9	19.2	16.3	15.4	432.3
December	37.6	5.2	52.3	96.6	161.9	48.0	39.5	3.0	27.4	14.1	15.3	463.3
1993 -												
March	40.0	2.9	26.1	38.1	132.5	36.7	44.8	3.6	40.1	14.0	19.4	358.3
June	45.9	6.0	40.1	55.6	118.8	37.8	29.1	3.7	54.3	18.9	34.4	398.8
September	51.2	7.7	57.6	45.2	87.4	35.3	25.9	4.5	70.9	18.9	15.9	369.3
December	59.2	6.3	52.6	33.4	77.9	26.6	50.0	3.0	43.9	23.4	24.2	341.2
	VALUE OF WORK YET TO BE DONE											
1990-91	36.2	102.7	49.7	282.0	897.2	30.6	69.5	7.4	87.6	107.7	37.3	1,671.8
1991-92	63.2	7.7	50.0	196.8	435.7	65.0	40.9	7.3	85.6	15.0	24.4	928.4
1992-93	53.0	6.6	75.1	29.9	113.2	22.7	59.0	5.7	177.5	37.2	28.9	555.9
1992 -												
September	60.1	5.5	33.4	166.5	319.6	55.3	46.4	7.4	119.8	14.5	24.2	792.7
December	55.6	1.8	15.9	74.2	239.7	44.8	42.2	6.4	119.9	27.8	25.2	597.9
1993 -												
March	60.6	5.5	23.7	66.7	157.2	42.5	38.0	5.6	223.5	26.4	40.6	629.6
June	53.9	10.8	33.1	42.0	89.1	32.5	40.6	5.1	193.9	29.4	37.6	514.0
September	53.1	7.2	75.3	29.8	113.2	23.1	58.9	5.7	177.5	37.2	28.9	556.8
December	56.4	8.9	148.3	29.7	83.8	35.0	54.1	7.7	148.0	46.3	54.3	616.0

(a) Data relating to new houses and alterations and additions to houses are available at the State level only (see Explanatory notes, paragraph 4).

(b) Excludes houses but includes flats, home units, semi-detached houses, villa units, townhouses, etc. For definitions see Explanatory notes, paragraph 9.

TABLE 5. VALUE OF BUILDING ACTIVITY (a) BY CLASS OF BUILDING AND STAGE OF CONSTRUCTION, REMAINDER OF STATE, VICTORIA
(\$m)

Period	Non-residential building										Total	
	New other residential buildings (b)	Hotels, etc.	Shops	Factories	Offices	Other business premises	Educational	Religious	Health	Entertainment and recreational		Miscellaneous
COMMENCED												
1990-91	40.6	23.8	32.2	50.5	27.5	30.5	26.6	5.5	28.2	18.6	23.2	266.5
1991-92	62.8	10.8	19.1	41.5	18.9	26.8	56.4	4.2	35.8	18.3	19.5	251.3
1992-93	28.8	10.6	26.6	93.9	26.0	27.0	30.3	4.0	25.7	31.4	32.1	307.7
1992 -												
September	9.0	1.9	10.1	9.5	11.3	4.0	11.0	0.6	10.0	6.2	6.8	71.4
December	6.5	1.8	5.9	68.7	3.5	5.1	7.1	0.6	5.1	5.3	4.9	107.9
1993 -												
March	5.3	4.0	4.4	6.2	3.5	12.3	8.5	0.8	8.1	11.6	6.4	65.8
June	8.1	2.9	6.3	9.5	7.7	5.6	3.7	2.0	2.5	8.4	14.0	62.6
September r	3.4	4.2	11.6	15.7	10.3	10.5	11.4	0.9	10.2	6.8	4.4	86.0
December	4.4	5.0	7.6	20.0	7.0	12.5	7.7	0.2	10.4	10.0	5.4	85.9
UNDER CONSTRUCTION AT END OF PERIOD												
1990-91	28.4	20.5	15.7	28.4	8.1	12.9	11.2	5.6	30.0	11.4	45.8	189.6
1991-92	35.9	12.2	6.4	36.4	3.8	14.1	41.0	3.3	35.4	6.4	14.8	173.8
1992-93	27.0	14.1	8.7	95.9	16.3	13.0	23.7	3.5	23.8	18.3	23.9	241.2
1992 -												
September	35.7	13.2	12.3	31.5	11.1	12.0	45.8	3.5	43.4	8.6	16.5	198.1
December	30.9	11.1	10.3	92.4	11.0	7.2	46.6	2.9	23.2	9.6	13.2	227.5
1993 -												
March	32.4	13.5	7.7	92.5	12.9	14.6	32.7	2.7	22.5	13.7	12.8	225.6
June	27.0	14.1	8.7	95.9	16.3	13.0	23.7	3.5	23.8	18.3	23.9	241.2
September r	21.2	15.4	12.6	92.5	11.7	12.1	23.9	3.4	22.4	15.5	8.8	218.3
December	20.2	7.0	10.7	81.6	11.3	15.1	23.8	1.1	23.9	17.3	7.9	199.7
COMPLETED												
1990-91	44.9	41.3	38.8	59.7	59.7	42.4	71.2	4.3	46.7	20.6	17.0	401.6
1991-92	42.6	18.6	29.0	30.6	23.5	25.6	26.9	6.0	30.5	22.1	46.9	259.7
1992-93	37.5	9.1	24.1	34.2	14.1	28.9	48.6	4.1	38.9	23.0	22.9	247.9
1992 -												
September	9.9	0.8	4.3	14.2	4.1	6.9	6.6	0.4	2.2	4.1	4.9	48.6
December	11.7	4.2	7.7	7.8	3.6	9.9	6.6	1.6	25.9	4.3	8.2	79.8
1993 -												
March	3.9	1.5	6.9	6.1	2.0	4.2	22.8	1.1	9.0	8.4	6.8	68.7
June	12.1	2.5	5.2	6.1	4.5	7.8	12.5	1.0	1.8	6.3	3.0	50.7
September r	9.3	2.8	7.5	31.5	16.1	11.4	11.6	0.9	11.4	9.8	16.6	119.6
December	5.8	6.0	9.3	30.8	7.5	9.4	7.3	2.6	8.8	8.4	6.8	96.9

TABLE 5. VALUE OF BUILDING ACTIVITY (a) BY CLASS OF BUILDING AND STAGE OF CONSTRUCTION, REMAINDER OF STATE, VICTORIA -- continued
(\$m)

Period	Non-residential building										Total	
	New other residential buildings (b)	Hotels, etc.	Shops	Factories	Offices	Other business premises	Educational	Religious	Health	Entertainment and recreational		Miscellaneous
	VALUE OF WORK DONE DURING PERIOD											
1990-91	44.6	30.3	31.7	54.8	35.6	35.7	48.2	5.3	30.8	21.0	30.8	333.2
1991-92	45.4	13.1	26.4	30.9	20.4	23.5	42.2	4.8	37.3	19.0	37.1	254.7
1992-93	34.5	10.6	25.3	81.6	24.5	29.7	45.1	4.1	37.0	29.1	30.9	318.0
1992 -												
September	7.9	1.7	6.2	15.8	8.3	6.3	16.2	1.2	12.7	4.2	7.5	80.0
December	9.1	2.7	7.6	25.2	5.5	7.5	11.5	1.3	8.4	5.7	5.9	81.3
1993 -												
March	9.0	2.5	5.6	14.3	4.0	7.9	11.6	0.7	9.2	8.6	4.0	68.4
June	8.4	3.7	5.9	26.4	6.7	7.9	5.8	0.9	6.7	10.6	13.5	88.2
September	7.0	3.7	7.3	31.4	10.1	9.8	7.8	1.5	4.7	8.2	4.3	88.7
December	5.4	3.4	10.7	25.1	6.6	12.3	7.0	1.1	5.2	8.9	7.1	87.3
	VALUE OF WORK YET TO BE DONE											
1990-91	10.3	11.7	9.7	12.1	3.4	3.9	3.7	2.2	16.8	4.0	24.6	92.1
1991-92	19.4	8.9	3.1	24.0	2.2	7.7	18.3	1.5	15.4	2.7	4.6	88.4
1992-93	10.0	9.7	8.3	32.8	5.7	6.7	8.7	1.2	11.1	7.2	3.8	95.1
1992 -												
September	21.3	9.0	7.2	17.6	5.3	6.3	13.7	1.1	13.0	4.8	3.9	81.8
December	19.0	8.5	5.2	61.0	3.3	3.9	9.6	0.7	10.3	4.4	3.0	109.7
1993 -												
March	15.3	9.9	3.9	52.9	3.2	7.6	6.9	0.8	9.4	8.2	5.4	108.2
June	13.4	9.3	4.2	36.1	4.4	5.9	4.6	1.7	5.7	8.4	6.0	86.3
September	10.0	9.6	8.3	32.8	5.6	6.7	8.7	1.2	11.1	7.2	3.4	94.6
December	9.4	4.5	5.0	27.7	6.2	6.8	9.0	0.3	16.3	8.6	2.1	86.5

(a) Data relating to new houses and alterations and additions to houses are available at the State level only (see Explanatory notes, paragraph 4).

(b) Excludes houses but includes flats, home units, semi-detached houses, villa units, townhouses, etc. For definitions see Explanatory notes, paragraph 9.

**TABLE 6. NUMBER OF DWELLING UNITS BY STAGE OF CONSTRUCTION, VICTORIA
SEASONALLY ADJUSTED SERIES (a)**

Period	Houses				Total			
	Private sector		Total		Private sector		Total	
	Commenced	Completed	Commenced	Completed	Commenced	Completed	Commenced	Completed
1992 Sept. qtr	5,929	5,969	6,103	6,101	6,467	6,359	6,651	6,638
Dec. qtr	6,325	5,526	6,574	5,628	6,742	6,137	7,089	6,412
1993 Mar. qtr	5,998	7,069	6,389	7,251	6,702	7,587	7,086	7,915
June qtr	6,363	6,139	6,643	6,354	6,883	6,486	7,342	6,915
Sept. qtr r	6,445	7,266	6,694	7,471	7,118	8,076	7,356	8,200
Dec. qtr	6,696	5,540	7,083	5,832	7,576	6,240	7,951	6,782

(a) Series have been revised due to annual re-analysis of seasonal adjustment factors.

**TABLE 7. VALUE OF BUILDING WORK DONE, VICTORIA
SEASONALLY ADJUSTED SERIES (a)
(\$ million)**

Period	New residential building			Alterations and additions to residential buildings	Non-residential building		Total building
	Houses	Other residential buildings	Total		Private sector	Total	
1992 Sept. qtr	532.6	46.1	578.5	144.4	354.8	498.7	1,217.6
Dec. qtr	575.6	45.0	621.2	142.8	394.2	534.5	1,284.3
1993 Mar. qtr	594.1	52.3	646.0	143.3	376.0	494.1	1,288.5
June qtr	585.8	53.1	638.7	148.9	355.3	446.1	1,244.7
Sept. qtr r	621.6	58.3	679.6	148.1	335.5	446.8	1,269.7
Dec. qtr	652.3	62.1	715.3	155.2	291.6	420.5	1,277.8

(a) Series have been revised due to annual re-analysis of seasonal adjustment factors.

**TABLE 8. VALUE OF BUILDING WORK COMMENCED, AT AVERAGE 1989-90 PRICES (a), VICTORIA
(\$ million)**

Period	New residential building			Alterations and additions to residential buildings	Non-residential building		Total building
	Houses	Other residential buildings	Total		Private sector	Total	
1990-91	1,772.5	155.0	1,927.5	507.1	1,744.4	2,269.0	4,703.6
1991-92	1,887.0	245.7	2,132.7	521.8	1,422.3	1,950.5	4,605.0
1992-93	2,175.3	215.6	2,390.9	548.2	1,322.1	1,919.0	4,858.1
1992 Sept. qtr	521.4	50.2	571.6	130.1	268.0	436.2	1,137.9
Dec. qtr	585.6	42.7	628.3	157.7	365.1	458.7	1,244.7
1993 Mar. qtr	496.9	63.3	560.2	126.8	347.4	587.1	1,274.1
June qtr	571.4	59.4	630.8	133.6	341.6	437.0	1,201.4
Sept. qtr r	593.3	66.3	659.6	143.4	406.0	582.0	1,385.0
Dec. qtr	660.6	83.2	743.8	160.8	446.4	605.2	1,509.8

(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 9. VALUE OF BUILDING WORK DONE, AT AVERAGE 1989-90 PRICES (a), VICTORIA
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							
1990-91	2,021.1	198.0	2,219.1	529.2	2,676.7	3,695.4	6,443.7
1991-92	1,870.0	210.1	2,080.1	516.3	1,956.8	2,790.1	5,386.5
1992-93	2,186.4	241.0	2,427.4	554.0	1,831.1	2,437.6	5,419.0
1992 Sept. qtr	508.9	55.1	564.0	135.4	430.9	616.5	1,315.9
Dec. qtr	566.3	56.3	622.6	146.2	487.8	662.5	1,431.3
1993 Mar. qtr	530.0	61.0	591.0	127.3	410.9	536.7	1,255.0
June qtr	581.2	68.6	649.8	145.1	501.5	621.9	1,416.8
Sept. qtr r	599.9	73.4	673.3	140.3	431.6	584.2	1,397.8
Dec. qtr	636.8	81.2	718.0	157.7	377.0	545.2	1,420.9
SEASONALLY ADJUSTED							
1992 Sept. qtr	506.4	55.0	561.1	137.3	426.9	600.1	1,296.1
Dec. qtr	549.7	54.2	604.6	136.3	479.5	650.1	1,374.5
1993 Mar. qtr	570.1	65.1	634.9	137.6	472.9	621.4	1,393.2
June qtr	561.6	67.0	628.3	142.8	453.8	569.7	1,357.7
Sept. qtr r	597.1	71.6	670.2	142.3	428.0	570.0	1,379.4
Dec. qtr	617.8	78.1	696.9	147.0	370.9	535.0	1,363.1

(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 10. NUMBER OF DWELLING UNITS BY OWNERSHIP,
CLASS OF BUILDER AND STAGE OF CONSTRUCTION,
VICTORIA**

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											
1990-91	11,475	8,556	20,032	1,883	21,915	1,062	603	1,665	21,094	2,486	23,580
1991-92	14,785	7,041	21,827	1,887	23,714	565	1,142	1,707	22,392	3,029	25,421
1992-93	17,525	7,107	24,633	2,155	26,788	1,084	283	1,367	25,717	2,438	28,155
1992 Sept. qtr	4,419	1,600	6,019	522	6,541	157	61	218	6,176	583	6,759
Dec. qtr	4,578	2,137	6,715	340	7,055	220	124	344	6,935	464	7,399
1993 Mar. qtr	3,877	1,607	5,484	735	6,219	368	22	390	5,852	757	6,609
June qtr	4,651	1,763	6,414	558	6,972	339	76	415	6,753	634	7,387
Sept. qtr	4,964	1,589	6,553	662	7,215	236	46	272	6,779	708	7,487
Dec. qtr	4,971	2,143	7,114	822	7,936	364	8	372	7,478	830	8,308
UNDER CONSTRUCTION AT END OF PERIOD											
1990-91	3,595	7,530	11,125	1,366	12,491	387	633	1,020	11,512	1,999	13,511
1991-92	4,671	6,285	10,955	1,246	12,201	255	908	1,163	11,210	2,154	13,364
1992-93	5,042	6,006	11,048	1,501	12,549	724	521	1,245	11,772	2,022	13,794
1992 Sept. qtr	4,940	6,195	11,135	1,440	12,575	274	666	940	11,409	2,106	13,515
Dec. qtr	5,136	6,394	11,530	1,151	12,681	366	662	1,028	11,896	1,813	13,709
1993 Mar. qtr	4,949	6,045	10,994	1,401	12,395	602	622	1,224	11,596	2,023	13,619
June qtr	5,042	6,006	11,048	1,501	12,549	724	521	1,245	11,772	2,022	13,794
Sept. qtr	5,313	5,145	10,458	1,460	11,918	730	417	1,147	11,188	1,877	13,065
Dec. qtr	5,476	5,758	11,234	1,551	12,785	742	226	968	11,976	1,777	13,753
COMPLETED											
1990-91	12,691	11,318	24,009	2,318	26,327	1,206	580	1,786	25,215	2,898	28,113
1991-92	13,765	7,945	21,710	1,998	23,708	691	867	1,558	22,401	2,865	25,266
1992-93	17,185	7,297	24,481	1,898	26,379	618	668	1,286	25,099	2,566	27,665
1992 Sept. qtr	4,118	1,705	5,823	328	6,151	141	301	442	5,964	629	6,593
Dec. qtr	4,382	1,922	6,304	627	6,931	128	128	256	6,432	755	7,187
1993 Mar. qtr	4,096	1,924	6,021	485	6,506	132	62	194	6,153	547	6,700
June qtr	4,589	1,744	6,333	458	6,791	217	177	394	6,550	635	7,185
Sept. qtr	4,758	2,335	7,093	703	7,796	215	150	365	7,308	853	8,161
Dec. qtr	4,807	1,514	6,321	731	7,052	346	199	545	6,667	930	7,597

**TABLE 11. SUMMARY OF BUILDING ACTIVITY, VICTORIA
RELATIVE STANDARD ERRORS (PER CENT)
DECEMBER QUARTER 1993**

Ownership and stage of construction	New residential building				Alterations and additions to residential buildings	Total building
	Houses		Total			
	Number	Value	Number of dwelling units	Value		
PRIVATE SECTOR						
Commenced	2.5	2.9	2.2	2.6	3.4	1.6
Under construction at end of period	2.9	3.1	2.6	2.7	3.8	1.2
Completed	4.1	4.6	3.7	4.2	5.3	2.7
Value of work done	..	2.8	..	2.6	3.2	1.6
Value of work yet to be done	..	3.8	..	3.3	5.0	1.7
TOTAL PRIVATE AND PUBLIC SECTORS						
Commenced	2.4	2.8	2.1	2.6	3.4	1.4
Under construction at end of period	2.8	2.9	2.4	2.6	3.8	1.0
Completed	3.9	4.5	3.4	4.0	5.3	2.4
Value of work done	..	2.7	..	2.5	3.2	1.4
Value of work yet to be done	..	3.6	..	3.2	5.0	1.4

EXPLANATORY NOTES

Introduction

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

2. The statistics are compiled on the basis of returns collected from builders and other individuals and organisations engaged in building activity. The quarterly survey consists of two components.

- (a) A sample survey of private sector house building activity involving new house construction or alterations and additions valued at \$10,000 or more to houses.
- (b) A complete enumeration of jobs involving construction of new residential buildings other than private sector houses, all alterations and additions to residential buildings (other than private sector houses) with an approval value of \$10,000 or more, and all non-residential building jobs with an approval value of \$50,000 or more.

3. From the September quarter 1990, only non-residential building jobs (both new and alterations and additions) with an approval value of \$50,000 or more are included in the survey. For the September quarter 1985 to June quarter 1990, the cut-off for inclusion was \$30,000 or more and prior to that 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 on building jobs up to the end of the period.

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, guesthouses, 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 11.

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 11). 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 6, 7 and 9. 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 the movement in the date of Easter which may, in successive years, affect figures for different quarters. In this publication (*i.e.* the December quarter issue) the seasonally adjusted series have been revised as a result of the annual re-analysis of seasonal factors. 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 8 and 9. 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.

Unpublished data and related publications

27. 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. For details of what further information is available and its cost, please telephone this publication's contact officer (shown on the front page).

28. 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, Victoria (8731.2) – monthly (\$11.00)
Dwelling Unit Commencements Reported by Approving Authorities, Victoria (8741.2) – monthly (\$11.00)
Building Activity, Australia : Dwelling Unit Commencements, Preliminary (8750.0) – quarterly (\$11.00)
Building Activity, Australia (8752.0) – quarterly (\$14.50)
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 — nil or rounded to zero
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30. Where figures have been rounded, discrepancies may occur between sums of the component items and totals.

STUART JACKSON
Deputy Commonwealth Statistician



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