

DECEMBER QUARTER 2000

WORK DONE

CONSTRUCTION

8755.0

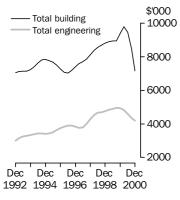
AUSTRALIA

PRELIMINARY

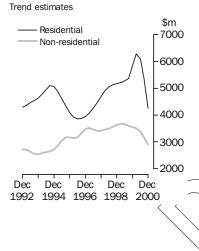
EMBARGO: 11:30AM (CANBERRA TIME) FRI 2 MAR 2001 Re-released data for illustrative purposes only

Value of construction work done Volume terms

Trend estimate



Value of building work done Volume terms



SEPTEMBER QTR KEY FIGURES

TREND ESTIMATES(a)	Dec qtr 00 \$m	Sep qtr 00 to Dec qtr 00 % change	Dec qtr 99 to Dec qtr 00 % change
Value of building work done	7 177.1	15.4	-23.5
Total residential building	4 261.9	< \−20.0	-26.9
Non-residential building	2 909.2	/-7.8	-18.2
Value of engineering work done	4 188.3	-4.0	-15.3
Value of construction work done	11 318,1	-11.9	-21.0
	· · · · · · · · · · · · · · · · · · ·	••••	
	\sim ///	Sep qtr 00 to	Dec gtr 99 to
SEASONALLY ADJUSTED(a)	Dec qtr 00 \$m	Dec qtr 00 % change	Dec qtr 00 % change
SEASONALLY ADJUSTED(a) Value of building work done		\checkmark Dec qtr 00	•
	\$m	Dec qtr 00 % change	% change
Value of building work done	\$m 7,012.4	Dec qtr 00 % change -10.1	% change -22.2
Value of building work done Total residential building	\$m 7,012.4 4 192.0	Dec qtr 00 % change -10.1 -11.5	% change -22.2 -24.1
Value of building work done Total residential building Non-residential building	\$m 7 012.4 4 192.0 2 820.4	Dec qtr 00 % change -10.1 -11.5 -8.0	% change -22.2 -24.1 -19.1

(a) Chain volume measures, reference year 1998–99.

SEPTEMBER QTR KEY POINTS

VALUE OF WORK DONE, VOLUME TERMS

TREND ESTIMATES

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SEASONALLY ADJUSTED ESTIMATES

VALUE OF WORK DONE, CURRENT PRICES

SEASONALLY ADJUSTED ESTIMATES

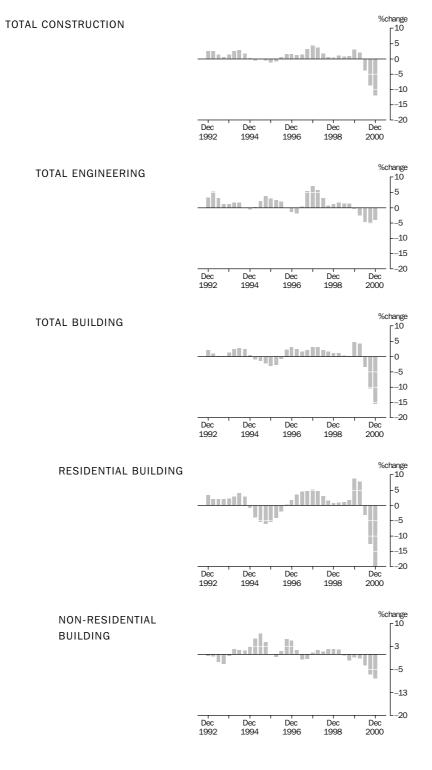
 For further information about these and related statistics, contact Tony Barmann on Adelaide 08 8237 7316, or the National Information Service on 1300 135 070.

ΝΟΤΕՏ

	NOTES	
FORTHCOMING ISSUES	ISSUE (Quarter)	RELEASE DATE
	March 2001	31 May 2001
	June 2001	6 September 2001
	• • • • • • • • • • • • • • • • • • • •	• • • • • • • • • • • • • • • • • • • •
ABOUT THIS ISSUE	This publication provides an early indication construction activity. The data are estimate 85% of the value of building work and 80% during the quarter. More comprehensive an <i>Building Activity, Australia</i> (Cat. no. 8752. <i>Construction Activity, Australia</i> (Cat. no. 8	s based on a response rate of approximately of the value of engineering work done nd updated results will be released in 0) on 19 July 2001 and in <i>Engineering</i>
CHANGES IN THIS ISSUE	This publication now includes preliminary	figures on engineering construction activity.
DATA NOTES	Wholesale Sales Tax and the introduction of data series will reflect significant immediate Users should exercise caution in analysing	varying degrees as a result of The New Tax n TJuly 2000. TNTS included the removal of f a GST, and as a result, a wide range of ABS and subsequent impacts. movements in the value series as the series f building activity prior to 1 July 2000, and the

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TREND PERCENTAGE CHANGE



(a) Reference year 1998-99.

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	BUILDING WORK DO			ENGINE WORK	ERING DONE(b)		CONSTRU WORK DO		
Period	Private	Public	Total	Private	Public	Total	Private	Public	Total
• • • • • • • • • • • •	• • • • • • • • • • •			ORIGINAL (\$m)		• • • • • • • • • •		
1997–98	28 784.5	4 217.1	33 000.6	7 375.4	10 013.3	17 390.5	36 154.6	14 226.4	51 635.2
1998–99 1999–00	30 979.2 34 263.3	4 309.5 4 134.8	35 288.8 38 398.1	8 425.3 7 440.3	10 758.6 11 813.9	19 183.9 19 254.2	39 404.5 41 703.6	15 068.1 15 948.7	54 472.6 57 652.3
1999-00	54 205.5	4 104.0	56 556.1	7 440.5	11 010.9	19 204.2	41 /03.0	10 940.7	57 052.5
1999									
Sep qtr Dec qtr	8 284.0 8 453.8	1 049.0 1 064.1	9 333.0 9 517.9	2 121.3 2 038.0	2 565.8 3 016.5	4 687.1 5 054.6	10 405.3 10 491.8	3 614.8 4 080.6	14 020.1 14 572.5
	0 100.0	1 00 111	0 011.0	2 000.0	0 010.0	0 00 1.0	10 101.0	1 000.0	11012.0
2000									
Mar qtr Jun qtr	7 937.9	888.7 1 133.0	8 826.6 10 720.7	1 656.1 1 624.9	2 955.8 3 275.7	4 611.9 4 900.6	9 594.0 11 212.6√	3 844.6	13 438.5 15 621.3
Sep atr	9 587.6 6 977.7	988.3	7 966.0	1 560.7	2 672.1	4 900.8	8 538.4	3 660.4	12 198.9
Dec qtr	6 453.9	948.6	7 402.5	1 559.2	2 523.9	4 083.2	8 013.1	3 472.6	11 485.7
			SEASO	NALLY ADJU	STED (\$m	ı) /		\sim	
1999					- ()	, 	$\backslash \backslash$		
Sep qtr	8 061.1	1 076.2	9 131.8	2 028.5	2 877.7	4 906.2	10 089.6	3 953.7	14 038.0
Dec qtr	7 955.5	1 051.4	9 011.8	1 943.4	3 069.4	5 012.8	9,898.9	4 120.8	14 024.6
2000							\rightarrow		
Mar gtr	8 628.2	959.2	9 574.5	1 801.5	3 062.4	4 863.9	10 429.8	4 022.4	14 438.4
Jun qtr	9 618.5	1 048.0	10 680.1	1 666.9	2 8ø4.#	4471,3	> 11 285.4	3 851.8	15 151.4
Sep qtr	6 802.4	1 011.2	7 804.0	1 487.5	3 005.7	4 493.1 ~	8 289.9	4 033.4	12 297.2
Dec qtr	6 083.6	928.8	7 012.4	1 484.1	2 579.6	4 063.7	7 567.7	3 505.7	11 076.1
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1000			TRE	ND ESTIMAT	ES (\$m)				
1999 Sep atr	7 905.7	1 053.3	8 959.0	2 040.9	2,922.0	4 962.9	9 954.8	3 948.2	13 903.0
Dec gtr	8 358.0	1 028.6	9 386.6 /	2 040.9 1⁄941.5	3 001.0	4 902.9 4 942.5	9 954.8 10 301.4	3 946.2 4 026.4	13 903.0 14 327.8
200 qu			$\langle \rangle$		~····				
2000				$\langle \langle \rangle$					
Mar qtr	8 775.5	1 017.8	\$ 793.3	<u>)</u> 1,797.6	3 019.6	4 817.2	10 571.6	4 042.3	14 613.9
Jun qtr	8 460.7	1 008.7	9 469.4	1,656.2	2 940.2	4 596.4	10 118.8	3 951.5	14 070.3
Sep qtr	7 489.0	992.6	8\481.6		2 825.1	4 362.0	9 026.8	3 819.3	12 846.1
Dec qtr	6 210.6	966.5	7 177.1	1 459.7	2 728.6	4 188.3	7 655.3	3 662.8	11 318.1
• • • • • • • • • • • •	•••••	/·/·/		• • • • • • • • •	•••••	• • • • • • • • • •	•••••	• • • • • • • •	

(a) Reference year for chain volume measures is 1998–99. See paragraphs 29–32 of the

(b) Engineering work done is classified by the sector of intended owner.

Explanatory Notes.

	BUILDI WORK [NG DONE		ENGINE WORK D				CONSTRUCTION WORK DONE		
Period	Private	Public	Total	Private	Public	Total	Private	Public	Total	
• • • • • • • • • • • •	•••••					• • • • • • • •				
		ORIGIN	AL (% ch	ange from pi	receding	g period)				
1997-98	11.9	1.4	10.5	27.9	3.3	12.4	14.9	2.7	10.8	
1998–99	7.6	2.2	6.9	14.2	7.4	10.3	9.0	5.9	5.5	
1999–00	10.6	-4.1	8.8	-11.7	9.8	0.4	5.8	5.8	5.8	
1999										
Sep qtr	5.9	-6.8	4.3	2.1	-20.7	-11.8	5.1	-17.2	-1.1	
Dec qtr	2.0	1.4	2.0	-3.9	17.6	7.8	0.8	12.9	3.9	
2000										
Mar qtr	-6.1	-16.5	-7.3	-18.7	-2.0	-8.8	-8.6	-5.8		
Jun qtr	20.8	27.5	21.5	-1.9	10.8	6.3	16.9	14.7	46.2	
Sep qtr	-27.2	-12.8	-25.7	-4.0	-18.4	-13.6	-23.8	-17.0	\-24.9	
Dec qtr	-7.5	-4.0	-7.1	-0.1	-5.5	-3.5	-6.2	-5.1	<u></u> 8	
•••••	•••••	• • • • • • •	• • • • • • •	• • • • • • • • • •	••••	•••••	•••••	•••••	\sim	
	SEASC	ONALLY A	ADJUSTED) (% change	from pr	eceding p	eriod) 🔨	<hr/>	\sim	
1999							\land	\mathbf{i}	\wedge	
Sep qtr	2.6	2.1	2.4	-5.0	3.6	-0.1	$\langle 0.7 \rangle$	3.1	2.0	
Dec qtr	-1.3	-2.3	-1.3	-4.2	6.7	2.2	-1.9	4.2	-0.1	
2000							$\langle \nabla \rangle$	\rightarrow		
Mar qtr	8.5	-8.8	6.2	-7.3	-0.2	-3.0	5.4	∕	3.0	
Jun qtr	11.5	9.3	11.5	-7.5	-8.4	/-8.1	8.3	-4.2	4.9	
Sep qtr	-29.3	-3.5	-26.9	-10.8	7.2	0.5	-26.5	4.7	-18.8	
Dec qtr	-10.6	-8.1	-10.1	-0.2	-14.2	\- <u>9</u> 6) -8.7	-13.1	-9.9	
•••••	•••••	• • • • • • •	•••••	• • • • • • • • • •	·/···			• • • • • •	• • • • • •	
	TRE	ND ESTI	MATES (9	% change fr6	óm∢preco	eding perio	(bc			
1999				/						
Sep qtr	0.7	-3.2	0.2	/-2.3	4.0	1.3	0.0	2.7	0.8	
Dec qtr	5.7	-2.3	4.8	4.9	2.₹	> -0.4	3.5	2.0	3.1	
2000										
Mar qtr	5.0	-1.0	4.3	7.4	0.6	-2.5	2.6	0.4	2.0	
Jun qtr	-3.6	-0.9	-3/3 r	-7.9	-2.6	-4.6	-4.3	-2.2	-3.7	
Sep qtr	-11.5	-1.6	-10.4	$\sqrt{2}$ $\sqrt{-7}^2$	-3.9	-5.1	-10.8	-3.3	-8.7	
Dec qtr	-17.1	-2.6		~_5.0	-3.4	-4.0	-15.2	-4.1	-11.9	
•••••	•••••	• • •/• •/•	$) \sim $	··	••••	••••	•••••	• • • • • •	• • • • • •	
(a) Reference year for	or chain volume	e measures	is 1998-92	 ✓ ✓ See paragraph 	s 29–32 c	of the				

(a) Reference year for cl See paragraphs 29–32 of the Explanatory Notes.

(b) Engineering work done is classified by the sector of intended owner.

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	BUILDING WORK DO			ENGINEI WORK D	ERING ONE(b)		CONSTRI WORK DO		
Period	Private	Public	Total	Private	Public	Total	Private	Public	Total
• • • • • • • • • • •		•••••		ORIGINAL (\$	m)		• • • • • • • • •	• • • • • • •	• • • • • • •
1997–98	27 990.1	4 077.4	32 067.6	7 278.1	9 949.8	17 227.9	35 268.2	14 027.2	49 295.5
1998–99 1999–00	30 979.2 35 958.4	4 309.5 4 283.4	35 288.7 40 241.9	8 425.3 7 786.0	10 758.0 12 121.6	19 183.3 19 907.5	39 404.5 43 744.4	15 067.5 16 405.0	54 472.0 60 149.4
1999									
Sep qtr Dec qtr	8 489.3 8 774.6	1 071.9 1 097.9	9 561.2 9 872.5	2 194.7 2 127.6	2 598.2 3 075.5	4 792.9 5 203.1	10 684.0 10 902.2	3 670.1 4 173.4	14 354.1 15 075.6
2000									
Mar qtr Jun qtr	8 392.7 10 301.9	925.6 1 188.0	9 318.3 11 489.8	1 736.5 1 727.2	3 037.4 3 410.5	4 773.9 5 137.7	10 129.2 12 029.1	3 963.0 4 598.5	14 092.2 16 627.5
Sep qtr Dec qtr	8 006.4 7 399.7	1 052.0 1 010.9	9 058.3 8 410.6	1 669.4 1 680.6	2 800.3 2 667.1	4 469.6 4 347.7	9 675.8 9 080. 3	3 852.3 3 678.0	13 527.9 12 758.3
• • • • • • • • • • • •	• • • • • • • • • • •	•••••			••••	• • • • • • • • •			•••••
1999			SEASO	NALLY ADJUS	STED (\$m) <	\backslash ,	\sim	
Sep gtr	8 268.5	1 095.1	9 363.6	2 092.7	2 915.7	5 008.3	10,361.2	> 4 010.8	14 371.9
Dec qtr	8 270.7	1 077.6	9 348.3	2 022.7	3 135.9	5 158.6	10 293.4	4 213.5	14 506.9
2000							\rightarrow		
Mar qtr	9 141.8	990.5	10 132.3	1 883.1	3 156.6	5 039,7	11 024.9	4 147.1	15 172.0
Jun qtr	10 359.4	1 089.0	11 448.4	1 766.1	2 930.2	4 696.3	12 125.5	4 019.2	16 144.7
Sep qtr	7 802.6	1 079.3	8 881.9	1 590.3	3 140.4	4 730.8 4 317.1	9 392.9	4 219.7	13 612.7
Dec qtr	6 972.6	989.4	7 962.0	1 599.0	2 ×18.2	4 31 (.1	8 571.6	3 707.6	12 279.1
• • • • • • • • • •	• • • • • • • • • • •	•••••	TDEN	ND ESTIMATE	(\$m)	·····	•••••	•••••	•••••
1999			INEI		J (ψΠ)				
Sep qtr	8 148.1	1 034.1	9 182.2	2 089.0	2 956.2	5 045.2	10 237.1	3 990.3	14 227.4
Dec qtr	8 395.5	1 083.9	9 479.4	2 016.1	3 067.1	5 083.2	10 411.6	4 151.0	14 562.6
2000			\backslash	\sim					
Mar qtr	8 595.8	1 231.8	\$ 827.6	1,887.1	3 116.9	5 003.9	10 482.9	4 348.7	14 831.5
Jun qtr	8 428.7	1 307.0	9 735.7	1752.8	3 061.3	4 814.1	10 181.5	4 368.3	14 549.8
Sep qtr	7 919.0	1 242.8	9\164.8	1 642.3	2 960.2	4 602.5	9 561.3	4 203.0	13 764.3
Dec qtr	7 196.1	1 084.8	8 280.9	∼ 1 565.4	2 851.2	4 416.6	8 761.5	3 936.0	12 697.5
•••••	•••••	$\langle \cdot \rangle$		• • • • • • • • • •	••••	• • • • • • • • • •	•••••	• • • • • • •	•••••

(a) From the September quarter 2000 data is inclusive of the non-deductible GST payable on residential buildings.

(b) Engineering work done is classified by the sector of intended owner.

	BUILDII WORK I	NG DONE		ENGINEI WORK D				RUCTION	
Period	Private	Public	Total	Private	Public	Total	Private	Public	Total
•••••	• • • • • • • •	• • • • • • •	• • • • • • •	•••••	• • • • • •		•••••		• • • • •
		ORIGIN	AL (% cha	ange from pr	eceding	period)			
1997–98	14.3	5.0	13.0	29.3	4.4	13.6	17.1	4.5	13.2
1998–99	10.7	5.7	10.0	15.8	8.1	11.4	11.7	7.4	10.5
1999–00	16.1	-0.6	14.0	-7.6	12.7	3.8	11.0	8.9	10.4
1999									
Sep qtr	7.1	-6.1	5.4	5.6	-19.8	-9.9	6.8	-16.2	-0.2
Dec qtr	3.4	2.4	3.3	-3.1	18.4	8.6	2.0	13.7	5.0
2000									
Mar qtr	-4.4	-15.7	-5.6	-18.4	-1.2	-8.2	-7.1	-5.0	,6.5
Jun qtr	22.7	28.3	23.3	-0.5	12.3	7.6	18.8	16.0	18.0
Sep qtr	-22.3	-11.4	-21.2	-3.3	-17.9	-13.0	-19.6	-16.2	∖_18.6
Dec qtr	-7.6	-3.9	-7.2	0.7	-4.8	-2.7	-6.2	4.5	∕_1_5\7
•••••	• • • • • • • •	• • • • • • •	• • • • • • •	•••••	• • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • • •	\cdots
	SEASO	DNALLY A	DJUSTED	(% change	from pre	eceding pe	eriod) 🔿		\sim
1999							\land	\backslash	\land
Sep qtr	3.8	2.7	3.6	-1.7	4.9	2.0	2.6	4.3	3.1
Dec qtr	0.0	-1.6	-0.2	-3.3	7.6	3.0	-0.7	5.1	0.9
2000						<	$\langle \frown \rangle$	\sum	
Mar qtr	10.5	-8.1	8.4	-6.9	0.7	-2.3	7,1	~ -1.6	4.6
Jun qtr	13.3	9.9	13.0	-6.2	-7.2	/-Ø.8	10.0	-3.1	6.4
Sep qtr	-24.7	-0.9	-22.4	-10.0	7.2	0.7)_22.5	5.0	-15.7
Dec qtr	-10.6	-8.3	-10.4	0.5	-13.4	8.Z	/ / -8.7	-12.1	-9.8
• • • • • • • • • • • •					<i>,</i> , ,				
	TRE	END ESTI	MATES (9	6 change fro	msprece	eding perio	(bc		
1999									
Sep qtr	1.9	-6.2	0.9	/-0,8	4.9 \	2.4	1.3	1.8	1.4
Dec qtr	3.0	4.8	3.2	-3.5	3.8	> 0.8	1.7	4.0	2.4
2000									
Mar qtr	2.4	13.6	3.7	-6.4	1.6	-1.6	0.7	4.8	1.8
Jun gtr	-1.9	6.1	-0.9	-7.1	-1.8	-3.8	-2.9	0.5	-1.9
Sep qtr	-6.0	-4.9	-5.9	<u> </u>	-3.3	-4.4	-6.1	-3.8	-5.4
Dec qtr	-9.1	-12.7	9.6 \	-4.7	-3.7	-4.0	-8.4	-6.4	-7.8
••••		/./.	$) \sim 1$	········	• • • • • •				• • • • •

(a) From the September quarter 2000 data is inclusive of the non-deductible GST payable on residential buildings.

(b) Engineering work done is classified by the sector of intended owner.

	NEW RESIDEN	ITIAL	ALTERAT AND AD TO RESI BUILDIN	DITIONS	TOTAL RESIDEN	ITIAL	NON- RESIDEN	ITIAL	TOTAL BUILDING	G
Period	Private	Total	Private	Total	Private	Total	Private	Total	Private	Total
••••	• • • • • • • • • • •	• • • • • • • • •	• • • • • • • •	ORIGIN	IAL (\$m)		• • • • • • • • •	• • • • • • • • •	•••••	••••
				onnann	ι/(Ε (φ)					
1997–98	15 696.9	16 090.2	2 976.4	3 063.3	18 673.7	19 153.8	10 111.8	13 851.0	28 784.5	33 000.6
1998–99		17 504.9	3 155.5	3 249.4		20 754.3	10 824.7	14 534.4	30 979.2	
1999–00	20 116.2	20 539.7	3 571.4	3 679.1	23 687.6	24 218.9	10 575.7	14 179.3	34 263.3	38 398.1
1999										
Sep qtr	4 559.8	4 686.7	851.8	887.2	5 411.5	5 573.8	2 872.5	3 759.1	8 284.0	9 333.0
Dec qtr	4 758.0	4 875.2	908.6	925.9	5 666.5	5 801.1	2 787.2	3 716.8	8 453.8	9 517.9
2000								\wedge		
Mar qtr	4 807.0	4 898.8	809.0	831.3	5 616.0	5 730.0	2 321.9	3 oʻqe.je	7 937.9	8 826.6
Jun qtr	5 991.5	6 079.1	1 002.0	1 034.7	6 993.5	7 113.9	2 594.1/	~3-606.8	9 587.6	10 720.7
Sep qtr	4 063.4	4 167.2	634.2	658.3	4 697.6	4 825.5	2 280.1	3-140.4	6 977.7	7 966.0
Dec qtr	3 592.8	3 686.2	688.4	708.2	4 281.2	4 394.4	2 172.7	3 008.2	> 6 453.9	7 402.5
••••	• • • • • • • • • • •	• • • • • • • • •	• • • • • • • •	•••••	• • • • • • • • •		\sim	~~~~	•••••	••••
1999			SE	ASONALLY	ADJUSTED	(\$m)	$\langle / / /$	$\langle \rangle \rangle$		
Sep atr	4 515.9	4 584.0	845.5	882.9	5 319.2	5 466.9	2,738.3	3 664.9	8 061.1	9 131.8
Dec atr	4 515.9	4 671.4	834.5	852.9	5 360.5	5 523.5 V	2 589.5	3 488.4	7 955.5	9 011.8
Dee qu	+ 551.+	4011.4	004.0	002.1	0 000.0	5 525.5		0 400.4	1 000.0	5 011.0
2000						$\langle \ \rangle$	$\langle \rangle$			
Mar qtr	5 065.3	5 241.3	883.3	905.7	6 029.1	(6147.)	[√] 2 579.3	3 427.4	8 628.2	9 574.5
Jun qtr	5 977.6	6 043.1	1 008.1	1 038.3	6 978.X	7 081.4	2 668.6	3 598.6	9 618.5	10 680.1
Sep qtr	4 011.1	4 082.0	630.6	655.4	4 625.1	4 737.4	2 176.9	3 066.7	6 802.4	7 804.0
Dec qtr	3 468.7	3 539.1	636.9	653.0	4 056.0	4 192 .0	2 018.5	2 820.4	6 083.6	7 012.4
•••••	• • • • • • • • • • •	• • • • • • • • •	••••			•••••	• • • • • • • • •	•••••	•••••	•••••
1999				TREND EST	IMATES (\$1	m)				
Sep atr	4 415.9	4 527.0	816.4	841.8	5 218.8	5 368.7	2 692.3	3 596.2	7 905.7	8 959.0
Dec qtr	4 415.9 4 814.7	4 931.2	810.4	898.4	5 685.4	5 829.5	2 668.3	3 590.2 3 557.3	8 358.0	9 386.6
·			\sim							
2000			$\langle \nu \rangle$	$\sim \!$						
Mar qtr	5 227.4	5 348.9	909.2	> 934.0	6 157.0	6 282.9	2 615.2	3 509.6	8 775.5	9 793.3
Jun qtr	5 102.9	5 204.3	858\4 \	883.5	5 976.5	6 089.1	2 489.4	3 379.0	8 460.7	9 469.4
Sep qtr	4 478.0	4 551.2	749.6	773.7	5 211.8	5 325.9	2 282.3	3 155.3	7 489.0	8 481.6
Dec qtr	3 577.7	3 660.5	625.7	645.6	4 135.0	4 261.9	2 051.0	2 909.2	6 210.6	7 177.1
•••••	• • • • • • • • • • •	\sim	í (• • • • • • • • •	• • • • • • • • •			•••••	•••••	•••••
			<u> </u>							

(a) Reference year for chain volume measures is 1998-99. See paragraphs 29-32 of the

Explanatory Notes.

5

	NEW RESIDE	NTIAL	ALTERAT AND ADI TO RESII BUILDIN	DITIONS DENTIAL	TOTAL RESIDEI	NTIAL	NON- RESIDEN	NTIAL	TOTAL BUILDIN	۱G
Period	Private	Total	Private	Total	Private	Total	Private	Total	Private	Total
• • • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • •	ORIGINAL	(% change 1	from preced	ling period)	•••••	• • • • • • • • •	••••	• • • • • •
1997-98	20.6	19.1	16.1	16.4	19.9	18.7	-0.8	0.5	11.9	10.5
1998-99	8.3	8.8	6.0	6.1	7.9	8.4	7.0	4.9	7.6	6.9
1999–00	18.3	17.3	13.2	13.2	17.5	16.7	-2.3	-2.4	10.6	8.8
1999										
Sep qtr	5.0	4.9	9.9	11.3	5.8	5.9	6.2	2.1	5.9	4.3
Dec qtr	4.3	4.0	6.7	4.4	4.7	4.1	-3.0	-1.1	2.0	2.0
2000								\wedge		
Mar gtr	1.0	0.5	-11.0	-10.2	-0.9	-1.2	-16.7	-16.7	-6.1	-7.3
Jun gtr	24.6	24.1	23.9	24.5	24.5	24.2	11.7	16.5	20.8	21.5
Sep gtr	-32.2	-31.5	-36.7	-36.4	-32.8	-32.2	-12.1	-12.9	-27.2	-25.7
Dec qtr	-11.6	-11.5	8.5	7.6	-8.9	-8.9	-4.7	-4.2	-7.5	-7.1
•••••		•••••	•••••	•••••	•••••			••••	•••••	• • • • • •
1999		SEASO	NALLY ADJU	JSTED (% cl	hange from	preceding	quarter)	\checkmark		
	4 5	0.0	0.7	40 5	4.0				0.0	0.4
Sep qtr	4.5	2.9	8.7	10.5	4.0	4.1		✓-0.2	2.6	2.4
Dec qtr	0.9	1.9	-1.3	-3.5	0.8	1.0	-5.4	-4.8	-1.3	-1.3
2000					/	$\langle \frown \rangle$				
Mar qtr	11.1	12.2	5.9	6.3	12.5	(11.3 \	∕_−0.4	-1.7	8.5	6.2
Jun qtr	18.0	15.3	14.1	14.6	15.8 \	(15.2)) 3.5	5.0	11.5	11.5
Sep qtr	-32.9	-32.5	-37.4	-36.9	33.7	<u>-33.1</u>	-18.4	-14.8	-29.3	-26.9
Dec qtr	-13.5	-13.3	1.0	-0.4	/12.3	-11.5	-7.3	-8.0	-10.6	-10.1
•••••	• • • • • • • • • •	•••••	• • • • • • • • •			• • • • • • • • •	• • • • • • • •	• • • • • • • • •	•••••	• • • • • •
1999		TRE	ND ESTIMA	ſES (%∕chăr	nge from pr	eceding qu	arter)			
Sep gtr	2.0	17	1.8	/ ./	\rightarrow	1.8	-1.5	-2.0	0.7	0.0
	2.0 9.0	1.7 8.9	1.8 6.9	20	/ 1.7 8.9		-1.5 -0.9	-2.0 -1.1	0.7 5.7	0.2
Dec qtr	9.0	8.9	0.9	<u>v.</u> (8.9	8.6	-0.9	-1.1	5.7	4.8
2000			1		\rangle					
Mar qtr	8.6	8.5	4.2	$\langle \rangle \stackrel{4.0}{\sim}$	8.3	7.8	-2.0	-1.3	5.0	4.3
Jun qtr	-2.4	-2.7	5.6	/_5.4	-2.9	-3.1	-4.8	-3.7	-3.6	-3.3
Sep qtr	-12.2	-12.5	12,7		-12.8	-12.5	-8.3	-6.6	-11.5	-10.4
Dec qtr	-20.1	-19.6	-16.5		-20.7	-20.0	-10.1	-7.8	-17.1	-15.4
		\backslash	\sim / \sim)	7						

Explanatory Notes.

6

	NEW RESIDENT	TAL(a)	AND AD TO RESI	DITIONS DENTIAL	TOTAL RESIDEN	TIAL(a)	NON- RESIDENT	TAL	TOTAL BUILDING	i
Period	Private	Total	Private	Total	Private	Total	Private	Total	Private	Total
• • • • • • • • • •	RESIDENTIAL(a) BUILDING(a) RESIDENTIAL(a) RESIDENTIAL(a) BUILDING Private Total Private 99 16 999.0 17 504.9 3 155.5 3 249.4 20 154.6 20 754.3 10 820.7 3 079.2 3 079.2 3 079.2 3 079.2 3 079.2 3 074.6 9 06 3 079.2 3 074.6 9 06 3 074.6 9 06 3 074.6 9 07.5 5 717.3 2 938.1 3 839.2 8 393.2 3 30.9 1 30.9		• • • • • • • •							
1997–98	15 343.4	15 728.3	2 925.1	3 010.7	18 268.5	18 738.9	9 721.6	13 328.7	27 990.1	32 067.6
1998–99										35 288.7
1999–00	21 217.0	21 658.8	3 779.4	3 892.9	24 996.4	25 551.7	10 962.0	14 690.1	35 958.4	40 241.9
1999										
Sep qtr	4 676.6	4 806.4	874.6	910.9	5 551.2	5 717.3	2 938.1	3 843.9	8 489.3	9 561.2
Dec qtr	4 950.7	5 072.2	946.0	964.1	5 896.7	6 036.3	2 877.8	3 836.2	8 774.6	9 872.5
2000								\wedge		
Mar qtr	5 108.8	5 205.7	863.6	887.3	5 972.4	6 093.0	2 420.3	\$ 225.3	8 392.7	9 318.3
Jun qtr	6 480.9	6 574.5	1 095.1	1 130.6	7 576.0	7 705.1			10 301.9	11 489.8
Sep qtr										9 058.3
Dec qtr	4 272.0	4 381.0	825.3	849.1	5 097.3	5 230.1	2 302.4	3 180.5	7 399.7	8 410.6
• • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • •	• • • • • • • • •	SEASONAL	LY ADJUSTEI	⊃(\$m) <		\rightarrow		•••••
1999							$ / / / \sim$			
Sep qtr	4 627.3	4 714.1	867.3	907.5	5 462.9	5 612.8	2 798.3⁄	3 744.6	8 268.5	9 363.6
Dec qtr	4 733.9	4 839.8	867.8	888.6	5 588.5	5 723.5	2 671.8	3 597.1	8 270.7	9 348.3
2000							$\langle \rangle$			
Mar qtr	5 371.2	5 598.0	941.6	968.6	6 426.\$	6 583.1	2 687.0	3 566.2	9 141.8	10 132.3
Jun qtr	6 449.3	6 555.4	1 100.1	1 136.8	7 579.4	7 695.2	2 802.8	3 772.2	10 359.4	11 448.4
Sep qtr	4 776.5	4 866.8	756.9	786.4		5-644.8	2 297.5	3 231.6	7 802.6	8 881.9
Dec qtr	4 126.4	4 179.6	763.9	783.0	4 829.5	4.957.7	2 136.7	2 981.0	6 972.6	7 962.0
• • • • • • • • • •	• • • • • • • • • • •	• • • • • • • • •	•••••	TREAD	ESTIMATES (••••••••••	• • • • • • • • • •	•••••		••••
1999				mana	LONGIA LO (ψIII)				
Sep atr	4 565.5	4 683.4	839.5	/871.9 /	5 409.1	5 546.0	2 751.1	3 674.5	8 148.1	9 182.2
Dec qtr										9 479.4
2000			\frown	/ /	\mathbf{i}					
Mar qtr	5 272 1	5 015.4	932.4	953.1	5 801.0	5 928.6	2 724 9	3 652.0	8 595 8	9 827.6
Jun gtr			\							9 735.7
Sep qtr				· · · ·						9 161.8
Dec qtr	4 299.7	4 408.5	756.8	770.2	5 041.4	5 185.2	2 159.5	3 045.2	7 196.1	8 280.9
• • • • • • • • • •			\leq					• • • • • • • • •		•••••
(a) From the Sep	tember quarter 20	00 data is inclus	sive of the non-	deductible GST	payable on					

(a) From the September quarter 2000 data is inclusive of the non-deductible GST payable on

residential buildings.

	NEW RESIDE	NTIAL(a)	ALTERAT AND ADE TO RESIE BUILDING	DITIONS DENTIAL	TOTAL RESIDE	NTIAL(a)	NON- RESIDEI	NTIAL	TOTAL BUILDIN	IG
Period	Private	Total	Private	Total	Private	Total	Private	Total	Private	Total
• • • • • • • • • • •	•••••	• • • • • • • •	ORIGINAL (% change f	rom prece	ding period)		• • • • • • • • • •	• • • • • •
1997–98	22.0	20.5	16.9	17.2	21.2	20.0	3.3	4.5	14.3	13.0
1998–99	10.8	11.3	7.9	7.9	10.3	10.8	11.3	9.0	10.7	10.0
1999-00	24.8	23.7	19.8	19.8	24.0	23.1	1.3	1.1	16.1	14.0
1999										
Sep qtr	6.2	6.1	11.3	12.7	7.0	7.1	7.2	3.0	7.1	5.4
Dec qtr	5.9	5.5	8.2	5.8	6.2	5.6	-2.1	-0.2	3.4	3.3
2000							(\land		
Mar qtr	3.2	2.6	-8.7	-8.0	1.3	0.9	-15.9	\ \15.9	-4.4	-5.6
Jun qtr	26.9	26.3	26.8	27.4	26.8	26.5	12.6	<u></u> ↓ ¥7.3	22.7	23.3
Sep qtr	-25.4	-24.6	-30.5	-30.1	-26.1	-25.4	-11.6		-22.3	-21.2
Dec qtr	-11.7	-11.6	8.5	7.5	-8.9	-9.0	-4.4	-3.9	-7.6	-7.2
•••••	•••••							``````	• • • • • • • • •	• • • • • •
1999		SEASU	NALLY ADJU	SIED (% Ch	lange from	n preceding	quarter)			
Sep qtr	5.6	4.3	10.0	11.9	5.3	5.3	-0.7	0.7	3.8	3.6
Dec qtr	2.3	4.3 2.7	0.1	-2.1	2.3	2.0	-4.5	-3.9	3.0	-0.2
Dee qu	2.5	2.1	0.1	-2.1	2.5	2.9	-4.5	-3.5	_	-0.2
2000						_///				
Mar gtr	13.5	15.7	8.5	9.0	(15.0	150	0.6	-0.9	10.5	8.4
Jun gtr	20.1	17.1	16.8	17.4	\17.9)16/9	4.3	5.8	13.3	13.0
Sep qtr	-25.9	-25.8	-31.2	-30.8 🔨	-27.3	-26.6	-18.0	-14.3	-24.7	-22.4
Dec qtr	-13.6	-14.1	0.9	-0,4	-12.4	-12.2	-7.0	-7.8	-10.6	-10.4
•••••	•••••	••••	• • • • • • • • • •		•••••	•••••	•••••	•••••	• • • • • • • • •	• • • • • •
1000		TRE	ND ESTIMAT	ESY(% chan	ge from p	receding qu	arter)			
1999	2.0	0.0			→ _{3.2}	0.0	0.0	1.0	1.0	0.0
Sep qtr	3.9	2.9	3(1 <	4.1		2.8	-0.6	-1.2	1.9	0.9
Dec qtr	7.7	3.5	6.4	6.1	3.8	3.5	0.1	-0.2	3.0	3.2
2000			$\langle \rangle$	\searrow						
Mar qtr	7.2	3.5	$\langle 44 \rangle$	>~3.0	3.3	3.3	-1.0	-0.5	2.4	3.7
Jun qtr	-0.4	-0.6	\ ⊻2.7∕ `	-3.5	-1.1	-0.8	-4.1	-3.0	-1.9	-0.9
Sep qtr	-7.1	4.5) \-7.4	-7.3	-4.9	-4.6	-7.8	-6.2	-6.0	-5.9
Dec qtr	-11.9	~7.5	+9:9	-9.7	-7.7	-7.5	-10.3	-8.4	-9.1	-9.6
•••••	••••••	$\langle \rangle $	• • • • • • • • • • • • • • • • • • • •	••••	• • • • • • • •	• • • • • • • • •	•••••	•••••	• • • • • • • • •	• • • • • •

residential buildings.

8

EXPLANATORY NOTES

INTRODUCTION

1 This publication contains preliminary estimates of building and engineering construction work done during the quarter. The estimates of building work done are from the quarterly Building Activity Survey and are based upon a response of approximately 85% of the value of work done during the quarter. The estimates of engineering work done are from the quarterly Engineering Construction Survey and are based upon a response of approximately 80% of the value of work done during the quarter. More comprehensive and updated results will be available shortly in Building Activity, Australia (Cat. no. 8752.0) and Engineering Construction Activity, Australia (Cat. no. 8762.0). SCOPE AND COVERAGE 2 The scope of the Building Activity Survey, is building activity which includes construction of new building and alterations and additions to existing buildings. Value of building activity includes the costs of materials fixed in place, labour, and architects fees. It excludes the value of land and landscaping and non-building components such as fencing, paving, roadworks, tennis courts, outdoor pools and car parks. 3 The building statistics were 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 sample survey of private sector jobs involving new house construction or alterations and additions valued at \$10,000 or more to houses 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. 4 The Engineering Construction Survey aims to measure the value of all engineering construction work undertaken in Australia. For the Engineering Construction Survey all management units recorded on the ABS central register of businesses and classified to the construction industry and all other units known to be undertaking engineering construction work (from trade journals, newspapers, etc.), are included in the survey framework. 5 The cost of land and the value of building construction is excluded from the scope of the Engineering Construction Survey. Where projects include elements of both building and engineering construction every effort is taken to exclude the building component from the engineering construction statistics. Repair and maintenance activity is also excluded as are the value of any transfers of existing assets, the value of installed machinery and equipment not integral to the structure and the expenses for relocation of utility services. A contract for the installation of machinery and equipment which is an integral part of a construction project is included.

RELATIONSHIP WITH NATIONAL ACCOUNTS

6 Data on the value of work done on the construction of new residential buildings, alterations and additions to residential buildings, private sector non-residential buildings and the value of total and new engineering construction activity are the major sources of data which are used to compile the national accounts estimates for private gross fixed capital formation on dwellings, and other buildings and structures. However, there are some adjustments to the survey data which are made in the process of compiling these national accounts series. Allowances are made for the value of building activity which is out of scope of the Building Activity Survey and the Engineering Construction Survey. Such activity includes work done on projects which fall below the size cut-offs used for the surveys and also the value of work done which is undertaken without obtaining a building permit, either because such a permit is not required or because the requisite permit is not obtained. The national accounts estimates also make allowances for purchases (less sales) of buildings and other structures from (to) the public sector.

TREATMENT OF THE GST

7 Statistics on value of work (current prices) show residential building work done on a GST inclusive basis and non-residential work and engineering construction work done on a GST exclusive basis. This approach is consistent with that adopted in the Australian National Accounts which is based on the conceptual framework described in the 1993 edition of the international statistical standard System of National Accounts (SNA93).

8 SNA93 requires value added taxes (VAT), such as the GST, to be recorded on a net basis where:

(a) both outputs of goods and services and imports are valued excluding invoiced VAT;

(b) purchases of goods and services are recorded including non-deductible VAT. Under the net system, VAT is recorded as being payable by purchasers, not sellers, and then only by those purchasers who are not able to deduct it.

Almost all VAT is therefore recorded in the SNA93 as being paid on final ases mainly on household consumption. Small amounts of VAT, may however, be paid by businesses in respect of certain kinds of purchases on which VAT may not be deductible.

9 The ABS records value of work done inclusive of GST in respect of residential construction and exclusive of GST in respect of non-residential construction and engineering construction. Purchasers of residential structures are unable to deduct GST from the purchase price. For non-residential structures and engineering construction, the reverse is true in most circumstances.

10 Total construction work is derived by adding total building work and total engineering construction work. To derive total building activity it is appropriate to add the residential and non-residential components. Valuation of the components of the total is consistent, since, for both components, the value of work done is recorded inclusive of non-deductible GST paid by the purchaser. As such, total building activity and total construction includes the non-deductible GST payable on residential building.

11 As estimates for engineering work are provided on a GST exclusive basis, and the majority of construction materials used were exempt from Wholesale Sales Tax, the introduction of the GST has had little direct effect on the estimates of engineering construction.

DEFINITIONS

12 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.

13 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 non-residential building.

14 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 *bouse* 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.
- 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, blocks of flats, apartment buildings, etc.).

15 A non-residential building is primarily intended for purposes other than long term residential purposes

16 Alterations and additions refer to building activity carried out on existing building. It includes adding to or diminishing floor area, altering the structural design of a building and affixing rigid components which are integral to the functioning of the building.

17 The value of engineering work done for the private sector consists of the value of work done on prime contracts, plus speculative contracts, plus work done on own account.

18 The value of building and engineering work done during the period represents the estimated value of work actually carried out during the quarter on jobs which have commenced.

CLASSIFICATION: OWNERSHIP

19 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 or project as evident at the time of approval.

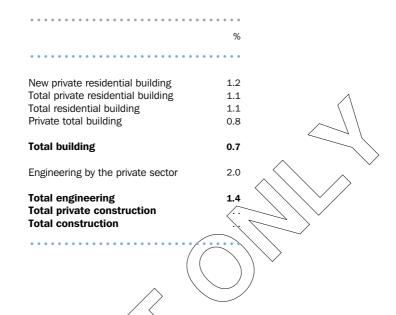
20 Engineering projects are classified as either private sector or public sector according to the expected ownership of the project at the time of completion.

RELIABILITY OF THE ESTIMATES

21 The estimates of engineering activity in this publication are based on a sample survey as are the estimates of the building activity concerning private sector houses (including alterations and additions to private sector houses). A complete enumeration of other building activity is done. Because data are not collected for all engineering jobs and private sector house building jobs, the published estimates are subject to sampling variability. Relative standard errors give a measure of this variability and therefore indicate the degree of confidence that can be attached to the data.

RELIABILITY OF THE ESTIMATES continued

22 Relative standard errors for the value of work done in the December quarter 2000 for residential building (new and total private, total) total building (private and total), engineering (private and total) and construction (private and total) are given below. There is 67% confidence that the actual value would be within one standard error of the sample estimate, and 95% confidence that it lies within two standard errors.



SEASONAL ADJUSTMENT

23 In the seasonally adjusted series, account has been taken of normal seasonal factors and the effect of movement in the date of Easter which may, in successive years, affect figures for different quarters. Details regarding the methods used in seasonally adjusting the series are available on request.

24 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.

25 As happens with all seasonally adjusted series, the seasonal factors are reviewed annually to take account of each additional year's data. The results of the latest review are shown in the December quarter issue each year for the Building Activity Survey and in the June quarter issue each year for the Engineering Construction Survey.

TREND ESTIMATES

26 Seasonally adjusted series can be smoothed to reduce the impact of the irregular component in the adjusted series. This smoothed seasonally adjusted series is called a trend estimate.

27 The trend estimates are derived by applying a 7-term Henderson moving average to the seasonally adjusted series. The 7-term Henderson average (like all Henderson averages) is symmetric but, as the end of a time series is approached, asymmetric forms of the average are applied. Unlike weights of the standard 7-term Henderson moving average, the weights employed here have been tailored to suit the particular characteristics of individual series.

TREND ESTIMATES continued

28 While the smoothing technique described in paragraphs 26 and 27 enables trend estimates to be produced for recent quarters, it does result in revisions to the estimates for the most recent three quarters as additional observations become available. There may also be revisions because of changes in the original data and as a result of the re-estimation of the seasonal factors. For further information, see Information Paper: A Guide to Interpreting Time Series -Monitoring Trends: an Overview (Cat. no. 1348.0) or contact the Assistant Director, Time Series Analysis on Canberra 02 6252 6076.

CHAIN VOLUME MEASURES

29 Chain volume estimates of the value of work done are presented in original, seasonally adjusted and trend terms.

30 While current price estimates of value of work done reflect both price and volume changes, chain volume estimates measure changes in value after the direct effects of price changes have been eliminated and therefore only reflect volume changes. The direct impact of the GST is a price change, and hence is removed from chain volume estimates. 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 new other building components, and the new engineering construction component, of the national accounts aggregate 'Gross fixed capital formation'.

31 The chain volume measures of work done appearing in this publication are annually reweighted chain Laspeyres indexes referenced to current price values in a chosen reference year (currently 1998–99). The reference year is updated annually in the Jone quarter publication. Each year's data in the value of work done series are based on the prices of the previous year, except for the quarters of the latest incomplete year which are based upon the current reference year (i.e. 1998–99). Comparability with previous years is achieved by linking (or chaining) the series together to form a continuous time series. Further information on the nature and concepts of chain volume measures is contained in the ABS (Information Paper: Introduction of Chain Volume Measures in the Australian National Accounts (Cat. no. 5248.0).

32 The factors used to seasonally adjust the chain volume series are identical to those used to adjust the corresponding current price series.

33 ABS publications draw extensively on information provided freely by individuals, businesses, governments and other organisations. Their continued cooperation is very much appreciated: without it, the wide range of statistics published by the ABS would not be available. Information received by the ABS is treated in strict confidence as required by the Census and Statistics Act 1905.

ABS DATA AVAILABLE ON REQUEST

ACKNOWLEDGMENT

34 As well as the statistics included in this and related publications, the ABS may have other relevant data available on request. Inquiries should be made to the National Information Service on 1300 135 070.

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EXPLANATORY NOTES continued

RELATED PRODUCTS

32 Users may also wish to refer to the following publications which are available from ABS Bookshops:

Building Activity, Australia: Dwelling Unit Commencements, Preliminary (Cat. no. 8750.0)—issued quarterly

Building Activity, Australia (Cat. no. 8752.0)—issued quarterly

Building Approvals, Australia (Cat. no. 8731.0)-issued monthly

Private Sector Construction Industry, Australia, 1996–97 (Cat. no. 8772.0)

Engineering Construction Activity, Australia (Cat. no. 8762.0)—

issued quarterly

House Price Indexes: Eight Capital Cities (Cat. no. 6416.0)—issued quarterly Housing Finance for Owner Occupation, Australia (Cat. no. 5609.0) issued monthly

Price Index of Materials Used in Building Other Than House Building, Six State Capital Cities (Cat. no. 6407.0)—issued quarterly

Price Index of Materials Used in House Building, Six State Capital Cities (Cat. no. 6408.0)—issued quarterly

33 Current publications and other products produced by the ABS are listed in the *Catalogue of Publications and Products* (Cat. no. 1101.0). The ABS also issues, on Tuesdays and Fridays, a *Release Advice* (Cat. no. 1105.0) which lists products to be released in the next few days. The Catalogue and Release Advice are available from any ABS office.

SYMBOLS AND OTHER USAGES

ABS Australian Bureau of Statistics

.. not applicable

nil or rounded to zero

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