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FINAL ISSUE

## ENGINEERING CONSTRUCTION ACTIVITY, AUSTRALIA SEPTEMBER QUARTER 1994

NOTE: This is the final issue of this publication. In future, data from the Engineering Construction Survey will be included in a new publication entitled *Building and Construction Activity, Australia* (8754.0), which will be released later in 1995. This new publication will provide estimates of activity within the building and construction sector in Australia. It will replace the three discontinuing ABS publications *Building Activity, Australia* (8752.0), *Engineering Construction Activity, Australia* (8762.0) and *Construction Activity at Constant Prices, Australia* (8782.0).

Clients interested in obtaining information about statistics previously available from discontinued publications should call ABS Client Services on Toll free 1800 620 085 or Fax (06) 253 1404.

### SUMMARY OF FINDINGS

#### Engineering Construction Activity

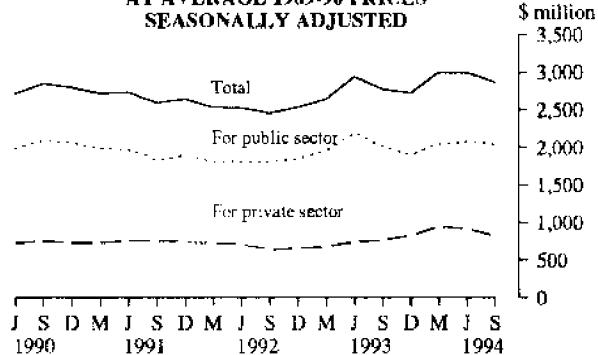
##### At average 1989-90 prices

Expressed at average 1989-90 prices, the seasonally adjusted estimate of the *value of engineering construction work done* during the September quarter 1994 was \$2,868.7m, a decrease of 4.4 per cent from the June quarter 1994 estimate but still 3.2 per cent above the September quarter 1993 estimate. Quarterly comparisons (from Table 2) and associated percentage movements are as follows:

#### VALUE OF WORK DONE (at 1989-90 prices, seasonally adjusted)

	Percentage movement		
	From Sept. qtr 1994	From June qtr 1994	From Sept. qtr 1993
For private sector	\$823.6m	-9.7	+7.2
For public sector	\$2,045.1m	-2.0	+1.7
Total	\$2,868.7m	-4.4	+3.2

#### ENGINEERING CONSTRUCTION ACTIVITY VALUE OF WORK DONE BY SECTOR OF OWNERSHIP AT AVERAGE 1989-90 PRICES SEASONALLY ADJUSTED



Engineering construction activity decreased in all sectors in the September quarter 1994. The value of work done for the public sector fell by 2.0 per cent (work undertaken by its own workforce decreased by 1.7 per cent while work contracted to the private sector decreased by 2.6 per cent). The value of work done for the private sector fell by 9.7 per cent.

#### At current prices

In original, current price terms, the *value of work done* during the September quarter 1994 was \$2,949.6m, a decrease of 17.0 per cent from the June quarter 1994 estimate of \$3,554.6m, but an increase of 3.0 per cent above the level recorded in the September quarter 1993 (\$2,864.0m).

Activity decreased in most States in the September quarter 1994. Activity fell in New South Wales (down 20.1% to \$993.2m), Victoria (down 24.2% to \$540.4m), Western Australia (down 29.8% to \$330.2m), South Australia (down 21.8% to \$156.1m) and Tasmania (down 50.2% to \$35.3m). Queensland (at \$777.4m, up 2.5%), the Australian Capital Territory (at \$53.9m, up 28.0%) and the Northern Territory (at \$63.1m, up 9.5%) recorded modest increases in engineering construction activity in the September quarter 1994.

Activity decreased in all categories except Recreation (up 35.9% to \$114.6m) and Other heavy industry (up 21.2% to \$98.5m). The largest decrease was in Roads, highways and subdivisions (which fell 24.6% to \$944.2m). Significant falls were also recorded in the Railways (down 30.0% to \$193.3m) and Heavy industry, oil, gas coal and other minerals (down 20.1% to \$289.7m) categories.

#### INQUIRIES

- for further information about statistics in this publication and the availability of related unpublished statistics, please contact Paul Seville on Canberra (06) 252 6067 or any ABS State Office.
- for information about other ABS statistics and services please refer to the back page of this publication.

## Engineering Construction Activity For the Private Sector At current prices

The *value of work commenced* during the September quarter 1994 was \$1,054.1m, an increase of 55.7 per cent over the June quarter 1994 estimate of \$676.9m, and 17.6 per cent higher than the September 1993 estimate (\$896.3m). Nearly all categories experienced some increases with Heavy Industry being the most predominant. Other categories reporting significant increases in the September quarter 1994 were Recreation, Electricity generation, transmission and distribution and Pipelines. The only significant fall was recorded in the Harbours category.

The *value of work done* for the private sector during the September quarter 1994 was \$919.6m, a decrease of 3.4 per cent from the June quarter 1994 estimate of \$951.7m, but 7.8 per cent higher than the September 1993 estimate. The most significant movements were a fall in Heavy industry, and an increase in the value of work done in the Recreation sector.

## Engineering Construction Activity For the Public Sector At current prices

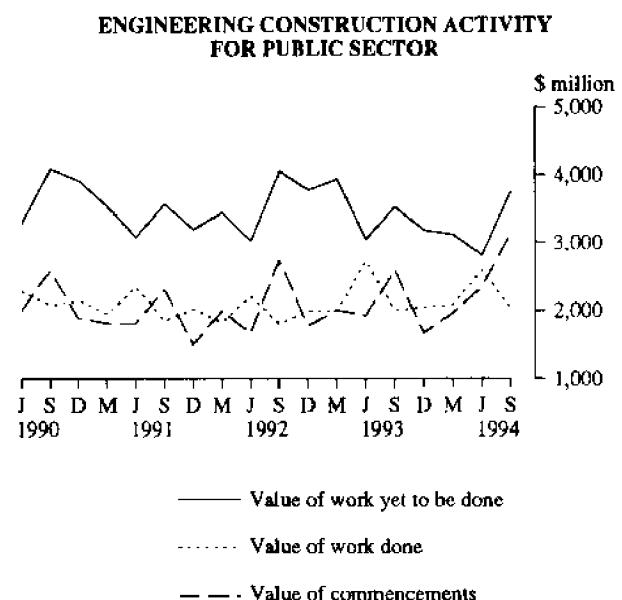
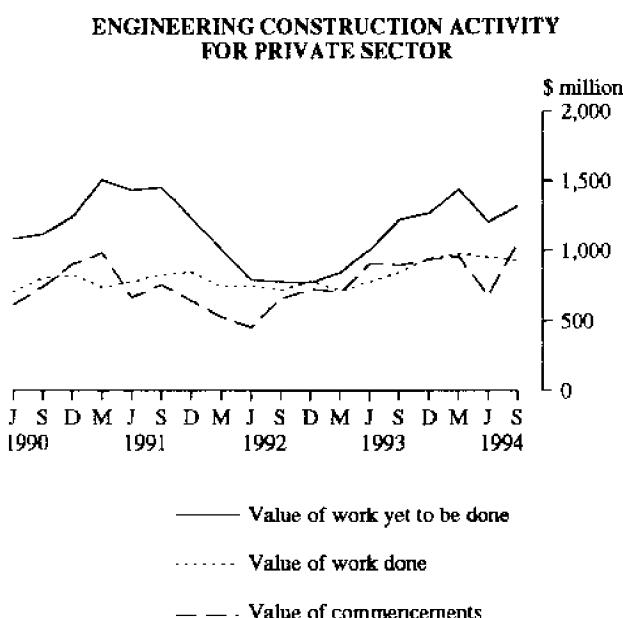
The *value of work commenced* for the public sector in the September quarter 1994 was \$3,116.6m, an increase of 33.0 per cent over the June quarter 1994 estimate of \$2,342.8m. However, public sector commencements traditionally increase in the September quarter, impacted by a number of public sector organisations reporting

annual budget figures as commencements in each September quarter (see paragraph 14 of the explanatory notes for more detail). Most significant increases were recorded in the categories of Roads, highways and subdivisions and Railways. Electricity generation, transmission and distribution was the only category to record a significant decrease in commencements. However, this fall was from a very high June quarter 1994 estimate.

While September quarter commencements for public sector work are traditionally high, the September quarter 1994 estimate was 19.8 per cent above the corresponding 1993 estimate and the highest September quarter commencements since the start of the series in the September quarter 1986.

The *value of work done* for the public sector decreased by \$572.8m (or 22.0%) in the September quarter 1994 to \$2,030.0m, principally due to the fall of \$519.1m (or 29.4%) in the work done by the public sector's own workforce. This was primarily due to a decrease from \$904.9m to \$462.7m in work undertaken by the State and Territory Governments. Commonwealth Government's expenditure for the September quarter decreased marginally from \$457.8m to \$453.2m while engineering work done by Local Government fell from \$406.0m to \$333.5m.

The value of public sector work contracted out to the private sector fell by 6.4 per cent to \$780.5m in the September quarter 1994.



**TABLE 1. ENGINEERING CONSTRUCTION ACTIVITY, VALUE OF WORK DONE, AUSTRALIA  
ORIGINAL AND SEASONALLY ADJUSTED SERIES  
(\$ million)**

<i>Period</i>	<i>By the private sector</i>			<i>By the public sector</i>	<i>Total for the public sector (a)</i>	<i>Total</i>
	<i>For the private sector</i>	<i>For the public sector</i>	<i>Total</i>			
ORIGINAL						
1991-92	3,168.2	2,692.4	5,860.6	5,230.4	7,922.7	11,091.0
1992-93	2,996.5	2,846.9	5,843.4	5,681.4	8,528.3	11,524.8
1993-94 r	3,725.1	3,277.9	7,003.0	5,475.2	8,753.1	12,478.2
1993 June qtr	778.8	883.1	1,662.0	1,851.3	2,734.5	3,513.3
Sept. qtr	853.2	842.3	1,695.5	1,168.5	2,010.9	2,864.0
Dec. qtr r	947.3	769.2	1,716.5	1,280.7	2,050.0	2,997.3
1994 Mar. qtr r	972.9	832.2	1,805.1	1,257.3	2,089.4	3,062.4
June qtr r	951.7	834.2	1,785.9	1,768.6	2,602.8	3,554.6
Sept. qtr	919.6	780.5	1,700.1	1,249.5	2,030.0	2,949.6
SEASONALLY ADJUSTED						
1993 June qtr	808.4	854.1	1,662.5	1,536.2	2,390.2	3,198.6
Sept. qtr	832.9	847.0	1,679.9	1,327.9	2,174.9	3,007.7
Dec. qtr r	891.3	762.4	1,653.7	1,296.0	2,058.3	2,949.6
1994 Mar. qtr r	1,025.3	864.4	1,889.7	1,355.2	2,219.6	3,244.9
June qtr r	986.4	805.9	1,792.2	1,461.8	2,267.7	3,254.1
Sept. qtr	898.1	784.1	1,682.1	1,429.3	2,213.3	3,111.4

(a) Includes work done by the private sector for the public sector and work done by the public sector.

**TABLE 2. ENGINEERING CONSTRUCTION ACTIVITY, VALUE OF WORK DONE AT AVERAGE 1989-90 PRICES (a), AUSTRALIA  
ORIGINAL AND SEASONALLY ADJUSTED SERIES  
(\$ million)**

<i>Period</i>	<i>By the private sector</i>			<i>By the public sector</i>	<i>Total for the public sector (b)</i>	<i>Total</i>
	<i>For the private sector</i>	<i>For the public sector</i>	<i>Total</i>			
ORIGINAL						
1991-92	2,923.4	2,502.5	5,425.9	4,901.6	7,404.1	10,327.5
1992-93	2,750.0	2,619.7	5,369.6	5,277.9	7,897.6	10,647.5
1993-94 r	3,443.6	3,011.9	6,455.6	5,076.1	8,088.0	11,531.7
1993 June qtr	717.0	807.6	1,524.6	1,710.6	2,518.2	3,235.2
Sept. qtr	786.7	775.3	1,562.0	1,084.4	1,859.7	2,646.4
Dec. qtr r	877.7	710.3	1,588.0	1,190.1	1,900.4	2,778.1
1994 Mar. qtr r	899.1	764.7	1,663.9	1,168.3	1,933.0	2,832.2
June qtr r	880.1	761.6	1,641.7	1,633.3	2,394.9	3,275.0
Sept. qtr	843.4	716.6	1,560.0	1,159.6	1,876.2	2,719.6
SEASONALLY ADJUSTED						
1993 June qtr	744.2	782.5	1,526.7	1,419.4	2,201.9	2,946.1
Sept. qtr	768.0	778.4	1,546.4	1,232.3	2,010.7	2,778.7
Dec. qtr r	825.8	703.2	1,529.0	1,204.3	1,907.5	2,733.3
1994 Mar. qtr r	947.5	794.7	1,742.2	1,259.2	2,053.9	3,001.4
June qtr r	912.2	737.5	1,649.7	1,349.9	2,087.4	2,999.6
Sept. qtr	823.6	718.6	1,542.2	1,326.5	2,045.1	2,868.7

(a) See paragraphs 17-19 of the Explanatory Notes. (b) Includes work done by the private sector for the public sector and work done by the public sector.

**TABLE 3. ENGINEERING CONSTRUCTION ACTIVITY UNDERTAKEN BY THE PRIVATE SECTOR, BY TYPE OF CONSTRUCTION, AUSTRALIA, VALUE OF WORK COMMENCED DURING PERIOD (\$million)**

Period	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	FOR THE PRIVATE SECTOR			Telecomm- unications	Heavy industry	Other	Total
							Pipelines	Recreation	Pipes				
1991-92	818.7	8.1	14.9	59.0	55.8	51.4	56.7	95.8	189.1	19.6	983.7	28.1	2,378.9
1992-93	1,019.3	4.8	16.5	26.6	124.6	107.8	121.5	190.4	209.2	109.0	1,036.4	23.3	2,989.4
1993-94 r	1,086.5	8.3	35.5	45.2	302.2	81.8	104.8	91.3	229.5	37.7	1,444.6	3.1	3,470.4
1993 June qtr	321.3	4.5	7.9	11.6	21.4	4.1	53.3	51.3	44.0	37.9	324.9	3.2	901.5
Sept. qtr	246.2	—	19.4	6.5	112.3	9.2	39.4	35.7	63.0	3.3	349.5	1.9	896.3
Dec. qtr	265.4	5.0	7.1	1.7	30.1	5.6	37.7	30.5	71.9	12.1	457.6	0.3	935.0
1994 Mar. qtr	278.7	1.1	r 6.6	18.8	131.7	33.2	12.3	13.5	49.5	20.8	405.7	0.4	r 962.2
June qtr r	296.2	2.1	2.5	18.2	28.2	33.8	15.4	11.7	45.1	1.6	231.7	0.5	676.9
Sept. qtr	308.0	1.9	17.3	3.0	51.1	25.8	60.3	54.1	106.6	24.7	398.8	2.5	1,054.1
<b>FOR THE PUBLIC SECTOR</b>													
1991-92	868.6	167.3	109.0	109.8	242.5	173.1	479.9	7.0	42.4	13.9	89.7	5.6	2,308.9
1992-93	1,513.2	126.1	67.6	48.3	161.0	271.7	253.5	25.4	68.7	49.6	35.5	8.6	2,631.2
1993-94 r	1,255.2	247.2	318.5	89.0	263.7	271.0	638.2	11.1	41.5	15.6	45.1	1.9	3,197.8
1993 June qtr	365.9	26.6	17.7	15.1	26.1	62.9	55.3	2.3	14.1	4.0	12.6	2.0	604.6
Sept. qtr	218.8	\$1.0	42.1	36.7	34.4	183.1	83.0	1.8	13.9	5.3	12.5	0.8	613.2
Dec. qtr	289.3	53.5	107.3	28.0	26.8	60.1	93.5	2.0	8.5	4.0	10.9	0.1	674.0
1994 Mar. qtr	383.0	r 121.5	r 70.8	19.0	168.2	27.3	24.4	4.2	10.9	3.2	19.2	1.0	r 852.7
June qtr r	354.1	41.2	98.3	5.4	34.4	70.6	437.2	3.0	8.2	3.1	2.4	0.1	1,057.9
Sept. qtr	332.0	40.9	83.5	5.1	33.6	39.3	76.9	21.7	11.4	1.0	58.3	0.4	704.1
<b>TOTAL</b>													
1991-92	1,687.4	175.4	123.9	168.8	224.6	298.3	536.5	100.8	231.5	33.5	1,073.4	33.7	4,687.9
1992-93	2,532.5	130.9	84.1	74.9	287.7	339.5	373.0	215.8	278.0	158.6	1,071.8	31.9	5,620.5
1993-94 r	2,341.7	255.5	354.0	134.3	565.9	352.7	743.0	102.4	270.9	53.2	1,489.6	5.0	6,668.2
1993 June qtr	687.2	31.1	25.6	26.8	47.5	77.0	108.5	59.7	58.1	41.9	337.5	5.3	1,506.1
Sept. qtr	464.9	51.0	61.4	43.2	146.7	132.3	122.3	37.5	76.9	8.5	362.0	2.7	1,509.6
Dec. qtr	564.7	38.5	114.4	29.7	56.8	75.6	131.3	32.5	80.4	16.1	468.6	0.4	1,609.0
1994 Mar. qtr	661.7	r 122.6	r 77.4	37.7	299.9	50.5	36.7	17.7	60.4	23.9	424.9	1.4	1,814.9
June qtr r	650.3	43.4	100.8	23.6	62.5	94.3	452.6	14.7	53.3	4.7	234.1	0.5	1,734.8
Sept. qtr	640.1	42.8	100.8	8.1	84.6	65.1	137.2	75.8	118.0	25.7	457.1	2.9	1,758.2

TABLE 4. ENGINEERING CONSTRUCTION ACTIVITY UNDERTAKEN BY THE PRIVATE SECTOR, BY TYPE OF CONSTRUCTION, AUSTRALIA  
VALUE OF WORK DONE DURING PERIOD, ORIGINAL AND SEASONALLY ADJUSTED

Period	Roads, highways and subdivisions	Bridges	Railways	Harbours		FOR THE PRIVATE SECTOR						Other	Original	Seasonally adjusted	<i>Total</i>		
						Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecomm- unications						
FOR THE PUBLIC SECTOR																	
1991-92	1,038.2	12.0	33.3	30.1	59.8	56.6	99.9	99.3	183.4	6.9	1,517.5	31.4	3,168.2	..	..	..	
1992-93	982.9	3.0	12.6	32.9	82.4	74.7	79.5	188.5	220.7	69.6	1,232.4	17.3	2,996.5	..	..	..	
1993-94 r	1,145.1	10.4	38.6	68.9	144.5	109.4	151.8	139.8	222.7	82.8	1,603.8	7.2	3,751.1	..	..	..	
1993 June qtr	266.5	0.8	7.2	10.1	27.5	17.0	24.0	62.7	47.2	35.1	276.7	4.2	778.8	808.4	..	..	
Sept. qtr	267.0	1.6	11.6	12.7	25.9	23.8	28.2	37.4	60.2	32.4	350.2	3.1	833.2	832.9	..	..	
Dec. qtr	279.5	3.3	11.7	14.3	34.9	33.7	37.4	57.3	65.4	19.8	389.6	0.4	947.3	891.3	..	..	
1994 Mar. qtr	294.3	3.1	19.3	18.7	39.9	29.5	37.5	26.7	50.1	15.6	445.2	3.1	972.9	1,025.3	..	..	
June qtr r	304.3	2.5	6.0	23.3	44.7	22.4	48.7	18.4	47.0	14.9	418.8	0.6	951.7	986.4	..	..	
Sept. qtr	300.5	0.7	5.3	12.7	46.7	24.5	37.0	32.5	82.1	14.5	360.6	2.5	919.6	898.1	..	..	
TOTAL																	
1991-92	959.7	163.0	95.4	39.6	286.7	169.0	707.6	8.4	90.6	30.9	137.9	8.5	2,692.4	..	..	..	
1992-93	1,282.9	103.1	107.1	95.6	233.5	219.2	595.1	23.3	65.8	22.9	88.0	10.4	2,846.9	..	..	..	
1993-94 r	1,427.4	214.9	217.1	103.6	332.8	249.3	550.9	13.9	53.9	30.8	80.7	2.7	3,277.9	..	..	..	
1993 June qtr	456.5	16.1	26.6	29.9	67.6	65.3	133.9	8.0	19.8	9.7	25.0	4.9	833.1	854.1	..	..	
Sept. qtr	368.2	48.3	21.3	26.9	42.2	59.9	222.4	4.6	19.3	9.0	18.3	1.9	822.3	847.0	..	..	
Dec. qtr	340.2	44.7	44.5	21.4	56.5	62.4	156.3	2.6	13.8	5.7	19.1	0.1	769.1	762.4	..	..	
1994 Mar. qtr	333.9	48.7	165.1	30.0	183.7	47.1	79.8	2.3	9.8	4.9	26.2	0.6	822.2	864.4	..	..	
June qtr r	385.1	73.2	86.3	23.3	50.4	79.8	92.3	4.4	11.0	11.1	17.1	0.1	834.2	805.9	..	..	
Sept. qtr	296.3	67.4	94.8	11.0	46.8	63.0	145.0	9.4	13.4	7.3	25.7	0.4	780.5	784.1	..	..	
TOTAL																	
1991-92	1,997.9	175.0	128.8	69.7	346.5	225.6	807.5	107.7	171.9	37.7	1,650.4	39.9	5,860.6	..	..	..	
1992-93	2,265.8	106.1	119.7	128.5	315.9	294.0	674.6	211.8	286.5	92.4	1,320.4	22.7	5,843.4	..	..	..	
1993-94 r	2,372.5	225.4	255.7	172.5	477.3	358.7	702.7	153.8	276.7	113.5	1,684.5	9.9	7,003.0	..	..	..	
1993 June qtr	723.0	36.9	33.8	39.9	95.0	82.2	157.9	70.7	67.0	44.8	301.6	9.1	1,662.5	..	..	..	
Sept. qtr	635.2	49.9	32.9	39.6	67.1	83.7	250.6	42.0	79.5	41.5	168.5	5.0	1,695.5	1,679.9	..	..	
Dec. qtr	619.7	48.0	56.1	37.6	91.5	96.1	193.7	60.0	79.2	25.5	408.7	0.5	1,716.5	1,653.7	..	..	
1994 Mar. qtr	628.2	51.7	74.4	48.6	223.6	76.6	117.3	29.0	59.9	20.6	471.4	3.7	1,805.1	1,849.7	..	..	
June qtr r	689.4	75.7	92.3	46.6	95.1	102.3	141.1	22.9	58.1	26.0	435.9	0.7	1,785.9	1,792.2	..	..	
Sept. qtr	596.8	68.1	100.0	23.7	93.6	87.5	181.9	42.0	95.4	21.8	386.3	2.9	1,700.1	1,682.1	..	..	

**TABLE 5. ENGINEERING CONSTRUCTION ACTIVITY UNDERTAKEN BY THE PRIVATE SECTOR, BY TYPE OF CONSTRUCTION, AUSTRALIA, VALUE OF WORK YET TO BE DONE (\$ million)**

Period	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecommu- nications	Heavy industry	Other	Total
1991-92	187.7	1.9	1.8	35.4	1.6	6.5	49.3	22.4	14.2	456.9	1.2	795.4	
1992-93	236.6	3.7	5.1	27.8	43.8	38.9	61.3	60.0	11.6	55.7	458.5	2.6	1,005.5
1993-94 r	219.3	2.0	7.0	11.8	191.7	15.0	46.2	9.8	12.8	8.2	681.6	—	1,305.4
1993 June qtr	236.6	3.7	5.1	27.8	43.8	38.9	61.3	60.0	11.6	55.7	458.5	2.6	1,005.5
Sep. qtr	246.5	2.7	13.6	21.5	125.1	33.9	92.5	60.1	11.1	27.3	590.5	1.5	1,226.5
Dec. qtr	234.7	3.8	11.6	12.9	116.4	16.6	101.4	31.3	15.2	19.5	709.5	0.3	1,273.1
1994 Mar. qtr	222.8	1.9	r 9.6	16.6	207.4	11.6	76.8	17.8	16.8	24.3	835.4	1.2	r 1,442.1
June qtr r	219.3	2.0	7.0	11.8	191.7	15.0	46.2	9.8	12.8	8.2	681.6	—	1,205.4
Sep. qtr	206.7	1.8	19.1	3.2	194.2	16.9	71.1	32.9	46.8	17.8	709.1	—	1,319.6
<b>FOR THE PUBLIC SECTOR</b>													
1991-92	252.6	91.8	68.5	82.6	172.7	75.0	638.6	0.1	10.3	8.6	71.7	0.3	1,472.9
1992-93	502.4	111.6	34.0	42.9	119.3	162.1	464.2	2.4	17.5	33.9	56.4	1.4	1,548.9
1993-94 r	363.7	116.0	144.6	28.5	98.0	192.7	633.8	1.0	4.5	19.5	15.3	—	1,617.7
1993 June qtr	502.4	111.6	34.0	42.9	119.3	162.1	464.2	2.4	17.5	33.9	56.4	1.4	1,548.0
Sep. qtr	367.3	111.3	54.1	51.7	119.2	194.9	378.0	—	18.6	29.4	26.8	0.2	1,351.5
Dec. qtr	329.4	94.2	116.6	53.6	97.1	192.2	333.9	0.1	11.0	27.6	24.3	—	1,279.9
1994 Mar. qtr	385.0	r 180.1	r 126.4	43.2	114.8	194.3	270.9	2.4	11.8	26.4	37.1	0.3	r 1,392.6
June qtr r	363.7	116.0	144.6	28.5	98.0	192.7	633.8	1.0	4.5	19.5	15.3	—	1,617.7
Sep. qtr	388.2	88.7	137.4	9.8	80.2	163.8	614.2	13.0	2.3	12.0	50.1	—	1,559.7
<b>TOTAL</b>													
1991-92	440.3	93.7	70.3	118.0	174.3	81.4	655.1	49.4	32.7	22.8	528.6	1.5	2,268.3
1992-93	738.9	115.3	39.1	70.7	163.1	200.9	525.5	62.3	29.1	89.6	514.9	4.0	2,553.5
1993-94 r	583.0	118.0	151.6	40.4	289.7	207.6	679.9	10.8	17.3	27.7	697.0	—	2,823.0
1993 June qtr	738.9	115.3	39.1	70.7	163.1	200.9	525.5	62.3	29.1	89.6	514.9	4.0	2,553.5
Sep. qtr	613.8	114.0	67.7	73.3	244.3	228.8	470.6	60.2	29.7	56.8	617.3	1.7	2,578.0
Dec. qtr	564.1	98.0	128.1	66.5	213.5	208.7	435.3	31.4	26.2	47.0	733.8	0.3	2,553.0
1994 Mar. qtr	607.8	r 181.9	r 136.0	59.8	322.2	205.9	347.7	20.2	28.6	50.8	872.4	1.5	2,834.7
June qtr r	583.0	118.0	t 51.6	40.4	289.7	207.6	679.9	10.8	17.3	27.7	697.0	—	2,823.0
Sep. qtr	594.9	90.5	156.5	13.0	274.4	180.8	685.2	45.9	49.1	29.8	759.2	—	2,879.3

TABLE 6. ENGINEERING CONSTRUCTION ACTIVITY BY THE PUBLIC SECTOR, BY TYPE OF CONSTRUCTION  
AUSTRALIA  
(\$ million)

Period	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecommu- nications	Heavy industry			
											Other heavy industry	Other industry	Total	
VALUE OF WORK COMMENCED DURING PERIOD														
1991:92	1,248.8	80.6	360.3	11.2	289.8	289.8	966.4	44.3	61.5	1,790.4	24.2	—	12.8	5,180.1
1992:93	1,710.7	117.8	474.4	18.2	317.5	386.2	865.0	32.2	106.2	1,778.9	0.2	—	14.9	5,822.1
1993:94 r	1,602.2	121.8	516.9	18.1	234.5	322.9	730.3	110.0	93.1	1,611.6	20.5	—	10.5	5,392.4
1993 June qtr														
Sept. qtr	325.6	20.5	51.2	4.9	79.8	101.1	206.3	6.1	22.0	492.8	0.1	—	4.0	1,314.4
Dec. qtr	713.2	60.7	165.9	2.9	82.5	114.5	196.4	3.9	37.2	401.1	6.8	—	2.4	1,987.6
1994 Mar. qtr	1,275.2	31.3	12.8	5.7	48.4	70.1	129.8	12.3	20.1	391.1	5.3	—	2.5	1,904.6
June qtr r														
Sept. qtr	1,322.8	12.2	35.8	5.5	52.2	62.1	206.7	33.2	16.9	362.0	3.3	—	2.7	1,115.4
1994 Mar. qtr	291.1	17.6	102.4	3.9	51.4	76.2	197.4	60.6	457.3	5.1	—	3.0	1,248.8	
June qtr r														
Sept. qtr	802.5	52.5	467.3	3.6	83.4	115.8	321.9	23.1	45.0	498.1	1.1	—	0.3	2,412.5
VALUE OF WORK DONE DURING PERIOD														
1991:92	1,292.9	82.1	347.9	17.0	408.7	372.6	789.5	44.3	64.9	1,770.7	23.8	—	15.9	5,230.4
1992:93	1,623.3	118.3	410.0	19.2	388.2	360.0	847.4	31.8	81.7	1,771.4	17.0	—	13.1	5,681.4
1993:94 r	1,675.1	113.6	476.6	27.9	265.3	282.5	790.5	106.5	100.7	1,599.6	23.5	2.0	11.7	5,475.2
1993 June qtr														
Sept. qtr	648.9	48.2	179.9	3.3	120.4	96.8	246.9	6.0	25.3	504.7	7.3	—	3.6	1,851.3
Dec. qtr	348.6	19.7	91.9	7.3	69.6	65.2	168.3	3.9	12.4	361.4	7.4	—	2.8	1,168.5
1994 Mar. qtr	1,396.0	27.4	104.9	7.9	65.1	74.1	172.2	5.6	23.8	395.9	5.1	—	2.7	1,280.7
June qtr r														
Sept. qtr	366.9	24.4	106.0	7.4	56.4	61.6	207.9	31.3	18.3	367.4	4.7	0.1	2.9	1,257.3
1994 Mar. qtr	563.6	42.0	181.8	5.2	74.3	81.4	241.9	63.7	26.2	475.0	6.3	1.9	3.3	1,768.6
June qtr r														
Sept. qtr	347.4	17.3	95.3	3.7	49.9	49.8	186.2	25.5	19.2	455.0	1.9	—	0.2	1,249.5
VALUE OF WORK YET TO BE DONE														
1991:92	291.1	20.5	80.8	5.0	375.8	357.1	362.1	1.1	17.1	34.7	0.5	—	2.4	1,348.2
1992:93	308.4	22.4	123.7	4.6	236.1	310.7	419.9	0.1	36.4	22.1	7.9	—	3.2	1,495.4
1993:94 r	267.2	19.2	137.5	2.0	163.1	195.0	333.8	3.6	17.0	26.2	30.6	0.3	0.2	1,195.6
1993 June qtr														
Sept. qtr	308.4	22.4	123.7	4.6	236.1	310.7	419.9	0.1	36.4	22.1	7.9	—	3.2	1,495.4
Dec. qtr	663.6	58.4	397.3	7.1	217.2	307.5	422.7	—	34.0	53.2	150.0	—	0.7	2,176.8
1994 Mar. qtr	572.7	58.3	304.2	4.2	190.0	297.4	380.6	6.8	26.8	49.1	15.3	—	0.6	1,905.9
June qtr r														
Sept. qtr	503.9	43.1	232.4	2.6	185.3	271.4	375.9	6.7	25.1	43.8	34.4	2.1	0.3	1,727.2
1994 Mar. qtr	267.2	19.2	137.5	2.0	163.1	195.0	333.8	3.6	17.0	26.2	30.6	0.3	0.2	1,195.6
June qtr r														
Sept. qtr	493.0	57.7	493.0	0.7	170.0	228.9	462.3	1.2	35.3	54.9	6.0	—	0.5	2,201.0

TABLE 7. ENGINEERING CONSTRUCTION ACTIVITY FOR THE PUBLIC SECTOR, BY TYPE OF CONSTRUCTION  
AUSTRALIA  
(\$ million)

Period	Value of work commenced during period						Value of work done during period						Value of work yet to be done					
	Roads, highways and subdivisions	Bridges	Railways	Fairways	Water storage and supply	Electricity generation, transmission and distribution	Sewerage and drainage	Pipelines	Recreation	Telecommu- nications	Oil, gas, coal and other minerals	Other heavy industry	Other	Total	Heavy industry	Heavy industry	Heavy industry	
Value of work commenced during period																		
1991-92	2,117.4	247.9	469.4	121.1	532.2	462.9	1,446.3	51.3	103.8	1,804.4	104.9	8.9	18.4	7,489.0				
1992-93	3,223.9	243.9	542.0	66.5	480.5	657.8	1,118.5	57.6	174.9	1,828.4	21.8	13.8	23.6	8,451.1				
1993-94 r	2,857.4	369.0	835.4	107.1	498.2	593.8	1,368.5	121.1	134.6	1,627.2	54.2	11.3	12.4	8,590.2				
1993 June qtr																		
Sept. qtr																		
Dec. qtr																		
1994 Mar. qtr																		
June qtr r																		
Sept. qtr																		
Value of work done during period																		
1991-92	2,252.6	245.1	443.3	56.6	695.4	541.6	1,497.2	52.7	155.5	1,801.6	149.5	7.1	24.4	7,922.7				
1992-93	2,906.3	221.4	517.1	114.8	621.7	579.3	1,442.5	55.2	147.5	1,794.3	73.1	31.8	23.5	8,528.3				
1993-94 r	3,102.5	328.5	693.7	131.4	598.1	531.7	1,341.1	120.4	154.6	1,630.4	74.4	31.7	14.4	8,755.1				
1993 June qtr																		
Sept. qtr																		
Dec. qtr																		
1994 Mar. qtr																		
June qtr r																		
Sept. qtr																		
Value of work yet to be done																		
1991-92																		
1992-93																		
1993-94 r																		
1993 June qtr																		
Sept. qtr																		
Dec. qtr																		
1994 Mar. qtr																		
June qtr r																		
Sept. qtr																		

TABLE 8. ENGINEERING CONSTRUCTION ACTIVITY BY STAGE OF CONSTRUCTION

Period	NSW	Victoria	Qld	WA	SA	NT	ACT	Australia
VALUE OF WORK COMMENCED DURING PERIOD								
(\$ million)								
1991-92	3,409.5	1,861.4	2,032.3	673.5	1,280.2	259.2	162.2	189.7
1992-93	4,115.2	2,234.2	2,372.3	733.8	1,441.6	239.8	132.9	172.9
1993-94 r	4,165.2	2,161.3	2,708.6	658.2	1,785.0	185.3	229.5	167.5
1993 June qtr	3,765.5	643.0	558.7	187.4	440.6	52.5	33.0	28.8
Sept. qtr	1,571.3	489.1	792.5	132.0	353.1	57.0	63.2	38.8
Dec. qtr	814.6	467.0	596.0	183.9	397.3	35.0	73.2	46.4
1994 Mar. qtr	1,076.9	593.4	620.2	176.2	349.5	44.3	24.1	45.8
June qtr r	702.4	611.7	700.0	166.0	685.1	49.0	69.0	36.5
Sep. qtr	1,380.4	606.9	1,019.0	169.4	359.4	45.0	40.2	50.4
VALUE OF WORK DONE DURING PERIOD								
1991-92	4,015.3	1,915.7	2,283.5	763.7	1,506.1	302.6	136.9	167.2
1992-93	4,015.9	2,098.2	2,497.2	734.9	1,541.5	311.1	138.0	188.1
1993-94 r	4,180.1	2,329.1	2,803.8	736.5	1,805.2	243.4	212.9	167.2
1993 June qtr	1,259.4	644.5	705.8	263.4	459.9	84.4	49.8	46.1
Sept. qtr	895.9	493.9	729.4	167.0	426.2	57.3	50.9	43.5
Dec. qtr	954.1	508.3	716.7	187.8	466.8	59.8	61.8	41.9
1994 Mar. qtr	1,087.7	613.9	599.5	182.0	441.4	55.5	42.6	39.7
June qtr r	1,242.3	713.1	758.2	199.6	470.7	70.9	57.6	42.1
Sep. qtr	993.2	540.4	777.4	156.1	330.2	35.3	63.1	53.9
VALUE OF WORK YET TO BE DONE								
1991-92	1,256.6	641.6	1,040.6	128.7	449.3	188.5	52.8	58.3
1992-93	1,283.5	916.6	964.2	198.2	481.9	120.0	47.7	37.0
1993-94 r	1,178.9	747.9	967.6	171.9	786.6	56.7	69.3	39.7
1993 June qtr	1,283.5	916.6	964.2	198.2	481.9	120.0	47.7	37.0
Sept. qtr	1,845.6	926.4	1,062.8	166.2	545.8	112.4	59.5	4048.9
Dec. qtr	1,693.8	887.6	980.7	181.9	521.4	80.3	73.6	39.7
1994 Mar. qtr	1,696.2	938.6	1,005.0	174.2	575.1	70.8	56.6	45.3
June qtr r	1,178.9	747.9	967.6	171.9	786.6	56.7	69.3	40.8
Sep. qtr	2,005.3	767.1	1,173.2	188.3	778.9	65.9	47.6	54.1

TABLE 9. ENGINEERING CONSTRUCTION ACTIVITY: VALUE OF WORK COMMENCED  
BY THE SECTOR UNDERTAKING THE WORK, BY TYPE OF CONSTRUCTION  
(\$ million)

Period, State or Territory	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage transmission and drainage distribution	Pipelines	Recreation	Telecommu- nications	Heavy industry				
										Oil, gas, coal and other minerals	Other heavy industry	Other	Total	
<b>BY THE PRIVATE SECTOR</b>														
<i>June qtr 1994 — r</i>														
NSW	198.0	4.7	39.2	6.2	29.3	20.3	40.1	6.6	18.6	1.0	24.2	28.0	0.4	416.6
Vic.	145.5	1.8	15.7	0.6	5.0	47.5	10.3	0.9	11.5	0.7	12.6	10	—	255.0
Qld	144.0	34.1	43.6	1.3	19.1	10.9	13.0	3.0	15.9	0.4	37.4	6.9	0.1	330.4
SA	32.0	0.6	1.7	0.1	3.0	1.4	2.2	1.7	2.4	0.4	10.1	19.3	—	75.0
WA	80.7	—	0.7	2.6	5.0	8.7	383.4	1.2	1.5	—	63.8	10.7	—	538.3
Tas.	6.6	2.1	—	—	0.3	1.3	—	—	0.6	2.1	1.2	1.5	—	15.8
NT	26.0	—	12.8	0.2	0.3	3.6	0.9	1.4	—	15.2	—	—	—	60.5
ACT	17.5	—	—	—	3.8	—	0.4	1.5	—	—	—	—	—	23.3
<i>Australia</i>	650.3	43.4	100.8	23.6	62.5	94.3	452.6	14.7	51.3	4.7	164.6	69.5	0.5	1,734.8
<b>BY THE PUBLIC SECTOR</b>														
<i>September qtr 1994 — r</i>														
NSW	154.0	5.3	25.4	—	50.8	28.6	46.9	39.9	39.4	1.4	118.9	67.0	1.6	579.2
Vic.	189.2	23.1	3.5	0.1	9.4	9.3	14.2	2.4	15.9	22.2	10.0	8.8	—	308.1
Qld	160.8	13.4	53.1	7.3	9.6	19.4	58.2	19.0	43.4	0.2	101.1	6.5	0.7	492.7
SA	24.0	—	0.9	0.4	10.3	0.9	2.5	3.2	7.1	1.0	12.5	12.6	0.6	75.9
WA	76.1	0.1	17.9	0.1	2.6	1.5	12.8	1.8	7.3	0.8	104.1	7.8	—	232.9
Tas.	5.0	0.1	—	0.1	1.0	—	—	—	9.3	0.1	0.9	0.7	—	8.2
NT	9.9	—	—	—	0.8	1.5	2.6	8.9	0.9	0.1	5.6	0.5	—	30.9
ACT	21.1	0.9	—	—	—	3.8	—	0.7	3.6	—	—	—	—	30.2
<i>Australia</i>	640.4	42.8	106.3	8.1	84.6	65.1	137.2	75.8	118.0	25.7	353.7	104.0	2.9	1,738.2

TABLE 9. ENGINEERING CONSTRUCTION ACTIVITY: VALUE OF WORK COMMENCED  
BY THE SECTOR UNDERTAKING THE WORK, BY TYPE OF CONSTRUCTION —continued  
(\$ million)

Period, State or Territory	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage drainage and distribution	Electricity, generation, transmission and distribution	Pipelines	Recreation	Telecommu- nications	Other minerals	Heavy industry	
												Ch. gas, coal and other heavy industry	Total
BY THE PUBLIC SECTOR —continued													
September qtr 1994													
NSW	496.8	41.4	338.3	—	34.1	31.2	152.4	0.3	14.7	191.9	—	—	0.2
Vic.	41.2	3.8	27.0	—	12.3	22.3	59.4	21.0	2.4	109.1	0.2	—	298.6
Qld	176.9	6.2	87.5	2.9	70.3	40.2	74.8	—	20.4	96.1	1.0	—	526.3
SA	32.0	—	—	—	6.1	8.0	11.9	—	1.5	34.1	—	—	93.5
WA	34.1	0.1	14.5	0.6	8.6	9.0	11.7	1.5	3.3	43.1	—	—	126.5
Tas.	20.8	0.9	—	0.1	0.9	0.8	2.8	0.2	0.7	9.5	—	—	36.8
NT	0.5	—	—	—	0.4	0.2	1.1	—	0.1	7.0	—	—	9.3
ACT	0.2	—	—	—	0.9	4.0	7.8	—	—	7.3	—	—	20.2
Australia	802.5	52.5	467.3	3.6	33.4	115.8	321.9	23.1	43.0	498.1	1.1	0.1	2,412.5
TOTAL													
June qtr 1994													
NSW	278.8	9.5	39.2	6.2	32.7	31.3	91.8	7.0	24.0	126.4	24.2	28.0	3.3
Vic.	199.4	5.1	26.8	0.6	10.4	71.7	92.5	59.0	17.5	110.1	15.5	3.0	611.7
Qld	244.8	40.0	128.6	4.3	32.6	21.1	43.3	3.1	19.1	116.2	39.7	6.9	700.0
SA	47.3	0.7	1.8	0.1	12.8	15.0	16.6	1.7	3.9	36.7	10.1	19.3	—
WA	101.6	0.9	6.8	3.1	24.1	25.0	39.0	3.2	3.8	47.3	63.8	10.7	—
Tas.	26.0	4.7	—	0.5	0.5	1.9	—	—	—	11.6	1.2	1.5	—
NT	26.0	—	—	12.8	0.4	0.4	4.4	0.9	1.4	7.4	15.2	—	69.0
ACT	17.5	—	—	—	0.4	4.2	6.3	0.4	1.5	6.2	—	—	36.5
Australia	941.4	60.9	207.1	27.5	113.9	170.5	650.1	75.3	72.2	462.0	169.7	69.5	3.5
September qtr 1994													
NSW	650.8	46.8	363.7	—	84.8	59.8	199.3	40.2	54.1	193.3	118.9	67.0	1.7
Vic.	230.4	26.9	30.5	0.1	21.7	31.6	73.7	23.4	18.3	131.3	10.2	8.8	—
Qld	337.7	19.6	140.6	10.2	29.8	59.6	133.0	19.1	63.9	96.3	102.1	6.5	606.9
SA	36.0	—	0.9	0.4	16.4	8.9	14.4	3.2	8.5	35.0	12.5	12.6	0.8
WA	110.2	0.2	32.5	0.7	11.2	10.5	24.4	3.2	10.5	43.9	104.1	7.8	1,019.0
Tas.	25.8	1.0	0.3	—	1.9	0.9	2.8	0.2	1.0	9.6	0.9	0.7	—
NT	10.4	—	—	—	1.3	1.7	3.7	8.9	1.0	7.0	5.6	0.5	45.0
ACT	21.2	0.9	—	—	0.9	7.8	7.8	0.7	3.6	7.3	—	—	—
Australia	1,442.5	95.3	568.1	11.7	168.0	180.9	459.1	98.9	161.0	523.8	354.2	104.0	3.2

TABLE 10. ENGINEERING CONSTRUCTION ACTIVITY: VALUE OF WORK DONE DURING PERIOD  
BY THE SECTOR UNDERTAKING THE WORK, BY TYPE OF CONSTRUCTION  
(\$ million)

Period, State or Territory	Roads, highways and subdivisions	Bridges	Railways	Harbours			BY THE PRIVATE SECTOR					Heavy industry			
							Water storage and supply	Sewerage, drainage and distribution	Pipelines	Recreation	Telecomm- unications	Other	Oil, gas, coal and other minerals	Heavy industry	Total
<i>June qtr 1994 — r</i>															
NSW	257.4	24.0	22.3	2.8	49.9	32.8	27.5	12.5	19.6	15.2	96.1	36.0	0.6	596.7	
Vic.	151.0	4.1	14.9	0.4	19.3	32.4	41.8	0.9	11.2	5.9	29.7	8.4	—	329.1	
Qld	127.2	40.8	48.2	3.7	14.1	16.3	48.2	3.6	16.4	1.4	43.9	16.2	0.1	390.0	
SA	32.0	0.6	1.6	0.1	3.1	1.9	2.4	4.3	4.2	0.5	10.0	6.8	67.3		
WA	68.1	4.3	5.4	18.5	6.4	11.3	19.1	1.1	1.5	—	167.8	10.3	—	313.7	
Tas.	9.3	2.0	1.5	1.3	2.7	0.1	—	0.6	2.3	1.4	1.6	—	22.6		
NT	23.5	—	—	9.8	0.4	3.6	1.9	—	1.2	—	7.5	0.2	48.2		
ACT	20.9	—	—	—	0.6	1.4	0.4	3.5	0.7	—	—	—	27.4		
Australia	629.2	75.7	92.3	46.6	95.4	102.3	141.1	22.9	58.7	26.0	356.5	79.5	0.7	1,781.9	
<i>September qtr 1994</i>															
NSW	171.5	16.0	22.0	2.1	58.0	40.1	28.5	26.4	34.9	10.6	89.4	48.5	1.6	549.6	
Vic.	115.8	8.8	13.7	0.1	11.7	23.0	34.0	1.9	18.1	9.0	31.4	11.1	—	275.6	
Qld	153.0	35.8	60.6	11.3	14.1	17.0	96.4	4.1	25.2	0.3	42.9	11.4	0.7	472.9	
SA	29.5	0.4	0.6	0.4	4.7	1.4	3.1	3.4	6.3	1.0	11.6	13.9	0.6	77.1	
WA	69.4	6.0	3.2	3.0	2.9	2.2	16.4	0.8	6.8	0.7	101.8	12.8	—	226.0	
Tas.	4.9	1.0	—	0.2	0.7	0.3	0.1	—	0.4	0.1	0.9	0.7	—	9.1	
NT	26.6	—	—	6.6	0.6	1.5	3.5	4.7	1.3	0.1	9.8	0.2	—	54.8	
ACT	26.0	0.2	—	0.8	1.8	—	0.7	5.4	—	—	—	—	—	34.9	
Australia	596.8	68.1	109.0	23.7	93.6	87.5	181.9	42.0	95.4	21.8	287.8	98.5	2.9	1,706.1	
<i>BY THE PUBLIC SECTOR</i>															
NSW	248.7	23.3	127.8	—	13.2	16.7	64.3	0.4	5.8	142.6	—	—	2.9	645.7	
Vic.	61.8	4.6	21.6	—	17.7	18.3	90.8	58.2	6.2	109.5	4.1	—	0.2	193.0	
Qld	136.3	(0.2)	18.4	3.0	14.3	13.2	48.2	—	6.2	116.0	2.2	—	0.1	368.3	
SA	50.6	0.1	1.0	0.7	7.9	13.0	14.4	—	3.1	3.2	36.3	—	—	132.3	
WA	39.3	1.3	14.9	1.0	19.2	16.6	11.6	2.0	1.9	47.3	—	—	—	157.1	
Tas.	26.5	2.7	—	0.5	0.7	1.2	6.1	—	0.9	9.7	—	—	0.1	48.2	
NT	0.2	—	—	0.8	0.1	0.9	—	—	0.1	7.4	—	—	—	9.4	
ACT	0.1	—	—	—	0.5	2.3	5.6	—	—	6.2	—	—	—	14.7	
Australia	563.6	42.0	183.8	5.2	74.3	81.4	241.9	63.7	26.2	475.0	6.3	1.9	3.3	1,768.6	

TABLE 10. ENGINEERING CONSTRUCTION ACTIVITY: VALUE OF WORK DONE DURING PERIOD  
BY THE SECTOR UNDERTAKING THE WORK, BY TYPE OF CONSTRUCTION—*continued*  
(\$ million)

Period, State or Territory	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and drainage	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecomm. unications	Heavy industry		
											Oil gas, coal and other minerals	Other industry	Total
<b>BY THE PUBLIC SECTOR - continued</b>													
September gr 1994 —													
NSW	140.0	10.8	46.2	—	16.1	15.4	59.9	0.3	5.7	149.0	—	—	0.2
Vic.	51.9	2.5	15.4	—	6.5	6.7	47.9	21.9	2.7	109.1	1.0	—	—
Qld	100.9	2.9	29.3	2.9	12.0	8.8	45.7	—	4.6	96.0	1.0	—	104.5
SA	19.2	—	—	—	5.3	4.5	12.3	2.6	1.0	34.1	—	—	79.0
WA	23.2	0.3	1.9	0.7	8.5	8.4	11.6	1.5	4.9	43.1	—	—	104.2
Tas.	11.9	0.8	—	—	0.7	1.1	1.7	—	0.3	9.5	—	—	26.2
NT	0.1	—	—	—	0.4	0.1	0.6	—	—	7.0	—	—	8.2
ACT	0.1	—	—	—	0.4	4.7	6.4	—	—	7.3	—	—	19.0
Australia	347.4	17.3	93.3	3.7	49.9	49.8	186.2	25.5	19.2	455.0	1.9	—	1,249.5
<b>TOTAL</b>													
June gr 1994 — r													
NSW	506.1	47.3	150.1	2.8	63.1	49.4	91.9	11.9	25.4	157.8	96.1	36.0	3.5
Vic.	212.8	8.7	36.5	0.5	37.0	30.7	12.6	50.1	17.4	115.4	33.8	8.4	0.2
Qld	263.5	50.9	66.6	16.7	28.4	29.5	96.4	3.6	22.6	117.4	46.2	16.2	713.1
SA	82.6	0.7	2.7	0.8	11.0	14.9	16.8	7.4	7.4	36.8	10.0	8.7	758.2
WA	167.4	5.6	20.1	19.5	25.6	27.8	30.7	3.1	5.4	47.3	167.8	10.3	—
Tas.	35.8	1.6	—	1.9	1.9	1.9	6.1	—	1.4	12.0	1.4	—	470.7
NT	23.7	—	—	9.8	1.2	3.6	2.9	—	1.3	7.4	7.5	0.2	57.6
ACT	21.0	—	—	—	1.1	3.7	5.6	0.4	3.5	6.9	—	—	42.1
Australia	1,252.9	117.7	276.1	51.9	169.4	183.7	383.0	86.6	84.3	501.0	362.8	81.3	4.0
September gr 1994													
NSW	311.5	26.8	68.3	2.1	74.1	55.5	88.4	26.7	40.6	159.6	89.4	48.5	1.8
Vic.	167.8	11.3	29.1	0.1	18.2	29.8	81.9	23.0	17.8	118.1	12.3	11.1	—
Qld	253.9	38.6	90.3	14.3	26.1	25.9	147.1	4.2	29.9	96.3	43.8	11.4	777.4
SA	48.7	0.4	0.6	0.4	10.0	5.9	15.5	6.0	7.4	75.0	11.6	13.9	156.1
WA	92.7	6.3	5.1	3.7	11.5	10.7	28.9	2.2	11.7	43.8	101.3	12.8	330.2
Tas.	16.9	1.8	—	0.2	1.4	1.4	1.8	—	0.7	9.6	0.9	0.7	35.3
NT	26.7	—	—	6.6	1.0	1.6	4.1	4.7	1.3	7.1	9.8	0.2	63.1
ACT	26.2	0.2	—	—	1.2	6.5	6.5	0.7	5.4	7.3	—	—	53.9
Australia	944.2	85.5	193.3	27.4	143.5	137.3	368.2	67.5	114.6	476.8	289.7	98.5	3.2

TABLE 11. ENGINEERING CONSTRUCTION ACTIVITY : VALUE OF WORK YET TO BE DONE AT END OF PERIOD  
BY THE SECTOR UNDERTAKING THE WORK, BY TYPE OF CONSTRUCTION  
(\$ million)

Period, State or Territory	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecommu- nications	Heavy industry		
											Oil, gas, coal and other minerals	Other heavy industry	Total
BY THE PRIVATE SECTOR													
June qtr 1994 - r													
NSW	164.8	46.7	48.7	4.9	224.0	71.4	96.8	5.1	4.9	22.6	209.8	43.9	943.5
Vic.	148.8	3.7	15.8	0.2	44.0	114.3	116.1	-	4.9	2.1	87.4	4.7	542.0
Qld	120.8	59.0	82.1	16.5	13.2	15.2	75.5	2.7	2.2	0.8	36.2	11.2	435.4
SA	20.0	0.5	2.9	-	4.8	0.7	2.2	1.9	1.8	-	11.0	24.7	-
WA	59.0	6.4	2.1	10.9	1.3	2.1	385.8	0.2	0.9	-	246.3	9.9	724.9
Tas.	2.0	1.7	-	-	0.3	1.1	-	-	-	1.0	0.4	0.3	6.9
NT	43.2	-	-	7.8	-	0.1	3.5	0.9	0.3	11.3	-	-	67.1
ACT	24.3	-	-	2.0	2.7	-	-	2.4	1.1	-	-	-	32.5
Australia	583.0	118.0	151.6	40.4	289.7	207.6	679.9	10.8	17.3	27.7	602.3	94.7	-
BY THE PUBLIC SECTOR													
September qtr 1994 - ..													
NSW	139.8	32.8	54.7	-	214.0	57.8	117.0	19.6	10.6	12.7	232.1	73.9	-
Vic.	213.4	20.3	6.0	0.1	40.1	98.9	96.6	0.5	4.0	15.3	61.8	4.6	561.5
Qld	114.3	31.1	78.4	11.7	7.4	18.3	82.6	17.5	19.5	0.6	83.0	6.2	471.3
SA	13.5	-	0.6	0.1	11.1	0.2	1.8	2.0	3.5	-	12.5	28.1	-
WA	53.7	4.1	16.7	-	1.0	1.2	384.5	1.2	1.5	0.1	243.7	5.0	-
Tas.	2.2	0.9	-	-	0.6	0.1	-	-	0.1	1.0	0.3	0.1	5.2
NT	27.1	-	-	1.1	0.2	-	2.7	5.1	-	-	7.6	0.3	-
ACT	30.9	0.7	-	-	0.1	4.4	-	-	9.9	-	-	-	44.3
Australia	594.9	90.5	156.5	13.0	274.4	180.8	685.2	45.9	49.1	29.8	640.9	118.3	-

**TABLE 11. ENGINEERING CONSTRUCTION ACTIVITY: VALUE OF WORK YET TO BE DONE AT END OF PERIOD  
BY THE SECTOR UNDERTAKING THE WORK, BY TYPE OF CONSTRUCTION -- continued**  
(\$ million)

Period State or Territory	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecommu- nications	Other heavy industry	Other	Heavy industry	
													Total	Total
<b>BY THE PUBLIC SECTOR continued</b>														
September qtr 1994 --														
NSW	414.2	42.4	292.0	—	52.3	49.0	134.6	—	12.3	43.0	—	—	0.1	1,040.1
Vic.	10.0	2.9	19.8	—	12.5	98.6	55.4	—	0.7	6.0	—	—	0.5	205.7
Qld	202.9	10.5	155.8	—	46.4	36.3	231.7	—	17.6	0.2	—	—	0.5	701.9
SA	16.6	—	—	—	54.7	39.4	1.5	1.0	1.7	—	—	—	—	115.0
WA	35.0	1.7	25.4	0.6	0.1	1.2	0.1	—	2.2	—	—	—	—	66.3
Tas.	11.4	0.1	—	0.1	0.7	1.8	34.0	0.1	0.8	11.6	—	—	—	60.6
NT	0.4	—	—	—	1.1	0.4	1.4	0.1	—	—	—	—	—	3.3
ACT	0.1	—	—	—	2.2	2.2	3.7	—	—	—	—	—	—	3.1
Australia	690.6	87.7	493.0	0.7	170.0	228.9	462.3	1.2	35.3	54.9	6.0	—	0.5	2,201.0
<b>TOTAL</b>														
June qtr 1994 -- r														
NSW	228.0	56.1	57.4	4.9	260.5	127.8	139.7	5.1	7.9	37.7	209.8	43.9	—	1,178.9
Vic.	167.4	5.3	24.0	1.1	61.6	197.6	159.8	—	6.3	2.1	117.9	4.7	—	747.9
Qld	270.4	63.1	180.9	16.5	65.5	27.2	283.6	2.7	8.2	1.8	36.2	11.2	0.2	967.6
SA	24.0	0.6	3.9	—	58.4	38.6	2.2	5.5	2.7	—	11.0	24.9	—	171.9
WA	89.0	10.3	23.0	11.9	1.3	3.0	385.8	0.2	5.9	—	246.3	9.9	—	786.6
Tas.	3.9	1.7	—	—	0.7	2.6	35.9	—	0.7	10.7	0.4	0.3	—	56.7
NT	46.2	—	—	—	7.8	1.1	0.3	4.4	0.9	—	11.3	—	—	69.3
ACT	24.4	—	—	—	—	3.6	5.6	2.3	—	2.4	1.4	—	—	39.7
Australia	850.2	137.2	289.1	42.4	452.8	402.7	1,013.7	14.4	34.3	53.9	632.9	94.9	0.3	4,018.7
September qtr 1994														
NSW	554.0	75.1	346.8	—	266.3	106.8	251.7	19.7	22.9	55.8	232.1	73.9	0.1	2,005.3
Vic.	223.4	23.2	25.8	0.1	52.5	197.5	152.0	0.5	4.6	153	67.8	4.6	—	767.1
Qld	317.2	42.3	234.2	11.7	53.8	34.6	314.3	17.5	37.1	0.8	83.0	6.2	0.5	1,173.2
SA	30.2	—	0.6	0.1	65.7	39.6	3.3	3.0	5.2	—	12.5	18.1	—	188.3
WA	88.7	5.9	42.1	0.6	1.1	2.3	384.5	1.2	3.7	0.1	243.7	5.0	—	778.9
Tas.	13.6	1.0	—	0.1	1.3	1.9	34.1	0.1	0.9	12.6	0.3	0.1	—	65.9
NT	27.5	—	—	1.1	1.4	0.4	4.1	5.1	0.1	—	7.6	0.3	—	47.6
ACT	31.0	0.7	—	—	—	2.2	6.5	3.7	—	9.9	—	—	—	54.1
Australia	1,285.5	148.2	649.5	13.7	444.4	409.6	1,147.5	47.1	84.4	84.6	646.9	118.3	0.5	5,080.3

**TABLE 12. ENGINEERING CONSTRUCTION ACTIVITY BY STAGE OF CONSTRUCTION  
BY THE PRIVATE SECTOR  
(\$ million)**

<i>Stage of construction</i>	<i>NSW</i>	<i>Vic.</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas.</i>	<i>NT</i>	<i>ACT</i>	<i>Australia</i>
JUNE QUARTER 1994 r									
<i>For the private sector --</i>									
Value of work commenced	152.1	87.1	189.6	51.9	140.7	7.3	32.0	16.0	676.9
Value of work done	292.7	128.6	186.1	36.0	258.7	9.6	20.5	19.4	951.7
Value of work yet to be done	522.5	145.4	136.5	48.0	306.5	3.6	21.9	21.2	1,205.4
<i>For the public sector</i>									
Value of work commenced	264.5	167.9	140.8	23.1	417.5	8.5	28.5	7.2	1,057.9
Value of work done	304.0	191.4	203.8	31.3	55.0	13.1	27.7	8.0	834.2
Value of work yet to be done	421.1	396.6	299.0	22.7	418.4	3.3	45.3	11.4	1,617.7
<b>Total</b>									
Value of work commenced	416.6	255.0	330.4	75.0	558.3	15.8	60.5	23.3	1,734.8
Value of work done	596.7	320.1	390.0	67.3	313.7	22.6	48.2	27.4	1,785.9
Value of work yet to be done	943.5	542.0	435.4	70.7	724.9	6.9	67.1	32.5	2,823.0
SEPTEMBER QUARTER 1994									
<i>For the private sector --</i>									
Value of work commenced	301.3	123.2	346.6	47.7	201.7	5.1	10.0	18.5	1,054.1
Value of work done	284.5	132.2	210.2	50.3	191.0	4.5	21.9	24.8	919.6
Value of work yet to be done	517.2	125.8	250.0	50.9	308.6	1.6	10.4	35.1	1,319.6
<i>For the public sector</i>									
Value of work commenced	277.9	185.1	146.1	28.2	31.2	3.1	20.8	11.7	704.1
Value of work done	265.1	143.3	262.7	26.8	35.1	4.6	32.9	10.1	780.5
Value of work yet to be done	428.0	435.6	221.3	22.4	404.0	3.6	33.9	10.9	1,559.7
<b>Total</b>									
Value of work commenced	579.2	308.3	492.7	75.9	232.9	8.2	30.9	30.2	1,758.2
Value of work done	549.6	275.6	472.9	77.1	226.0	9.1	54.8	34.9	1,700.1
Value of work yet to be done	965.2	561.5	471.3	73.3	712.6	5.2	44.3	45.9	2,879.3

**TABLE 13. ENGINEERING CONSTRUCTION ACTIVITY BY STAGE OF CONSTRUCTION  
BY THE PUBLIC SECTOR**  
(\$ million)

State or Territory	Value of work commenced		Value of work done		Value of work yet to be done	
	June qtr 1994 r	Sept. qtr 1994	June qtr 1994 r	Sept. qtr 1994	June qtr 1994 r	Sept. qtr 1994
<b>COMMONWEALTH GOVERNMENT</b>						
NSW	126.0	147.6	126.1	147.4	2.2	1.8
Vic.	109.4	109.1	109.4	109.1	—	—
Qld	115.4	95.8	115.6	95.7	0.6	0.1
SA	36.3	34.1	36.3	34.1	—	—
WA	47.2	43.1	47.3	43.1	—	—
Tas.	9.5	9.5	9.5	9.5	—	—
NT	7.4	7.0	7.4	7.0	—	—
ACT	6.2	7.3	6.2	7.3	0.3	—
<i>Australia</i>	<b>457.4</b>	<b>453.4</b>	<b>457.8</b>	<b>453.2</b>	<b>3.1</b>	<b>1.9</b>
<b>STATE AND TERRITORY GOVERNMENT</b>						
NSW	26.3	821.5	358.5	149.7	107.2	741.9
Vic.	197.1	141.2	224.3	96.8	180.2	187.1
Qld	166.3	200.7	143.8	119.9	419.8	503.0
SA	35.1	34.3	65.7	33.6	93.5	95.7
WA	59.4	47.5	74.4	39.4	43.7	41.8
Tas.	19.8	14.5	27.9	10.6	45.5	48.4
NT	1.1	1.7	1.7	1.1	2.2	2.9
ACT(a)	7.1	12.9	8.5	11.7	6.9	8.1
<i>Australia</i>	<b>512.2</b>	<b>1,274.3</b>	<b>904.9</b>	<b>462.7</b>	<b>899.0</b>	<b>1,628.9</b>
<b>LOCAL GOVERNMENT</b>						
NSW	133.5	332.2	161.1	146.4	125.9	296.4
Vic.	50.2	48.4	59.2	59.0	25.7	18.6
Qld	87.8	229.8	108.8	88.9	111.9	198.9
SA	19.6	25.1	30.4	11.3	7.8	19.3
WA	20.2	35.9	35.3	21.7	18.0	24.5
Tas.	3.9	12.8	10.8	6.1	4.3	12.2
NT	—	0.6	0.3	0.1	—	0.4
ACT	—	—	—	—	—	—
<i>Australia</i>	<b>375.2</b>	<b>684.7</b>	<b>406.0</b>	<b>333.5</b>	<b>293.6</b>	<b>570.2</b>
<b>TOTAL GOVERNMENT</b>						
NSW	285.8	1,301.2	645.7	443.6	235.3	1,040.1
Vic.	356.7	298.6	393.0	264.8	205.9	205.7
Qld	369.6	526.3	368.3	304.5	532.2	701.9
SA	91.0	93.5	132.3	79.0	101.3	115.0
WA	126.8	126.5	157.1	104.2	61.7	66.3
Tas.	33.2	36.8	48.2	26.2	49.8	60.6
NT	8.5	9.3	9.4	8.2	2.2	3.3
ACT	13.2	20.2	14.7	19.0	7.2	8.1
<i>Australia</i>	<b>1,284.8</b>	<b>2,412.5</b>	<b>1,768.6</b>	<b>1,249.5</b>	<b>1,195.6</b>	<b>2,201.0</b>

(a) From September quarter 1990, data relating to the ACT Government has been excluded from Commonwealth Government activity for the ACT and is shown separately as ACT Government activity.

TABLE 14. APPROXIMATE RELATIVE STANDARD ERRORS ON QUARTERLY ESTIMATES FOR  
THE VALUE OF WORK COMMENCED BY SECTOR UNDERTAKING THE WORK  
(percentage)

State or Territory	Roads, highways and subdivisions	Bridges	Railways	Harbours	BY THE PRIVATE SECTOR						BY THE PUBLIC SECTOR						TOTAL
					Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecommunications	Oil, gas, coal and other minerals	Heavy industry	Other heavy industry	Other	Total		
<b>NSW</b>																	
NSW	5.5	24.4	6.7	19.0	5.2	9.3	1.0	11.5	10.1	16.0	4.9	3.0	38.8	2.3			
Vic.	4.1	5.0	—	39.5	23.2	13.9	8.7	14.4	14.1	71.7	1.5	6.8	2.4				
Qld	3.2	48.2	16.1	25.8	9.3	11.8	2.6	35.9	14.8	—	3.1	—	32.2	2.8			
SA	7.2	—	41.7	—	—	12.8	—	20.8	21.6	—	19.8	55.8	—	4.5			
WA	3.4	—	8.9	—	8.9	24.7	—	—	22.3	—	2.7	1.3	—	2.2			
Tas.	8.5	—	—	—	13.9	32.1	—	—	31.6	—	33.3	28.1	—	6.7			
NT	4.9	—	—	—	37.4	55.8	33.1	—	—	34.8	—	—	—	6.7			
ACT	4.3	—	—	—	—	42.8	—	—	39.7	—	—	—	—	—	15.0		
Australia	2.2	28.8	7.0	8.9	4.7	6.1	2.1	12.3	7.1	20.5	2.1	3.1	14.0	1.2			
<b>NSW</b>																	
NSW	6.5	24.6	—	—	6.7	6.1	4.2	8.0	8.2	—	—	—	—	0.2	1.7		
Vic.	11.0	16.2	—	—	8.9	3.9	3.2	—	25.5	—	—	—	—	0.5			
Qld	5.3	10.1	—	—	5.4	16.0	0.1	—	9.8	—	—	—	—	3.2			
SA	13.7	77.9	—	—	0.7	14.1	1.3	—	33.0	—	—	—	—	7.7			
WA	9.0	7.4	—	—	1.4	2.4	—	—	10.5	—	—	—	—	5.1			
Tas.	1.1	—	—	—	25.7	6.1	—	48.3	11.4	—	—	—	—	1.6			
NT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
ACT	—	—	—	—	—	—	—	—	—	—	—	—	—	—	—		
Australia	3.3	7.7	—	—	2.6	3.3	1.7	1.0	6.0	—	—	—	—	8.8	0.6		
<b>NSW</b>																	
NSW	4.2	18.7	6.7	19.0	4.1	5.8	2.7	11.2	8.5	0.3	4.9	3.0	11.4	1.5			
Vic.	4.7	8.1	—	39.6	11.6	4.1	3.1	5.1	12.4	—	1.5	6.8	8.1	0.6			
Qld	3.0	44.1	7.5	12.2	4.9	9.6	0.5	35.1	13.0	—	2.7	—	32.0	2.1			
SA	7.2	42.1	36.1	—	5.3	13.3	1.3	18.2	18.2	—	19.5	55.8	—	4.7			
WA	4.7	21.6	0.2	—	4.6	4.4	—	—	12.4	—	2.7	1.3	—	2.5			
Tas.	3.5	—	—	—	12.2	19.8	—	34.8	18.6	—	33.3	28.1	—	3.8			
NT	4.9	—	—	—	13.7	32.1	18.3	—	—	34.1	—	—	—	6.3			
ACT	4.0	—	—	—	—	13.0	—	—	39.7	—	—	—	—	7.6			
Australia	1.9	20.3	3.6	6.8	2.6	3.0	1.4	9.1	5.9	0.1	2.0	3.1	10.2	0.6			

TABLE 15. APPROXIMATE RELATIVE STANDARD ERRORS ON QUARTERLY ESTIMATES FOR THE VALUE OF WORK DONE BY SECTOR UNDERTAKING THE WORK  
(percentage)

State or Territory	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecommunications	Heavy industry		
											Oil, gas, coal and other minerals	Other heavy industry	Total
<b>BY THE PRIVATE SECTOR</b>													
NSW	4.3	8.9	8.4	5.7	4.4	6.0	0.5	8.4	9.7	5.1	3.3	2.5	27.8
Vic.	3.9	6.3	—	22.6	12.6	5.9	6.1	5.0	14.3	8.0	0.6	3.7	1.9
Qld	3.5	34.3	11.8	2.2	7.7	10.9	1.5	27.8	13.9	... —	2.5	27.9	1.8
SA	6.4	—	41.3	—	—	53.6	—	15.4	19.1	—	18.4	51.8	2.6
WA	8.0	—	0.4	—	6.2	6.7	—	—	10.9	—	3.0	4.0	3.8
Tas.	13.7	—	—	10.8	12.4	—	—	23.9	—	—	31.2	12.8	1.5
NT	4.2	—	—	11.0	15.3	29.2	—	—	35.3	—	—	—	8.4
ACT	6.1	—	—	—	20.8	—	—	42.4	—	—	—	—	4.9
Australia	2.1	12.9	4.6	2.3	3.4	4.3	1.1	7.4	6.4	4.5	1.2	2.3	10.9
<b>BY THE PUBLIC SECTOR</b>													
NSW	2.6	4.6	—	—	3.8	3.8	4.0	8.0	8.6	— —	—	—	1.0
Vic.	8.8	13.3	—	—	9.8	7.3	1.4	—	21.6	—	—	—	0.4
Qld	3.9	5.2	—	—	1.6	7.3	— —	—	10.0	— —	—	—	2.3
SA	6.9	—	—	—	1.0	8.7	1.1	—	30.4	— —	—	—	5.5
WA	7.2	2.4	—	—	1.1	2.8	—	—	12.6	— —	—	—	4.5
Tas.	0.9	—	—	—	1.4	2.3	—	48.3	11.0	— —	—	—	0.7
NT	—	—	—	—	—	—	—	—	—	—	—	—	—
ACT	—	—	—	—	—	—	—	—	—	—	—	—	—
Australia	2.0	3.2	—	—	1.8	2.4	1.3	0.7	6.3	— —	— —	— —	3.0
<b>TOTAL</b>													
NSW	2.5	4.9	0.9	5.7	2.9	3.6	1.7	8.2	8.3	0.3	3.3	2.5	9.6
Vic.	3.9	6.1	18.5	8.1	4.7	1.9	3.0	12.1	— —	0.6	3.7	6.4	0.5
Qld	2.6	27.6	6.3	1.8	3.0	6.7	0.3	27.2	11.9	— —	2.3	22.4	1.8
SA	4.7	6.8	26.3	—	6.7	12.0	1.1	14.2	16.9	— —	18.1	39.5	3.4
WA	5.4	21.0	0.1	—	3.7	2.6	—	—	8.8	— —	3.0	4.0	1.8
Tas.	6.0	—	—	—	2.3	8.7	—	28.3	17.5	— —	31.2	12.8	3.3
NT	4.2	—	—	—	7.2	28.3	17.7	—	34.2	— —	—	—	4.5
ACT	6.0	—	—	—	—	8.9	— —	—	42.4	— —	—	—	6.5
Australia	1.4	7.9	1.1	1.9	1.8	2.3	0.9	6.0	5.4	0.1	1.2	2.3	7.9

TABLE 16. APPROXIMATE RELATIVE STANDARD ERRORS ON QUARTERLY ESTIMATES FOR  
THE VALUE OF WORK YET TO BE DONE BY THE SECTOR UNDERTAKING THE WORK  
(percentage)

State or territory	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation	Heavy industry		
										Oil, gas, coal and other minerals	Other heavy industry	Total
<b>BY THE PRIVATE SECTOR</b>												
NSW	0.7	6.5	6.8	3.8	1.0	4.7	0.3	4.4	8.3	0.1	1.1	0.6
Vic.	1.2	3.3	—	16.8	1.3	2.1	1.7	0.1	27.4	0.1	3.4	0.6
Qld	2.4	14.4	15.4	0.9	2.1	4.4	0.3	20.6	12.8	—	0.9	0.7
SA	4.5	5.3	—	—	—	40.9	—	0.8	14.9	—	5.8	40.1
WA	9.2	—	34.0	—	4.1	21.4	—	—	3.0	—	4.7	0.8
Tas.	21.0	—	—	—	10.6	24.7	—	—	43.8	—	12.8	14.4
N.T.	0.7	—	—	—	16.4	17.1	5.9	—	29.5	—	—	—
ACT	11.4	—	—	—	—	13.9	—	—	45.2	—	—	—
Australia	1.1	15.8	4.4	1.0	0.8	2.2	0.3	0.9	4.8	2.6	2.0	1.2
<b>BY THE PUBLIC SECTOR</b>												
NSW	4.4	4.7	—	—	0.5	2.5	5.2	70.2	15.5	—	—	1.7
Vic.	19.0	12.9	—	—	4.7	1.3	3.3	—	25.2	3.0	—	2.7
Qld	3.3	5.1	—	—	1.1	10.7	—	—	6.0	—	—	2.1
SA	39.5	—	—	—	0.2	4.9	74.1	—	23.2	—	—	5.9
WA	9.6	3.1	—	—	15.7	6.9	—	—	8.1	—	—	4.7
Fas.	3.2	—	—	—	0.8	3.5	—	48.3	1.0	—	—	0.5
N.T.	—	—	—	—	—	—	—	—	—	—	—	—
ACT	—	—	—	—	—	—	—	—	—	—	—	—
Australia	2.8	3.6	—	—	0.6	1.6	1.2	0.8	5.5	—	—	14.6
<b>TOTAL</b>												
NSW	2.3	3.8	0.6	3.8	0.5	2.3	0.9	4.4	7.7	1.1	0.6	6.0
Vic.	4.5	4.0	—	10.9	2.8	1.1	2.1	0.1	18.8	0.1	3.2	0.6
Qld	2.2	27.3	5.7	0.9	1.0	6.8	—	20.6	5.7	—	0.9	6.3
SA	17.6	4.3	1.9	—	0.1	5.1	23.3	0.3	12.8	—	5.8	30.3
WA	6.8	1.6	5.0	—	4.0	10.3	—	—	3.6	—	4.7	0.8
Tas.	9.2	—	—	—	1.0	18.4	—	48.3	14.8	—	12.8	14.4
N.T.	0.7	—	—	—	7.2	12.8	3.1	—	27.7	—	—	—
ACT	11.1	—	—	—	—	1.7	—	—	45.2	—	—	—
Australia	1.5	9.7	1.1	0.9	0.5	1.3	0.5	0.8	3.6	1.3	1.9	1.1

## EXPLANATORY NOTES

### **Introduction**

This publication contains estimates of engineering construction activity in Australia by both public and private sector organisations. The estimates were compiled from the Engineering Construction Survey (ECS).

2. These estimates together with results from the ABS Building Activity Surveys provide a complete quarterly picture of building and construction activity in Australia.

### **Scope and coverage of the survey**

3. The ECS aims to measure the value of all engineering construction work undertaken in Australia. For the ECS all enterprises 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.

4. The cost of land and the value of building construction is excluded from the survey's scope. Where projects include elements of both building and engineering construction e.g. electricity generation, heavy industrial plant, every effort is taken to exclude the building component from these statistics.

5. Repair and maintenance activity is excluded from the survey (see definitions) 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.

6. A contract for the installation of machinery and equipment which is an integral part of a construction project is included in the statistics even though, in some cases, the activity in installing such machinery and equipment is classified to the manufacturing industry in the *Australian Standard Industrial Classification, Volume 1* (1201.0).

### **Sample Revision**

7. For the September quarter survey each year, some changes are made to the sample of businesses. While the impact of the sample revision on total estimates is insignificant, the impact at individual category level may be significant.

### **Type of construction**

8. In this collection each project is classified to a category of construction without regard to end use. For example, a project involving coal handling equipment at an electricity generating plant is included under 'Heavy industry - Oil, gas, coal and other minerals' and not under 'Electricity generation, transmission and distribution'. Where a project involves more than one category of construction the project is included under the category which accounts for the major part of the contract in terms of value.

9. Type of construction is divided into a number of categories as defined below:

- (a) *Roads, highways and subdivisions.* Includes parking areas; cycle paths; airport runways; pedestrian and vehicle overpasses; traffic lights; roundabouts; associated road drainage works; street and highway lighting; road resurfacing, kerbing and guttering; road tunnels.
- (b) *Bridges.* Includes those for the support of roads, railways, causeways and elevated highways.
- (c) *Railways.* Includes tracklaying; overhead power lines and signals; platforms; tramways; tunnels for underground railways; fuel hoppers.
- (d) *Harbours.* Includes boat and yacht basins; breakwaters; retaining walls; docks and piers; terminals; wharves; dredging works; marinas.
- (e) *Water storage and supply.* Includes dams; weirs; reservoirs; embankments for water diversion; water pipelines; mains and treatment plants; flood prevention and erosion; aqueducts; water conduits; systems conveying water to residences, commercial and industrial establishments.
- (f) *Sewerage and drainage.* Includes sanitary and storm sewers; sewage treatment plants; stormwater drains; drainage systems.
- (g) *Electricity generation, transmission and distribution.* Includes power stations; sub stations; hydroelectric generating plants; associated work ie towers, chimneys; transmission and distribution lines.
- (h) *Pipelines.* Includes oil and gas pipelines; urban supply mains for gas; pipelines for refined petroleum products, chemicals, foodstuffs, etc.
- (i) *Recreation.* Includes golf courses; playing fields; racecourses; stadiums; swimming pools; landscaping; park construction.
- (j) *Telecommunications.* Includes radio, television, microwave and radar transmission towers; telephone and telegraph lines and underground cables; coaxial cables.
- (k) *Heavy Industry*
- (l) *Oil, gas, coal and other minerals.* Includes construction of production, storage and distribution facilities; refineries; pumping stations; construction of mines;

- (ii) *Other heavy industry.* Includes construction of chemical plants; blast furnaces; steel mills; other industrial processing plants; ovens.

## Definitions

10. Definitions used are as follows:

(a) *Ownership*

Projects are classified as 'private sector' or 'public sector' according to the expected ownership of the project at the time of completion.

(b) *Sector*

The public sector includes Commonwealth Departments and Authorities, State Departments and Authorities, Local Government Authorities, Water, Sewerage and Electricity Authorities and Semi-government Authorities e.g. public hospitals. This publication contains separate estimates for:

(i) Commonwealth Government

(ii) State and Territory Government

(iii) Local Government.

All remaining organisations are classified as private sector.

(c) *Commenced*

A project is regarded as having commenced when the site work begins. However, some public sector authorities are unable to report on this basis. In such cases, the authorities report the value of their annual works budget as a commencement in the September quarter each year.

(d) *Value of work yet to be done*

The value of outstanding work for the project at the end of the period. Rise and fall and other cost variations can lead to increases or decreases in the value of work yet to be done.

(e) *Value of work done*

For the private sector this consists of the value of work done on prime contracts, plus speculative contracts, plus work done on own account.

For the public sector it is defined as work done by the organisation's own workforce.

## Reliability of the estimates

11. Since the figures for private sector and public sector organisations are derived from information obtained from a sample of organisations they are subject to sampling error; that is, they may differ from the figures that would have been obtained if information for all organisations for the relevant period had been included in the survey. A measure of the likely difference is given by the relative standard error of each estimate. 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 units had been included, and about nineteen chances in twenty that the difference will be less

than two standard errors. Relative standard errors of the estimates are shown in Tables 14, 15 and 16.

12. An example of the use of standard errors follows. If the total value of work done during the quarter is \$2,500m and the associated standard error is 0.5 per cent then there are about two chances in three that the value which would have been derived if there had been a complete collection would have been within the range \$2,488m to \$2,513m and about nineteen chances in twenty that the value would have been within the range \$2,475m to \$2,525m.

13. 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 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 organisations, and efficient operating procedures.

14. Caution is advised in respect of the value of work commenced (and consequently, the value of work yet to be done) reported by the public sector. It is known that data reported for value of work commenced are a combination of the following: annual works budget estimates which are reported as commencements in the September quarter (and in some cases may subsequently be undertaken by the private sector); genuine commencements as defined in paragraph 10(c), and reported quarterly; commencements being reported as equal to the value of work done for the quarter; commencements of major stages in the case of long term projects.

## Seasonal adjustment

15. Seasonally adjusted statistics for engineering construction activity are shown in Tables 2 and 4. 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. As happens with all seasonally adjusted series, the seasonal factors are reviewed annually to take account of each additional year's data. Information regarding the methods used in seasonally adjusting the series is available on request.

16. 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.

## Estimates at constant prices

17. Estimates of the value of work done at average 1989-90 prices are presented in original and seasonally adjusted terms for Australia in Table 2.

18. 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'.

19. 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).

#### **Related publications**

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

*Building Approvals, Australia* (8731.0) — issued monthly

*Building Activity, Australia: Dwelling Unit Commencements, Preliminary* (8750.0) — issued quarterly

*Building Activity, Australia* (8752.0) — issued quarterly

*Construction Activity At 1984-85 Prices, Australia* (8782.0) — issued quarterly

*Public Sector Construction Activity, Australia, 1988-89* (8775.0)

*Construction Industry Australia, Summary of Private Sector Operations, 1988-89* (8771.0)

21. Current publications produced by the ABS are listed in the *Catalogue of Publications and Products, Australia* (1101.0). The ABS also issues, on Tuesdays and Fridays, a *Publications Advice* (1105.0) which lists publications to be released in the next few days. The Catalogue and Publications Advice are available from any ABS office.

#### **Symbols and other usages**

r	figure or series revised since previous issue
..	not applicable
—	nil or rounded down to zero

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

**TIM SKINNER**  
**Acting Australian Statistician**



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