

CATALOGUE NO. 8762.0
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ENGINEERING CONSTRUCTION ACTIVITY, AUSTRALIA SEPTEMBER QUARTER 1993

SUMMARY OF FINDINGS

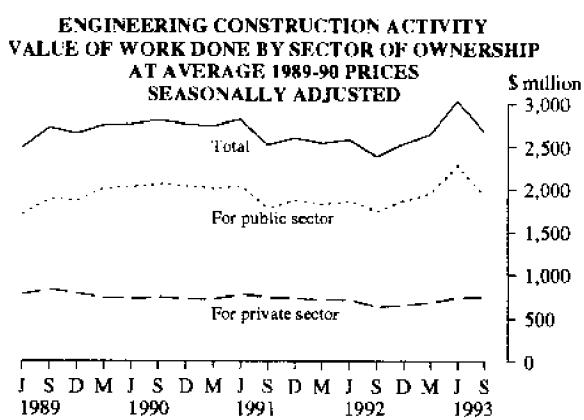
Engineering Construction Activity

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 1993 was \$2,671.6m, a decrease of 12.0 per cent from the record June quarter 1993 estimate, but 11.7 per cent above the September quarter 1992 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	From	
	Sept qtr	Jun. qtr	Sept qtr
1993	1993	1993	1992
For private sector	\$744.7m	-0.8	+15.5
For public sector	\$1,926.9m	-15.7	+10.3
Total	\$2,671.6m	-12.0	+11.7



Engineering construction activity decreased in all sectors in the September quarter 1993. The value of work done for the private sector declined by 0.8 per cent, while the value of work done for the public sector decreased by 15.7 per cent. This fall in value of work done for the public sector comprised a 22.2 per cent decrease in work undertaken by its own workforce and a 3.7 per cent decrease in work contracted to the private sector. While engineering construction activity fell from the June quarter, it should be noted that June quarter 1993 activity was the highest recorded since the survey began in September 1986. The September quarter 1993 engineering construction estimates for both private and public sectors were well above the levels recorded for the same quarter in 1992.

At current prices

In original, current price terms, the value of work done during the September quarter 1993 was \$2,843.0m, a decrease of 19.1 per cent from the June quarter 1993 estimate, but still 12.4 per cent above the level recorded in the September quarter 1992.

Activity decreased in most States and Territories from the June quarter 1993, with the most significant falls occurring in New South Wales (-29.2%), Victoria (-25.6%), South Australia (-35.3%) and Tasmania (-32.1%). Western Australia and the Australian Capital Territory recorded smaller declines (-8.5% and -5.2% respectively) while Queensland (+3.3%) and the Northern Territory (+2.8%) registered small increases in engineering construction activity in the September quarter 1993.

Activity fell in most construction categories, with the most significant falls occurring in the Roads, highways and subdivisions (-26.2%), Telecommunications (-26.7%), Railways (-46.6%) and Water storage and supply (-37.3%) categories.

However, each of these categories recorded large increases in the value of work done in the June quarter 1993.

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.

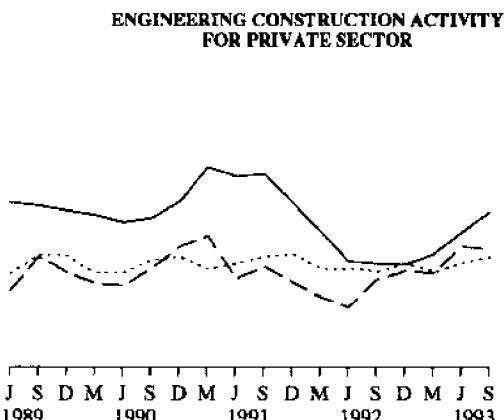
Engineering Construction Activity For the Private Sector

At current prices

The value of work commenced during the September quarter 1993 was \$881.6m, a decrease of 2.2 per cent from the June quarter 1993 estimate, but 33.7 per cent above the value of commencements for the September quarter 1992. The most significant quarterly increase was in the Water storage and supply category, where commencements rose by over 400 per cent. This increase was offset to a large extent by a fall in the value of commencements in the Roads, highways and subdivisions category of 23.4 per cent, and a fall in Telecommunications commencements.

The value of work done in the September quarter 1993 was \$827.4m, an increase of 6.2 per cent over the June quarter estimate. The most significant movement was an increase of 21.9 per cent in the Heavy industry category.

The value of work yet to be done rose by 16.1 per cent to \$1,167.3m, the highest value of work yet to be done for the private sector since the December quarter 1991.



— Value of work yet to be done
..... Value of work done
- - - Value of commencements

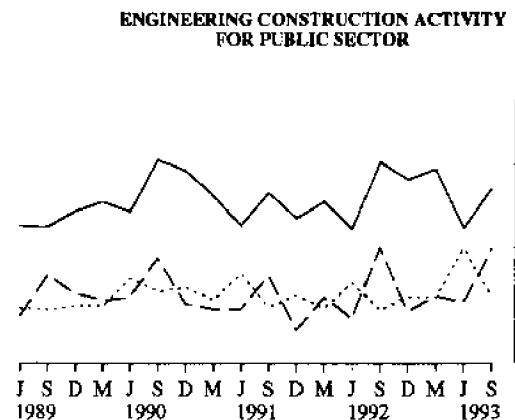
Engineering Construction Activity For the Public Sector

At current prices

The value of engineering work commenced for the public sector in the September quarter 1993 was \$2,711.3m, an increase of 41.3 per cent over June quarter 1993 commencements, but 1.2 per cent lower than the September 1992 estimate. 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 of the increases were recorded in the Roads, highways and subdivisions and Railways categories and were confined to work to be undertaken by the public sector itself.

The September quarter 1993 estimate of the value of work done was \$2,015.5m, a 26.3 per cent decrease from June quarter 1993. Decreases were recorded across virtually all categories. The most significant decreases were in the Roads, highways and subdivisions (-32.4%), Telecommunications (-28.0%) and Railways (-50.4%) categories.

While the value of engineering work done for the public sector fell 26.3 per cent in the September quarter 1993, work done by its own workforce fell by 36.8 per cent to \$1,170.9m. The decrease occurred across all levels of government; State and Territory decreased by \$477m (-49.6%), Commonwealth (-26.9%) and Local (-17.8%). The value of work for the public sector, contracted out to the private sector, decreased by a relatively small 4.4 per cent.



— Value of work yet to be done
..... Value of work done
- - - Value of commencements

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

Period	By the private sector			By the public sector	Total for the public sector (a)	Total
	For the private sector	For the public sector	Total			
ORIGINAL						
1990-91	3,150.4	2,556.7	5,707.1	5,967.8	8,524.5	11,674.9
1991-92	3,168.2	2,692.4	5,860.6	5,230.4	7,922.7	11,091.0
1992-93 r	2,996.5	2,846.9	5,843.4	5,681.4	8,528.3	11,524.8
1992 June qtr	743.8	676.0	1,419.8	1,537.8	2,213.8	2,957.6
Sept. qtr	721.3	611.4	1,332.7	1,196.8	1,808.2	2,529.5
Dec. qtr	782.7	632.8	1,415.5	1,363.8	1,996.6	2,779.3
1993 Mar. qtr	713.7	719.5	1,433.3	1,269.5	1,989.0	2,702.8
June qtr r	778.8	883.1	1,662.0	1,851.3	2,734.5	3,513.3
Sept. qtr	827.4	844.6	1,672.0	1,170.9	2,015.5	2,843.0
SEASONALLY ADJUSTED						
1992 June qtr	779.0	679.3	1,458.3	1,331.4	2,010.8	2,789.7
Sept. qtr	703.7	608.0	1,311.8	1,265.6	1,873.6	2,577.4
Dec. qtr	729.4	617.6	1,347.0	1,391.0	2,008.6	2,738.0
1993 Mar. qtr	754.3	737.6	1,491.9	1,380.5	2,118.1	2,872.4
June qtr r	815.2	880.6	1,695.8	1,602.0	2,482.6	3,297.8
Sept. qtr	807.1	844.7	1,651.8	1,239.7	2,084.4	2,891.5

(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 (r)
(\$ million)**

Period	By the private sector			By the public sector	Total for the public sector (b)	Total
	For the private sector	For the public sector	Total			
ORIGINAL						
1990-91	2,985.5	2,437.3	5,422.7	5,713.9	8,151.2	11,136.6
1991-92	2,923.4	2,502.9	5,426.3	4,902.4	7,405.3	10,328.7
1992-93	2,750.8	2,620.3	5,371.1	5,279.4	7,899.7	10,650.5
1992 June qtr	684.2	625.4	1,309.6	1,435.9	2,061.3	2,745.5
Sept. qtr	661.1	567.2	1,228.2	1,118.4	1,685.6	2,346.6
Dec. qtr	717.8	584.4	1,302.2	1,271.5	1,855.9	2,573.7
1993 Mar. qtr	655.0	661.4	1,316.4	1,178.9	1,840.3	2,495.3
June qtr	716.9	807.3	1,524.3	1,710.6	2,517.9	3,234.9
Sept. qtr	763.4	776.5	1,539.8	1,087.4	1,863.9	2,627.2
SEASONALLY ADJUSTED						
1992 June qtr	716.6	629.2	1,345.8	1,243.2	1,872.4	2,589.0
Sept. qtr	645.0	563.5	1,208.5	1,182.7	1,746.2	2,391.2
Dec. qtr	669.0	570.0	1,239.0	1,296.8	1,866.8	2,535.8
1993 Mar. qtr	692.3	678.4	1,370.7	1,282.0	1,960.4	2,652.7
June qtr	750.4	805.9	1,556.3	1,480.2	2,286.1	3,036.5
Sept. qtr	744.7	775.7	1,520.4	1,151.2	1,926.9	2,671.6

(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)

Roads, highways and subdivisions		Bridges	Railways	Harbours	Water storage and supply	Sewage and drainage	Pipelines	Recreation	Telecommu- nications	Heavy industry	Other	Total
Period	Period											
FOR THE PRIVATE SECTOR												
1990/91	930.9	12.8	33.4	30.2	99.5	90.5	113.1	65.0	312.5	7.3	1,580.1	23.1
1991/92	818.7	8.1	14.9	59.0	55.8	51.4	56.7	93.8	189.1	19.6	983.7	28.1
1992/93 r	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
1992 June qr												
Sept. qr	228.2	0.2	1.2	0.7	18.5	23.5	18.6	80.9	52.4	2.8	219.5	13.2
Dec. qr	233.7	0.1	2.6	6.7	19.1	57.5	31.3	29.2	62.8	1.3	276.0	1.8
1993 Mar. qr	236.1	—	4.7	7.5	65.6	12.7	18.4	23.0	50.0	67.0	215.9	5.1
June qr r	321.3	4.5	7.9	11.6	21.4	14.1	53.3	57.3	44.0	37.9	324.9	3.2
Sep. qr	246.0	—	19.4	6.5	112.3	17.7	39.6	34.4	56.4	3.3	344.0	1.9
FOR THE PUBLIC SECTOR												
1990/91	973.0	149.1	64.2	46.6	282.9	190.8	344.4	35.7	110.0	15.1	173.6	1.8
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
1992/93 r	1,513.2	126.1	67.6	48.3	163.0	271.7	253.5	25.4	68.7	49.6	35.5	8.6
1992 June qr												
Sept. qr	229.7	6.4	18.4	5.7	32.2	124.0	103.5	3.4	10.6	1.2	6.2	1.2
Dec. qr	342.7	32.1	17.2	7.7	81.8	46.3	32.7	8.0	14.6	4.3	3.4	2.7
1993 Mar. qr	474.8	60.9	14.4	19.8	22.9	38.5	62.0	11.6	29.5	40.1	13.3	2.8
June qr r	365.9	26.6	17.7	15.1	26.1	62.9	55.3	2.3	14.1	4.0	12.6	2.0
Sep. qr	219.3	51.4	42.4	36.7	26.7	112.9	83.2	1.8	14.0	5.3	12.5	0.9
TOTAL												
1990/91	1,903.8	161.8	97.7	76.8	382.4	281.4	459.5	100.6	422.4	22.4	1,753.7	24.9
1991/92	1,657.4	175.4	123.9	168.8	298.3	224.6	536.5	100.8	231.5	33.5	1,073.4	33.7
1992/93 r	2,532.5	130.9	84.1	74.9	287.7	379.5	375.0	215.8	278.0	158.6	1,071.8	31.9
1992 June qr												
Sept. qr	557.9	6.6	19.5	6.4	50.7	147.5	122.1	84.3	63.0	4.0	225.7	14.4
Dec. qr	576.4	32.2	19.8	14.3	100.9	103.8	63.9	37.2	77.4	5.6	279.4	4.5
1993 Mar. qr	711.0	60.9	19.1	27.3	88.5	51.2	80.5	34.6	79.5	107.0	229.2	7.9
June qr r	31.1	25.6	26.8	47.5	77.0	108.5	59.7	58.1	41.9	337.5	5.2	1,506.1
Sep. qr	465.3	51.4	61.8	43.3	139.1	130.6	122.8	36.3	70.4	8.6	356.5	2.8

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
(\$ 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	Original	Seasonally adjusted	Total	
FOR THE PRIVATE SECTOR																
1990-91	1,024.1	11.0	17.7	49.0	100.2	93.8	94.6	68.3	321.2	8.8	1,335.4	26.4	3,150.4	..	..
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 r	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	..	..
1992 June qtr	245.1	1.5	4.5	10.3	10.8	11.7	15.0	29.3	37.9	3.0	367.1	7.6	743.8	779.0	..	
Sept. qtr	240.9	1.3	2.7	6.2	14.4	16.0	21.1	37.4	50.3	3.2	324.0	3.8	721.3	703.7	..	
Dec. qtr	238.2	0.8	1.3	7.8	16.4	21.1	18.0	44.1	70.7	8.5	352.1	3.8	782.7	729.4	..	
1993 Mar. qtr	237.3	—	1.4	8.8	24.2	20.7	16.4	44.3	52.5	22.8	279.7	5.5	713.7	754.3	..	
June qtr r	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	815.2	..	
Sept. qtr	262.8	1.6	11.6	12.7	23.7	22.6	28.5	36.1	53.8	32.5	337.4	4.2	827.4	807.1	..	
FOR THE PUBLIC SECTOR																
1990-91	951.0	138.9	85.4	60.5	204.1	226.2	617.1	42.3	79.7	20.7	116.6	14.1	2,556.7	..	..
1991-92	959.7	163.0	95.4	39.6	286.7	169.0	707.6	8.4	90.6	30.9	132.9	8.5	2,692.4	..	..
1992-93 r	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	..	..
1992 June qtr	261.9	26.4	28.5	15.2	74.0	39.2	167.0	1.2	23.9	6.4	31.2	1.1	676.0	679.3	..	
Sept. qtr	224.3	22.2	31.0	14.8	56.5	53.0	160.7	3.5	17.2	3.1	24.2	0.9	611.4	608.0	..	
Dec. qtr	268.1	16.6	26.4	19.4	58.4	52.8	153.6	4.5	11.1	3.1	16.6	2.3	632.8	617.6	..	
1993 Mar. qtr	334.1	28.3	23.1	31.5	51.0	48.1	146.9	7.3	17.8	7.0	22.2	2.2	719.5	737.6	..	
June qtr r	456.5	36.1	26.6	29.9	67.6	65.3	133.9	8.0	19.8	9.7	25.0	4.9	883.1	880.6	..	
Sept. qtr	369.1	44.5	20.5	26.9	40.8	64.1	222.6	4.6	22.2	9.0	18.3	1.9	844.6	844.7	..	
TOTAL																
1990-91	1,975.1	149.9	163.1	109.5	304.4	320.0	711.6	110.5	401.0	29.5	1,452.0	40.4	5,707.1	..	..
1991-92	1,997.9	175.0	128.8	69.7	346.5	225.6	807.5	107.7	273.9	37.7	1,650.4	39.9	5,860.6	..	..
1992-93 r	2,265.8	106.1	119.7	128.5	315.9	294.0	674.6	211.8	286.5	92.4	1,320.4	27.7	5,843.4	..	..
1992 June qtr	506.9	27.9	33.0	25.5	84.7	50.9	182.0	30.5	61.8	9.5	398.3	8.8	1,419.8	1,458.3	..	
Sept. qtr	465.2	23.5	33.7	21.1	70.9	69.0	181.8	40.9	67.4	6.3	348.2	4.7	1,332.7	1,311.8	..	
Dec. qtr	506.3	17.4	27.7	27.2	74.8	73.9	171.6	48.6	81.7	11.5	368.6	6.1	1,415.5	1,347.0	..	
1993 Mar. qtr	571.4	28.3	24.5	40.3	75.2	68.8	163.3	51.7	70.4	29.8	301.9	7.7	1,433.3	1,491.9	..	
June qtr r	723.0	36.9	31.8	39.9	95.0	82.2	157.9	70.7	67.0	44.8	301.6	9.1	1,662.0	1,695.8	..	
Sept. qtr	631.9	46.1	32.2	39.6	64.5	86.6	251.2	40.7	76.0	41.5	355.7	6.1	1,672.0	1,651.8	..	

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	FOR THE PRIVATE SECTOR						Heavy industry	Other	Total
					Water storage and supply	Sewage and drainage	Pipelines	Recreation	Telecomm- unications				
Electricity generation, transmission and distribution													
1990-91	347.7	7.2	20.5	6.6	6.5	11.5	61.1	12.9	27.6	2.3	926.2	5.9	1,436.0
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	6
1992-93 r	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
1992 June qtr	187.7	1.9	1.8	35.4	1.6	6.5	16.5	49.3	22.4	14.2	456.9	1.2	795.4
Sept. qtr	176.7	0.7	0.3	29.8	5.7	14.4	15.3	100.3	25.6	14.8	386.1	9.9	779.6
Dec. qtr	176.7	—	1.5	28.8	8.4	50.1	29.1	82.5	19.4	7.0	365.9	3.9	773.4
1993 Mar. qtr	175.2	—	4.7	27.6	49.5	41.8	30.1	60.1	16.3	53.1	385.1	3.9	847.4
June qtr r	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
Sept. qtr	221.0	2.7	13.6	21.5	126.4	33.1	72.3	60.1	11.0	27.3	576.4	1.6	1,167.3
FOR THE PUBLIC SECTOR													
1990-91	305.4	77.4	52.4	13.3	193.6	66.9	730.7	1.3	43.3	26.4	109.0	2.7	1,622.4
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 r	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
1992 June qtr	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
Sept. qtr	364.7	76.8	54.0	75.5	161.6	156.7	627.6	0.5	6.8	6.9	63.6	0.6	1,595.0
Dec. qtr	445.5	92.3	44.9	65.8	184.9	159.4	532.5	3.9	9.3	8.7	45.3	1.2	1,593.7
1993 Mar. qtr	587.8	126.7	40.5	55.4	157.7	148.4	533.6	8.1	24.5	37.9	68.1	1.8	1,790.4
June qtr r	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
Sept. qtr	371.0	102.5	53.3	51.7	109.1	206.9	378.6	—	15.8	29.4	26.8	0.3	1,345.6
TOTAL													
1990-91	653.1	84.6	72.9	19.9	200.2	78.4	791.8	14.2	70.9	28.7	1,035.2	8.6	3,058.4
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 r	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
1992 June qtr	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
Sept. qtr	541.4	77.5	54.2	105.3	167.3	171.1	642.9	100.8	32.4	21.6	449.7	10.5	2,374.7
Dec. qtr	622.2	92.3	46.5	94.6	193.3	209.4	561.6	86.5	28.7	15.7	411.2	5.2	2,367.2
1993 Mar. qtr	763.0	126.7	45.2	83.0	207.2	190.2	563.6	68.2	40.8	91.0	453.2	5.7	2,637.8
June qtr r	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
Sept. qtr	592.0	105.2	67.0	73.3	235.5	240.0	480.9	60.2	26.9	56.8	603.2	1.9	2,512.8

TABLE 6. ENGINEERING CONSTRUCTION ACTIVITY BY THE PUBLIC SECTOR, BY TYPE OF CONSTRUCTION
AUSTRALIA

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	Harbours	Water storage and supply	Sewerage and drainage	Pipelines	Recreation	Telecommu- nications	Other minerals	Heavy industry	Oil, gas, coal and other minerals	Heavy industry	Other	Total	Heavy industry	Oil, gas, coal and other minerals	Heavy industry	Other	Total
1990-91																				
1990-91	1,360.7	87.0	286.5	15.5	396.8	357.8	816.0	54.7	93.0	2,240.6	6.4	—	—	16.8	5,731.8	—	—	—	—	
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 r	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	—	—	—	—	
1992 June qtr																				
Sept. qtr	672.8	56.9	350.6	2.7	96.7	109.1	300.7	7.5	26.6	511.4	9.4	—	—	3.2	1,192.4	—	—	—	—	
Dec. qtr	304.4	23.0	34.1	6.7	82.4	89.7	187.9	11.8	26.3	422.7	0.1	—	—	4.0	2,102.0	—	—	—	2.5	
1993 Mar. qtr																				
June qtr r	325.6	20.5	51.2	4.9	79.8	101.1	206.3	6.1	22.0	492.8	0.1	—	—	4.0	3,134.4	—	—	—	—	
Sept. qtr	711.9	60.7	485.8	2.9	81.2	113.8	196.6	3.9	37.1	401.1	6.8	—	—	2.4	2,104.2	—	—	—	—	
1990-91																				
1990-91	1,429.3	90.6	321.3	38.5	459.4	356.6	843.7	62.3	78.8	2,264.5	6.5	—	—	16.2	5,967.8	—	—	—	—	
1991-92	1,292.9	82.1	347.9	17.0	408.7	372.6	789.5	44.3	64.9	1,776.7	23.8	—	—	15.9	5,230.4	—	—	—	—	
1992-93 r	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	—	—	—	—	
1992 June qtr																				
Sept. qtr	298.2	17.2	65.0	4.5	78.7	116.0	106.9	217.6	13.7	20.4	508.4	9.5	—	—	3.6	1,537.8	—	—	—	—
Dec. qtr	348.9	26.5	84.9	5.7	107.7	111.8	215.1	11.8	19.0	449.0	2.0	—	—	3.0	1,196.8	—	—	—	3.0	
1993 Mar. qtr																				
June qtr r	367.3	26.4	80.2	5.7	81.4	87.3	195.1	6.8	19.6	391.5	4.6	—	—	3.5	1,269.5	—	—	—	—	
Sept. qtr	351.0	19.8	81.9	7.3	70.6	65.1	168.4	3.9	31.4	361.4	7.4	—	—	2.8	1,176.9	—	—	—	—	
1990-91																				
1991-92	308.6	19.8	73.9	9.9	400.1	359.8	220.7	1.2	24.7	38.5	0.1	—	—	3.1	1,460.5	—	—	—	—	
1992-93 r	291.1	20.5	80.8	5.0	375.8	357.1	362.1	1.1	17.1	34.7	0.5	—	—	2.4	1,548.2	—	—	—	—	
1992 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	674.0	54.1	344.5	3.6	385.6	375.8	362.1	1.1	17.1	34.7	0.5	—	—	2.4	1,548.2	—	—	—	—	
1993 Mar. qtr																				
June qtr r	645.8	38.9	249.0	3.0	280.6	364.9	473.9	—	42.1	34.7	15.0	—	—	2.8	2,150.7	—	—	—	—	
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	—	—	—	—	
1993 June qtr																				
Sept. qtr	664.9	58.5	516.2	7.1	217.6	307.1	422.8	—	33.6	53.2	15.0	—	—	0.7	2,296.6	—	—	—	—	

TABLE 7. ENGINEERING CONSTRUCTION ACTIVITY FOR 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	Value of work commenced during period			Heavy industry			
								Pipelines	Recreation	Telecommunications	Oil, gas, coal and other minerals	Other heavy industry	Total	
Value of work commenced during period														
1990-91	2,333.7	236.0	350.8	62.1	679.7	548.7	1,160.4	90.4	203.0	2,255.7	165.2	14.8	18.6	8,119.1
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 r	3,223.9	243.9	547.0	66.5	480.5	637.8	1,118.5	57.6	174.9	1,828.4	21.8	13.8	23.6	8,453.3
1992 June qtr	476.8	31.6	51.3	24.6	80.4	121.7	304.6	12.7	25.6	519.3	16.0	7.5	3.9	1,675.9
Sept. qtr	1,002.5	63.4	369.0	8.4	128.9	233.1	404.2	19.9	37.2	475.7	1.3	4.9	5.2	2,744.6
Dec. qtr	647.2	55.1	51.3	14.3	164.2	135.9	220.5	19.8	40.8	427.0	1.3	2.1	5.1	1,784.9
1993 Mar. qtr	882.8	78.3	52.9	23.7	81.6	124.8	232.2	18.4	60.7	428.9	9.6	3.7	7.2	2,004.7
June qtr r	691.5	47.1	68.9	20.0	105.9	164.0	261.5	8.4	36.1	496.8	9.5	3.2	6.1	1,919.0
Sept. qtr	931.1	112.1	528.2	39.7	107.9	226.6	279.8	5.7	51.1	406.4	14.4	4.9	3.3	2,711.3
Value of work done during period														
1990-91	2,380.3	229.5	406.8	99.0	663.6	582.7	1,460.8	104.6	158.5	2,285.3	101.3	21.9	30.3	8,524.5
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 r	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
1992 June qtr	630.2	51.7	172.5	19.3	189.9	146.1	384.6	14.9	44.3	514.8	39.0	1.7	4.8	2,213.8
Sept. qtr	522.5	39.4	96.0	19.3	135.2	117.2	350.9	10.6	34.9	452.1	21.5	4.7	4.0	1,808.2
Dec. qtr	617.0	43.0	111.3	25.1	166.1	164.7	368.8	16.3	30.1	429.3	16.6	3.0	5.2	1,996.6
1993 Mar. qtr	701.4	54.7	103.3	37.2	132.4	135.4	342.0	14.2	37.5	398.5	15.2	11.7	5.7	1,989.0
June qtr r	1,065.4	84.3	206.5	33.2	188.0	162.1	380.8	14.0	45.1	514.4	19.9	12.4	8.5	2,734.5
Sept. qtr	720.1	64.3	102.4	34.2	111.4	129.1	391.1	8.5	53.6	370.4	17.1	8.6	4.7	2,015.5
Value of work yet to be done														
1990-91	614.1	97.2	126.3	23.2	593.8	426.7	951.3	2.5	68.0	64.9	107.3	1.8	5.8	3,082.9
1991-92	543.7	112.3	149.2	87.6	548.5	432.0	1,000.7	1.1	27.4	43.3	65.3	7.0	2.7	3,021.0
1992-93 r	810.7	134.0	157.7	47.5	355.4	472.7	884.1	2.5	53.9	56.0	56.4	7.9	4.5	3,043.4
1992 June qtr	543.7	112.3	149.2	87.6	548.5	432.0	1,000.7	1.1	27.4	43.3	65.3	7.0	2.7	3,021.0
Sept. qtr	1,038.6	130.9	398.4	79.1	547.1	542.2	1,143.6	0.9	31.1	47.8	77.9	6.7	3.4	4,047.8
Dec. qtr	1,034.6	142.4	338.9	70.8	483.8	532.7	1,024.7	4.0	41.3	46.2	58.7	1.6	3.3	3,782.9
1993 Mar. qtr	1,233.6	165.6	289.5	58.4	438.2	513.2	1,007.5	8.1	66.6	72.6	66.2	16.9	4.6	3,941.1
June qtr r	810.7	134.0	157.7	47.5	355.4	472.7	884.1	2.5	53.9	56.0	56.4	7.9	4.5	3,043.4
Sept. qtr	1,035.9	160.9	569.5	58.8	326.7	514.0	801.4	—	49.4	82.6	37.5	4.3	1.0	3,642.2

TABLE 8. ENGINEERING CONSTRUCTION ACTIVITY BY STAGE OF CONSTRUCTION
(\$ million)

Period	NSW	Vic.	Qld	SA	WA	NT	ACT	Australia
VALUE OF WORK COMMENCED DURING PERIOD								
June								
1990-91	3,859.8	2,148.6	2,351.4	853.5	1,644.6	265.0	154.0	142.5
1991-92	3,409.5	1,861.4	2,032.3	673.5	1,280.2	259.2	162.2	189.7
1992-93 r	4,115.2	2,234.2	2,372.3	733.8	1,441.6	239.8	132.9	172.9
1992 June qtr	664.8	422.1	429.8	147.5	283.0	110.6	23.8	51.5
Sept. qtr	1,586.2	538.8	689.8	160.5	305.8	49.2	23.4	50.7
Dec. qtr	774.4	509.9	511.8	178.8	355.8	58.4	38.9	3404.2
1993 Mar. qtr	878.0	542.6	612.0	207.2	299.4	79.7	37.5	39.1
June qtr r	876.5	643.0	558.7	187.4	440.6	52.5	33.0	2,507.1
Sept. qtr	1,566.5	473.2	907.5	135.0	353.1	56.4	62.3	39.0
VALUE OF WORK DONE DURING PERIOD								
June								
1990-91	4,126.4	2,314.0	2,372.4	854.6	1,421.5	289.8	158.5	137.7
1991-92	4,015.3	1,915.7	2,283.5	763.7	1,506.1	302.6	136.9	167.2
1992-93 r	4,015.9	2,098.2	2,497.2	734.9	1,541.5	311.1	138.0	188.1
1992 June qtr	1,122.1	546.6	535.6	179.0	403.8	72.5	29.3	48.6
Sept. qtr	887.1	418.6	619.8	131.4	356.4	60.2	30.2	45.8
Dec. qtr	973.0	500.3	629.8	142.8	370.3	83.7	30.3	49.0
1993 Mar. qtr	896.5	534.8	541.8	197.2	374.8	82.8	27.6	47.2
June qtr r	1,259.4	644.5	705.8	263.4	459.9	84.4	49.8	46.1
Sept. qtr	891.1	479.7	728.9	170.4	420.8	57.3	51.2	3,513.3
VALUE OF WORK YET TO BE DONE								
June								
1990-91	1,443.4	676.8	1,231.5	216.4	652.1	225.7	29.8	43.3
1991-92	1,256.6	641.6	1,040.6	128.7	449.3	188.5	52.8	58.3
1992-93 r	1,283.5	916.6	964.2	198.2	481.9	120.0	47.7	37.0
1992 June qtr	1,256.6	641.6	1,040.6	128.7	449.3	188.5	52.8	58.3
Sept. qtr	1,967.4	863.4	1,131.8	166.9	422.2	178.0	34.9	62.8
Dec. qtr	1,736.2	863.8	990.1	205.4	502.8	159.6	44.8	53.6
1993 Mar. qtr	1,819.4	908.8	1,087.9	223.4	482.6	155.5	50.9	59.9
June qtr r	1,283.5	916.6	964.2	198.2	481.9	120.0	47.7	37.0
Sept. qtr	1,827.0	885.8	1,176.2	165.2	549.7	111.8	57.8	36.0
Australia								
(\$ million)								
1990-91	11,419.4							
1991-92	9,867.9							
1992-93 r	11,442.7							
1992 June qtr	2,133.1							
Sept. qtr	3,404.2							
Dec. qtr	2,507.1							
1993 Mar. qtr	2,710.9							
June qtr r	2,820.5							
Sept. qtr	3,592.9							

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		Heavy industry						Total		
						Water storage and supply	Sewerage, drainage and distribution	Pipelines	Recreation	Telecommuni- cations	Oil, gas, coal and other minerals	Other heavy industry		
<i>June qtr 1993 — r</i>														
NSW	302.0	14.3	9.8	11.5	16.5	26.4	33.9	4.8	19.6	6.9	24.7	22.3	0.1	492.7
Vic.	128.6	6.8	1.6	0.2	11.4	56.6	11.3	21.4	47.8	11.0	3.5	313.2		
Qld	104.5	8.8	5.1	9.5	7.7	27.2	11.0	5.5	15.8	1.5	43.7	17.4	0.8	258.7
SA	30.8	0.1	1.3	0.5	3.2	5.5	3.3	6.4	2.4	10.0	8.8	6.4	0.8	79.4
WA	86.2	—	7.8	—	7.3	5.3	0.6	41.5	5.8	1.1	90.9	55.3		301.8
Tas.	8.0	1.2	—	5.1	0.1	0.1	—	—	0.5	—	1.8	0.6	—	17.6
NT	12.8	—	—	—	0.6	0.6	3.1	—	0.7	1.0	6.7	—	0.1	25.5
ACT	14.3	—	—	—	0.7	0.2	—	—	2.0	—	—	—	—	17.2
Australia	687.2	31.1	25.6	26.8	47.5	77.0	108.5	59.7	58.1	41.9	224.4	113.1	5.2	1,506.1
<i>September qtr 1993 — r</i>														
NSW	134.0	20.5	9.3	4.2	117.9	105.4	26.4	26.0	17.4	6.4	46.6	25.9	0.7	540.6
Vic.	58.7	0.3	9.2	0.2	7.4	6.9	35.6	0.9	17.5	0.2	49.0	16.5	0.6	203.2
Qld	123.4	25.6	24.9	38.4	6.4	13.6	23.7	6.6	27.0	0.7	61.6	27.2	0.6	379.7
SA	26.7	—	0.3	0.1	1.2	0.3	1.2	2.1	2.9	0.5	8.6	3.7	0.9	48.5
WA	66.0	2.1	18.1	—	3.0	0.7	32.0	0.2	2.0	—	93.0	8.8	0.1	226.1
Tas.	9.0	—	0.3	0.3	2.8	3.0	—	—	1.0	—	1.4	0.6	—	18.1
NT	33.6	2.9	—	—	0.3	0.1	2.6	—	0.8	—	13.5	—	—	53.7
ACT	14.0	—	—	—	—	0.4	1.2	0.5	2.0	0.8	—	—	—	18.9
Australia	465.3	51.4	61.8	43.3	139.1	130.6	122.8	36.3	70.4	8.6	273.8	82.8	2.8	1,488.8
<i>BY THE PRIVATE SECTOR</i>														
NSW	94.5	3.4	—	—	13.5	17.3	61.4	0.3	8.2	182.2	—	—	3.2	383.8
Vic.	74.1	10.8	8.7	0.2	14.0	40.5	64.7	3.8	4.1	108.1	0.1	—	0.6	329.7
Qld	90.2	1.4	42.1	1.4	14.3	6.9	45.5	—	5.3	92.8	—	—	0.2	300.0
SA	12.5	0.1	2.9	11.0	20.3	22.5	—	—	2.3	36.4	—	—	—	108.0
WA	33.6	1.5	0.5	—	26.8	15.7	10.3	2.0	1.3	47.2	—	—	—	138.8
Tas.	20.5	3.4	—	0.3	0.3	0.3	0.1	—	0.7	9.4	—	—	—	34.9
NT	—	—	—	—	—	—	—	—	—	7.5	—	—	—	7.5
ACT	0.2	—	—	—	—	0.2	1.9	—	—	9.3	—	—	—	11.6
Australia	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
<i>BY THE PUBLIC SECTOR</i>														
NSW	—	—	—	—	—	—	—	—	—	—	—	—	—	
Vic.	—	—	—	—	—	—	—	—	—	—	—	—	—	
Qld	—	—	—	—	—	—	—	—	—	—	—	—	—	
SA	—	—	—	—	—	—	—	—	—	—	—	—	—	
WA	—	—	—	—	—	—	—	—	—	—	—	—	—	
Tas.	—	—	—	—	—	—	—	—	—	—	—	—	—	
NT	—	—	—	—	—	—	—	—	—	—	—	—	—	
ACT	—	—	—	—	—	—	—	—	—	—	—	—	—	
Australia	—	—	—	—	—	—	—	—	—	—	—	—	—	

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, transmission and drainage distribution	Pipelines	Recreation	Telecommu-nications	Heavy industry			
											Oil, gas, coal and other minerals	Other heavy industry	Other	Total
BY THE PUBLIC SECTOR — <i>continued</i>														
September qtr 1993 —														
NSW	439.9	42.9	295.3	—	12.3	54.0	0.2	6.9	159.9	—	—	—	1,025.9	
Vic.	31.8	3.3	37.8	0.5	26.1	46.3	1.8	3.8	73.0	0.4	—	0.1	270.1	
Qld	159.6	10.3	137.1	2.0	23.0	22.8	61.7	—	16.2	88.1	6.4	—	527.8	
SA	18.5	0.1	—	—	9.0	16.9	15.6	—	2.1	24.2	—	—	86.5	
WA	37.9	1.8	15.7	0.2	6.3	8.2	9.1	1.8	7.2	38.7	—	0.1	127.0	
Tas.	23.7	2.3	—	0.2	1.1	3.8	—	—	0.8	6.4	—	—	38.3	
NT	0.4	—	—	—	2.4	0.1	0.6	—	0.1	5.0	—	—	8.5	
ACT	0.2	—	—	—	1.0	3.9	9.3	—	—	5.8	—	—	20.1	
Australia	711.9	60.7	485.8	2.9	81.2	113.8	196.6	3.9	37.1	401.1	6.8	—	2,104.2	
TOTAL														
June qtr 1993 — <i>r</i>														
NSW	396.5	17.6	9.8	11.5	30.0	43.7	95.2	5.2	27.8	189.1	24.7	22.3	3.3	876.5
Vic.	202.7	17.6	10.3	0.5	25.4	52.2	121.3	5.2	129.5	48.0	11.0	4.0	641.0	
Qld	194.7	10.2	47.1	10.9	21.9	34.1	56.5	5.5	21.1	94.4	43.7	17.4	1.1	558.7
SA	43.3	0.2	1.3	3.4	14.2	25.8	25.7	6.4	4.7	46.5	8.8	6.4	0.8	187.4
WA	119.8	1.5	8.3	—	34.1	21.0	10.9	43.5	7.1	48.3	90.9	55.3	—	440.6
Tas.	28.5	4.6	—	5.4	0.4	0.3	0.2	—	1.2	9.4	1.8	0.6	—	52.5
NT	12.8	—	—	—	0.6	0.6	3.1	—	0.7	8.5	6.7	—	0.1	33.0
ACT	14.5	—	—	—	0.7	0.4	1.9	—	2.0	9.3	—	—	—	28.8
Australia	1,012.7	51.6	76.8	31.7	127.3	178.1	314.8	65.8	80.1	534.8	224.5	113.1	9.2	2,820.5
September qtr 1993 —														
NSW	573.9	63.5	304.5	4.2	130.1	118.3	80.4	26.2	24.3	166.3	46.6	25.9	2.4	1,566.5
Vic.	90.5	3.5	47.0	0.7	33.6	52.1	81.9	2.7	21.4	73.2	49.5	16.5	0.7	473.2
Qld	283.0	35.9	162.0	40.5	29.4	36.4	85.5	6.6	43.2	88.8	68.0	27.2	1.1	907.5
SA	45.2	0.1	0.3	0.1	10.2	17.3	16.7	2.1	5.0	24.8	8.6	3.7	0.9	135.0
WA	103.8	3.9	33.8	0.2	9.4	8.9	41.2	2.0	9.1	38.7	93.0	8.8	0.1	353.1
Tas.	32.6	2.3	—	0.5	3.9	6.9	—	—	1.7	6.4	1.4	0.6	—	56.4
NT	34.0	2.9	—	—	2.7	0.2	3.2	—	0.8	5.0	13.5	—	—	62.3
ACT	14.1	—	—	—	1.0	4.3	10.5	0.5	2.0	6.6	—	—	—	39.0
Australia	1,177.1	112.1	547.6	46.2	228.2	244.4	319.4	40.1	107.5	499.7	280.6	82.8	5.2	3,592.9

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	Water storage and drainage	Sewerage and distribution	Pipelines	Recreation	BY THE PRIVATE SECTOR			Heavy industry
									Electricity generation, and distribution	Telecomm. unications	Other	
									Oil, gas, coal and other minerals	Other heavy industry	Total	
<i>June qtr 1993 — r</i>												
NSW	236.0	13.9	6.2	5.0	45.4	38.8	45.8	17.4	25.4	17.8	28.8	25.1
Vic.	152.7	11.4	1.7	1.7	14.7	17.8	40.7	2.1	10.9	8.3	31.6	7.4
Qld	157.5	8.7	15.2	7.3	10.0	14.4	57.1	9.5	15.5	4.7	50.7	20.9
SA	40.9	0.8	2.0	0.4	7.0	6.4	4.5	5.1	3.9	6.4	7.8	10.0
WA	84.7	—	8.7	18.4	14.0	1.9	8.9	36.6	7.8	1.4	88.1	19.3
Tas.	16.1	1.6	—	1.9	0.8	1.2	0.1	—	0.6	—	2.4	0.5
NT	15.9	0.4	—	5.2	0.3	1.4	0.6	—	0.4	0.1	8.7	0.4
ACT	19.1	0.1	—	—	2.8	0.3	0.3	—	2.4	6.1	—	—
Australia	723.0	36.9	33.8	39.9	95.0	82.2	157.9	70.7	67.0	44.8	218.1	83.6
<i>September qtr 1993 —</i>												
NSW	206.0	22.1	5.1	4.9	28.4	49.8	46.5	18.9	24.6	22.3	25.0	22.9
Vic.	101.4	6.4	2.3	1.0	9.6	13.9	83.8	0.3	13.5	7.7	27.9	10.7
Qld	151.0	11.1	13.0	13.7	9.8	11.1	104.6	8.5	27.1	0.8	55.4	20.1
SA	29.7	1.1	1.0	0.1	3.9	4.9	4.0	4.0	2.8	7.6	12.7	8.2
WA	94.1	1.5	10.9	11.2	8.2	3.9	9.5	8.5	3.9	0.6	128.1	34.0
Tas.	7.1	1.7	—	2.0	1.0	1.7	—	—	0.8	—	1.5	0.6
NT	22.5	2.2	—	—	6.7	0.3	0.7	2.7	—	1.1	0.6	8.6
ACT	29.2	—	—	—	—	3.3	0.5	0.1	0.5	2.1	1.8	—
Australia	631.9	46.1	32.2	39.6	64.5	86.6	251.2	40.7	76.0	41.5	259.2	96.5
<i>BY THE PUBLIC SECTOR</i>												
NSW	248.9	23.5	136.4	—	32.8	31.5	76.0	0.3	7.0	194.0	—	—
Vic.	83.4	12.0	13.7	0.7	14.8	16.8	73.2	3.8	5.4	108.1	7.3	—
Qld	126.5	6.7	19.2	1.4	21.0	11.5	47.8	—	6.2	92.9	—	—
SA	74.1	0.6	1.0	0.5	10.0	19.2	22.5	—	2.9	36.5	—	—
WA	53.3	2.0	9.5	0.2	27.0	15.5	10.6	2.0	2.7	47.2	—	—
NT	22.1	3.4	—	0.4	12.4	1.0	8.9	—	1.1	9.5	—	—
ACT	0.2	—	—	—	—	2.2	0.8	—	0.1	7.5	—	—
Australia	608.9	48.2	179.9	3.3	120.4	96.8	246.9	6.0	25.3	304.7	7.3	—
											3.6	1,651.3

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	BY THE PUBLIC SECTOR — <i>continued</i>						Heavy industry	
					Water storage and supply	Sewerage and drainage	Pipelines	Recreation	Telecommu- nications	Oil, gas, coal and other minerals	Other heavy industry	
<i>September qtr 1993 —</i>												
NSW	146.4	9.3	46.1	—	16.2	20.4	42.8	0.3	102	119.9	—	2.3
Vic.	35.7	3.0	14.4	0.3	10.0	9.7	43.7	1.8	5.8	73.0	1.1	0.1
Qld	107.1	4.6	13.6	2.0	16.0	12.6	43.2	—	7.4	88.1	6.4	0.1
SA	26.2	0.1	1.0	0.5	7.8	11.3	15.6	—	2.3	24.3	—	89.1
WA	23.4	0.5	6.8	4.0	6.6	9.2	10.1	1.8	5.3	38.8	—	—
Tas.	12.0	2.3	—	0.4	12.6	0.9	5.5	—	0.4	6.4	—	0.3
NT	0.1	—	—	—	0.3	—	0.4	—	—	5.0	—	5.8
ACT	0.1	—	—	—	1.0	0.9	7.3	—	—	5.8	—	15.1
Australia	351.0	19.8	81.9	7.3	70.6	65.7	168.4	3.9	31.4	361.4	7.4	—
<i>June qtr 1993 — F</i>												
NSW	484.9	37.5	142.6	5.0	78.2	70.3	121.9	17.6	32.4	211.8	28.8	25.1
Vic.	236.1	23.4	15.4	2.4	29.5	34.6	113.9	5.9	16.3	116.4	38.9	7.4
Qld	284.0	15.4	34.4	8.7	31.0	25.9	104.9	9.5	21.7	97.6	50.7	20.9
SA	115.1	1.3	3.0	1.0	17.0	25.5	27.0	5.1	6.8	43.0	7.8	10.0
WA	138.0	2.0	18.2	18.6	40.9	17.4	19.5	38.6	10.5	48.6	88.1	19.3
Tas.	38.1	5.0	—	2.4	13.3	2.2	9.0	—	1.7	9.5	2.4	0.5
NT	16.1	0.4	—	5.2	2.5	2.3	3.5	—	0.5	7.5	8.7	0.4
ACT	19.4	0.1	—	—	3.1	0.8	5.2	—	2.4	15.1	—	—
Australia	1,331.8	85.2	213.6	43.2	215.4	179.0	404.8	76.7	92.3	549.5	225.3	83.6
<i>September qtr 1993 —</i>												
NSW	352.4	31.4	51.2	4.9	44.6	70.2	89.3	19.2	34.8	142.2	25.0	22.9
Vic.	137.2	9.4	16.7	1.3	19.6	23.6	127.5	2.1	19.3	80.7	29.0	10.7
Qld	258.1	15.7	26.6	15.7	25.8	23.7	147.8	8.6	34.5	88.9	61.7	20.1
SA	55.9	1.2	2.0	0.7	11.7	16.2	19.5	4.0	5.1	31.9	12.7	8.2
WA	117.5	2.0	17.7	15.2	14.8	13.1	19.6	10.3	9.2	39.4	128.1	34.0
Tas.	19.0	4.0	—	2.3	13.7	2.6	5.5	—	1.2	6.4	1.5	0.6
NT	22.6	2.2	—	6.7	0.6	0.7	3.1	—	1.1	5.6	8.6	—
ACT	20.3	—	—	—	4.3	1.4	7.4	0.5	2.1	7.7	—	—
Australia	982.9	65.8	114.0	46.9	135.1	151.7	419.6	44.6	107.4	402.9	266.6	96.5
												8.9
												2,843.0

TABLE II. 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 drainage	Sewerage transmission and distribution	Pipelines	Recreation	BY THE PRIVATE SECTOR			Heavy industry			
									Electricity generation	Telecomm. unications	minerals	Oil, gas, coal and other heavy industry	Other heavy industry	Total	
<i>June qtr 1993 - r</i>															
NSW	322.8	64.8	8.9	10.1	99.9	64.5	129.7	9.0	15.4	49.5	49.4	18.5	0.2	842.6	
Vic.	165.7	26.7	0.1	1.1	23.2	103.4	223.8	0.1	4.0	25.8	89.9	11.3	2.8	678.0	
Qld	112.2	16.5	24.4	10.0	6.7	19.8	157.6	8.8	1.7	0.2	56.7	26.4	—	441.1	
SA	16.7	2.6	0.4	—	7.9	5.4	3.7	3.1	1.3	10.8	20.3	6.0	0.9	79.0	
WA	76.7	—	5.3	28.0	20.4	5.9	7.9	41.3	5.9	0.7	183.1	40.9	—	416.3	
Tas.	7.1	4.1	—	4.7	0.1	0.9	—	—	0.2	—	—	1.6	0.3	—	18.9
NT	14.3	0.6	—	16.9	0.3	0.8	2.7	—	0.4	1.0	10.5	—	—	—	47.6
ACT	23.5	—	—	—	4.5	0.2	—	—	0.3	1.6	—	—	—	—	30.0
Australia	738.9	115.3	39.1	70.7	163.1	202.9	525.5	62.3	29.1	89.6	411.5	103.3	4.0	2,535.5	
<i>September qtr 1993 —</i>															
NSW	258.1	62.1	12.5	9.8	185.8	118.1	87.0	15.8	12.7	33.3	70.3	19.5	0.3	885.1	
Vic.	130.4	4.7	7.1	0.3	20.8	93.5	198.0	0.7	7.3	19.4	81.0	16.8	1.5	581.6	
Qld	82.5	32.6	34.3	35.4	4.6	21.1	130.4	7.0	1.3	0.4	59.4	31.8	—	440.7	
SA	13.3	1.5	0.1	—	5.5	2.4	1.5	3.2	1.4	2.6	16.1	1.7	0.1	49.4	
WA	53.9	0.6	13.0	15.3	15.2	2.5	20.6	33.5	3.7	0.1	254.4	34.6	—	457.6	
Tas.	8.7	2.3	—	3.0	1.9	2.2	—	—	0.2	—	1.6	0.1	—	20.0	
NT	25.2	1.4	—	9.5	—	0.2	2.4	—	—	0.4	15.7	—	—	54.8	
ACT	20.0	—	—	—	1.6	0.1	1.1	—	0.2	0.7	—	—	—	—	23.6
Australia	592.0	105.2	67.0	73.3	235.5	240.0	450.9	60.2	26.9	56.8	498.6	104.6	1.9	2,512.8	
<i>BY THE PUBLIC SECTOR</i>															
NSW	93.3	10.5	21.2	—	96.9	139.8	56.4	0.1	12.2	10.1	—	—	0.3	440.8	
Vic.	21.9	3.5	14.1	0.7	23.8	99.5	62.7	—	3.6	0.2	7.9	—	0.7	238.6	
Qld	154.2	7.9	53.3	—	44.1	10.9	239.8	—	9.7	1.3	—	—	1.8	523.1	
SA	9.6	0.1	3.5	3.2	42.6	57.0	—	—	3.2	0.1	—	—	—	119.2	
WA	22.9	0.5	31.5	0.1	0.1	2.7	—	—	6.8	0.2	—	—	—	65.6	
Tas.	6.3	—	—	0.5	28.0	0.3	54.3	—	1.0	10.2	—	—	0.4	101.0	
NT	0.1	—	—	—	0.7	0.5	5.7	—	—	—	—	—	0.1	—	
ACT	0.1	—	—	—	—	—	—	—	—	—	—	—	—	6.9	
Australia	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	

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

Period, State or Territory	Roads, highways and subdivisions	Bridges	Railways	Harbours	BY THE PUBLIC SECTOR—continued						Heavy industry	
					Water storage and supply	Sewerage and drainage	Pipelines	Recreation	Telecommu- nications	Other heavy industry		
<i>September qtr 1993—</i>												
NSW	391.8	38.5	249.2	—	73.1	90.0	50.4	—	8.2	40.8	—	0.1
Vic.	12.9	3.4	37.5	0.9	39.4	130.3	62.9	—	1.7	0.1	15.0	—
Qld	200.3	14.8	186.5	—	46.7	19.5	252.7	—	13.2	1.5	—	0.4
SA	9.7	—	2.5	2.7	40.0	59.8	—	—	1.0	—	—	—
WA	36.9	1.8	40.5	3.1	0.1	1.0	—	—	8.5	0.1	—	115.8
Tas.	12.9	—	—	0.4	15.4	3.0	48.8	—	1.0	10.2	—	0.1
NT	0.3	—	—	—	2.3	0.1	0.3	—	0.1	—	—	0.1
ACT	0.1	—	—	—	0.6	3.5	7.7	—	—	0.5	—	3.0
Australia	664.9	58.5	516.2	7.1	217.6	307.1	422.8	—	33.6	53.2	15.0	—
<i>TOTAL</i>												
<i>June qtr 1993—r</i>												
NSW	416.1	75.4	26.1	10.1	196.8	204.3	186.1	9.1	27.5	59.6	49.4	18.5
Vic.	187.7	30.2	14.3	1.8	47.0	203.0	286.5	0.1	7.6	26.0	97.8	11.3
Qld	266.4	24.4	77.7	10.0	50.8	30.8	397.5	8.8	11.3	1.6	56.7	26.4
SA	26.2	2.6	3.9	3.2	50.5	62.3	3.7	3.1	4.4	10.9	20.3	1.8
WA	99.6	0.5	36.8	28.2	20.5	8.6	8.9	41.3	12.7	0.9	183.1	6.0
Tas.	13.4	4.1	—	5.2	28.1	1.1	54.3	—	1.2	10.2	40.9	—
NT	14.4	0.6	—	16.9	0.3	0.8	2.7	—	0.4	1.6	0.3	0.4
ACT	23.6	—	—	—	5.2	0.7	5.7	—	0.3	1.6	—	47.7
Australia	1,047.3	137.8	162.8	75.3	399.2	511.6	945.4	62.5	65.6	111.7	419.4	103.3
<i>September qtr 1993—</i>												
NSW	649.8	100.6	261.6	9.8	258.9	208.0	137.3	15.8	20.8	74.0	70.3	19.5
Vic.	143.3	8.1	44.6	1.2	60.2	223.9	260.8	0.7	9.0	19.5	96.0	16.8
Qld	282.8	47.4	220.8	35.4	51.3	40.6	383.1	7.0	14.5	1.8	59.4	31.8
SA	23.0	1.5	2.7	2.7	45.5	62.2	1.5	3.2	2.4	2.6	16.1	1.7
WA	90.9	2.4	53.4	18.4	15.3	3.6	30.6	33.5	12.2	0.3	254.4	34.6
Tas.	21.5	2.3	—	3.4	17.3	5.2	48.8	—	1.2	10.2	1.6	0.1
NT	25.5	1.4	—	9.5	2.3	0.3	2.7	—	0.1	0.4	15.7	—
ACT	20.1	—	—	—	2.2	3.5	8.8	—	0.2	1.2	—	—
Australia	1,256.9	163.7	583.2	80.4	455.0	547.2	873.7	60.5	60.5	110.0	513.6	104.6
<i>TOTAL</i>												

**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 1993 r									
<i>For the private sector —</i>									
Value of work commenced	238.2	183.1	155.0	48.1	249.9	6.1	12.5	8.5	901.5
Value of work done	176.5	129.6	176.9	50.9	204.1	6.7	17.0	17.1	778.8
Value of work yet to be done	265.7	203.6	129.1	49.8	304.7	3.3	33.1	16.2	1,005.5
<i>For the public sector —</i>									
Value of work commenced	254.5	130.1	103.6	31.3	51.9	11.5	13.0	8.7	604.6
Value of work done	329.6	175.5	195.4	45.2	85.7	18.6	19.1	14.1	883.1
Value of work yet to be done	576.9	474.4	312.0	29.1	111.5	15.7	14.5	13.8	1,548.0
Total									
Value of work commenced	492.7	313.2	258.7	79.4	301.8	17.6	25.5	17.2	1,506.1
Value of work done	506.1	305.1	372.3	96.2	289.7	25.4	36.1	31.2	1,662.0
Value of work yet to be done	842.6	678.0	441.1	79.0	416.3	18.9	47.6	30.0	2,553.5
SEPTEMBER QUARTER 1993									
<i>For the private sector —</i>									
Value of work commenced	272.0	112.3	225.5	31.7	196.6	6.0	23.9	13.6	881.6
Value of work done	174.3	116.6	197.6	51.5	241.9	5.2	24.9	15.4	827.4
Value of work yet to be done	359.1	191.6	150.7	31.9	383.8	3.5	31.0	15.6	1,167.3
<i>For the public sector —</i>									
Value of work commenced	268.6	90.8	154.2	16.8	29.5	12.0	29.9	5.3	607.1
Value of work done	302.9	164.5	230.2	29.7	72.5	11.2	20.5	13.1	844.6
Value of work yet to be done	526.0	390.0	290.0	17.5	73.8	16.5	23.8	8.0	1,345.6
Total									
Value of work commenced	540.6	203.2	379.7	48.5	226.1	18.1	53.7	18.9	1,488.8
Value of work done	477.2	281.1	427.8	81.2	314.4	16.4	45.4	28.6	1,672.0
Value of work yet to be done	885.1	581.6	440.7	49.4	457.6	20.0	54.8	23.6	2,512.8

**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 1993	Sept. qtr 1993	June qtr 1993	Sept. qtr 1993	June qtr 1993	Sept. qtr 1993
COMMONWEALTH GOVERNMENT						
NSW	182.2	118.3	182.8	118.5	13.0	2.5
Vic.	108.1	73.0	108.2	73.1	0.2	0.1
Qld	92.7	87.7	92.8	88.0	1.0	1.1
SA	36.4	24.2	36.5	24.3	0.1	—
WA	47.2	38.7	47.6	39.7	1.1	0.1
Tas.	9.4	6.4	9.4	6.4	—	—
NT	7.5	5.0	7.5	5.0	—	—
ACT	9.3	5.8	9.0	5.8	—	0.5
Australia	492.8	359.1	493.8	360.8	15.4	4.4
STATE AND TERRITORY GOVERNMENT						
NSW	43.5	782.2	406.2	161.4	252.7	776.1
Vic.	182.2	155.5	179.5	82.6	204.0	278.0
Qld	133.5	264.5	135.0	110.6	421.8	583.2
SA	57.3	39.3	107.3	47.7	104.5	102.2
WA	58.3	54.3	80.9	43.7	33.0	50.9
Tas.	18.9	13.9	41.3	29.1	92.2	77.1
NT	—	3.1	6.0	0.7	—	2.6
ACT(a)	2.3	14.2	5.9	9.3	6.9	11.9
Australia	496.0	1,327.1	962.1	485.1	1,115.1	1,882.0
LOCAL GOVERNMENT						
NSW	158.1	125.4	164.3	134.0	175.1	163.2
Vic.	39.4	41.5	51.7	42.8	34.4	26.2
Qld	73.8	175.5	105.6	102.5	100.3	151.2
SA	14.3	23.0	23.4	17.2	14.7	13.6
WA	33.3	33.9	41.8	23.0	31.5	41.0
Tas.	6.6	18.0	8.3	5.4	8.8	14.7
NT	0.1	0.5	0.3	0.1	0.1	0.4
ACT	—	—	—	—	—	—
Australia	325.6	418.0	395.4	325.1	364.9	410.3
TOTAL GOVERNMENT						
NSW	383.8	1,025.9	753.3	413.9	440.8	941.9
Vic.	329.7	270.1	339.5	198.6	238.6	304.3
Qld	300.0	527.8	333.4	301.1	523.1	735.5
SA	108.0	86.5	167.3	89.1	119.2	115.8
WA	138.8	127.0	170.2	106.4	65.6	92.0
Tas.	34.9	38.3	59.0	40.9	101.0	91.7
NT	7.5	8.5	13.7	5.8	0.1	3.0
ACT	11.6	20.1	14.9	15.1	6.9	12.4
Australia	1,314.4	2,104.2	1,851.3	1,170.9	1,495.4	2,296.6

(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	Water storage and supply	Sewerage and drainage	Transmission and distribution	Pipelines	Recreation	Telecommunications	Heavy industry		
											Electricity generation, transmission and distribution	Oil, gas, coal and other minerals	Other heavy industry
BY THE PRIVATE SECTOR													
NSW	5.0	24.7	14.2	39.5	4.5	6.5	0.7	9.7	14.2	35.8	—	2.9	35.1
Vic.	5.8	0.4	—	26.3	24.3	18.8	12.3	21.4	16.5	42.1	3.3	0.1	—
Qld	2.2	14.7	0.1	7.6	7.2	20.5	4.3	66.5	16.8	—	—	—	30.2
SA	5.1	—	—	—	—	7.0	—	14.4	17.1	—	1.1	—	—
WA	7.0	—	—	—	6.9	16.0	—	—	15.6	—	7.2	6.2	48.2
Tas.	8.6	—	—	—	16.5	65.6	—	—	53.5	—	47.0	—	—
NT	2.9	—	—	—	21.8	14.1	—	—	15.7	—	—	—	9.2
ACT	0.7	—	—	—	—	55.5	—	—	38.2	—	—	—	2.7
Australia	2.1	13.4	18.5	11.3	3.8	7.2	1.7	11.3	8.3	35.0	3.3	1.9	10.5
BY THE PUBLIC SECTOR													
NSW	5.1	17.0	—	—	4.9	2.3	2.3	19.7	2.1	—	—	—	—
Vic.	8.4	8.3	—	—	6.2	4.3	1.3	—	17.1	—	—	—	39.0
Qld	4.0	3.4	—	—	2.5	10.7	—	—	6.3	—	—	—	13.6
SA	8.2	56.5	—	—	0.3	9.8	0.6	—	13.4	—	—	—	3.6
WA	6.5	3.6	—	—	0.8	5.3	—	—	11.3	—	—	—	3.8
Tas.	2.4	—	—	—	49.0	17.4	—	—	54.6	—	—	—	4.1
NT	—	—	—	—	—	—	—	—	—	—	—	—	—
ACT	—	—	—	—	—	—	—	—	—	—	—	—	—
Australia	2.4	4.5	—	—	—	1.9	2.7	0.9	2.6	4.3	—	—	7.1
TOTAL													
NSW	3.8	20.2	14.2	39.4	3.3	3.7	1.3	9.4	11.8	35.8	—	2.9	6.7
Vic.	4.8	4.3	—	24.2	10.1	7.0	2.2	5.4	13.5	—	3.2	0.1	5.9
Qld	2.0	12.0	—	4.6	3.5	12.7	0.7	58.1	14.2	—	—	—	17.1
SA	4.6	44.0	—	—	2.8	9.4	0.6	12.9	11.6	—	1.1	—	2.7
WA	5.0	24.8	74.9	—	3.0	6.2	—	—	11.4	—	7.2	6.2	47.1
Tas.	3.3	—	—	—	22.4	22.9	—	—	39.5	—	47.0	—	—
NT	2.9	—	—	—	9.2	7.6	—	—	14.5	—	—	—	2.5
ACT	0.6	—	—	—	—	18.4	—	—	37.0	—	—	—	6.0
Australia	1.6	8.4	7.7	8.4	2.0	3.5	0.8	7.8	6.7	0.4	3.3	1.9	7.6

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		
											Civil, gas, coal and other minerals	Other heavy industry	Total
BY THE PRIVATE SECTOR													
NSW	3.9	9.2	6.0	8.6	5.7	4.8	0.3	8.1	12.5	7.2	—	2.2	10.9
Vic.	5.3	6.3	—	22.0	16.7	10.4	8.1	2.7	14.6	5.3	1.7	2.1	1.8
Qld	2.4	5.0	0.1	1.2	7.0	12.2	2.3	67.1	16.6	—	—	—	2.0
SA	4.5	—	—	—	—	9.3	—	9.7	15.3	—	1.2	—	3.3
WA	4.4	—	—	—	—	4.6	4.3	—	16.0	—	1.8	—	—
Tas.	13.4	—	—	—	—	22.2	23.3	—	40.7	—	45.8	—	—
NT	3.5	—	—	—	—	4.1	17.0	—	17.1	—	—	—	12.1
ACT	8.3	—	—	—	—	26.9	—	—	41.0	—	—	—	2.1
Australia	1.9	4.2	3.7	2.1	3.7	4.5	0.9	5.8	7.7	9.5	1.0	1.6	9.1
BY THE PUBLIC SECTOR													
NSW	2.1	2.8	—	—	2.6	1.7	2.6	13.9	3.6	—	—	—	0.9
Vic.	6.4	8.1	—	—	9.3	5.4	0.6	—	17.3	—	—	—	43.8
Qld	3.0	3.7	—	—	0.8	5.9	—	—	6.3	—	—	—	1.5
SA	5.3	45.6	—	—	0.3	5.9	0.5	—	11.3	—	—	—	3.9
WA	4.7	1.6	—	—	0.8	5.1	—	—	7.8	—	—	—	—
Tas.	2.6	—	—	—	—	5.7	6.3	—	34.7	—	—	—	3.1
NT	—	—	—	—	—	—	—	—	—	—	—	—	1.7
ACT	—	—	—	—	—	—	—	—	—	—	—	—	—
Australia	1.5	2.0	—	—	1.6	2.0	0.8	1.8	3.8	—	—	—	3.4
TOTAL													
NSW	2.5	4.9	0.8	8.5	3.1	2.5	0.9	7.9	10.4	5.5	—	2.2	4.0
Vic.	4.1	5.0	—	16.4	8.7	5.5	2.0	2.0	11.8	—	1.6	2.1	5.0
Qld	1.8	4.2	—	1.1	3.1	7.0	0.7	58.5	14.2	—	—	—	18.7
SA	3.5	21.5	—	—	3.6	5.5	0.5	9.6	10.5	—	1.2	—	2.6
WA	3.2	16.1	9.3	—	2.5	3.6	—	—	12.5	—	1.8	10.6	38.8
Tas.	4.6	—	—	—	5.5	12.3	—	—	26.4	—	45.8	—	—
NT	3.5	—	—	—	2.8	11.8	—	—	15.9	—	—	—	3.3
ACT	8.0	—	—	—	—	13.0	—	—	40.1	—	—	—	5.3
Australia	1.3	2.6	1.1	1.9	1.8	2.3	0.6	4.7	6.3	0.3	0.9	1.6	6.7

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	Telecommunications	Heavy industry		
											Oil, gas, coal and other minerals	Other heavy industry	Total
BY THE PRIVATE SECTOR													
NSW	0.6	5.8	3.2	5.9	1.4	1.9	0.1	4.0	12.2	0.1	—	0.3	6.2
Vic.	1.6	2.3	—	17.9	4.1	1.5	0.2	25.3	0.2	0.4	0.6	—	0.3
Qld	2.0	3.3	14.7	0.2	3.5	9.2	0.2	10.6	20.9	—	—	11.4	0.8
SA	1.8	—	—	—	—	36.3	—	0.8	26.5	—	6.2	—	1.4
WA	4.1	—	—	—	0.1	9.2	—	—	7.0	—	2.7	2.5	79.3
Tas.	31.1	—	—	—	18.3	15.2	—	—	53.4	—	22.8	—	20.0
NT	0.4	—	—	—	7.7	9.0	—	—	27.2	—	—	—	1.1
ACT	13.0	—	—	—	—	18.8	—	—	43.0	—	—	—	10.8
Australia	0.8	3.3	6.0	0.6	1.1	1.7	0.1	0.4	7.6	2.4	0.5	0.4	9.5
BY THE PUBLIC SECTOR													
NSW	5.0	4.3	—	—	—	0.6	0.4	8.1	53.0	7.4	—	—	—
Vic.	15.4	8.1	—	—	—	5.7	2.9	2.1	—	18.5	—	—	46.7
Qld	3.0	4.3	—	—	—	0.5	17.0	—	—	2.8	—	—	2.5
SA	15.8	55.1	—	—	—	0.1	2.1	47.4	—	14.5	—	—	3.7
WA	6.2	2.3	—	—	—	15.7	7.3	—	—	6.3	—	—	3.8
Tas.	16.0	—	—	—	—	2.6	11.0	—	—	2.7	—	—	1.7
NT	—	—	—	—	—	—	—	—	—	—	—	—	—
ACT	—	—	—	—	—	—	—	—	—	—	—	—	—
Australia	2.5	3.2	—	—	—	0.6	1.6	1.5	4.3	3.6	—	—	8.3
TOTAL													
NSW	1.7	3.9	0.3	5.9	0.6	0.4	0.7	4.0	9.5	—	0.3	4.2	0.6
Vic.	4.0	2.5	—	10.5	4.5	1.8	1.4	0.2	15.9	0.2	0.4	0.6	6.6
Qld	1.8	2.7	5.1	0.2	0.8	11.2	—	10.6	5.4	—	—	6.4	0.9
SA	7.2	18.2	—	—	0.1	2.2	24.9	0.7	17.6	—	6.2	—	2.5
WA	3.8	0.8	7.5	—	0.3	6.0	—	—	4.7	—	2.7	2.5	67.6
Tas.	14.3	—	—	—	2.6	9.5	—	—	16.2	—	22.8	—	2.0
NT	0.4	—	—	—	3.0	5.1	—	—	24.7	—	—	—	0.8
ACT	12.5	—	—	—	—	2.0	—	—	43.0	—	—	—	2.2
Australia	1.1	2.4	1.1	0.6	0.5	1.2	0.5	0.4	4.6	1.2	0.5	0.4	7.0

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*
 - (i) *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 is as follows. From Table 10 it can be seen that the estimate of the total value of work done during the quarter ended September 1993 is \$2,843m. The associated relative standard error is 0.5 per cent (see Table 15). Therefore, there are about two chances in three that the value which would have been obtained if there had been a complete collection would have been within the range \$2,829m to \$2,857m and about nineteen chances in twenty that the value would have been within the range \$2,815m to \$2,871m.

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)

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 — nil or rounded down to zero

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

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