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ENGINEERING CONSTRUCTION ACTIVITY, AUSTRALIA MARCH QUARTER 1994

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 March quarter 1994 was \$2,957.0m, an increase of 7.6 per cent over the December quarter 1994 estimate and 11.5 per cent above the March 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		
	Mar. qtr 1994	From Dec. qtr 1993	From Mar. qtr 1993
For private sector	\$905.0m	10.6	30.8
For public sector	\$2,052.0m	6.3	4.7
Total	\$2,957.0m	7.6	11.5

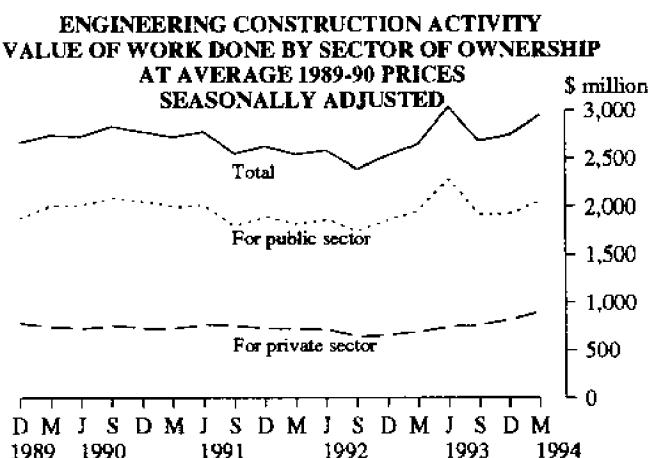
Engineering construction activity increased in all sectors in the March quarter 1994. The value of work done for the private sector rose by 10.6 per cent and at \$905.0m was at its highest level since the September quarter 1989. This was the second quarter in succession that showed a substantial increase. Work undertaken for the public sector increased by 6.3 per cent. This resulted from a combination of a rise of 11.4 per cent in work contracted to the private sector and a 2.8 per cent increase in the work undertaken by the public sector's own workforce.

At current prices

In original, current price terms, the *value of work done* during the December quarter 1993 was \$3,006.4m, a slight decrease of 0.5 per cent from the December quarter 1993 estimate, but still 11.2 per cent above the level recorded in the March quarter 1993.

Activity decreased in most States with the biggest decreases in Northern Territory (32.8%) and Queensland (18.6%). Other States that showed a decrease were South Australia (4.6%), Western Australia (4.9%), Tasmania (7.4%) and the Australian Capital Territory (4.5%). New South Wales (7.6%) and Victoria (20%) were the only States that recorded an increase in engineering construction activity in the March quarter 1994.

Activity fell in most construction categories, with the most significant falls occurring in Roads, highways and subdivisions (6.8%), Electricity generation, transmission and distribution (11.5%), Sewerage and drainage (21%) and Telecommunications (7.9%). Smaller declines were in Recreation (26%), Oil, gas, coal and other minerals (3.2%), Bridges (5.7%) and Pipelines (6.4%). Activity rose in other categories with the most significant growth being in Water storage and supply (75%), Other heavy industry (72%), Railways (10.7%) and Harbours (30.3%). The small Other category also had an increase in activity.



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 March quarter 1994 was \$921.6m, a decrease of 1.4 per cent from the December quarter 1993 estimate, but still 30.5 per cent above the value of commencements for the March quarter 1993. The largest decreases were seen in the categories of Electricity generation, transmission and distribution (72.1%) and Pipelines (59.3%). Other categories that reported decreases in commencements were Roads, highways and subdivisions (5.2%), Bridges (7.8%), Recreation (33.5%), and Heavy Industry (14.1%). These were largely offset by significant increases in the categories Water storage and supply which increased from \$30.1m to \$128.6m (327.2%), Harbours from \$1.7m to \$18.8m (1,005.9%) and Railways from \$7.1m to \$17.3m (143.7%).

The *value of work done* in the March quarter 1994 was \$923.9m, a decrease of 2.5 per cent over the December quarter estimate. Decreases were recorded in most categories with the exception of Harbours, Water storage and supply, and Other heavy industry. The most significant decrease was 55.3 per cent in the Pipelines category.

The *value of work yet to be done* rose by 15.4 per cent to \$1,468.9m, which is 73.3 per cent higher than the March quarter 1993 estimate.

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

The *value of engineering work commenced* for the public sector in the March quarter 1994 was \$2,001.3m, an increase of 16.8 per cent from the December quarter 1993 estimate, but 0.2 per cent less than the March 1993 estimate. Most significant increases were recorded in the categories of Bridges (91.5%) and Water storage and supply (191.8%). Sewerage and drainage recorded a decrease of 30.4 per cent in commencements.

The *value of engineering work done* for the public sector (\$2,082.5m) rose only 0.4 per cent in the March quarter 1994, but there was a decrease of 3.5 per cent in the work done by its own workforce. This decrease in work done occurred in State and Territory, by \$20.6m (3.5%) and Commonwealth, by \$29.3m (7.5%). Local Government had a relatively small increase of \$4.1m (1.2%).

The value of public sector work contracted out to the private sector rose by 6.9 per cent in the March quarter.

The *value of work yet to be done* for the public sector at the end of March quarter 1994 was \$3,142.8m a slight decrease of 1.3 per cent from the December quarter 1993 estimate but 20.3 per cent lower than the March quarter 1993 estimate.

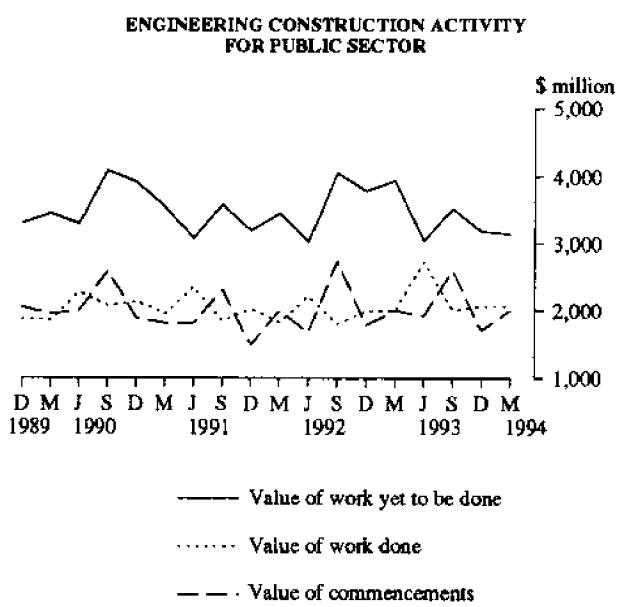
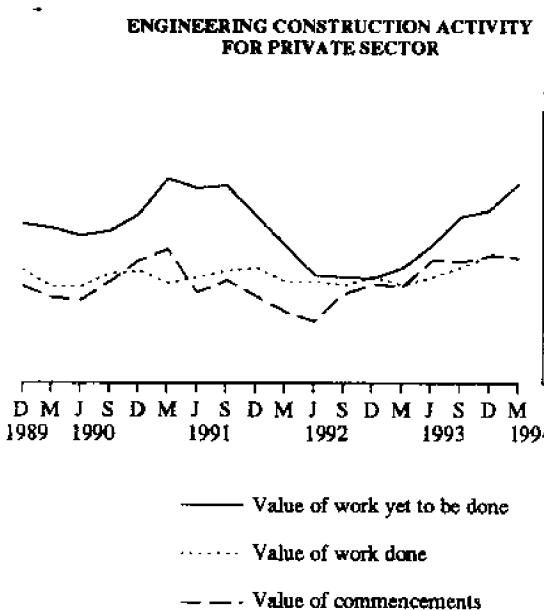


TABLE 1. ENGINEERING CONSTRUCTION ACTIVITY, VALUE OF WORK DONE, AUSTRALIA
ORIGINAL AND SEASONALLY ADJUSTED SERIES
(\$ million)

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	2,996.5	2,846.9	5,843.4	5,681.4	8,528.3	11,524.8
1992 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.	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	947.3	769.2	1,716.5	1,305.7	2,074.9	3,022.2
1994 Mar. qtr	923.9	822.6	1,746.5	1,259.9	2,082.5	3,006.4
SEASONALLY ADJUSTED						
1992 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.	815.2	880.6	1,695.8	1,602.0	2,482.6	3,297.8
Sept. qtr.	832.2	842.7	1,674.9	1,237.1	2,079.8	2,912.0
Dec. qtr	882.9	752.0	1,635.0	1,332.4	2,084.5	2,967.4
1994 Mar. qtr	977.3	844.3	1,821.6	1,368.6	2,212.9	3,190.2

(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)

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	2,436.9	5,422.3	5,713.9	8,150.8	11,136.2
1991-92	2,923.4	2,502.5	5,425.9	4,902.0	7,404.5	10,327.9
1992-93	2,750.0	2,619.7	5,369.6	5,278.4	7,898.1	10,648.0
1992 Dec. qtr	717.4	584.0	1,301.4	1,270.8	1,854.8	2,572.2
1993 Mar. qtr.	654.5	661.0	1,315.5	1,178.6	1,839.6	2,494.1
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	1,084.7	1,860.0	2,646.7
Dec. qtr.	878.0	710.3	1,588.3	1,212.4	1,922.7	2,800.7
1994 Mar. qtr	855.5	758.9	1,614.3	1,171.3	1,930.2	2,785.6
SEASONALLY ADJUSTED						
1992 Dec. qtr	668.6	569.6	1,238.2	1,296.1	1,865.7	2,534.3
1993 Mar. qtr	691.8	678.0	1,369.8	1,281.7	1,959.7	2,651.5
June qtr.	750.5	806.2	1,556.7	1,480.2	2,286.4	3,036.9
Sept. qtr.	767.4	774.6	1,542.0	1,148.4	1,923.0	2,690.4
Dec. qtr	818.3	693.8	1,512.1	1,237.3	1,931.1	2,749.4
1994 Mar. qtr	905.0	779.6	1,684.6	1,272.4	2,052.0	2,957.0

(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			Heavy industry	Other	Total
							Pipelines	Recreation	Telecommuni- cations			
4												
1990-91	930.9	12.8	33.4	30.2	99.5	90.5	115.1	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	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 Dec. qtr	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. qtr	236.1	—	4.7	7.5	65.6	12.7	18.4	23.0	50.0	67.0	215.9	5.1
June qtr	321.3	4.5	7.9	11.6	21.4	14.1	53.3	57.3	44.0	37.9	324.9	3.2
Sept. qtr	246.2	—	19.4	6.5	112.3	19.2	39.4	35.7	63.0	3.3	349.5	1.9
Dec. qtr	265.4	5.0	7.1	1.7	30.1	15.6	37.7	30.5	71.9	12.1	457.6	0.3
1994 Mar. qtr	251.6	1.1	17.3	18.8	128.6	19.1	10.5	12.4	47.8	20.7	393.2	0.5
FOR THE PUBLIC SECTOR												
1990-91	973.0	149.1	64.2	46.6	282.9	190.8	344.4	35.7	116.0	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	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 Dec. qtr	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. qtr	474.8	60.9	14.4	19.3	22.9	36.5	62.0	11.6	29.5	40.1	13.3	2.8
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
Sept. qtr	218.8	51.0	42.1	36.7	34.4	113.1	83.0	1.8	13.9	5.3	12.5	0.8
Dec. qtr	299.3	33.5	107.3	28.0	26.8	60.1	93.5	2.0	8.5	4.0	10.9	0.1
1994 Mar. qtr	378.2	110.3	72.2	19.0	165.6	28.4	24.5	4.3	11.0	3.2	19.2	1.0
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	1,687.4	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	2,532.5	130.9	84.1	74.9	287.7	379.5	375.0	215.8	278.0	158.6	1,971.8	31.9
1992 Dec. qtr	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. qtr	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 qtr	687.2	31.1	25.6	26.8	47.5	77.0	108.5	59.7	58.1	41.9	337.5	5.2
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
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
1994 Mar. qtr	629.8	111.4	89.5	37.8	294.2	47.5	35.0	16.7	53.8	23.9	412.4	1.5

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	Highways	Railways	Harbours	Water storage and supply	Sewerage and drainage	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	982.9	3.0	12.6	32.9	82.4	74.7	79.5	188.5	231.7	69.6	1,232.4	17.3	2,965.5	..	..
1992 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	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	267.0	1.6	11.6	12.7	25.0	23.8	28.2	37.4	60.2	32.4	350.2	3.1	853.2	832.2	..	
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	882.9	..	
1994 Mar. qtr	266.4	3.3	9.6	19.0	36.2	25.1	35.7	25.6	48.3	15.5	433.0	5.8	923.9	977.3	..	
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	39.9	132.9	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	..	..
1992 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	456.5	36.1	26.6	29.9	67.6	65.3	133.9	8.0	19.8	9.7	25.9	4.9	883.1	880.6	..	
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	842.3	842.7	..	
Dec. qtr	340.2	44.7	44.5	23.4	56.5	62.4	156.3	2.6	13.8	5.7	19.1	0.1	769.2	752.0	..	
1994 Mar. qtr	339.1	42.7	62.6	30.0	179.4	47.5	79.9	2.3	9.8	5.0	23.6	0.6	822.6	844.3	..	
TOTAL																
1990-91	1,975.1	149.9	103.1	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	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 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	723.0	36.9	33.8	39.9	95.0	82.2	157.9	70.7	67.9	44.8	301.6	9.1	1,662.0	1,695.8	..	
Sept. qtr	635.2	49.9	32.9	39.6	67.1	83.7	250.6	42.0	79.5	41.5	368.5	5.0	1,695.5	1,674.9	..	
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	1,635.0	..	
1994 Mar. qtr	605.5	46.1	72.3	49.0	215.7	72.6	115.6	27.9	58.1	20.5	456.7	6.5	1,746.5	1,821.6	..	

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	Pipelines	Electricity generation, transmission and distribution	Recreation	Telecommu- nications	Heavy industry	Other	Total
FOR THE PRIVATE SECTOR													
1990-91													
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	1,005.5
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
1992 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	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	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	769.5	0.3	1,273.1
1994 Mar. qtr	222.7	4.8	19.7	16.6	207.4	11.3	76.8	17.8	14.6	24.3	845.5	7.2	1,468.9
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	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 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	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	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	371.0	156.4	138.1	43.2	111.0	196.0	270.1	3.2	12.0	26.4	31.1	0.4	1,356.9
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	738.9	115.3	39.1	70.7	163.1	200.9	525.5	62.3	29.1	89.6	514.9	4.0	2,551.5
1992 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	2,361.2
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	738.9	115.3	39.1	70.7	163.1	200.9	525.5	62.3	29.1	89.6	514.9	4.0	2,551.5
Sept. 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	2,576.0
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	2,551.5
1994 Mar. qtr	593.8	161.3	157.7	59.8	318.4	207.3	346.9	21.1	26.6	50.8	876.6	7.6	2,827.7

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 minerals	Total
VALUE OF WORK COMMENCED DURING PERIOD													
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
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
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
1992 Dec. qtr	304.4	23.0	34.1	6.7	82.4	89.7	187.9	11.8	26.3	422.7	0.1	..	2.5
1993 Mar. qtr	407.9	17.3	38.5	4.0	58.6	86.3	170.2	6.8	31.3	388.8	..	..	4.4
June 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
Sep. qtr	713.2	60.7	365.9	2.9	82.5	114.5	196.4	3.9	37.2	401.1	6.8	..	2.4
Dec. qtr	309.8	31.3	12.8	5.7	48.4	70.1	129.8	12.3	20.1	391.1	5.3	..	2.5
1994 Mar. qtr	374.0	13.8	35.8	6.6	53.9	62.1	199.5	33.3	16.8	362.1	3.3	..	3.4
VALUE OF WORK DONE DURING PERIOD													
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
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
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
1992 Dec. qtr	348.9	26.5	84.9	5.7	107.7	111.8	215.1	11.8	19.0	426.2	3.1	..	3.0
1993 Mar. qtr	367.3	26.4	80.2	5.7	81.4	87.3	195.1	6.8	19.6	391.5	4.6	..	3.5
June qtr	608.9	48.2	179.9	3.3	120.4	96.8	246.9	6.0	25.3	504.7	7.3	..	3.6
Sep. qtr	348.6	19.7	81.9	7.3	69.6	65.2	168.3	3.9	32.4	361.4	7.4	..	2.8
Dec. qtr	421.0	27.4	104.9	7.9	65.1	74.2	172.2	5.6	23.8	395.9	5.1	..	2.7
1994 Mar. qtr	364.8	25.0	106.0	7.4	58.4	62.1	208.3	33.4	18.1	367.5	4.7	..	4.2
VALUE OF WORK YET TO BE DONE													
1990-91	308.6	19.8	73.9	9.9	400.1	359.8	220.7	1.2	24.7	38.5	0.1	..	3.1
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
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
1992 Dec. qtr	589.1	50.1	294.0	5.0	298.8	373.3	492.2	..	32.0	37.5	15.0	..	2.1
1993 Mar. qtr	645.8	38.9	249.0	3.0	280.6	364.9	473.9	..	42.1	34.7	15.0	..	2.8
June 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
Sep. qtr	663.6	58.4	397.3	7.1	217.2	307.5	422.7	..	34.0	53.2	15.0	0.7	2.176.8
Dec. 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
1994 Mar. qtr	495.5	44.5	232.4	5.3	186.6	273.8	430.6	6.7	27.1	43.9	34.4	..	3.1

TABLE 7. ENGINEERING CONSTRUCTION ACTIVITY FOR THE PUBLIC SECTOR, BY TYPE OF CONSTRUCTION
AUSTRALIA

Period	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	and distribution	Pipelines	Recreation	Telecomm- unications	Heavy industry		
											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	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	1,894.4	104.9	8.9	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	8,453.3
1992 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
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
June qtr	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
Sept. qtr	931.9	111.7	408.0	39.7	116.9	227.6	279.4	5.7	51.0	406.4	14.4	4.9	3.2
Dec. qtr	609.1	64.8	120.1	33.7	75.2	130.1	223.3	14.3	28.6	395.2	12.1	4.2	2.6
1994 Mar. qtr	752.2	124.1	108.0	25.5	219.4	90.5	223.9	37.6	27.8	365.3	21.2	1.3	4.4
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	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	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	8,528.3
1992 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
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
June qtr	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
Sept. qtr	716.8	68.1	103.2	34.2	111.8	125.2	390.7	8.5	51.7	370.4	17.1	8.6	4.7
Dec. qtr	761.1	72.1	149.4	31.3	121.6	136.6	328.5	8.2	37.6	401.6	18.6	5.5	2.8
1994 Mar. qtr	703.8	67.8	168.7	37.4	237.9	109.6	288.2	35.7	28.0	372.4	21.3	7.0	4.8
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
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
1992-93	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
1992 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
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
June qtr	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
Sept. qtr	1,030.9	169.7	451.4	58.8	336.4	502.4	800.8	—	52.6	82.6	37.5	4.3	0.9
Dec. qtr	902.1	152.4	420.8	57.8	287.1	489.6	714.5	6.9	37.7	76.7	32.2	7.4	0.6
1994 Mar. qtr	866.5	200.9	370.4	48.5	297.6	469.8	700.7	10.0	39.0	70.3	51.3	14.3	3.5

TABLE 8. ENGINEERING CONSTRUCTION ACTIVITY BY STAGE OF CONSTRUCTION

Period	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Australia
VALUE OF WORK COMMENCED DURING PERIOD									
(\$ million)									
1990-91	3,839.8	2,148.6	2,351.4	853.5	1,644.6	265.0	154.0	142.5	11,419.4
1991-92	3,409.5	1,861.4	2,032.3	673.5	1,280.2	259.2	162.2	189.7	9,867.9
1992-93	4,115.2	2,234.2	2,372.3	733.8	1,441.6	239.8	132.9	172.9	11,442.7
1992 Dec. qtr	774.4	509.9	511.8	178.8	395.8	58.4	38.9	39.1	2,507.1
1993 Mar. qtr	878.0	542.6	612.0	207.2	299.4	79.7	37.5	54.4	2,710.9
June qtr	876.5	643.0	558.7	187.4	440.6	52.5	33.0	28.8	2,820.5
Sept. qtr	1,571.3	489.1	792.5	132.0	353.1	57.0	63.2	38.8	3,497.1
Dec. qtr	849.2	467.0	596.0	183.9	397.3	35.0	73.2	46.4	2,648.1
1994 Mar. qtr	1,095.0	577.7	612.8	169.7	351.2	46.3	24.1	46.0	2,922.9
VALUE OF WORK DONE DURING PERIOD									
1990-91	4,126.4	2,314.0	2,372.4	854.5	1,421.5	289.8	158.5	137.7	11,674.9
1991-92	4,015.3	1,915.7	2,283.5	763.7	1,506.1	302.6	136.9	167.2	11,091.0
1992-93	4,015.9	2,098.2	2,497.2	734.9	1,541.5	311.1	138.0	188.1	11,524.8
1992 Dec. qtr	973.0	500.3	629.8	142.3	370.3	83.7	30.3	49.0	2,779.3
1993 Mar. qtr	896.5	534.8	541.8	197.2	374.8	82.8	27.6	47.2	2,702.8
June qtr	1,259.4	644.5	705.8	263.4	459.9	84.4	49.8	46.1	3,513.3
Sept. qtr	895.9	493.9	729.4	167.0	426.2	57.3	50.9	43.5	2,854.0
Dec. qtr	979.1	508.3	716.7	187.8	466.8	59.8	61.8	41.9	3,022.2
1994 Mar. qtr	1,053.4	609.8	583.3	179.2	443.8	55.4	41.5	40.0	3,006.4
VALUE OF WORK YET TO BE DONE									
1990-91	1,443.4	676.8	1,231.5	216.4	652.1	225.7	29.8	43.3	4,516.9
1991-92	1,256.6	641.6	1,040.6	128.7	449.3	188.5	52.8	58.3	3,816.4
1992-93	1,283.5	916.6	964.2	198.2	481.9	120.0	47.7	37.0	4,048.9
1992 Dec. qtr	1,736.2	863.8	990.1	205.4	502.8	159.6	44.8	53.6	4,556.3
1993 Mar. qtr	1,819.4	908.8	1,087.9	223.4	482.6	155.5	50.9	59.9	4,788.5
June qtr	1,283.5	916.6	964.2	198.2	481.9	120.0	47.7	37.0	4,048.9
Sept. qtr	1,845.6	926.4	1,062.8	166.2	545.8	112.4	59.5	35.9	4,754.8
Dec. qtr	1,693.8	887.6	980.7	181.9	521.4	80.3	73.6	39.7	4,458.9
1994 Mar. qtr	1,678.7	989.7	1,008.4	177.8	583.0	72.4	56.5	45.3	4,611.7

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, drainage and distribution	Electricity generation, transmission and distribution				Telecommunications				Heavy industry								
							Pipelines	Recreation	Pipelines	Telecommunications	Other minerals	Heavy industry	Other	Total	Oil, gas, coal and other minerals	Heavy industry	Other	Total					
BY THE PRIVATE SECTOR																							
December qtr 1993 — r																							
NSW	185.4	15.6	19.5	2.1	18.3	45.5	66.9	13.1	23.3	0.8	163.3	18.7	0.1	572.6									
Vic.	77.3	3.4	17.6	0.1	16.2	6.8	47.3	0.5	13.5	30.7	7.8	0.2	238.0										
Qld	134.0	14.4	66.2	16.1	8.3	15.6	9.7	3.4	23.7	0.5	41.2	16.3	0.1	349.6									
SA	32.3	0.1	5.5	0.1	1.6	1.3	1.6	0.8	3.7	1.1	9.9	11.8	...	69.3									
WA	60.4	4.2	5.6	11.2	11.3	1.6	5.0	14.1	2.7	—	139.3	12.7	—	268.3									
Tas.	5.4	0.5	—	—	0.2	0.3	—	—	0.9	0.2	1.1	2.2	—	10.8									
NT	44.7	0.3	—	0.1	1.0	3.9	0.8	0.2	1.4	—	13.5	—	—	66.0									
ACT	25.1	—	—	—	0.7	—	0.4	7.7	—	—	—	—	—	33.9									
Australia	564.7	38.5	114.4	29.7	56.8	75.6	131.3	32.5	80.4	16.1	399.1	69.5	0.4	1,609.0									
March qtr 1994 —																							
NSW	179.2	49.9	25.2	0.1	219.5	17.2	16.2	5.1	15.0	15.3	140.5	21.2	1.2	705.7									
Vic.	150.2	0.4	3.9	—	55.6	4.5	5.3	0.3	11.4	2.9	134	83.6	0.3	331.9									
Qld	19.5	47.1	56.8	6.7	8.9	14.6	10.1	3.4	20.6	2.8	40.5	7.6	—	338.5									
SA	52.2	0.3	0.6	0.1	2.8	1.2	1.2	3.9	7.0	0.6	5.0	10.0	—	84.7									
WA	82.1	10.6	3.0	27.5	3.3	5.7	0.7	3.7	1.5	—	80.9	1.5	—	220.7									
Tas.	14.6	—	—	3.3	1.0	3.5	—	—	0.6	1.7	1.2	1.1	—	27.0									
NT	5.7	3.1	—	—	0.2	—	1.5	—	0.7	—	5.3	0.4	—	17.0									
ACT	26.5	—	—	—	2.9	0.8	—	0.3	1.9	0.6	—	—	—	33.0									
Australia	629.8	111.4	89.5	37.8	294.2	47.5	15.0	16.7	58.8	23.9	286.9	125.5	1.5	1,758.4									
BY THE PUBLIC SECTOR																							
NSW	90.5	6.2	—	—	6.0	9.9	35.7	0.2	4.2	4.2	121.8	—	—	276.6									
Vic.	51.7	2.9	12.2	0.2	6.5	22.9	43.8	3.2	4.3	78.4	2.7	—	0.1	229.0									
Qld	72.8	15.8	—	3.5	11.8	10.8	22.2	—	4.1	103.1	2.4	—	—	246.4									
SA	31.7	0.3	0.1	1.4	10.3	14.1	14.5	7.0	3.5	31.0	0.2	—	—	114.1									
WA	49.7	3.8	0.5	0.5	10.8	10.8	9.8	2.0	3.4	37.7	—	—	0.2	129.1									
Tas.	13.3	2.4	—	0.2	0.4	0.7	—	—	0.5	6.8	—	—	—	24.2									
NT	—	—	—	—	0.1	0.2	0.5	—	0.1	6.3	—	—	—	7.2									
ACT	0.1	—	—	—	2.5	0.6	3.3	—	6.0	—	—	—	—	—	12.6								
Australia	309.8	31.3	12.8	5.7	48.4	70.1	129.8	12.3	20.1	391.1	5.3	—	2.5	1,039.2									

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	Warehouses	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecommu- nications	Other	Heavy industry	
												Oil, gas, coal and other heavy industry	Total
BY THE PUBLIC SECTOR —continued													
March qtr 1994—													
NSW	134.6	4.0	—	—	7.7	15.0	86.7	0.4	5.0	132.9	—	—	3.1
Vic.	52.3	1.9	7.1	—	10.3	23.6	55.6	31.2	1.8	62.2	—	—	245.8
Qld	110.8	1.7	14.0	5.0	9.5	7.8	31.1	—	4.4	86.7	3.3	—	274.4
SA	20.3	0.1	0.1	0.3	10.0	5.6	14.9	—	2.0	31.5	..	0.2	85.1
WA	44.6	4.0	14.6	1.3	15.8	6.8	7.9	1.8	3.2	30.6	—	—	130.5
Tas.	11.1	2.1	—	0.1	0.2	0.1	—	—	0.3	5.4	—	—	19.3
NI	0.1	—	—	—	0.2	0.2	0.2	—	0.1	6.4	—	—	7.1
ACT	0.2	—	..	—	0.2	3.1	—	—	6.5	—	—	—	13.0
Australia	374.0	13.8	35.8	6.6	53.9	62.1	199.5	33.3	16.8	362.1	3.3	—	34
TOTAL													
December qtr 1993 — r													
NSW	275.9	21.8	19.5	2.1	24.3	55.4	102.6	13.2	27.5	122.6	163.3	18.7	2.3
Vic.	129.0	6.3	29.8	0.3	22.7	29.7	91.1	3.7	21.2	91.9	33.4	7.8	0.3
Qld	206.8	30.2	66.2	19.6	20.1	26.4	31.8	3.4	27.8	103.6	43.6	16.3	56.0
SA	64.0	0.4	5.6	1.5	11.8	15.4	16.1	7.8	7.3	32.1	10.1	11.8	—
WA	110.2	7.9	6.0	11.7	22.1	12.5	14.7	16.1	6.1	37.7	139.3	12.7	397.3
Tas.	18.8	2.8	—	0.2	0.6	1.0	—	—	1.4	7.0	1.1	2.2	35.0
NI	44.7	0.3	—	0.1	1.0	4.1	1.3	0.2	1.5	6.3	13.5	—	—
ACT	25.2	—	—	—	2.5	1.3	3.3	0.4	7.7	6.0	—	—	46.4
Australia	874.5	49.8	127.2	35.4	105.2	145.7	261.0	44.8	100.5	407.2	404.4	69.5	2.8
March qtr 1994—													
NSW	313.8	53.9	25.2	0.1	227.2	32.2	102.9	5.5	20.0	148.1	140.5	21.2	4.3
Vic.	202.5	2.3	11.0	—	65.9	28.2	60.8	31.4	13.2	65.0	13.4	83.6	0.3
Qld	230.3	48.8	70.8	11.7	18.3	22.4	41.2	34	25.0	89.5	43.8	7.6	577.7
SA	72.5	0.3	0.7	0.4	12.8	6.8	16.0	3.9	9.0	32.0	5.0	10.0	612.8
WA	126.7	14.6	17.6	28.8	19.1	12.5	8.7	5.5	4.8	30.6	80.9	1.5	169.7
Tas.	25.7	2.2	—	3.3	1.1	3.6	—	—	0.9	7.2	1.2	1.1	—
NI	5.8	3.1	—	—	0.4	0.2	1.7	0.8	0.8	6.4	5.3	0.4	24.1
ACT	26.6	—	—	—	3.2	3.8	3.1	0.3	1.9	7.1	—	—	46.0
Australia	1,003.8	125.2	125.3	44.4	348.1	109.6	234.4	50.0	75.6	386.0	290.2	125.5	4.8

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 supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecommu-nications	Heavy industry		
											Oil, gas, coal and other minerals	Heavy industry	Total
BY THE PRIVATE SECTOR													
December qtr 1993 — r													
NSW	220.1	19.1	12.9	7.8	41.9	59.7	35.5	12.6	25.3	7.9	42.9	21.4	0.2
Vic.	91.8	9.2	6.2	0.4	14.2	9.1	62.9	1.0	17.8	12.4	36.5	15.8	0.2
Qld	147.1	14.0	23.0	11.5	8.9	17.1	82.9	6.8	23.4	0.6	57.7	13.1	0.1
SA	34.0	1.1	2.7	0.1	3.5	2.7	2.2	1.7	3.6	3.5	17.0	16.5	—
WA	71.2	1.8	11.1	10.3	19.3	4.1	7.1	—	37.3	3.5	0.2	156.7	12.1
Tas.	9.4	1.0	0.3	2.2	1.0	2.0	—	—	—	1.2	0.2	1.5	1.7
NT	25.6	1.8	—	5.4	0.8	0.9	2.2	0.2	1.1	0.2	15.7	—	—
ACT	20.5	—	—	—	1.8	0.6	0.9	0.4	3.2	0.5	—	—	27.9
Australia	619.7	48.0	56.1	37.6	91.5	96.1	193.7	60.0	79.2	25.5	328.1	80.6	0.5
BY THE PUBLIC SECTOR													
March qtr 1994 —													
NSW	213.1	20.1	13.8	8.0	164.6	49.0	23.2	10.7	15.2	7.6	59.8	21.7	3.6
Vic.	127.1	2.9	8.4	—	21.3	10.0	56.0	0.5	11.2	10.8	28.6	75.4	2.9
Qld	99.0	18.9	41.2	20.5	7.0	15.3	24.4	4.0	19.3	0.4	40.2	12.5	—
SA	44.9	0.9	0.6	—	1.5	2.0	1.3	1.7	5.7	1.2	9.2	14.0	—
WA	74.6	2.0	8.3	16.1	19.8	2.5	9.7	10.6	3.1	—	162.5	13.5	—
Tas.	12.9	0.8	—	2.6	0.8	2.0	0.1	0.6	0.6	0.5	1.9	1.4	—
NT	13.3	0.5	—	1.7	0.3	0.1	0.8	—	0.7	—	15.6	0.2	—
ACT	20.7	—	—	—	0.4	0.7	0.2	0.3	2.4	—	—	—	24.6
Australia	605.5	46.1	72.3	49.0	215.7	72.6	115.6	27.9	58.1	20.5	317.8	138.9	6.5

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	Telecommu- nications	Heavy industry			
											Oil, gas, coal and other heavy minerals	Other heavy industry	Total	
BY THE PUBLIC SECTOR —continued														
March qtr 1994 —														
NSW	138.2	10.3	52.7	—	9.2	18.8	76.6	0.3	4.3	137.9	—	—	3.6	451.9
Vic.	56.9	3.0	15.2	—	8.9	14.0	59.4	31.2	2.6	62.1	1.4	—	—	254.7
Qld	87.6	8.3	22.7	5.0	13.5	9.0	38.5	—	5.7	86.8	3.3	—	0.1	280.6
SA	27.1	0.1	1.0	1.4	6.2	11.3	14.9	0.1	2.3	31.5	—	—	0.3	96.3
WA	38.9	1.3	14.5	1.0	15.8	6.8	7.7	1.8	2.7	30.6	—	—	—	121.1
Tas.	15.7	2.0	—	—	—	3.1	0.8	3.8	0.5	5.5	—	—	0.1	31.7
NT	0.1	—	—	—	—	1.1	0.1	0.4	—	0.1	6.4	—	—	8.3
ACT	0.2	—	—	—	—	0.5	1.2	6.9	—	6.6	—	—	—	15.4
Australia	364.8	25.0	106.0	7.4	58.4	62.1	208.3	33.4	18.1	367.5	4.7	—	4.2	1,259.9
TOTAL														
December qtr 1993 — r														
NSW	406.3	31.1	72.9	7.8	55.3	82.6	76.9	12.8	33.0	133.5	42.9	21.4	2.6	979.1
Vic.	131.0	11.6	29.2	0.5	25.2	25.0	114.7	4.2	20.9	90.8	39.0	15.8	0.3	508.3
Qld	257.0	20.3	33.7	15.0	23.0	27.3	126.0	6.8	30.0	104.2	60.0	13.1	0.2	716.7
SA	61.7	1.2	3.7	2.3	11.2	14.3	16.7	1.9	6.4	34.6	17.3	16.5	—	187.3
WA	112.9	6.0	21.2	12.0	30.2	15.2	16.9	39.2	6.6	37.9	156.7	12.1	0.1	466.8
Tas.	25.5	3.3	0.3	2.6	7.5	3.2	5.2	—	1.7	7.2	1.5	1.7	0.1	59.8
NT	25.7	1.8	—	5.4	1.3	1.0	2.7	0.2	1.3	6.6	1.57	—	—	61.8
ACT	20.6	—	—	—	2.9	1.7	6.6	0.4	3.2	6.6	—	—	—	41.9
Australia	1,040.7	75.4	161.1	45.6	156.6	179.3	365.8	65.5	103.0	421.4	333.1	80.6	3.2	3,022.2
March qtr 1994														
NSW	351.3	30.4	66.5	8.0	173.9	58.8	99.8	11.0	19.6	145.5	59.8	21.7	7.2	1,053.4
Vic.	184.0	5.9	23.5	0.1	30.2	24.0	115.4	31.7	13.8	72.9	29.9	75.4	2.9	669.8
Qld	186.6	27.2	63.9	25.5	20.5	24.4	62.9	4.0	24.9	87.2	43.5	12.5	0.1	583.3
SA	72.0	0.9	1.6	1.5	7.7	13.4	16.1	1.8	8.0	32.7	9.2	14.0	0.3	179.2
WA	113.5	3.3	22.8	17.1	35.6	9.3	17.5	12.4	5.8	30.6	162.5	13.5	—	443.8
Tas.	28.6	2.9	—	2.6	4.0	2.8	3.9	—	1.2	6.0	1.9	1.4	0.1	55.4
NT	13.4	0.5	—	1.7	1.4	0.2	1.3	—	0.8	6.4	15.6	0.2	—	41.5
ACT	20.8	—	—	—	0.8	1.8	7.1	0.3	2.4	6.7	—	—	—	40.0
Australia	970.3	71.1	179.3	56.5	274.1	134.7	323.9	61.3	76.3	388.0	322.5	138.9	10.7	3,906.4

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 supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecommu- nications	Heavy industry		
											Oil, gas, coal and other heavy minerals	Other heavy industry	Total
BY THE PRIVATE SECTOR													
December qtr 1993 - r													
NSW	238.1	56.2	19.3	6.3	158.9	103.0	98.5	16.7	12.5	26.4	192.6	18.6	0.3
Vic.	122.1	8.5	18.6	—	27.0	78.9	205.6	0.2	3.1	19.8	95.3	6.3	585.4
Qld	82.2	30.2	77.1	40.5	5.9	21.8	99.7	5.0	1.1	0.1	39.6	34.8	—
SA	12.1	4.2	3.1	—	3.5	1.1	1.2	2.5	2.2	0.3	14.6	4.8	—
WA	38.3	2.9	10.1	12.9	15.7	0.1	29.0	7.1	2.3	—	291.1	20.5	—
Tas.	4.2	1.9	—	0.8	1.0	0.4	—	—	—	—	1.3	0.7	—
NT	43.8	0.1	—	5.9	1.5	3.4	1.0	—	0.3	—	13.6	—	69.5
ACT	23.3	—	—	—	0.1	0.2	—	4.7	0.4	—	—	—	28.6
Australia	564.1	98.0	128.1	66.5	213.5	208.7	435.3	31.4	26.2	47.0	648.1	85.8	0.3
BY THE PUBLIC SECTOR													
March qtr 1994 —													
NSW	209.5	81.3	29.0	1.7	242.0	81.1	83.4	12.4	12.0	37.7	268.2	33.6	6.3
Vic.	147.9	4.5	14.4	—	57.9	97.0	147.5	—	3.8	7.8	103.9	17.3	1.2
Qld	101.2	53.8	106.2	28.5	74	19.5	91.0	4.5	2.2	2.5	39.6	29.8	—
SA	19.8	6.4	3.0	0.1	4.9	1.1	1.9	4.1	3.2	0.1	7.7	3.2	—
WA	44.7	11.5	5.2	23.4	2.3	3.3	21.1	0.1	0.9	—	359.1	9.4	—
Tas.	6.0	1.1	—	1.5	1.2	1.7	—	—	—	1.3	0.5	0.3	—
NT	36.5	2.6	—	4.7	0.1	3.3	2.0	—	0.2	—	3.7	0.2	—
ACT	28.2	—	—	—	2.6	0.2	—	—	4.2	1.3	—	—	36.5
Australia	592.8	161.3	157.7	59.8	318.4	207.3	346.9	21.1	26.6	50.8	782.7	93.9	7.6
December qtr 1993 - r													
NSW	310.4	32.5	188.2	—	59.3	76.3	44.0	—	—	3.7	37.2	—	0.1
Vic.	28.1	3.9	26.7	1.0	34.9	134.4	55.5	—	2.3	0.1	15.3	—	—
Qld	162.0	20.5	55.3	—	44.1	17.3	231.8	—	10.1	1.3	—	—	542.6
SA	11.8	0.1	2.8	1.9	43.6	62.4	—	6.8	2.8	—	—	—	132.1
WA	49.9	1.3	30.3	1.3	0.1	1.2	—	—	7.0	0.1	—	—	91.3
Tas.	10.2	—	—	—	3.5	2.6	42.8	—	0.8	10.0	—	—	70.0
NT	0.2	—	—	—	2.5	0.2	1.1	—	—	0.4	—	—	4.1
ACT	0.1	—	—	—	2.1	3.0	5.4	—	—	—	—	—	11.1
Australia	572.7	58.3	304.2	4.2	190.0	297.4	380.6	6.8	26.8	49.1	15.3	—	6.6

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 —continued
(\$ million)

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	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecommu- nications	Oil, gas, coal and other minerals	Other heavy industry	Other	
<i>March qtr 1994 —</i>														
NSW	214.9	26.1	136.5	—	47.0	65.2	54.6	0.1	3.0	32.3	—	—	0.7	580.5
Vic.	30.6	3.0	18.7	1.0	38.5	146.4	109.0	—	4.6	0.1	34.4	—	—	386.4
Qld	176.3	10.4	45.0	—	41.6	14.3	224.3	—	9.0	1.2	—	—	0.3	522.3
SA	12.7	0.1	1.9	0.7	55.5	39.7	—	6.7	3.1	—	—	—	2.1	122.5
WA	54.8	4.8	30.4	3.6	0.1	1.1	0.2	—	6.9	0.1	—	—	—	101.8
Tas.	5.8	0.1	—	—	0.6	1.9	39.9	—	0.4	9.9	—	—	—	58.7
NT	0.2	—	—	—	1.6	0.3	0.9	—	0.1	—	—	—	—	3.0
ACT	0.1	—	—	—	1.8	4.9	1.6	—	0.3	—	—	—	—	8.7
Australia	495.5	44.5	232.4	5.3	186.6	273.8	430.6	6.7	27.7	43.9	34.4	—	3.1	1,783.9
<i>December qtr 1993 — r</i>														1,693.8
NSW	548.5	82.7	208.4	6.3	218.2	179.3	142.5	16.7	16.2	63.6	192.6	18.6	0.3	887.6
Vic.	150.2	12.4	45.3	1.0	61.8	213.3	261.1	0.2	5.4	19.9	110.6	6.3	—	980.7
Qld	244.2	50.7	132.4	40.5	50.0	39.0	331.5	5.0	11.2	1.5	39.6	34.8	0.3	1,819.9
SA	23.9	4.4	5.9	1.9	47.1	63.5	1.2	9.3	5.0	0.3	14.6	4.8	—	521.4
WA	88.2	4.2	40.4	14.2	15.7	1.3	29.0	7.1	9.4	0.1	29.1	20.5	0.2	213.4
Tas.	14.4	1.9	—	0.8	4.6	2.9	42.8	—	0.8	10.0	1.3	0.7	0.1	80.3
NT	44.0	0.1	—	—	5.9	4.0	3.6	2.1	—	0.3	—	—	—	73.6
ACT	23.4	—	—	—	—	2.1	3.1	5.6	—	4.7	0.8	—	—	39.7
Australia	1,136.8	156.3	432.4	70.7	403.5	506.1	815.9	38.2	53.0	96.2	662.3	85.8	0.9	4,458.9
<i>March qtr 1994 —</i>														1,678.7
NSW	424.4	107.4	165.5	1.7	289.1	146.3	138.0	12.4	15.1	70.0	263.2	33.6	7.0	989.7
Vic.	178.5	7.5	33.1	1.0	96.3	243.5	256.6	—	8.4	8.0	136.3	17.3	1.2	1,008.4
Qld	277.5	64.1	151.2	28.5	48.9	33.8	315.3	4.5	11.2	3.7	39.6	29.8	0.3	1,778
SA	32.5	6.6	4.8	0.8	60.3	40.8	1.9	10.7	6.3	0.1	7.7	3.2	2.1	583.0
WA	99.5	16.3	35.6	27.0	2.4	4.4	21.3	0.1	7.8	0.1	359.1	9.4	—	72.4
Tas.	11.9	1.2	—	—	1.5	1.8	3.7	39.9	—	0.4	11.1	0.5	0.3	—
NT	36.7	2.6	—	4.7	1.7	3.6	2.9	—	0.3	—	3.7	0.2	—	56.5
ACT	28.3	—	—	—	4.4	5.1	1.6	—	4.2	1.6	—	—	—	45.3
Australia	1,089.3	245.8	390.1	65.1	505.0	481.1	77.5	27.8	53.7	94.7	817.1	93.9	10.7	4,611.7

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

<i>Stage of construction</i>	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Australia
DECEMBER QUARTER 1993 r									
<i>For the private sector</i> —									
Value of work commenced	306.2	109.5	188.8	47.0	225.6	6.6	20.8	30.5	935.0
Value of work done	215.5	145.9	198.9	59.3	270.1	6.9	31.8	19.0	947.3
Value of work yet to be done	469.0	194.0	148.4	33.3	376.9	3.0	21.7	26.8	1,273.1
<i>For the public sector</i> —									
Value of work commenced	266.4	128.6	160.7	22.8	42.7	4.2	45.2	3.4	674.0
Value of work done	291.7	131.5	207.3	29.3	64.7	13.6	22.4	8.9	769.2
Value of work yet to be done	472.2	391.4	289.6	16.5	53.2	7.3	47.8	1.8	1,279.9
Total									
Value of work commenced	572.6	238.0	349.6	69.8	268.3	10.8	66.0	33.9	1,609.0
Value of work done	507.2	277.4	406.2	88.6	334.8	20.5	54.1	27.9	1,716.5
Value of work yet to be done	941.2	585.4	438.1	49.8	430.1	10.3	69.5	28.6	2,553.0
MARCH QUARTER 1994									
<i>For the private sector</i> —									
Value of work commenced	375.9	168.0	150.7	37.6	154.3	12.9	7.8	14.4	921.6
Value of work done	215.8	200.9	157.5	51.5	253.8	8.8	19.8	15.8	923.9
Value of work yet to be done	646.8	189.4	139.1	21.7	429.2	7.2	10.6	24.8	1,468.9
<i>For the public sector</i> —									
Value of work commenced	329.8	163.9	187.8	47.0	66.4	14.0	9.2	18.6	836.7
Value of work done	385.7	154.3	145.2	31.4	68.9	14.9	13.4	8.9	822.6
Value of work yet to be done	451.4	413.9	346.9	33.6	51.9	6.5	42.9	11.8	1,358.9
Total									
Value of work commenced	705.7	331.9	338.5	84.7	220.7	27.0	17.0	33.0	1,758.4
Value of work done	601.5	355.1	302.7	82.9	322.7	23.7	33.2	24.6	1,746.5
Value of work yet to be done	1,098.2	603.3	486.1	55.3	481.1	13.6	53.5	36.5	2,827.7

**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	
	Dec. qtr 1993	Mar. qtr 1994	Dec. qtr 1993	Mar. qtr 1994	Dec. qtr 1993	Mar. qtr 1994
COMMONWEALTH GOVERNMENT						
NSW	121.8	133.0	122.2	133.4	2.3	1.9
Vic.	78.3	62.1	78.4	62.1	—	—
Qld	102.9	86.5	103.5	86.7	0.9	0.7
SA	31.0	31.5	31.1	31.5	—	—
WA	37.7	30.6	37.7	30.6	0.1	0.1
Tas.	6.8	5.4	6.8	5.4	—	—
NT	6.3	6.4	6.3	6.4	—	—
ACT	6.0	6.5	6.1	6.6	0.4	0.3
Australia	390.9	362.1	392.2	362.9	3.8	3.0
STATE AND TERRITORY GOVERNMENT						
NSW	r	87.4	215.2	176.0	619.6	433.2
Vic.	99.7	136.7	114.5	138.2	261.9	343.1
Qld	67.9	110.6	106.3	114.8	414.8	397.5
SA	61.5	36.0	49.3	44.8	111.8	103.4
WA	61.2	71.5	65.2	58.4	46.5	61.3
Tas.	11.7	11.1	24.1	20.4	58.2	49.9
NT	0.7	0.6	1.1	1.7	3.9	2.8
ACT(a)	6.6	6.5	7.9	8.7	10.6	8.4
Australia	369.3	460.3	583.7	563.1	1,527.3	1,399.6
LOCAL GOVERNMENT						
NSW	r	168.9	134.4	142.5	130.7	145.3
Vic.	51.0	47.0	38.0	54.3	40.3	43.2
Qld	75.6	77.3	100.8	79.0	126.8	124.1
SA	21.7	17.6	18.8	20.0	20.4	19.1
WA	30.2	28.4	29.1	32.1	44.7	40.5
Tas.	5.7	2.8	8.4	5.8	11.7	8.9
NT	0.1	0.1	0.2	0.2	0.2	0.2
ACT	—	—	—	—	—	—
Australia	279.0	342.1	329.8	333.9	374.8	381.3
TOTAL GOVERNMENT						
NSW	r	389.3	471.9	451.9	752.6	580.5
Vic.	229.0	245.8	230.9	254.7	302.2	386.4
Qld	246.4	274.4	310.6	280.6	542.6	522.3
SA	114.1	85.1	99.2	96.3	132.1	122.5
WA	129.1	130.5	132.1	121.1	91.3	101.8
Tas.	24.2	19.3	39.3	31.7	70.0	58.7
NT	7.2	7.1	7.7	8.3	4.1	3.0
ACT	12.6	13.0	14.0	15.4	11.1	8.7
Australia	1,039.2	1,164.6	1,305.7	1,259.9	1,905.9	1,783.9

(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	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	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	2.4
Qld	2.2	14.7	0.1	7.6	7.2	20.5	4.3	66.5	16.8	—	—	—	2.4
SA	5.1	—	—	—	—	7.0	—	14.4	17.1	—	1.1	—	3.7
WA	7.0	—	—	—	—	6.9	16.0	—	15.6	—	7.2	6.2	1.6
Tas.	8.6	—	—	—	—	16.5	65.6	—	53.5	—	47.0	—	9.2
NT	2.9	—	—	—	—	21.8	14.1	—	15.7	—	—	—	2.7
ACT	0.7	—	—	—	—	—	55.5	—	38.2	—	—	—	11.7
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	—	—	—	1.8
Vic.	8.4	8.3	—	—	6.2	4.3	1.3	—	17.1	—	—	—	0.6
Qld	4.0	3.4	—	—	2.5	10.7	—	—	6.3	—	—	—	2.1
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	—	—	0.6
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	—	4.8
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	Telecommu- nications	Manufactures	Heavy industry													
												Oil, gas, coal and other minerals	Other heavy industry	Total											
BY THE PRIVATE SECTOR																									
BY THE PUBLIC 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	1.7											
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	—	—	—	26.7	2.0											
SA	4.5	—	—	—	—	—	9.3	—	15.3	—	1.2	—	—	3.3											
WA	4.4	—	—	—	—	4.6	4.3	—	16.0	—	1.8	10.6	—	1.1											
Tas.	13.4	—	—	—	—	22.2	23.3	—	40.7	—	45.8	—	—	12.1											
NT	3.5	—	—	—	—	4.1	17.0	—	17.1	—	—	—	—	2.1											
ACT	8.3	—	—	—	—	—	26.9	—	41.0	—	—	—	—	10.2											
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	0.9											
TOTAL																									
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	—	—	—	17.0											
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	—	—	—	3.1											
Tas.	2.6	—	—	—	—	5.7	6.3	—	—	34.7	—	—	—	1.7											
NT	—	—	—	—	—	—	—	—	—	—	—	—	—	—											
ACT	—	—	—	—	—	—	—	—	—	—	—	—	—	—											
Australia	1.5	2.0	—	—	—	1.6	2.0	0.8	1.8	3.8	—	—	—	3.6											

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	Transmission and distribution	Pipelines	Recreation	Telecommu- nications	Heavy industry		
											Oil, gas, coal and other minerals	Other heavy industry	Total
											Heavy industry	Other heavy industry	Other
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	—	—	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	—	—	—	0.8
SA	1.8	—	—	—	—	36.3	—	0.8	26.5	—	—	—	1.4
WA	4.1	—	—	—	0.1	9.2	—	—	7.0	—	2.7	2.5	1.0
Tas.	31.1	—	—	—	18.3	15.2	—	—	—	—	22.8	—	—
NT	0.4	—	—	—	7.7	9.0	—	—	27.2	—	—	—	20.0
ACT	13.0	—	—	—	—	18.8	—	—	43.0	—	—	—	1.1
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	—	7.4	—	—	—
Vic.	15.4	8.1	—	—	—	5.7	2.9	2.1	—	18.5	—	—	1.2
Qld	3.0	4.3	—	—	—	0.5	17.0	—	—	2.8	—	—	2.7
SA	15.8	55.1	—	—	—	0.1	2.1	—	—	14.5	—	—	1.5
WA	6.2	2.3	—	—	—	15.7	7.3	—	—	6.3	—	—	3.7
Tas.	16.0	—	—	—	—	2.6	11.0	—	—	2.7	—	—	3.8
NT	—	—	—	—	—	—	—	—	—	—	—	—	1.7
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
Vic.	4.0	2.5	—	10.5	4.5	1.8	1.4	0.2	15.9	0.2	0.4	0.6	0.6
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	1.3
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*
- (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.

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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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