

ENGINEERING CONSTRUCTION ACTIVITY, AUSTRALIA JUNE QUARTER 1994

NOTE: Seasonally adjusted estimates in this bulletin have been revised following the annual re-analysis of seasonal factors. See Explanatory Notes paragraph 15.

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 June quarter 1994 was \$2,987.3m, a decrease of 0.5 per cent from the March quarter 1994 estimate but still 1.4 per cent above the June 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)

	June qtr 1994	Percentage movement	
		From Mar. qtr 1994	From June qtr 1993
For private sector	\$893.9m	-5.7	+20.1
For public sector	\$2,093.4m	+1.9	-4.9
Total	\$2,987.3m	-0.5	+1.4

While total engineering construction activity decreased by 0.5 per cent, the value of work done for the public sector rose by 1.9 per cent (work undertaken by its own workforce increased by 8.4 per cent whereas work

contracted to the private sector decreased by 8.4 per cent). The value of work done for the private sector fell by 5.7 per cent, from a very high base, but remains 20.1 per cent above the level recorded twelve months earlier.

In 1993-94 the total value of *work done* rose by 8.4 per cent from the 1992-93 estimate and was 11.8 per cent higher than the 1991-92 estimate. Increases from 1992-93 occurred in work done for both the private sector (up 24.6%) and for the public sector (up 2.8%). The value of work done for the public sector but undertaken by the private sector rose 14.6 per cent. This was offset to a small extent by a fall of 3.1 per cent in work undertaken by the public sector's own workforce.

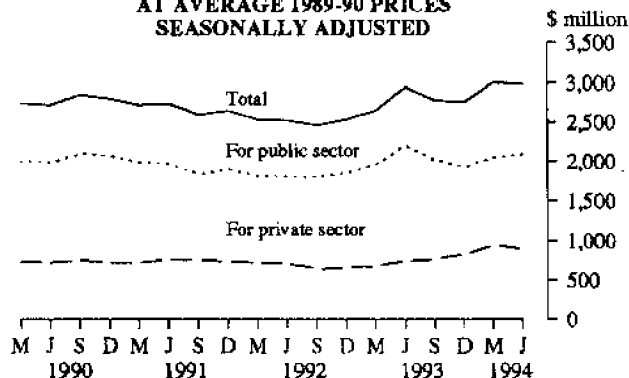
At current prices

In original, current price terms, the *value of work done* during the June quarter 1994 was \$3,547.9m, an increase of 15.8 per cent over the March quarter 1994 estimate.

Activity increased across all States with the most significant increases occurring in New South Wales (16.2%), Queensland (24.8%) and Victoria (14.7%).

Activity rose in most construction categories, with the most significant increases reported in Roads, highways and subdivisions (27.7%), Railways (53.6%), and Telecommunications (29.0%). Significant decreases were reported in the Water storage and supply (-40.2%) and Other heavy industry (-49.6%) categories.

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



Engineering Construction Activity

For the Private Sector

At current prices

The *value of work commenced* during the June quarter 1994 was \$668.7m, a decrease of 31.3 per cent from the March quarter 1994 estimate. Decreases were reported in eight of the twelve categories with the most significant occurring in the Heavy industry (-44.5%) and Water storage and supply (-78.9%) categories. Roads, highways and subdivisions, Bridges, Electricity generation, transmission and distribution and the residual 'Other' category recorded slight gains.

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.

The *value of work commenced* for the private sector during the 1993-94 financial year was \$3,472.9m, a 16.2 per cent increase over the 1992-93 estimate. The largest increases were in the Heavy industry (38.8%) and Water storage and supply (142.3%) categories. Roads, highways and subdivisions, Bridges, Railways, Harbours and Recreation recorded slight rises, with the remaining categories recording falls, the most notable being in the Telecommunications (-65.6%) and Pipelines (-51.6%) categories. Of all engineering construction work commenced in 1993-94, 72.5 per cent was in the Roads, highways and subdivisions and Heavy industry categories.

The *value of work done* in the June quarter 1994 was \$933m, a decrease of 4.2 per cent from the March quarter 1993 estimate. Decreases were recorded in most categories with the most significant being the Heavy industry (-10.1%) category. Small rises were recorded in the Electricity generation, transmission and distribution, Harbours, Water storage and supply and Roads, highways and subdivisions categories.

The *value of work done* during 1993-94 was \$3,707.1m, an increase of 23.7 per cent from the 1992-93 estimate. The major contributors to this increase were a 28.0 per cent increase in Heavy industry and a 16.3 per cent increase in Roads, highways and subdivisions, the two dominant areas for private sector engineering construction activity.

Although the *value of work yet to be done* fell by 16.5 per cent to \$1,212.8m in the June quarter, the figure is still 20.6 per cent higher than the June 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 June quarter 1994 was \$2,437m, an increase of 21.2 per cent from the March quarter 1994 estimate. The most significant increases were recorded in the

categories of Electricity generation, transmission and distribution (177.4%), Railways (97.9%) and Telecommunications (26.0%). Water storage and supply (-62.3%) and Bridges (-62.2%) recorded the largest decreases in commencements for the June quarter 1994.

The *value of engineering work done* for the public sector (\$2,614.9m) rose 25.2 per cent in the June quarter 1994, due to an increase of 42.3 per cent in the work done by its own workforce. This increase in work done occurred at all levels of Government: Commonwealth, by \$359.0m (64.0%), State and Territory, by \$94.9m (26.2%) and Local Government, which had an increase of \$78.3m (23.5%). State and Territory governments' expenditure by their own workforces contributed 51.4 per cent of the total government expenditure for the June quarter estimate.

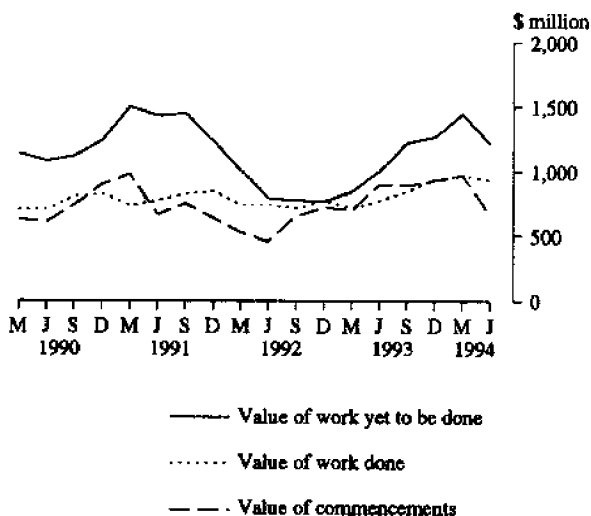
The value of public sector work contracted out to the private sector was \$825.4m, a decrease of 0.8 per cent from the March quarter estimate of \$832.2m.

The *value of engineering work commenced* for the public sector during 1993-94 was \$8,761.9m, an increase of 3.7 per cent over the 1992-93 figure, and 17.0 per cent higher than the 1991-92 estimate. The most significant increases were recorded in the Railways (56.7%), Electricity generation, transmission and distribution (22.9%), Bridges (41.2%) and Pipelines (126.6%) categories.

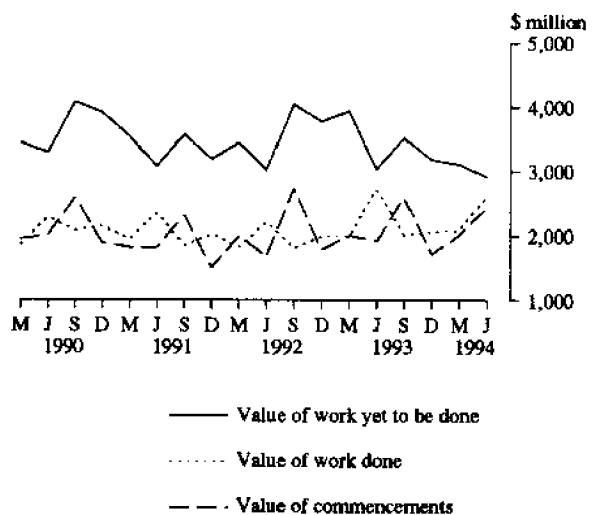
The *value of work done* for the public sector during 1993-94 was \$8,790.1m, a 3.1 per cent increase over the 1992-93 estimate. Roads, highways and subdivisions increased by 8.3 per cent and now make up 35.8 per cent of all public sector activity. (This is comparable to the 34.1 per cent recorded in 1992-93).

The *value of work yet to be done* for the public sector at the end of the June quarter 1994 was \$2,918.9m, a decrease of 6.1 per cent from the March quarter 1994 estimate.

ENGINEERING CONSTRUCTION ACTIVITY
FOR PRIVATE SECTOR



ENGINEERING CONSTRUCTION ACTIVITY
FOR PUBLIC SECTOR



**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						
1991-92	3,168.2	2,692.4	5,860.6	5,230.4	7,922.7	11,091.0
1992-93	2,996.5	2,846.9	5,843.4	5,681.4	8,528.3	11,524.8
1993-94	3,707.1	3,269.1	6,976.3	5,521.0	8,790.1	12,497.2
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 r	973.6	832.2	1,805.8	1,257.3	2,089.4	3,063.1
June qtr	933.0	825.4	1,758.4	1,789.5	2,614.9	3,547.9
SEASONALLY ADJUSTED †						
1993 Mar. qtr	752.1	746.6	1,498.7	1,371.6	2,118.2	2,870.3
June qtr	808.4	854.1	1,662.5	1,536.2	2,390.2	3,198.6
Sept. qtr	832.9	847.0	1,679.9	1,327.9	2,174.9	3,007.7
Dec. qtr	891.3	762.4	1,653.7	1,321.2	2,083.6	2,974.9
1994 Mar. qtr r	1,026.0	864.5	1,890.5	1,355.2	2,219.6	3,245.6
June qtr	967.0	797.4	1,764.4	1,479.1	2,276.5	3,243.5

(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
(\$ 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						
1991-92	2,923.4	2,502.5	5,425.9	4,901.6	7,404.1	10,327.5
1992-93	2,750.0	2,619.7	5,369.6	5,277.9	7,997.6	10,647.5
1993-94	3,426.5	3,002.8	6,429.3	5,116.4	8,119.2	11,545.7
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	1,084.4	1,859.7	2,646.4
Dec. qtr	877.7	710.3	1,588.0	1,212.2	1,922.5	2,800.2
1994 Mar. qtr r	899.6	765.0	1,664.5	1,168.3	1,933.3	2,832.8
June qtr	862.5	752.2	1,614.8	1,651.5	2,403.7	3,266.3
SEASONALLY ADJUSTED †						
1993 Mar. qtr	689.7	686.2	1,375.9	1,273.4	1,959.6	2,649.3
June qtr	744.2	782.5	1,526.7	1,419.4	2,201.9	2,946.1
Sept. qtr	768.0	778.4	1,546.4	1,232.3	2,010.7	2,778.7
Dec. qtr	825.8	703.2	1,529.0	1,226.6	1,929.8	2,755.6
1994 Mar. qtr r	948.0	795.1	1,743.1	1,259.2	2,054.3	3,002.3
June qtr	893.9	728.4	1,622.3	1,365.0	2,093.4	2,987.3

(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	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecommunications	Heavy industry	Other	Total
FOR THE PRIVATE SECTOR													
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	2,378.9
1992-93	1,019.3	4.8	16.5	26.6	124.6	107.8	121.5	190.4	209.2	109.0	1,036.4	23.3	2,989.4
1993-94	1,080.6	8.3	46.3	45.4	301.9	79.1	111.9	92.1	228.7	37.5	1,438.1	3.1	3,472.9
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	706.2
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	901.5
Sept. qtr	246.2	—	19.4	6.5	112.3	19.2	39.4	35.7	63.0	3.3	349.5	1.9	896.3
Dec. qtr	265.4	5.0	7.1	1.7	30.1	15.6	37.7	30.5	71.9	12.1	457.6	0.3	935.0
1994 Mar. qtr	278.7	1.1	17.3	18.8	131.7	23.2	12.3	13.5	49.5	20.8	405.7	0.4	973.0
June qtr	290.4	2.1	2.5	18.4	27.8	21.0	22.5	12.5	44.4	1.4	225.2	0.5	668.7
FOR THE PUBLIC SECTOR													
1991-92	868.6	167.3	109.0	109.8	242.5	173.1	479.9	7.0	42.4	13.9	89.7	5.6	2,308.9
1992-93	1,513.2	126.1	67.6	48.3	163.0	271.7	253.5	25.4	68.7	49.6	35.5	8.6	2,631.2
1993-94	1,241.7	222.7	332.3	89.0	258.8	271.1	644.2	20.5	41.5	15.2	55.5	1.9	3,194.4
1993 Mar. qtr	474.8	60.9	14.4	19.8	22.9	38.5	62.0	11.6	29.5	40.1	13.3	2.8	798.6
June qtr	365.9	26.6	17.7	15.1	26.1	62.9	55.3	2.3	14.1	4.0	12.6	2.0	604.6
Sept. qtr	218.8	51.0	42.1	36.7	34.4	113.1	83.0	1.8	13.9	5.3	12.5	0.8	613.2
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	674.0
1994 Mar. qtr	383.0	109.6	72.0	19.0	168.2	27.3	24.4	4.2	10.9	3.2	19.2	1.0	841.9
June qtr	340.6	28.6	110.9	5.4	29.5	70.7	443.3	12.5	8.2	2.7	12.8	0.1	1,065.2
TOTAL													
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	4,687.9
1992-93	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	5,620.5
1993-94	2,322.3	231.0	378.5	134.4	560.7	350.1	756.1	112.7	270.2	52.7	1,493.5	5.0	6,667.3
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	1,496.8
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	1,506.1
Sept. qtr	464.9	51.0	61.4	43.2	146.7	132.3	122.3	37.5	76.9	8.5	362.0	2.7	1,509.6
Dec. qtr	564.7	38.5	114.4	29.7	56.8	75.6	131.3	32.5	80.4	16.1	468.6	0.4	1,609.0
1994 Mar. qtr	661.7	110.7	89.3	37.7	299.9	50.5	36.7	17.7	60.4	23.9	424.9	1.4	1,814.9
June qtr	631.0	30.7	113.4	23.8	57.2	91.7	465.8	25.0	52.6	4.1	238.0	0.6	1,733.9

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

Period	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecom- munications	Heavy industry	Other	Total		
													Original	Seasonally adjusted	
FOR THE PRIVATE SECTOR															
1991-92	1,038.2	12.0	33.3	30.1	59.8	56.6	99.9	99.3	183.4	6.9	1,517.5	31.4	3,168.2	..	
1992-93	982.9	3.0	12.6	32.9	82.4	74.7	79.5	188.5	220.7	69.6	1,232.4	17.3	2,996.5	..	
1993-94	1,142.9	10.4	40.7	69.0	144.7	108.5	152.3	141.6	222.0	82.6	1,585.2	7.3	3,707.1	..	
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	752.1	
June qtr	266.5	0.8	7.2	10.1	27.5	17.0	24.0	62.7	47.2	35.1	276.7	4.2	778.8	808.4	
Sept. qtr	267.0	1.6	11.6	12.7	25.0	23.8	28.2	37.4	60.2	32.4	350.2	3.1	853.2	832.9	
Dec. qtr	279.5	3.3	11.7	14.3	34.9	33.7	37.4	57.3	65.4	19.8	389.6	0.4	947.3	891.3	
1994 Mar. qtr	294.3	3.1	10.0	18.7	39.9	29.5	37.5	26.7	50.1	15.6	445.2	3.1	973.6	1,026.0	
June qtr	302.1	2.5	7.4	23.4	45.0	21.5	49.2	20.2	46.3	14.7	400.1	0.7	933.0	967.0	
FOR THE PUBLIC SECTOR															
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	1,282.9	103.1	107.1	95.6	233.5	219.2	595.1	23.3	65.8	22.9	88.0	10.4	2,846.9	..	
1993-94	1,429.3	205.8	222.8	103.6	330.6	241.1	551.8	14.2	53.9	30.4	82.9	2.7	3,269.1	..	
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	746.6	
June qtr	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	854.1	
Sept. qtr	368.2	48.3	21.3	26.9	42.2	59.9	222.4	4.6	19.3	9.0	18.3	1.9	842.3	847.0	
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	762.4	
1994 Mar. qtr	333.9	46.7	67.1	30.0	183.7	47.1	79.8	2.3	9.8	4.9	26.2	0.6	832.2	864.5	
June qtr	386.9	66.1	90.0	21.3	48.2	71.7	93.2	4.7	11.1	10.7	19.4	0.1	825.4	797.4	
TOTAL															
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	..	
1993-94	2,572.1	216.2	263.5	172.6	475.3	349.6	704.1	155.8	275.9	113.0	1,668.1	9.9	6,976.3	..	
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	1,498.7	
June qtr	723.0	36.9	33.8	39.9	95.0	82.2	157.9	70.7	67.0	44.8	301.6	9.1	1,662.0	1,662.5	
Sept. qtr	635.2	49.9	32.9	39.6	67.1	83.7	250.6	42.0	79.5	41.5	368.5	5.0	1,695.5	1,679.9	
Dec. qtr	619.7	48.0	56.1	37.6	91.5	96.1	193.7	60.0	79.2	25.5	408.7	0.5	1,716.5	1,653.7	
1994 Mar. qtr	628.2	49.7	77.1	48.6	223.6	76.6	117.3	29.0	59.9	20.6	471.4	3.7	1,805.8	1,890.5	
June qtr	689.0	68.6	97.4	46.7	93.1	93.2	142.5	24.9	57.4	25.5	419.5	0.7	1,758.4	1,764.4	

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	Harbour	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecommunications	Heavy industry	Other	Total
1991-92	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
1992-93	236.6	3.7	5.1	27.8	43.8	38.9	61.3	60.0	11.6	55.7	458.5	2.6	1,005.5
1993-94	215.1	2.0	18.1	12.0	191.1	12.1	52.7	8.9	12.8	8.2	679.9	—	1,212.8
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	709.5	0.3	1,273.1
1994 Mar. qtr	222.8	1.9	19.6	16.6	207.4	11.6	76.8	17.8	16.8	24.3	835.4	1.2	1,452.2
June qtr	215.1	2.0	18.1	12.0	191.1	12.1	52.7	8.9	12.8	8.2	679.9	—	1,212.8
FOR THE PUBLIC SECTOR													
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
1993-94	348.8	96.9	155.2	28.6	95.5	197.8	638.9	10.2	4.6	19.5	29.5	—	1,625.3
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	385.0	157.0	139.5	43.2	114.8	194.3	270.9	2.4	11.8	26.4	37.1	0.3	1,382.6
June qtr	348.8	96.9	155.2	28.6	95.5	197.8	638.9	10.2	4.6	19.5	29.5	—	1,625.3
TOTAL													
1991-92	440.3	93.7	70.3	118.0	174.3	81.4	655.1	49.4	32.7	22.8	528.6	1.5	2,268.3
1992-93	738.9	115.3	39.1	70.7	163.1	200.9	525.5	62.3	29.1	89.6	514.9	4.0	2,553.5
1993-94	563.9	98.9	173.3	40.5	286.5	209.9	691.7	19.1	17.4	27.6	709.3	—	2,838.2
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	2,553.5
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	2,578.0
Dec. qtr	564.1	98.0	128.1	66.5	213.5	208.7	435.3	31.4	26.2	47.0	733.8	0.3	2,553.0
1994 Mar. qtr	607.8	158.8	159.1	59.8	322.2	205.9	347.7	20.2	28.6	50.8	872.4	1.5	2,834.7
June qtr	563.9	98.9	173.3	40.5	286.5	209.9	691.7	19.1	17.4	27.6	709.3	—	2,838.2

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

Period	VALUE OF WORK COMMENCED DURING PERIOD										Heavy industry		Total	
	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecommunications	Oil, gas, coal and other minerals	Other heavy industry		
1991-92	1,248.8	80.6	360.3	11.2	289.8	289.8	966.4	44.3	61.5	1,790.4	24.2	—	12.8	5,180.1
1992-93	1,710.7	117.8	474.4	18.2	317.5	386.2	865.0	32.2	106.2	1,778.9	0.2	—	14.9	5,822.1
1993-94	1,762.0	121.7	516.9	18.1	236.9	334.5	730.5	110.0	94.4	1,611.6	20.5	—	10.5	5,567.6
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	1,214.1
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	1,314.4
Sept. 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	1,987.6
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	1,039.2
1994 Mar. qtr	375.9	12.2	35.8	5.5	52.2	62.1	206.7	33.2	16.9	362.0	3.3	—	2.7	1,168.5
June qtr	363.2	17.5	102.4	3.9	53.8	87.8	197.7	60.6	20.1	457.3	5.1	—	3.0	1,372.3
VALUE OF WORK DONE DURING PERIOD														
1991-92	1,292.9	82.1	347.9	17.0	408.7	372.6	789.5	44.3	64.9	1,770.7	23.8	—	15.9	5,230.4
1992-93	1,623.3	118.3	410.0	19.2	388.2	360.0	847.4	31.8	81.7	1,771.4	17.0	—	13.1	5,681.4
1993-94	1,719.3	113.9	476.6	27.9	265.4	281.9	790.5	106.4	102.1	1,599.6	23.5	2.0	11.7	5,521.0
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	1,269.5
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	1,851.3
Sept. 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	1,168.5
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	1,305.7
1994 Mar. qtr	366.9	24.4	106.0	7.4	56.4	61.6	207.9	33.3	18.3	367.4	4.7	0.1	2.9	1,257.3
June qtr	582.9	42.3	183.8	5.2	74.4	80.9	242.2	63.7	27.6	475.0	6.3	1.9	3.3	1,789.5
VALUE OF WORK YET TO BE DONE														
1991-92	291.1	20.5	80.8	5.0	375.8	357.1	362.1	1.1	17.1	34.7	0.5	—	2.4	1,548.2
1992-93	308.4	22.4	123.7	4.6	236.1	310.7	419.9	0.1	36.4	22.1	7.9	—	3.2	1,495.4
1993-94	268.6	19.5	137.5	2.0	176.6	276.5	333.9	3.6	18.3	26.2	30.6	0.3	0.2	1,293.6
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	2,150.7
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	1,495.4
Sept. 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	1,905.9
1994 Mar. qtr	503.9	43.1	232.4	2.6	185.3	271.4	375.9	6.7	25.1	43.8	34.4	2.1	0.3	1,727.2
June qtr	268.6	19.5	137.5	2.0	176.6	276.5	333.9	3.6	18.3	26.2	30.6	0.3	0.2	1,293.6

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	Heavy industry				Total		
								Pipelines	Recreation	Telecommunications	Oil, gas, coal and other minerals		Other heavy industry	
VALUE OF WORK COMMENCED DURING PERIOD														
1991-92	2,117.4	247.9	469.4	121.1	532.2	462.9	1,446.3	51.3	103.8	1,804.4	104.9	8.9	18.4	7,489.0
1992-93	3,223.9	243.9	542.0	66.5	480.5	657.8	1,118.5	57.6	174.9	1,828.4	21.8	13.8	23.6	8,453.3
1993-94	3,003.7	344.4	849.2	107.1	495.7	605.6	1,374.8	130.5	135.8	1,626.8	64.6	11.3	12.4	8,761.9
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	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	931.9	111.7	408.0	39.7	116.9	227.6	279.4	5.7	51.0	406.4	14.4	4.9	3.2	2,600.8
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	1,713.2
1994 Mar. qtr	758.9	121.9	107.8	24.4	220.4	89.4	231.1	37.4	27.7	365.2	21.2	1.3	3.6	2,010.4
June qtr	703.8	46.1	213.3	9.3	83.2	158.5	641.0	79.1	28.4	460.0	16.9	0.9	3.0	2,437.5
VALUE OF WORK DONE DURING PERIOD														
1991-92	2,252.6	245.1	443.3	56.6	695.4	541.6	1,497.2	52.7	155.5	1,801.6	149.5	7.1	24.4	7,922.7
1992-93	2,906.3	221.4	517.1	114.8	621.7	579.3	1,442.5	55.2	147.5	1,794.3	73.1	31.8	23.5	8,528.3
1993-94	3,148.6	319.7	699.4	131.5	596.0	523.0	1,342.3	120.7	156.1	1,630.0	74.4	34.0	14.4	8,790.1
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	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	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	2,010.9
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	2,074.9
1994 Mar. qtr	700.9	71.1	173.1	37.4	240.1	108.7	287.7	35.6	28.1	372.3	21.3	9.7	3.5	2,089.4
June qtr	969.8	108.4	273.8	28.6	122.6	152.6	335.4	68.4	38.7	485.7	17.4	10.1	3.3	2,614.9
VALUE OF WORK YET TO BE DONE														
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	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
1993-94	617.3	116.4	292.7	30.6	272.1	474.3	972.8	13.8	22.8	45.7	49.1	11.2	0.2	2,918.9
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	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	1,030.9	169.7	451.4	58.8	336.4	502.4	800.8	—	52.6	82.6	37.5	4.3	0.9	3,528.3
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	3,185.8
1994 Mar. qtr	889.0	200.0	371.8	45.8	300.1	465.7	646.8	9.1	36.9	70.3	51.3	22.4	0.7	3,109.8
June qtr	617.3	116.4	292.7	30.6	272.1	474.3	972.8	13.8	22.8	45.7	49.1	11.2	0.2	2,918.9

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

Period	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Australia
VALUE OF WORK COMMENCED DURING PERIOD									
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
1993-94	4,335.2	2,174.9	2,693.1	657.7	1,786.6	185.0	234.7	167.5	12,234.9
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	1,130.0	593.4	620.2	176.2	349.5	44.3	24.1	45.8	2,983.4
June qtr	784.7	625.3	684.5	165.5	686.8	48.7	74.3	36.5	3,106.2
VALUE OF WORK DONE DURING PERIOD									
1991-92	4,015.3	1,915.7	2,283.5	763.7	1,506.1	302.6	136.9	167.2	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
1993-94	4,227.9	2,319.0	2,793.8	734.1	1,803.7	242.7	208.8	167.2	12,497.2
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	2,864.0
Dec. qtr	979.1	508.3	716.7	187.8	466.8	59.8	61.8	41.9	3,022.2
1994 Mar. qtr	1,088.4	613.9	599.5	182.0	441.4	55.5	42.6	39.7	3,063.1
June qtr	1,264.5	703.0	748.3	197.3	469.2	70.1	53.5	42.1	3,547.9
VALUE OF WORK YET TO BE DONE									
1991-92	1,256.6	641.6	1,040.6	128.7	449.3	188.5	52.8	58.3	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
1993-94	1,185.5	851.6	962.3	168.6	789.1	56.3	78.7	39.7	4,131.8
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	1,696.2	938.6	1,005.0	174.2	575.1	70.8	56.6	45.3	4,561.9
June qtr	1,185.5	851.6	962.3	168.6	789.1	56.3	78.7	39.7	4,131.8

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	Heavy industry				Total		
								Pipelines	Recreation	Telecomm- unications	Oil, gas, coal and other minerals		Other heavy industry	
BY THE PRIVATE SECTOR														
<i>March qtr 1994 — r</i>														
NSW	203.7	49.5	25.2	0.1	225.0	19.2	17.6	5.1	16.2	15.4	140.5	21.3	1.1	740.0
Vic.	156.6	0.4	3.9	—	56.1	4.2	5.5	1.2	11.1	2.9	13.5	84.1	0.3	339.7
Qld	123.2	47.1	56.6	6.7	8.2	15.4	10.2	3.3	20.8	2.8	46.0	6.9	—	347.3
SA	51.2	—	0.6	0.1	3.4	1.7	1.2	4.1	7.5	0.5	5.0	17.2	—	92.4
WA	82.5	10.6	3.0	27.5	3.1	5.7	0.7	3.7	1.6	—	80.9	1.5	—	220.9
Tas.	12.6	—	—	3.3	1.0	3.5	—	—	0.6	1.7	1.2	1.1	—	24.9
NT	5.7	3.1	—	—	0.2	—	1.5	—	0.7	—	5.3	0.4	—	16.9
ACT	26.2	—	—	—	2.9	0.8	—	0.3	1.9	0.6	—	—	—	32.7
Australia	661.7	110.7	89.3	37.7	299.9	50.5	36.7	17.7	60.4	23.9	292.4	132.5	1.4	1,814.9
<i>June qtr 1994 — r</i>														
NSW	185.9	4.8	39.2	6.2	24.1	20.3	51.1	6.6	18.6	0.9	40.6	27.7	0.4	426.4
Vic.	143.4	1.8	15.7	0.6	5.0	47.5	10.3	1.3	11.5	0.7	12.2	3.0	0.1	252.9
Qld	137.9	22.1	56.2	1.3	19.4	8.1	13.0	3.9	15.1	0.4	30.2	7.0	0.1	314.7
SA	32.3	—	1.7	0.1	3.0	1.4	2.2	2.2	2.2	—	9.8	19.4	—	74.4
WA	81.6	—	0.7	2.8	5.1	8.8	385.5	1.2	1.5	—	63.4	10.2	—	561.0
Tas.	6.8	2.1	—	—	0.3	1.3	—	—	0.6	2.1	1.0	1.2	—	15.5
NT	25.5	—	—	12.8	0.2	0.3	3.6	9.4	1.4	—	12.3	—	—	65.7
ACT	17.5	—	—	—	—	3.8	—	0.4	1.5	—	—	—	—	23.3
Australia	631.0	30.7	113.4	23.8	57.2	91.7	465.8	25.0	52.6	4.1	169.5	68.5	0.6	1,733.9
BY THE PUBLIC SECTOR														
<i>March qtr 1994 — r</i>														
NSW	135.9	3.6	—	—	7.9	15.6	86.6	0.2	4.9	132.8	—	—	2.4	390.0
Vic.	52.4	1.9	7.1	—	10.3	23.6	63.3	31.2	1.8	62.2	—	—	—	253.7
Qld	111.8	1.0	14.0	5.0	8.6	7.0	31.1	—	4.4	86.7	3.3	—	—	272.9
SA	20.3	0.1	0.1	0.3	9.0	5.4	14.9	—	2.0	31.5	—	—	0.2	83.8
WA	44.2	3.4	14.6	0.2	15.8	7.2	7.5	1.8	3.4	30.6	—	—	—	128.6
Tas.	11.0	2.1	—	0.1	0.2	0.1	—	—	0.3	5.4	—	—	—	19.3
NT	0.1	—	—	—	0.2	0.2	0.2	—	0.1	6.4	—	—	—	7.1
ACT	0.2	—	—	—	0.2	3.1	3.1	—	—	6.5	—	—	—	13.0
Australia	375.9	12.2	35.8	5.5	52.2	62.1	206.7	33.2	16.9	362.0	3.3	—	2.7	1,168.5

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 and drainage	Electricity generation, transmission and distribution	Heavy industry			Total		
								Pipelines	Telecom- munications	Oil, gas, coal and other minerals		Other heavy industry	
BY THE PUBLIC SECTOR—continued													
June qtr 1994—													
NSW	152.5	4.6	—	—	3.4	10.6	51.8	0.4	6.6	125.4	—	2.9	358.3
Vic.	55.1	3.4	11.2	—	7.8	36.1	82.4	58.2	6.1	109.4	2.8	—	372.4
Qld	101.0	5.9	85.0	3.0	13.0	10.2	30.3	—	3.2	115.8	2.2	0.1	369.8
SA	15.3	—	0.1	—	9.8	13.6	14.4	—	1.5	36.3	—	—	91.1
WA	19.8	0.9	6.1	0.4	19.1	16.3	11.6	2.0	2.2	47.2	—	—	125.8
Tas.	19.4	2.7	—	0.4	0.1	0.5	—	—	0.5	9.5	—	—	33.2
NT	—	—	—	—	0.2	—	0.8	—	—	7.4	—	—	8.5
ACT	—	—	—	—	0.4	0.4	6.3	—	—	6.2	—	—	13.2
Australia	363.2	17.5	102.4	3.9	53.8	87.8	197.7	60.6	20.1	457.3	5.1	3.0	1,372.3
TOTAL													
March qtr 1994—													
NSW	339.6	53.2	25.2	0.1	232.9	34.8	104.2	5.3	21.2	148.2	140.5	21.3	1,130.0
Vic.	208.9	2.3	11.0	—	66.3	27.8	68.8	32.4	12.9	65.0	13.5	84.1	593.4
Qld	235.0	48.1	70.6	11.6	16.8	22.3	41.3	3.3	25.2	89.5	49.3	6.9	620.2
SA	71.6	0.1	0.7	0.4	12.4	7.1	16.0	4.1	9.5	32.0	5.0	17.2	176.2
WA	126.8	14.0	17.6	27.7	18.9	12.9	8.2	5.5	4.9	30.6	80.9	1.5	349.5
Tas.	23.6	2.2	—	3.3	1.2	3.6	—	—	0.9	7.2	1.2	1.1	44.3
NT	5.7	3.1	—	—	0.4	0.2	1.7	—	0.8	6.4	5.3	0.4	24.1
ACT	26.4	—	—	—	3.2	3.8	3.1	0.3	1.9	7.1	—	—	45.8
Australia	1,037.6	123.0	125.1	43.2	352.1	112.6	243.4	50.9	77.2	385.9	295.8	132.5	2,983.4
June qtr 1994—													
NSW	338.4	9.4	39.2	6.2	27.5	31.0	102.9	7.0	25.2	126.3	40.6	27.7	784.7
Vic.	198.4	5.2	26.8	0.6	12.8	83.6	92.6	59.5	17.6	110.1	15.0	3.0	625.3
Qld	238.9	28.0	141.2	4.4	32.4	18.3	43.4	4.0	18.3	116.2	32.4	7.0	684.5
SA	47.7	—	1.8	0.1	12.8	15.0	16.6	2.2	3.9	36.3	9.8	19.4	165.5
WA	101.5	0.9	6.8	3.2	24.2	25.2	397.1	3.2	3.7	47.3	63.4	10.2	686.8
Tas.	26.2	4.7	—	0.5	0.5	1.9	—	—	1.1	11.6	1.0	1.2	48.7
NT	25.6	—	—	12.8	0.4	0.4	4.4	9.4	1.4	7.4	12.3	—	74.3
ACT	17.5	—	—	—	0.4	4.2	6.3	0.4	1.5	6.2	—	—	36.5
Australia	994.2	48.2	215.8	27.7	111.0	179.5	663.5	85.6	72.7	461.4	174.6	68.5	3,106.2

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

Period, State or Territory	Roads, highways and subdivisions	Heavy industry										Total		
		Bridges	Railways	Harbours	Water storage and supply	Sewerage drainage and distribution	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecommu- nications	Oil, gas, coal and other minerals		Other heavy industry	
BY THE PRIVATE SECTOR														
March qtr 1994 — r														
NSW	227.7	20.0	19.1	8.0	170.1	42.3	25.6	10.7	16.4	7.7	61.7	25.0	1.0	635.4
Vic.	131.7	2.9	8.4	—	22.3	11.2	56.2	1.4	11.0	10.8	28.6	75.4	2.8	362.5
Qld	102.8	22.7	40.8	20.2	7.0	16.1	23.5	4.0	19.6	0.4	41.6	20.0	—	318.5
SA	44.3	0.9	0.6	—	2.0	1.7	1.3	1.9	6.3	1.2	9.2	16.0	—	85.2
WA	75.2	2.0	8.3	16.1	19.6	2.5	9.7	10.6	3.1	—	161.3	13.5	—	321.8
Tas.	12.9	0.8	—	2.6	0.8	2.1	0.1	—	0.6	0.5	1.9	1.4	—	23.8
NT	13.3	0.5	—	1.7	1.4	0.1	0.8	—	0.7	—	15.6	0.2	—	34.3
ACT	20.4	—	—	—	0.4	0.7	0.2	0.3	2.3	—	—	—	—	24.3
Australia	628.2	49.7	77.1	48.6	223.6	76.6	117.3	29.0	59.9	20.6	319.9	151.5	3.7	1,805.8
June qtr 1994 —														
NSW	259.4	24.0	22.3	2.8	50.2	30.5	28.6	12.6	19.6	15.1	96.6	35.2	0.6	597.3
Vic.	148.9	4.1	14.9	0.4	16.7	26.6	42.1	1.4	11.2	5.9	29.3	8.4	0.1	309.9
Qld	126.0	34.3	53.3	13.7	14.3	15.4	48.2	4.5	15.6	1.4	36.7	16.3	0.1	379.7
SA	32.2	—	1.6	0.1	3.1	1.9	2.4	4.7	4.2	0.1	9.6	4.8	—	64.7
WA	69.2	4.3	5.4	18.5	6.6	11.6	19.2	1.1	1.5	—	167.9	8.4	—	313.6
Tas.	9.4	2.0	—	1.5	1.3	2.3	0.1	—	0.6	2.3	1.2	1.2	—	21.9
NT	23.0	—	—	9.8	0.4	3.6	1.9	0.3	1.2	—	3.6	0.2	—	44.1
ACT	20.9	—	—	—	0.6	1.4	—	0.4	3.5	0.7	—	—	—	27.4
Australia	689.0	68.6	97.4	46.7	93.1	93.2	142.5	24.9	57.4	25.5	344.9	74.6	0.7	1,758.4
BY THE PUBLIC SECTOR														
March qtr 1994 — r														
NSW	140.9	10.2	52.7	—	9.3	18.5	76.5	0.2	4.7	137.8	—	—	2.4	453.1
Vic.	56.9	3.0	15.2	—	6.2	13.7	59.4	31.2	2.3	62.1	1.4	—	—	251.4
Qld	88.4	8.2	22.7	5.0	13.4	8.9	38.5	—	5.7	86.8	3.3	—	0.1	281.0
SA	27.1	0.1	1.0	1.4	6.8	11.4	14.9	0.1	2.3	31.5	—	0.1	0.2	96.8
WA	37.9	0.8	14.5	1.0	15.8	7.1	7.5	1.8	2.7	30.6	—	—	—	119.6
Tas.	15.6	2.0	—	—	3.4	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	366.9	24.4	106.0	7.4	56.4	61.6	207.9	33.3	18.3	367.4	4.7	0.1	2.9	1,257.3

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	Water storage and supply	Sewerage drainage and distribution	Electricity generation, transmission and distribution	Heavy industry				Total		
								Pipelines	Recreation	Telecom- munications	Oil, gas, coal and other minerals		Other heavy industry	
BY THE PUBLIC SECTOR — continued														
June qtr 1994 —														
NSW	268.6	23.6	127.8	—	13.2	16.2	64.5	0.4	7.3	142.6	—	—	2.9	667.2
Vic.	62.0	4.5	21.6	—	17.7	18.2	90.9	58.2	6.2	109.5	4.1	—	0.2	393.1
Qld	136.5	10.2	18.4	3.0	14.4	13.3	48.2	—	6.3	116.0	2.2	—	0.1	368.6
SA	50.9	0.1	1.0	0.7	7.9	13.1	14.4	3.1	3.2	36.3	—	1.9	—	132.7
WA	38.1	1.3	14.9	1.0	19.2	16.6	11.6	2.0	3.7	47.3	—	—	—	155.6
Tas.	26.5	2.7	—	0.5	0.7	1.2	6.1	—	0.9	9.7	—	—	0.1	48.2
NT	0.2	—	—	—	0.8	0.1	0.9	—	0.1	7.4	—	—	—	9.4
ACT	0.1	—	—	—	0.5	2.3	5.6	—	—	6.2	—	—	—	14.7
Australia	582.9	42.3	183.8	5.2	74.4	80.9	242.2	63.7	27.6	475.0	6.3	1.9	3.3	1,789.5
TOTAL														
March qtr 1994 — r														
NSW	368.5	30.3	71.8	8.0	179.4	60.8	102.1	10.9	21.1	145.5	61.7	25.0	3.4	1,088.4
Vic.	188.6	5.9	23.5	0.1	28.5	24.9	115.5	32.6	13.3	72.9	30.0	75.4	2.8	613.9
Qld	191.2	30.9	63.5	25.1	20.4	25.0	62.0	4.0	25.3	87.2	44.9	20.0	0.1	599.5
SA	71.3	0.9	1.6	1.5	8.8	13.0	16.1	2.0	8.6	32.7	9.2	16.1	0.2	182.0
WA	113.1	2.8	22.8	17.1	35.4	9.6	17.2	12.4	5.8	30.6	161.3	13.5	—	441.4
Tas.	28.5	2.9	—	2.6	4.2	2.9	3.9	—	1.2	6.0	1.9	1.4	0.1	55.5
NT	13.4	0.5	—	1.7	2.5	0.2	1.2	—	0.7	6.4	15.6	0.2	—	42.6
ACT	20.6	—	—	—	0.8	1.8	7.1	0.3	2.3	6.7	—	—	—	39.7
Australia	995.1	74.2	183.1	56.1	280.0	138.2	325.2	62.3	78.2	387.9	324.6	151.6	6.6	3,063.1
June qtr 1994 —														
NSW	528.0	47.6	150.1	2.8	63.4	46.7	93.0	12.9	27.0	157.7	96.6	35.2	3.5	1,264.5
Vic.	210.8	8.6	36.5	0.5	34.4	44.7	133.0	59.6	17.4	115.4	33.4	8.4	0.3	703.0
Qld	262.5	44.4	71.7	16.7	28.7	28.7	96.5	4.5	21.9	117.4	38.9	16.3	0.1	748.3
SA	83.1	0.1	2.7	0.8	11.0	15.0	16.8	7.8	7.4	36.3	9.6	6.7	—	197.3
WA	107.3	5.6	20.3	19.5	25.8	28.1	30.8	3.1	5.1	47.3	167.9	8.4	—	469.2
Tas.	36.0	4.6	—	2.0	1.9	3.5	6.2	—	1.4	12.0	1.2	1.2	0.1	70.1
NT	23.2	—	—	9.8	1.2	3.6	2.9	0.3	1.3	7.4	3.6	0.2	—	53.5
ACT	21.0	—	—	—	1.1	3.7	5.6	0.4	3.5	6.9	—	—	—	42.1
Australia	1,271.9	110.9	281.2	52.0	167.5	174.1	384.7	88.6	85.0	506.5	351.3	76.4	4.0	3,547.9

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

Period, State or Territory	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage drainage and distribution	Electricity generation, transmission and distribution	Heavy industry					Total	
								Pipelines	Recreation	Telecomm- unications	Oil, gas, coal and other minerals	Other heavy industry		Other
BY THE PRIVATE SECTOR														
<i>March qtr 1994 — r</i>														
NSW	222.2	79.5	29.0	1.7	245.7	81.3	83.5	11.5	11.9	37.7	266.2	40.0	0.4	1,110.5
Vic.	150.4	4.5	14.4	—	57.9	95.5	147.2	—	5.9	7.8	103.7	17.3	1.1	605.8
Qld	101.0	56.1	107.6	28.5	7.3	19.4	92.0	4.5	2.2	2.5	43.1	19.3	—	483.2
SA	19.7	3.5	3.0	0.1	4.9	1.1	1.9	4.1	3.1	0.1	7.6	8.4	—	57.3
WA	45.6	11.5	5.2	23.4	2.3	3.3	21.1	0.1	0.9	—	352.7	9.4	—	475.6
Tas.	4.5	1.1	—	1.5	1.2	1.7	—	—	—	1.3	0.5	0.3	—	12.1
NT	36.5	2.6	—	4.7	0.3	3.3	2.0	—	0.2	—	3.7	0.2	—	53.6
ACT	28.1	—	—	—	2.6	0.2	—	—	4.3	1.3	—	—	—	36.6
Australia	607.8	158.8	159.1	59.8	322.2	205.9	347.7	20.2	28.6	50.8	777.6	94.9	1.5	2,834.7
<i>June qtr 1994 —</i>														
NSW	150.2	46.7	48.7	4.9	218.6	70.7	106.8	5.1	1.9	22.5	225.6	43.6	—	948.4
Vic.	148.9	3.7	15.8	0.2	46.7	120.1	115.8	—	4.9	2.1	87.4	4.7	—	550.2
Qld	115.7	40.4	103.7	16.6	12.8	12.4	75.5	2.7	1.2	0.8	36.2	11.2	—	430.2
SA	20.1	—	3.0	—	4.8	0.7	2.2	1.9	—	—	11.0	21.5	—	67.3
WA	59.5	6.4	2.1	11.0	1.3	2.0	387.8	0.2	0.9	—	245.6	9.8	—	726.7
Tas.	1.9	1.7	—	—	0.3	1.1	—	—	—	1.0	0.1	0.3	—	6.5
NT	43.2	—	—	7.8	—	0.1	3.5	9.1	0.3	—	12.4	—	—	76.5
ACT	24.3	—	—	—	2.0	2.7	—	—	2.4	1.1	—	—	—	32.5
Australia	563.9	98.9	173.3	40.5	286.5	209.9	691.7	19.1	17.4	27.6	618.2	91.1	—	2,838.2
BY THE PUBLIC SECTOR														
<i>March qtr 1994 — r</i>														
NSW	221.9	25.9	136.5	—	47.1	64.3	54.4	—	3.3	32.3	—	—	—	585.8
Vic.	30.8	3.0	18.7	1.0	41.2	146.7	54.7	—	2.3	0.1	34.4	—	—	332.8
Qld	177.1	9.7	45.0	—	40.9	14.4	224.3	—	8.8	1.2	—	—	0.3	521.8
SA	12.7	0.1	1.9	0.7	51.8	37.7	—	6.7	3.1	—	—	2.1	—	116.9
WA	55.5	4.2	30.4	0.9	0.1	1.3	—	—	7.1	0.1	—	—	—	99.5
Tas.	5.6	0.1	—	—	0.8	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	503.9	43.1	232.4	2.6	185.3	271.4	375.9	6.7	25.1	43.8	34.4	2.1	0.3	1,727.2

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

Period, State or Territory	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage drainage and distribution	Electricity generation, transmission and distribution	Heavy industry				Total	
								Pipelines	Recreation	Telecomm- unications	Oil, gas coal and other minerals		Other heavy industry
BY THE PUBLIC SECTOR—continued													
June qtr 1994—													
NSW	63.3	9.7	8.7	—	36.6	56.4	43.0	—	4.3	15.2	—	—	237.2
Vic.	18.7	1.6	8.2	1.0	31.8	164.4	43.8	—	1.4	0.1	30.6	—	301.5
Qld	150.1	4.2	98.8	—	51.5	12.1	208.1	—	6.1	1.0	—	0.2	532.1
SA	4.0	0.1	0.9	—	53.6	37.9	—	3.6	0.9	—	—	0.3	101.3
WA	30.6	3.9	20.8	1.0	—	—	—	—	5.0	—	—	—	62.4
Tas.	1.8	—	—	—	0.4	1.4	35.9	—	0.6	9.7	—	—	49.8
NT	—	—	—	—	1.1	0.2	0.9	—	—	—	—	—	2.2
ACT	—	—	—	—	1.6	3.0	2.3	—	—	0.3	—	—	7.2
Australia	268.6	19.5	137.5	2.0	176.6	276.5	333.9	3.6	18.3	26.2	30.6	0.3	1,293.6
TOTAL													
March qtr 1994—													
NSW	444.1	105.4	165.5	1.7	292.8	145.6	138.0	11.5	15.2	70.0	266.2	40.0	1,696.2
Vic.	181.1	7.5	33.1	1.0	99.0	242.2	201.9	—	8.2	8.0	138.2	17.3	938.6
Qld	278.1	65.8	152.6	28.5	48.2	33.7	316.3	4.5	11.0	3.7	43.1	19.3	1,005.0
SA	32.4	3.6	4.8	0.8	56.7	38.8	1.9	10.7	6.2	0.1	7.6	10.5	174.2
WA	101.1	15.8	35.6	24.3	2.4	4.6	21.1	0.1	8.1	0.1	352.7	9.4	575.1
Tas.	10.1	1.2	—	1.5	2.0	3.7	39.9	—	0.4	11.1	0.5	0.3	70.8
NT	36.7	2.6	—	4.7	1.9	3.6	2.9	—	0.2	—	3.7	0.2	56.6
ACT	28.2	—	—	—	4.4	5.1	1.6	—	4.3	1.6	—	—	45.3
Australia	1,111.8	201.9	391.5	62.4	507.5	477.3	723.5	26.8	53.7	94.6	812.9	97.0	4,561.9
June qtr 1994—													
NSW	213.5	56.4	57.4	4.9	255.2	127.2	149.8	5.1	9.1	37.7	225.6	43.6	1,185.5
Vic.	167.6	5.3	24.0	1.1	78.4	284.5	159.5	—	6.3	2.1	117.9	4.7	851.6
Qld	265.7	44.6	202.5	16.6	64.4	24.5	283.7	2.7	8.2	1.8	36.2	11.2	962.3
SA	24.1	0.1	3.9	—	58.4	38.6	2.2	5.5	2.7	—	11.0	21.8	168.6
WA	90.1	10.3	23.0	12.1	1.3	3.0	387.8	0.2	5.9	—	245.6	9.8	789.1
Tas.	3.7	1.7	—	—	0.7	2.6	35.9	—	0.7	10.7	0.1	0.3	56.3
NT	43.2	—	—	7.8	1.1	0.3	4.4	9.1	0.3	—	12.4	—	78.7
ACT	24.4	—	—	—	3.6	5.6	2.3	—	2.4	1.4	—	—	39.7
Australia	832.4	118.4	310.8	42.5	463.2	486.4	1,025.5	22.7	35.6	53.9	648.8	91.4	4,131.8

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

Stage of construction	NSW	Vic.	Qld	SA	WA	Tas.	NT	ACT	Australia
MARCH QUARTER 1994 r									
<i>For the private sector —</i>									
Value of work commenced	403.4	176.4	159.9	45.6	154.8	10.9	7.7	14.3	973.0
Value of work done	243.5	206.9	171.5	54.3	253.3	8.9	19.8	15.5	973.6
Value of work yet to be done	639.2	192.7	131.8	23.8	424.0	5.2	10.6	24.9	1,452.2
<i>For the public sector —</i>									
Value of work commenced	336.6	163.3	187.4	46.9	66.1	14.0	9.2	18.5	841.9
Value of work done	391.9	155.6	147.0	31.0	68.5	14.9	14.5	8.8	832.2
Value of work yet to be done	471.3	413.1	351.4	33.5	51.6	6.9	43.0	11.7	1,382.6
Total									
Value of work commenced	740.0	339.7	347.3	92.4	220.9	24.9	16.9	32.7	1,814.9
Value of work done	635.4	362.5	318.5	85.2	321.8	23.8	34.3	24.3	1,805.8
Value of work yet to be done	1,110.5	605.8	483.2	57.3	475.6	12.1	53.6	36.6	2,834.7
JUNE QUARTER 1994									
<i>For the private sector —</i>									
Value of work commenced	164.5	85.0	172.9	52.1	143.1	6.8	28.3	16.0	668.7
Value of work done	292.2	126.8	176.9	34.1	258.2	8.9	16.6	19.4	933.0
Value of work yet to be done	540.5	145.1	127.8	44.9	308.1	3.1	22.1	21.2	1,212.8
<i>For the public sector —</i>									
Value of work commenced	261.9	168.0	141.8	22.3	417.9	8.7	37.4	7.2	1,065.2
Value of work done	305.1	183.1	202.8	30.6	55.4	13.0	27.5	8.0	825.4
Value of work yet to be done	407.9	405.1	302.3	22.3	418.6	3.3	54.4	11.4	1,625.3
Total									
Value of work commenced	426.4	252.9	314.7	74.4	561.0	15.5	65.7	23.3	1,733.9
Value of work done	597.3	309.9	379.7	64.7	313.6	21.9	44.1	27.4	1,758.4
Value of work yet to be done	948.4	550.2	430.2	67.3	726.7	6.5	76.5	32.5	2,838.2

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	
	Mar. qtr 1994	June qtr 1994	Mar. qtr 1994	June qtr 1994	Mar. qtr 1994	June qtr 1994
COMMONWEALTH GOVERNMENT						
	₹		₹		₹	
NSW	133.0	126.0	133.4	126.1	1.9	2.2
Vic.	62.1	109.4	62.1	109.4	—	—
Qld	86.5	115.4	86.7	115.6	0.7	0.6
SA	31.5	36.3	31.5	36.3	—	—
WA	30.6	47.2	30.6	47.3	0.1	—
Tas.	5.4	9.5	5.4	9.5	—	—
NT	6.4	7.4	6.4	7.4	—	—
ACT	6.5	6.2	6.6	6.2	0.3	0.3
<i>Australia</i>	<i>362.1</i>	<i>457.4</i>	<i>362.9</i>	<i>457.8</i>	<i>3.0</i>	<i>3.1</i>
STATE AND TERRITORY GOVERNMENT						
	₹		₹		₹	
NSW	87.4	93.4	176.0	373.3	433.2	107.2
Vic.	144.5	211.8	135.2	224.3	291.9	275.8
Qld	110.7	166.3	114.9	143.8	397.6	419.8
SA	34.8	35.1	45.3	65.7	97.8	93.5
WA	70.4	59.4	58.4	74.4	58.6	43.7
Tas.	11.1	19.8	20.4	27.9	49.9	45.5
NT	0.6	1.1	1.7	1.7	2.8	2.2
ACT(a)	6.5	7.1	8.7	8.5	8.4	6.9
<i>Australia</i>	<i>465.9</i>	<i>594.0</i>	<i>560.7</i>	<i>919.7</i>	<i>1,340.1</i>	<i>994.6</i>
LOCAL GOVERNMENT						
	₹		₹		₹	
NSW	169.6	138.9	143.6	167.8	150.6	127.8
Vic.	47.1	51.2	54.0	59.3	40.9	25.6
Qld	75.7	88.1	79.3	109.2	123.5	111.8
SA	17.5	19.7	20.0	30.7	19.1	7.8
WA	27.6	19.2	30.6	33.9	40.8	18.7
Tas.	2.8	3.9	5.9	10.8	8.8	4.3
NT	0.1	—	0.2	0.3	0.2	—
ACT
<i>Australia</i>	<i>340.5</i>	<i>320.9</i>	<i>333.7</i>	<i>412.0</i>	<i>384.0</i>	<i>293.9</i>
TOTAL GOVERNMENT						
	₹		₹		₹	
NSW	390.0	358.3	453.1	667.2	585.8	237.2
Vic.	253.7	372.4	251.4	393.1	332.8	301.5
Qld	272.9	369.8	281.0	368.6	521.8	532.1
SA	83.8	91.1	96.8	132.7	116.9	101.3
WA	128.6	125.8	119.6	155.6	99.5	62.4
Tas.	19.3	33.2	31.7	48.2	58.7	49.8
NT	7.1	8.5	8.3	9.4	3.0	2.2
ACT	13.0	13.2	15.4	14.7	8.7	7.2
<i>Australia</i>	<i>1,168.5</i>	<i>1,372.3</i>	<i>1,257.3</i>	<i>1,789.5</i>	<i>1,727.2</i>	<i>1,293.6</i>

(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			Total
											Oil, gas, coal and other minerals	Other heavy industry	Other	
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	2.3
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	—	—	—	30.2	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	1.2
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	—	—	—	39.0	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	—	—	—	7.1	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	1.7
Vic.	4.8	4.3	—	24.2	10.1	7.0	2.2	5.4	13.5	—	3.2	0.1	5.9	0.7
Qld	2.0	12.0	—	4.6	3.5	12.7	0.7	58.1	14.2	—	—	—	17.1	1.7
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	—	1.7
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	0.6

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

State or Territory	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecommunications	Heavy industry			Total
											Oil, gas, coal and other minerals	Other heavy industry	Other	
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	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	—	9.7	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
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	0.5
Qld	3.0	3.7	—	—	0.8	5.9	—	—	6.3	—	—	—	17.0	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	—	—	—	—	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	0.5
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	1.1
Vic.	4.1	5.0	—	16.4	8.7	5.5	2.0	2.0	11.8	—	1.6	2.1	5.0	0.6
Qld	1.8	4.2	—	1.1	3.1	7.0	0.7	58.5	14.2	—	—	—	18.7	1.4
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	—	1.2
Tas.	4.6	—	—	—	5.5	12.3	—	—	26.4	—	45.8	—	—	3.3
NT	3.5	—	—	—	2.8	11.8	—	—	15.9	—	—	—	—	1.9
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	0.5

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		Heavy industry			Total		
							generation, transmission and distribution	Pipelines	Recreation	Telecommunications	Oil, gas, coal and other minerals		Other heavy industry	
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	0.4
Vic.	1.6	2.3	—	—	4.1	1.5	1.9	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	—	6.2	—	—	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	—	—	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	0.3
BY THE PUBLIC SECTOR														
NSW	5.0	4.3	—	—	0.6	0.4	8.1	—	7.4	—	—	—	—	1.2
Vic.	15.4	8.1	—	—	5.7	2.9	2.1	—	18.5	—	—	—	—	2.7
Qld	3.0	4.3	—	—	0.5	17.0	0.5	—	2.8	—	—	—	2.5	1.5
SA	15.8	55.1	—	—	0.1	2.1	—	—	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	0.8
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	0.7
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	—	—	—	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	0.4

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

13. The imprecision due to sampling variability, which is measured by the relative standard error, should not be confused with inaccuracies that may occur because of inadequacies in the source of information, imperfections in reporting by respondents, and errors made in the coding and processing of data. Inaccuracies of this kind are referred to as non-sampling error, and may occur in any enumeration whether it be a full count or only a sample. Every effort is made to reduce the non-sampling error to a minimum by the careful design of questionnaires, efforts to obtain responses for all selected organisations, and efficient operating procedures.

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

Seasonal adjustment

15. Seasonally adjusted statistics for engineering construction activity are shown in Tables 2 and 4. In the seasonally adjusted series, account has been taken of normal seasonal factors and the effect of movement in the date of Easter which may, in successive years, affect figures for different quarters. As happens with all seasonally adjusted series, the seasonal factors are reviewed annually to take account of each additional year's data. Information regarding the methods used in seasonally adjusting the series is available on request.

16. Since seasonally adjusted statistics reflect both irregular and trend movements, an upward or downward movement in a seasonally adjusted series does not necessarily indicate a change of trend. Particular care should therefore be taken in interpreting individual quarter to quarter movements.

Estimates at constant prices

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

18. Constant price estimates measure changes in value after the direct effects of price changes have been eliminated. The deflators used to revalue the current price

estimates in this publication are derived from the same price data underlying the deflators compiled for the dwellings and non-dwelling construction components of the national accounts aggregate 'Gross fixed capital expenditure'.

19. Estimates at constant prices are subject to a number of approximations and assumptions. Further information on the nature and concepts of constant price estimates is contained in Chapter 4 of *Australian National Accounts: Concepts, Sources and Methods* (5216.0).

Related publications

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

Building Approvals, Australia (8731.0) — issued monthly

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

Building Activity, Australia (8752.0) — issued quarterly

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

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

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

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

Symbols and other usages

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

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

RICHARD MADDEN
 Acting Australian Statistician



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