

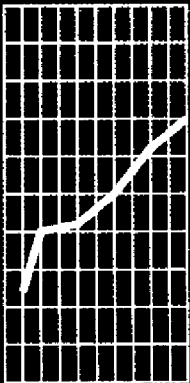


June Quarter 1997

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Engineering Construction Activity

Australia



NOTES

FORTHCOMING ISSUES

ISSUE

RELEASE DATE

September Quarter 1997

15 January 1998

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SIGNIFICANT CHANGES

The seasonally adjusted series have been revised as a result of the annual re-analysis of seasonal factors. For more details, see Explanatory Notes 15 and 16.

Revisions have been made to the estimates in this publication for the March quarter 1997 and the December and September quarters 1996. The overall effect to the value of work done at the Australian level is an increase of \$47.6 million (1.4%) for the March quarter 1997 and decreases of \$64.8million (1.7%) and \$55.1 million (1.4%) in the December and September quarters 1996 respectively.

The major contributors to the revisions were an increase of \$64.1 million (8.8%) in Queensland in the March quarter 1997 and decreases in Western Australia of \$80 million (10.9%) and \$56.9 million (7.2%) in the December and September quarters 1996 respectively.

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SYMBOLS AND OTHER USAGES

- r figure or series revised since previous issue
- * subject to sampling variability too high for most practical purposes
- .. not applicable
- nil or rounded to zero

.....

INQUIRIES

For further information about these statistics, contact Rex Porter on (08) 8237 7672 or any ABS State office.

For information about other ABS statistics and services, please refer to the back of this publication.

W. McLennan
Australian Statistician

SUMMARY OF FINDINGS VALUE OF WORK DONE

AVERAGE 1989-90 PRICES, SEASONALLY ADJUSTED ESTIMATES

MOVEMENT ESTIMATES

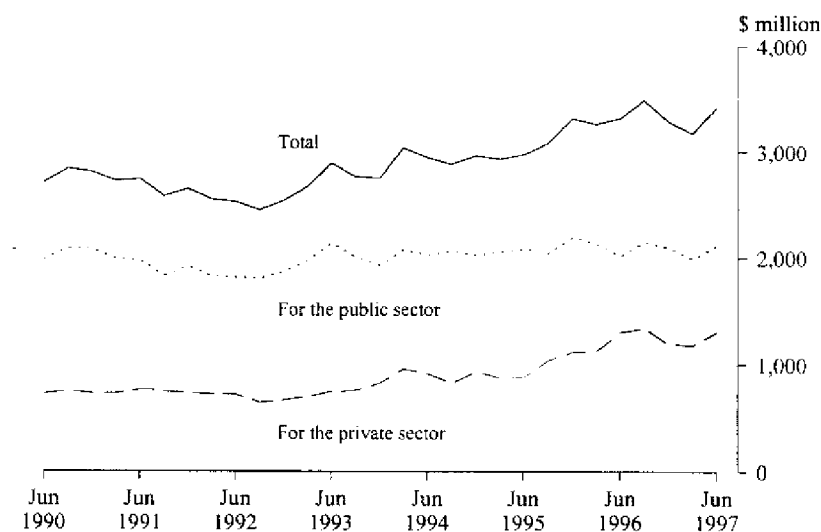
Changes in the seasonally adjusted value of engineering construction work done, at average 1989-90 prices, in the June quarter 1997, compared with the previous quarter and a year previously, are summarised below.

	Change Mar qtr 97 to Jun qtr 97	Change Jun qtr 96 to Jun qtr 97
Engineering construction work done	%	%
By private sector		
For private sector	10.3	0.1
For public sector	5.8	17.2
Total by private sector	8.6	5.8
By public sector	6.4	-0.9
Total for public sector (a)	6.2	5.0
Total engineering construction	7.7	3.1

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

The total value of engineering construction work done rose by 7.7% in the June quarter 1997, following a fall of 3.5% in the March quarter and a fall of 5.8% in the December quarter 1996. Engineering construction work done in the June quarter 1997 was 3.1% higher than for the June quarter 1996. Activity rose in both sectors, with work for the private sector rising 10.3% in the June quarter 1997 to \$1,303.5m. Work for the public sector rose by 6.2% to \$2,114m.

LEVEL ESTIMATES



SUMMARY OF FINDINGS VALUE OF WORK COMMENCED

CURRENT PRICES, ORIGINAL ESTIMATES

In current prices, the total value of engineering construction work commenced during the June quarter 1997 was \$4,513.7m, an increase of 36.9% from the March quarter 1997 estimate. This was 37.6% higher than the value of commencements in the June quarter 1996. The value of work commenced for the private sector rose by 91.3% to \$2,209.3m in the June quarter 1997 and was 118% above the value of work commenced during the June quarter 1996. The value of work commenced for the public sector during the June quarter 1997, was \$2,304.4m, an increase of 7.6% from the March quarter 1997 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						
1994-95	3,889.7	2,903.6	6,793.3	6,221.7	9,125.3	13,014.9
1995-96	5,116.9	2,938.6	8,055.5	6,530.2	9,468.8	14,585.7
1996-97	5,688.3	3,359.4	9,047.7	6,167.2	9,526.5	15,214.8
1996 Mar. qtr	1,168.9	679.4	1,848.3	1,570.1	2,249.5	3,418.4
June qtr	1,396.2	808.1	2,204.2	1,917.1	2,725.1	4,121.3
Sept. qtr r	1,565.6	789.7	2,355.2	1,440.5	2,230.1	3,795.7
Dec. qtr r	1,456.5	830.6	2,287.2	1,509.3	2,340.0	3,796.5
1997 Mar. qtr r	1,247.0	803.1	2,050.1	1,316.2	2,119.3	3,366.3
June qtr	1,419.2	936.0	2,355.2	1,901.2	2,837.2	4,256.4
SEASONALLY ADJUSTED r						
1996 Mar. qtr	1,256.9	713.3	1,970.1	1,715.2	2,428.5	3,685.3
June qtr	1,453.9	759.3	2,213.2	1,548.9	2,308.2	3,762.1
Sept. qtr	1,509.1	784.2	2,293.3	1,660.3	2,444.4	3,953.6
Dec. qtr	1,357.6	850.4	2,208.0	1,539.9	2,390.3	3,747.9
1997 Mar. qtr	1,355.9	842.4	2,198.3	1,440.6	2,282.9	3,638.9
June qtr	1,478.5	894.8	2,373.3	1,539.3	2,434.1	3,912.7

(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						
1994-95	3,526.6	2,608.7	6,135.3	5,656.1	8,264.8	11,791.4
1995-96	4,575.2	2,559.3	7,134.7	5,785.4	8,344.7	12,920.1
1996-97	5,016.6	2,911.2	7,927.9	5,420.2	8,331.4	13,348.1
1996 Mar. qtr	1,046.6	588.7	1,635.4	1,388.8	1,977.5	3,024.2
June qtr	1,250.7	697.2	1,947.9	1,678.3	2,375.5	3,626.2
Sept. qtr r	1,388.3	687.4	2,075.7	1,276.3	1,963.7	3,352.0
Dec. qtr r	1,279.7	721.4	2,001.1	1,331.0	2,052.4	3,332.1
1997 Mar. qtr r	1,097.4	694.2	1,791.6	1,153.6	1,847.8	2,945.2
June qtr	1,251.2	808.2	2,059.5	1,659.3	2,467.5	3,718.8
SEASONALLY ADJUSTED r						
1996 Mar. qtr	1,125.3	618.0	1,743.3	1,517.2	2,135.2	3,260.5
June qtr	1,302.4	657.7	1,960.1	1,356.0	2,013.7	3,316.1
Sept. qtr	1,338.2	680.8	2,019.0	1,471.1	2,151.9	3,490.1
Dec. qtr	1,192.7	737.2	1,929.9	1,357.9	2,095.1	3,287.8
1997 Mar. qtr	1,181.9	728.5	1,910.4	1,262.6	1,991.1	3,173.0
June qtr	1,303.5	770.5	2,074.0	1,343.5	2,114.0	3,417.5

(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													
1994-95	1,474.3	14.9	37.0	13.2	237.6	60.6	306.0	197.3	343.6	154.6	1,907.7	21.3	4,767.9
1995-96	2,131.8	15.6	69.4	46.8	83.2	151.9	379.0	230.9	401.1	82.7	1,898.8	29.7	5,520.9
1996-97	1,065.7	40.5	55.9	119.0	141.0	70.9	398.8	247.1	649.9	130.7	3,326.2	33.1	6,278.9
1996 Mar. qtr	1,491.6	3.0	49.6	3.9	16.1	16.2	158.6	30.0	96.9	25.6	517.6	6.5	2,415.7
June qtr	185.1	6.6	8.5	25.7	15.3	14.6	69.0	42.9	98.3	11.3	529.4	8.7	1,015.4
Sept. qtr r	299.1	5.6	10.3	54.6	35.1	17.8	75.3	39.2	169.2	23.1	764.8	9.7	1,503.8
Dec. qtr r	291.0	30.8	5.1	8.9	37.2	13.1	123.7	135.8	242.4	10.1	506.2	6.8	1,411.1
1997 Mar. qtr r	228.1	0.3	18.6	43.0	32.5	27.5	125.8	25.2	117.5	86.7	439.5	10.0	1,154.7
June qtr	247.5	3.7	21.9	12.5	36.2	12.5	74.0	47.0	120.8	10.7	1,615.7	6.7	2,209.3
FOR THE PUBLIC SECTOR													
1994-95	1,352.3	106.4	284.8	65.0	174.8	174.0	256.0	32.3	44.9	5.2	52.8	13.6	2,562.2
1995-96	1,797.9	75.4	136.8	83.8	101.1	230.7	527.8	224.5	63.4	23.0	75.2	7.2	3,344.8
1996-97	1,660.3	88.9	589.3	136.3	235.7	183.7	248.2	25.9	120.2	7.4	121.9	9.7	3,427.5
1996 Mar. qtr	537.7	16.8	16.6	25.4	45.6	65.8	52.5	9.8	10.2	4.7	35.4	1.7	822.2
June qtr	569.1	12.2	50.3	44.6	18.6	40.7	259.9	6.6	19.5	4.5	2.3	2.6	1,030.8
Sept. qtr r	308.8	19.0	450.6	55.9	107.6	46.4	48.6	15.4	27.0	1.4	11.7	1.6	1,094.0
Dec. qtr r	339.7	19.9	37.3	30.2	53.6	37.2	85.4	6.2	16.6	2.6	33.7	2.4	664.8
1997 Mar. qtr r	613.3	16.2	44.2	41.8	39.2	45.4	65.5	2.5	35.9	0.9	65.3	2.5	972.9
June qtr	398.4	33.8	57.2	8.4	35.3	54.8	48.7	1.8	40.7	2.4	11.1	3.1	695.8
TOTAL													
1994-95	2,826.5	121.3	321.8	78.2	412.4	234.6	562.0	229.6	388.5	159.8	1,960.4	34.9	7,330.1
1995-96	3,929.7	91.0	206.2	130.5	184.3	382.5	906.8	455.4	464.5	105.7	1,972.2	36.8	8,865.6
1996-97	2,726.0	129.5	645.2	255.2	376.7	254.6	647.0	273.1	770.2	138.1	3,448.1	42.8	9,706.4
1996 Mar. qtr	2,029.3	19.8	66.2	29.3	61.7	83.0	211.1	39.8	107.1	30.4	553.0	8.2	3,237.9
June qtr	754.2	18.8	58.8	70.2	33.9	55.3	328.9	49.5	117.8	15.8	531.8	11.3	2,046.2
Sept. qtr r	607.9	24.7	460.9	110.4	142.7	64.1	123.9	54.7	196.2	24.6	776.5	11.3	2,597.9
Dec. qtr r	630.7	50.7	42.5	39.0	90.8	50.3	209.1	142.0	259.0	12.7	539.9	9.2	2,075.9
1997 Mar. qtr r	841.5	16.5	62.8	84.8	71.6	72.9	191.3	27.7	153.4	87.7	504.8	12.5	2,127.5
June qtr	645.9	37.6	79.0	20.9	71.5	67.3	122.7	48.7	161.5	13.2	1,626.9	9.8	2,905.1

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

Period	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage drainage and distribution	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecomm- unications	Heavy industry	Other	Total	
													Original	Seasonally adjusted
FOR THE PRIVATE SECTOR														
1994-95	1,109.2	6.4	28.5	25.3	267.0	72.3	163.4	170.8	326.3	72.6	1,635.5	12.3	3,889.7	
1995-96	1,103.1	37.1	61.1	24.4	253.3	147.6	443.0	271.2	388.7	194.1	2,155.9	37.3	5,116.9	
1996-97	1,462.5	34.2	79.5	79.7	120.8	75.3	410.8	235.1	640.9	166.0	2,347.9	35.5	5,688.3	
1996 Mar. qtr	255.0	2.9	15.7	6.2	46.9	27.6	120.2	58.7	93.8	54.9	478.6	8.4	1,168.9	1,256.9
June qtr	265.8	8.1	30.4	5.6	30.3	27.4	101.1	111.4	82.7	48.8	677.9	6.8	1,396.2	1,453.9
Sept. qtr	399.2	8.3	25.1	7.8	24.7	18.4	117.0	57.7	165.4	44.7	686.8	10.4	1,565.6	1,509.1
Dec. qtr	355.0	8.2	17.8	15.0	37.1	21.2	98.5	51.1	233.0	36.0	575.9	7.9	1,456.5	1,357.6
1997 Mar. qtr	345.7	7.7	17.4	25.2	24.2	13.2	81.3	43.9	120.4	34.7	527.6	5.7	1,247.0	1,355.9
June qtr	362.6	10.0	19.3	31.7	34.9	22.5	114.0	82.5	122.1	50.6	557.5	11.5	1,419.2	1,478.5
FOR THE PUBLIC SECTOR														
1994-95	1,325.3	176.6	303.6	59.1	214.7	234.6	429.1	41.3	40.3	12.0	59.0	8.1	2,903.6	
1995-96	1,482.4	89.7	191.6	63.4	171.3	249.0	296.3	229.7	63.5	26.0	66.7	10.3	2,938.6	
1996-97	1,508.1	102.5	390.3	150.2	170.5	212.4	515.0	79.8	89.3	7.1	124.1	10.1	3,359.4	
1996 Mar. qtr	373.2	21.1	42.4	15.4	34.6	61.2	51.5	46.4	11.8	3.5	15.9	2.3	679.4	713.3
June qtr	423.8	15.3	43.1	23.4	38.1	62.6	89.0	70.0	14.2	6.3	18.5	3.6	808.1	759.3
Sept. qtr	338.6	40.3	106.8	34.8	33.4	44.6	95.0	45.1	31.5	1.4	16.6	1.4	789.7	784.2
Dec. qtr	373.6	24.9	102.3	36.5	42.1	53.9	131.0	24.0	17.9	0.9	20.2	3.4	830.6	850.4
1997 Mar. qtr	373.0	16.0	76.5	54.3	42.9	52.7	123.8	8.4	13.8	1.7	37.0	3.0	803.1	842.4
June qtr	422.9	21.3	104.7	24.6	52.1	61.2	165.1	2.3	26.1	3.1	50.3	2.3	936.0	894.8
TOTAL														
1994-95	2,434.5	183.0	332.1	84.4	481.8	307.0	592.5	212.1	366.6	84.6	1,694.5	20.4	6,793.3	
1995-96	2,585.5	126.8	252.6	87.9	424.6	396.6	739.3	500.9	452.1	220.1	2,221.4	47.6	8,055.5	
1996-97	2,970.6	136.7	469.8	229.9	291.3	287.7	925.7	215.0	730.2	173.1	2,472.0	45.6	9,047.7	
1996 Mar. qtr	628.2	24.1	58.1	21.6	81.5	88.8	171.7	105.2	105.6	58.4	494.5	10.7	1,848.3	1,970.1
June qtr	689.6	23.3	73.5	29.0	68.4	90.1	190.1	181.4	96.9	55.1	696.4	10.4	2,204.2	2,213.2
Sept. qtr	737.8	48.6	131.9	42.7	58.1	63.1	212.0	102.8	197.0	46.1	703.4	11.9	2,355.2	2,293.3
Dec. qtr	728.6	33.0	120.1	51.5	79.2	75.0	229.5	75.1	250.9	36.9	596.1	11.3	2,287.2	2,208.0
1997 Mar. qtr	718.8	23.7	93.9	79.5	67.1	65.9	205.1	52.3	134.2	36.4	564.6	8.7	2,050.1	2,198.3
June qtr	785.5	31.4	124.0	56.2	86.9	83.7	279.1	84.8	148.2	53.7	607.8	13.7	2,355.2	2,373.3

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

Period	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution				Telecommunications	Heavy industry	Other	Total
							Pipelines	Recreation	Pipelines	Recreation				
FOR THE PRIVATE SECTOR														
1994-95	587.2	20.2	17.8	2.1	165.4	5.8	200.4	44.9	39.2	104.7	996.1	10.3	2,194.2	
1995-96	1,476.8	3.2	42.5	24.6	3.4	11.6	216.1	43.6	43.5	53.1	1,243.6	2.1	3,164.1	
1996-97	1,169.2	10.1	99.6	61.5	25.9	11.5	294.5	90.6	25.9	17.1	2,206.8	2.0	4,014.7	
1996 Mar. qtr	1,726.4	1.8	59.8	4.1	19.5	26.1	254.5	104.8	35.7	81.8	1,255.6	0.5	3,570.5	
June qtr	1,476.8	3.2	42.5	24.6	3.4	11.6	216.1	43.6	43.5	53.1	1,243.6	2.1	3,164.1	
Sept. qtr	1,457.3	2.2	117.1	70.2	16.8	10.5	310.0	59.0	31.9	46.1	1,261.7	1.1	3,384.0	
Dec. qtr	1,395.9	24.8	99.4	62.1	16.9	5.4	338.7	149.8	104.2	18.9	1,159.8	0.8	3,376.7	
1997 Mar. qtr	1,292.7	16.4	99.8	80.4	25.0	21.1	374.1	126.9	26.9	76.1	1,076.0	5.2	3,220.5	
June qtr	1,169.2	10.1	99.6	61.5	25.9	11.5	294.5	90.6	25.9	17.1	2,206.8	2.0	4,014.7	
FOR THE PUBLIC SECTOR														
1994-95	382.8	49.5	131.1	24.2	124.3	133.4	562.7	3.2	8.2	2.4	16.3	4.6	1,442.8	
1995-96	776.3	17.0	85.7	45.7	47.0	111.8	537.7	30.6	11.2	2.6	32.5	2.2	1,700.3	
1996-97	1,015.0	33.1	329.4	25.6	121.2	108.1	273.5	0.1	39.6	0.2	58.7	1.0	2,005.5	
1996 Mar. qtr	603.4	20.2	73.8	22.0	71.9	146.3	227.2	97.1	6.7	4.3	46.5	3.1	1,322.5	
June qtr	776.3	17.0	85.7	45.7	47.0	111.8	537.7	30.6	11.2	2.6	32.5	2.2	1,700.3	
Sept. qtr	902.1	15.2	453.0	68.3	121.1	115.5	382.2	2.4	6.9	0.4	32.9	1.5	2,101.5	
Dec. qtr	853.1	10.2	406.5	54.3	133.4	104.7	430.5	0.5	2.7	1.7	45.7	0.3	2,043.5	
1997 Mar. qtr	1,079.3	18.3	370.8	42.5	131.2	102.6	361.6	0.7	24.6	0.9	93.2	0.1	2,225.9	
June qtr	1,015.0	33.1	329.4	25.6	121.2	108.1	273.5	0.1	39.6	0.2	58.7	1.0	2,005.5	
TOTAL														
1994-95	970.0	69.7	148.9	26.4	289.7	139.2	763.1	48.1	47.4	107.1	1,012.5	14.9	3,636.9	
1995-96	2,253.1	20.2	128.2	70.3	50.4	123.4	753.8	74.2	54.7	55.7	1,276.0	4.4	4,864.4	
1996-97	2,184.2	43.2	429.0	87.0	147.1	119.6	568.0	90.7	65.5	17.4	2,265.5	3.0	6,020.2	
1996 Mar. qtr	2,329.8	21.9	133.6	26.1	91.4	172.4	481.7	202.0	42.4	86.1	1,302.1	3.6	4,891.0	
June qtr	2,253.1	20.2	128.2	70.3	50.4	123.4	753.8	74.2	54.7	55.7	1,276.0	4.4	4,864.4	
Sept. qtr	2,359.4	17.4	570.2	138.4	137.9	126.0	692.2	61.5	38.8	46.6	1,294.6	2.7	5,485.5	
Dec. qtr	2,248.9	35.0	505.9	116.4	150.3	110.1	769.2	150.3	106.9	20.5	1,205.5	1.1	5,420.2	
1997 Mar. qtr	2,372.0	34.7	470.6	122.9	156.2	123.6	735.7	127.6	51.5	77.1	1,169.2	5.3	5,446.4	
June qtr	2,184.2	43.2	429.0	87.0	147.1	119.6	568.0	90.7	65.5	17.4	2,265.5	3.0	6,020.2	

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

Period	Heavy industry											Total	
	Roads, highway 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
VALUE OF WORK COMMENCED DURING PERIOD													
1994-95	1,746.2	86.1	576.1	22.0	274.7	317.9	811.9	88.7	101.9	2,194.2	1.4	1.2	6,222.4
1995-96	1,874.3	127.7	738.2	18.7	186.1	251.0	657.8	83.9	132.5	2,603.8	0.3	2.0	6,676.3
1996-97	1,738.5	67.7	1,044.4	22.1	114.2	181.4	582.4	22.0	116.7	2,602.0	9.1	4.2	6,504.8
1996 Mar. qtr	306.3	13.0	13.5	4.1	33.7	45.9	157.8	19.6	22.9	592.0		0.5	1,209.3
June qtr	280.9	23.2	16.8	3.4	32.9	41.6	94.3	22.3	19.4	697.9	0.3	0.2	1,233.2
Sept. qtr	829.2	21.3	326.5	6.9	45.2	75.3	157.0	2.7	48.8	649.8	6.0	0.3	2,168.9
Dec. qtr	301.2	7.0	376.7	5.2	25.2	39.2	142.1	3.0	25.3	631.3	1.6	0.8	1,558.5
1997 Mar. qtr	273.9	13.4	177.4	5.1	16.6	32.3	111.7	4.1	21.2	512.4		0.8	1,168.8
June qtr	334.2	26.0	163.8	4.9	27.2	34.7	171.6	12.2	21.5	808.5	1.6	2.4	1,608.6
VALUE OF WORK DONE DURING PERIOD													
1994-95	1,679.2	93.2	647.5	22.2	244.9	303.6	851.1	87.5	98.2	2,190.3	2.7	1.2	6,221.7
1995-96	1,738.6	102.8	802.2	18.5	200.1	232.8	625.5	93.2	114.1	2,600.0	0.4	1.9	6,530.2
1996-97	1,560.3	85.5	848.1	23.1	138.8	196.5	574.4	20.7	104.8	2,609.4	3.5	2.0	6,167.2
1996 Mar. qtr	449.8	23.3	212.5	4.1	46.8	53.1	138.3	20.4	28.1	593.2	0.1	0.6	1,570.1
June qtr	608.0	33.7	260.0	2.7	52.3	60.7	135.1	28.4	29.3	706.5	0.2	0.3	1,917.1
Sept. qtr	307.5	16.7	232.9	7.2	31.2	39.9	121.5	6.2	24.3	652.3	0.6	0.2	1,440.5
Dec. qtr	370.9	19.9	212.0	5.2	34.4	48.0	156.9	5.3	26.0	629.5	0.6	0.4	1,509.3
1997 Mar. qtr	346.7	15.4	198.6	5.4	32.3	38.9	131.8	4.8	24.8	515.9	0.9	0.7	1,316.2
June qtr	535.2	33.5	204.6	5.3	40.9	69.7	164.2	4.3	29.7	811.7	1.4	0.6	1,901.2
VALUE OF WORK YET TO BE DONE													
1994-95	294.4	19.1	92.5	1.3	190.9	173.3	312.1	15.4	13.9	18.9	4.1	0.1	1,135.9
1995-96	329.7	40.7	105.6	1.8	102.9	141.0	131.6	16.3	23.0	14.8	0.2	0.1	907.8
1996-97	317.9	11.1	203.4	0.9	89.8	85.2	208.3	8.2	23.9	9.7	0.8	2.9	962.0
1996 Mar. qtr	674.6	53.5	349.7		140.9	200.7	218.0	9.3	33.6	23.6	0.1	0.4	1,704.4
June qtr	329.7	40.7	105.6	1.8	102.9	141.0	131.6	16.3	23.0	14.8	0.2	0.1	907.8
Sept. qtr	749.3	33.5	174.4	1.5	102.9	159.6	231.7	4.3	42.2	12.4	5.8	0.2	1,518.0
Dec. qtr	664.2	23.2	370.0	1.5	101.2	156.9	239.8	2.2	39.3	16.8	4.6	1.1	1,620.8
1997 Mar. qtr	555.8	22.3	250.6	1.2	109.6	119.6	215.8	1.5	33.2	17.1	0.7	1.2	1,328.5
June qtr	317.9	11.1	203.4	0.9	89.8	85.2	208.3	8.2	23.9	9.7	0.8	2.9	962.0

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														
1994-95	3,098.5	192.5	860.9	87.1	449.5	491.9	1,067.9	121.0	146.9	2,199.4	22.8	31.4	14.8	8,784.6
1995-96	3,672.2	203.1	874.9	102.5	287.2	481.7	1,185.6	308.4	195.9	2,626.8	48.2	27.3	9.1	10,021.1
1996-97	3,398.8	156.7	1,633.6	158.4	349.9	365.1	830.6	48.0	236.9	2,609.3	117.1	13.8	13.9	9,932.2
1996 Mar. qtr	844.1	29.8	30.1	29.5	79.3	111.7	210.3	29.4	33.1	596.8	21.6	13.8	2.2	2,031.5
June qtr	850.0	35.5	67.1	47.9	51.5	82.3	354.2	28.9	38.9	702.4	2.5	0.1	2.8	2,264.0
Sept. qtr	1,138.1	40.4	777.1	62.8	152.7	121.7	205.6	18.1	75.8	651.2	10.5	7.1	2.0	3,262.9
Dec. qtr	640.9	26.9	414.0	35.4	78.9	76.4	227.5	9.3	41.9	633.8	35.3	—	3.1	2,223.3
1997 Mar. qtr	887.3	29.5	221.6	46.9	55.8	77.6	177.2	6.7	57.1	513.4	65.3	—	3.3	2,141.6
June qtr	732.6	59.9	221.0	13.3	62.5	89.4	220.4	14.0	62.1	811.0	6.1	6.6	5.5	2,304.4
VALUE OF WORK DONE DURING PERIOD														
1994-95	3,004.5	269.8	951.1	81.2	459.6	538.2	1,280.2	128.8	138.5	2,202.3	26.9	34.9	9.3	9,125.3
1995-96	3,221.0	192.5	993.8	81.9	371.4	481.8	921.8	322.9	177.6	2,626.0	34.9	32.3	12.2	9,468.8
1996-97	3,068.4	187.9	1,238.5	173.2	309.3	408.9	1,089.4	100.5	194.2	2,616.5	113.5	14.2	12.1	9,526.5
1996 Mar. qtr	823.0	44.4	254.9	19.5	81.4	114.3	189.8	66.8	39.9	596.7	6.4	9.5	2.8	2,249.5
June qtr	1,031.8	49.0	303.1	26.1	90.3	123.3	224.1	98.4	43.5	712.8	8.1	10.6	4.0	2,725.1
Sept. qtr	646.1	57.0	339.7	42.1	64.6	84.6	216.5	51.3	55.8	653.6	15.2	2.0	1.7	2,230.1
Dec. qtr	744.5	44.7	314.3	41.7	76.5	101.9	287.9	29.3	43.9	630.5	14.4	6.4	3.8	2,340.0
1997 Mar. qtr	719.7	31.4	275.2	59.6	75.2	91.6	255.6	13.3	38.5	517.6	37.0	0.9	3.7	2,119.3
June qtr	958.1	54.9	309.3	29.9	92.9	130.9	329.4	6.6	55.9	814.8	46.9	4.9	2.9	2,837.2
VALUE OF WORK YET TO BE DONE														
1994-95	677.2	68.6	223.6	25.5	315.2	306.7	874.8	18.6	22.1	21.3	17.3	3.1	4.7	2,578.6
1995-96	1,106.0	57.7	191.3	47.5	149.9	252.8	669.3	46.9	34.2	17.4	24.4	8.3	2.4	2,608.1
1996-97	1,332.9	44.2	532.8	26.4	211.0	193.3	481.8	8.3	63.5	9.9	52.6	6.9	3.9	2,967.5
1996 Mar. qtr	1,278.0	73.6	423.5	22.0	212.9	347.0	445.2	106.4	40.3	27.9	30.1	16.5	3.6	3,026.9
June qtr	1,106.0	57.7	191.3	47.5	149.9	252.8	669.3	46.9	34.2	17.4	24.4	8.3	2.4	2,608.1
Sept. qtr	1,651.4	48.7	627.4	69.8	224.0	275.1	613.9	6.8	49.1	12.9	24.8	13.9	1.7	3,619.5
Dec. qtr	1,517.3	33.4	776.4	55.8	234.6	261.6	670.3	2.7	42.0	18.5	42.7	7.7	1.3	3,664.3
1997 Mar. qtr	1,635.1	40.7	621.4	43.7	240.8	222.2	577.4	2.1	57.7	18.1	91.1	2.8	1.3	3,554.4
June qtr	1,332.9	44.2	532.8	26.4	211.0	193.3	481.8	8.3	63.5	9.9	52.6	6.9	3.9	2,967.5

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									
1994-95	5,005.7	2,207.5	3,082.9	691.6	1,962.9	190.1	253.9	157.9	13,552.5
1995-96	4,617.0	3,453.3	3,143.7	779.8	2,921.1	262.6	219.2	145.2	15,541.9
1996-97	5,360.9	2,368.2	3,613.6	1,036.4	3,282.4	235.4	193.0	121.3	16,211.1
1996 Mar. qtr	872.4	1,930.3	616.0	306.3	581.6	76.8	30.8	32.9	4,447.2
June qtr	755.9	505.4	622.8	196.9	1,002.2	57.2	91.5	47.5	3,279.4
Sept. qtr r	2,002.9	474.3	1,175.9	263.5	703.8	60.6	55.4	30.4	4,766.8
Dec. qtr r	1,037.4	606.4	1,032.1	211.9	617.3	60.5	35.3	33.5	3,634.4
1997 Mar. qtr r	1,142.0	627.9	723.5	251.2	432.5	61.0	30.7	27.5	3,296.3
June qtr	1,178.6	659.6	682.0	309.8	1,528.8	53.4	71.6	30.0	4,513.7
VALUE OF WORK DONE DURING PERIOD									
1994-95	4,686.7	2,409.1	3,019.2	687.4	1,571.5	192.3	270.7	178.1	13,014.9
1995-96	5,211.8	2,352.6	3,036.0	726.1	2,653.5	258.3	206.6	140.7	14,585.7
1996-97	5,007.5	2,543.8	3,597.5	845.0	2,661.1	233.1	190.6	136.1	15,214.8
1996 Mar. qtr	1,223.8	601.1	674.4	195.3	573.5	78.2	42.2	30.0	3,418.4
June qtr	1,435.3	653.5	801.6	226.2	847.5	69.3	47.9	39.9	4,121.3
Sept. qtr r	1,331.3	533.1	896.7	151.1	729.1	50.7	67.6	36.1	3,795.7
Dec. qtr r	1,257.9	636.3	916.4	185.8	652.1	58.1	58.2	31.8	3,796.5
1997 Mar. qtr r	1,070.6	591.1	793.4	200.3	590.6	60.0	30.3	29.9	3,366.3
June qtr	1,347.8	783.3	991.1	307.7	689.4	64.3	34.5	38.3	4,256.4
VALUE OF WORK YET TO BE DONE									
1994-95	1,659.1	601.6	1,010.9	266.6	1,052.6	66.0	72.5	43.5	4,772.8
1995-96	1,036.7	1,565.7	1,189.3	253.4	1,486.4	96.7	96.7	47.3	5,772.2
1996-97	1,377.0	1,617.3	1,053.6	458.6	2,264.4	81.0	100.9	29.4	6,982.2
1996 Mar. qtr	1,766.7	1,912.7	1,304.2	287.8	1,138.4	94.1	54.1	39.3	6,597.4
June qtr	1,036.7	1,565.7	1,189.3	253.4	1,486.4	96.7	96.7	47.3	5,772.2
Sept. qtr r	1,759.3	1,732.6	1,394.2	350.7	1,523.2	101.9	98.7	42.8	7,003.5
Dec. qtr r	1,607.2	1,744.5	1,531.3	361.0	1,597.4	95.5	64.7	39.4	7,041.0
1997 Mar. qtr r	1,622.1	1,740.0	1,364.0	451.1	1,399.8	96.7	63.9	37.2	6,774.9
June qtr	1,377.0	1,617.3	1,053.6	458.6	2,264.4	81.0	100.9	29.4	6,982.2

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		Other
BY THE PRIVATE SECTOR														
<i>March qtr 1997 - r</i>														
NSW	380.8	7.5	8.2	0.5	28.2	29.6	11.8	10.0	72.4	42.3	34.6	17.7	1.1	644.8
Vic.	143.4	5.5	14.5	3.1	22.9	8.3	106.9	8.0	26.3	38.0	48.1	22.7	6.9	454.5
Qld	100.0	1.9	24.5	76.8	4.5	17.8	14.4	3.6	33.7	7.2	119.9	31.8	—	436.2
SA	39.7	0.7	1.7	0.4	9.6	2.2	23.0	4.2	7.7	0.1	76.6	5.7	0.2	172.0
WA	138.2	0.3	13.9	2.4	6.2	14.5	22.6	0.8	8.6	0.1	131.8	11.2	1.3	354.8
Tas.	18.9	0.1	—	0.1	0.1	0.3	11.7	—	2.3	—	0.5	—	—	34.0
NT	14.5	0.5	—	1.4	—	—	0.8	—	1.0	—	3.7	—	—	22.4
ACT	6.0	—	—	—	—	0.2	—	1.1	1.5	—	—	—	—	8.7
Australia	841.5	16.5	62.8	84.8	71.6	72.9	191.3	27.7	153.4	87.7	415.2	89.6	12.5	2,127.5
<i>June qtr 1997</i>														
NSW	184.9	19.3	19.9	2.2	9.1	27.6	30.6	21.1	76.5	4.7	126.2	12.7	1.6	536.3
Vic.	151.9	2.2	31.6	7.1	22.0	12.0	67.8	8.9	27.3	3.8	17.2	24.2	1.9	377.9
Qld	108.3	10.0	10.7	3.9	24.5	7.8	13.7	1.9	40.3	0.2	54.6	18.1	1.7	295.7
SA	47.9	1.0	1.4	1.5	7.8	3.1	3.1	14.5	6.9	0.2	54.3	36.6	0.2	176.4
WA	95.3	2.2	15.4	5.1	5.6	17.6	7.0	1.8	7.1	4.3	1,248.8	3.7	4.4	1,418.2
Tas.	15.4	—	—	—	0.5	0.4	—	—	1.7	—	2.2	4.7	—	25.0
NT	34.9	2.9	—	1.1	2.1	0.7	0.2	0.4	0.8	—	23.1	0.6	—	66.7
ACT	7.4	—	—	—	—	0.1	0.3	0.2	1.0	—	—	—	—	9.1
Australia	645.9	37.6	79.0	20.9	71.5	67.3	122.7	48.7	161.5	13.2	1,526.3	100.6	9.8	2,905.1
BY THE PUBLIC SECTOR														
<i>March qtr 1997 - r</i>														
NSW	83.9	2.4	150.0	—	4.1	8.7	26.9	0.9	7.1	21.24	—	—	0.7	497.2
Vic.	20.2	1.9	7.1	—	4.1	1.4	7.9	0.9	2.1	127.8	—	—	—	173.4
Qld	80.0	5.6	20.1	5.1	4.9	6.0	42.5	—	6.1	117.0	—	—	—	287.4
SA	51.0	0.3	0.1	—	—	2.8	13.6	—	0.7	10.7	—	—	—	79.2
WA	26.6	3.0	—	—	2.6	5.9	12.7	2.3	3.8	20.8	—	—	—	77.6
Tas.	11.8	0.1	—	—	0.4	2.3	—	—	1.3	11.1	—	—	—	27.0
NT	—	—	—	—	0.4	0.4	5.2	—	—	2.2	—	—	—	8.2
ACT	0.5	—	—	—	—	4.8	2.9	—	—	10.5	—	—	—	18.7
Australia	273.9	13.4	177.4	5.1	16.6	32.3	111.7	4.1	21.2	512.4	—	—	0.8	1,168.8

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

Period, State or Territory	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage drainage and distribution	Electricity generation, transmission and distribution	Heavy industry				Total		
								Telecomm- unications	Oil, gas, coal and other minerals	Other heavy industry	Other			
BY THE PUBLIC SECTOR — continued														
<i>June qtr 1997</i>														
NSW	102.5	16.1	130.0	—	3.6	7.0	46.8	0.6	8.2	325.0	—	—	2.3	642.3
Vic.	19.2	1.0	15.7	—	5.4	3.5	15.0	1.7	2.6	215.9	1.6	—	—	281.7
Qld	93.9	6.4	17.9	4.9	8.7	6.7	60.8	0.1	5.4	181.4	—	—	—	386.3
SA	78.9	0.2	0.2	—	0.8	5.3	29.5	—	1.9	16.5	—	—	—	133.4
WA	31.7	1.2	—	—	8.0	11.3	15.1	9.8	1.9	31.5	—	—	—	110.7
Tas.	7.1	1.0	—	—	0.1	0.2	—	—	1.3	18.8	—	—	—	28.4
NT	—	—	—	—	0.3	0.6	0.4	—	0.1	3.4	—	—	—	4.9
ACT	0.7	—	—	—	0.2	—	4.0	—	—	16.0	—	—	—	20.9
Australia	334.2	26.0	163.8	4.9	27.2	34.7	171.6	12.2	21.5	808.5	1.6	—	2.4	1,608.6
TOTAL														
<i>March qtr 1997 — r</i>														
NSW	464.7	9.9	158.2	0.5	32.3	38.4	38.7	10.9	79.5	254.7	34.6	17.7	1.9	1,142.0
Vic.	163.6	7.4	21.6	3.1	27.0	9.7	114.8	8.8	28.5	165.7	48.1	22.7	7.0	627.9
Qld	179.9	7.5	44.7	81.9	9.5	23.8	56.9	3.6	39.9	124.2	119.9	31.8	—	723.5
SA	90.7	1.1	1.9	0.4	9.7	5.0	36.6	4.2	8.4	10.8	76.6	5.7	0.2	251.2
WA	164.7	3.3	13.9	2.4	8.9	20.4	35.3	3.1	12.3	20.9	131.8	11.2	4.3	432.5
Tas.	30.7	0.2	—	0.1	0.5	2.5	11.7	—	3.6	11.1	0.5	—	—	61.0
NT	14.6	0.5	—	1.4	0.4	0.4	6.0	—	1.0	2.2	3.7	0.5	—	30.7
ACT	6.5	—	—	—	—	5.0	2.9	1.1	1.5	10.5	—	—	—	27.5
Australia	1,115.4	29.9	240.2	89.9	88.2	105.1	303.0	31.8	174.6	600.1	415.2	89.6	13.3	3,296.3
<i>June qtr 1997</i>														
NSW	287.4	15.1	150.0	2.2	12.7	34.6	77.4	21.7	84.7	329.7	126.2	12.7	3.9	1,178.6
Vic.	171.1	3.2	47.3	7.1	27.4	15.5	82.8	10.6	29.8	219.7	18.7	24.2	1.9	659.6
Qld	202.2	16.4	28.6	8.8	33.1	14.5	74.6	2.0	45.7	181.6	54.6	18.1	1.7	682.0
SA	126.7	1.3	1.5	1.5	8.6	6.4	32.6	14.5	8.8	16.7	54.3	36.6	0.2	309.8
WA	127.0	3.4	15.4	5.1	13.6	28.9	22.0	11.5	9.0	35.8	1,248.8	3.7	4.4	1,528.8
Tas.	22.4	1.0	—	—	0.7	0.6	—	—	3.0	18.8	2.2	4.7	—	53.4
NT	35.0	2.9	—	1.1	2.4	1.3	0.6	0.4	0.9	3.4	23.1	0.6	—	71.6
ACT	8.1	—	—	—	0.2	0.1	4.3	0.2	1.0	16.0	—	—	—	30.0
Australia	980.1	63.6	242.8	25.8	98.7	102.0	294.4	60.9	183.0	821.7	1,527.9	100.6	12.2	4,513.7

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	Heavy industry					Total	
								Pipelines	Recreation	Telecomm- unications	Oil, gas, coal and other minerals	Other heavy industry		Other
BY THE PRIVATE SECTOR														
<i>March qtr 1997 ---r</i>														
NSW	210.8	7.7	65.0	2.2	15.3	21.5	22.4	16.0	56.7	14.9	36.0	21.4	1.0	491.0
Vic.	210.9	3.5	3.9	9.9	17.0	11.2	48.8	7.9	28.1	10.0	17.4	34.4	2.5	405.5
Qld	120.5	1.3	10.1	53.3	14.2	18.5	22.4	11.0	31.8	10.2	148.6	35.0	---	476.9
SA	43.8	3.9	1.7	4.0	8.6	2.0	6.9	5.4	7.6	0.1	11.7	10.2	0.2	106.1
WA	87.7	7.0	13.1	5.9	11.8	11.1	103.0	11.3	5.9	1.1	187.0	54.2	4.9	504.1
Tas.	22.2	---	---	0.1	0.2	1.5	0.3	---	0.7	---	2.2	---	---	27.2
NT	12.1	0.2	---	4.1	---	---	1.3	0.5	1.1	---	5.9	0.5	---	25.7
ACT	10.7	---	---	---	0.1	0.1	---	0.2	2.4	---	---	---	---	13.5
Australia	718.8	23.7	93.9	79.5	67.1	65.9	205.1	52.3	134.2	36.4	408.9	155.7	8.7	2,050.1
<i>June qtr 1997 --</i>														
NSW	222.6	10.3	78.5	3.0	16.3	25.9	31.3	18.8	59.5	22.1	43.1	15.8	1.0	548.2
Vic.	247.3	5.1	10.1	8.4	28.4	13.2	54.4	8.7	28.4	20.8	18.7	31.0	7.0	481.4
Qld	112.6	5.5	20.7	31.6	19.1	21.7	33.3	26.0	40.9	7.8	170.5	42.3	1.1	533.0
SA	54.4	4.2	1.4	3.7	14.8	1.6	21.0	15.0	7.1	0.2	26.2	12.1	0.2	161.8
WA	106.0	5.1	13.3	5.5	7.3	20.0	138.5	14.5	7.8	2.9	207.4	27.9	4.6	560.8
Tas.	16.8	---	---	---	0.5	1.0	0.1	---	2.4	---	3.8	1.9	---	26.7
NT	14.0	1.1	---	4.1	0.3	0.2	0.3	0.8	0.9	---	6.6	0.6	---	29.0
ACT	11.7	---	---	---	---	0.1	0.1	1.0	1.2	---	---	---	---	14.1
Australia	785.5	31.4	124.0	56.2	86.9	83.7	279.1	84.8	148.2	53.7	476.3	131.6	13.7	2,355.2
BY THE PUBLIC SECTOR														
<i>March qtr 1997 ---r</i>														
NSW	135.6	5.7	150.0	---	9.5	11.2	44.6	0.4	8.7	213.5	---	---	0.4	579.6
Vic.	20.0	1.9	11.7	---	4.5	5.1	11.1	0.3	1.5	128.7	0.9	---	---	185.6
Qld	85.1	4.5	36.9	5.1	10.2	9.2	40.4	---	7.4	117.6	---	---	---	316.5
SA	56.5	0.2	0.1	0.3	4.5	4.2	13.5	---	3.9	10.7	---	---	0.3	94.2
WA	35.1	2.6	---	---	2.7	6.0	12.7	4.1	2.3	21.0	---	---	---	86.5
Tas.	13.7	0.5	---	---	0.4	1.1	4.6	---	0.9	11.5	---	---	---	32.8
NT	0.1	---	---	---	0.2	0.1	2.0	---	---	2.2	---	---	---	4.6
ACT	0.5	---	---	---	0.2	2.1	3.0	---	---	10.7	---	---	---	16.4
Australia	346.7	15.4	198.6	5.4	32.3	38.9	131.8	4.8	24.8	515.9	0.9	---	0.7	1,316.2

**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 and drainage	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														
<i>June qtr 1997</i>														
NSW	228.8	23.9	130.0	—	9.3	15.6	51.4	0.6	12.9	326.4	—	—	0.6	799.6
Vic.	25.4	2.0	22.9	—	5.4	12.5	11.5	1.7	2.7	216.3	—	—	—	301.9
Qld	129.3	5.2	51.5	4.9	11.3	17.2	48.2	0.1	8.4	182.0	—	—	—	458.0
SA	83.7	0.3	0.2	0.4	5.3	8.1	29.6	—	1.7	16.6	—	—	—	145.8
WA	55.7	1.5	—	—	8.2	11.7	15.1	1.8	2.9	31.6	—	—	—	138.5
Tas.	11.5	0.6	—	—	0.5	1.7	3.4	—	1.1	18.9	—	—	—	37.6
NT	0.1	—	—	—	0.7	0.2	1.0	—	0.1	3.4	—	—	—	5.5
ACT	0.6	—	—	—	0.3	2.7	4.0	—	—	16.6	—	—	—	24.2
Australia	535.2	33.5	204.6	5.3	40.9	69.7	164.2	4.3	29.7	811.7	1.4	—	0.6	1,901.2
TOTAL														
<i>March qtr 1997 — r</i>														
NSW	346.5	13.4	215.0	2.2	24.7	32.7	67.0	16.4	65.4	228.5	36.0	21.4	1.4	1,070.6
Vic.	230.8	5.4	15.6	9.9	21.5	16.3	59.9	8.2	29.5	138.8	18.2	34.4	2.5	591.1
Qld	205.7	5.8	46.9	58.4	24.4	27.7	62.8	11.0	39.2	127.8	148.6	35.0	—	793.4
SA	100.3	4.2	1.9	4.3	13.2	6.2	20.3	5.4	11.5	10.8	11.7	10.2	0.4	200.3
WA	122.9	9.6	13.1	5.9	14.5	17.0	115.7	15.4	8.2	22.2	187.0	54.2	4.9	590.6
Tas.	35.9	0.5	—	0.1	0.6	2.6	4.9	—	1.6	11.5	2.2	—	—	60.0
NT	12.2	0.2	—	4.1	0.2	0.1	3.3	0.5	1.1	2.2	5.9	0.5	—	30.3
ACT	11.2	—	—	—	0.2	2.2	3.0	0.2	2.4	10.7	—	—	—	29.9
Australia	1,065.5	39.1	292.5	84.9	99.4	104.8	336.8	57.2	158.9	552.4	409.7	155.7	9.4	3,366.3
<i>June qtr 1997</i>														
NSW	451.4	34.2	208.5	3.0	25.6	41.5	82.8	19.4	72.4	348.5	43.1	15.8	1.5	1,347.8
Vic.	272.8	7.1	33.0	8.4	33.8	25.6	66.0	10.4	31.1	237.0	20.2	31.0	7.0	783.3
Qld	241.9	10.6	72.2	36.5	30.4	38.9	81.6	26.1	49.3	189.8	170.5	42.3	1.1	991.1
SA	138.1	4.5	1.5	4.0	20.1	9.8	50.6	15.0	8.8	16.8	26.2	12.1	0.2	307.7
WA	161.7	6.7	13.3	5.5	15.5	31.7	153.6	16.3	10.6	34.4	207.4	27.9	4.6	689.4
Tas.	28.3	0.6	—	—	1.0	2.7	3.4	—	3.5	18.9	3.8	1.9	—	64.3
NT	14.1	1.1	—	4.1	1.0	0.4	1.3	0.8	1.0	3.4	6.6	0.6	—	34.5
ACT	12.3	—	—	—	0.4	2.8	4.0	1.0	1.2	16.6	—	—	—	38.3
Australia	1,320.6	64.9	328.6	61.5	127.8	153.4	443.4	89.1	178.0	865.4	477.7	131.6	14.4	4,256.4

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

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 1997 - r</i>														
NSW	482.5	18.3	324.7	1.4	27.6	42.5	55.7	3.3	30.3	33.8	70.7	43.6	0.1	1,134.4
Vic.	1,361.0	5.2	13.0	14.7	20.2	33.1	103.8	0.2	5.2	32.9	61.0	17.4	4.4	1,672.2
Qld	95.0	2.5	36.4	88.7	18.5	23.1	120.8	94.3	4.7	10.2	258.5	59.8	—	812.4
SA	50.8	2.1	—	3.2	87.0	1.4	88.3	4.2	0.6	0.1	90.6	30.7	—	359.2
WA	333.8	6.2	96.5	3.1	2.9	22.6	355.4	23.1	4.5	0.1	480.9	21.4	0.8	1,351.2
Tas.	17.4	—	—	—	—	0.9	11.4	—	2.1	—	3.2	—	—	35.1
NT	8.4	0.3	—	11.8	—	0.3	0.3	1.6	0.1	—	31.1	0.3	—	53.9
ACT	23.2	—	—	—	—	0.1	—	0.9	3.9	—	—	—	—	28.0
Australia	2,372.0	34.7	470.6	122.9	156.2	123.6	735.7	127.6	51.5	77.1	996.0	173.2	5.3	5,446.4
<i>June qtr 1997</i>														
NSW	409.4	27.2	266.9	0.6	20.3	55.1	57.0	5.4	49.2	7.3	154.9	42.6	0.8	1,096.6
Vic.	1,260.1	3.6	35.3	13.5	18.7	32.5	127.3	0.3	3.2	5.5	63.1	10.0	0.4	1,573.5
Qld	87.4	7.1	31.2	60.5	25.9	8.7	81.4	70.4	3.9	3.0	160.8	36.7	1.1	578.2
SA	45.3	0.1	—	0.9	79.7	0.9	69.2	2.8	0.4	—	133.6	57.6	—	390.5
WA	319.0	3.2	95.7	2.8	0.7	21.4	221.3	10.6	3.8	1.5	1,523.4	30.7	0.8	2,235.0
Tas.	14.2	—	—	—	—	0.4	11.4	—	1.4	—	1.4	2.8	—	31.5
NT	29.2	2.1	—	8.8	1.7	0.5	0.1	1.2	—	—	47.6	0.3	—	91.4
ACT	19.6	—	—	—	—	0.1	0.2	—	3.6	—	—	—	—	23.5
Australia	2,184.2	43.2	429.0	87.0	147.1	119.6	568.0	90.7	65.5	17.4	2,084.7	180.8	3.0	6,020.2
BY THE PUBLIC SECTOR														
<i>March qtr 1997 - r</i>														
NSW	322.6	14.2	—	—	27.4	51.0	54.3	0.6	12.2	4.1	—	—	1.2	487.7
Vic.	12.2	2.2	20.0	—	2.4	11.7	13.5	0.6	1.7	2.9	0.7	—	—	67.9
Qld	159.5	5.3	230.5	—	14.3	32.3	96.8	—	10.8	2.1	—	—	—	551.6
SA	10.9	0.1	—	1.2	59.8	15.2	0.1	—	3.3	1.2	—	—	—	92.0
WA	41.2	0.4	—	—	0.5	1.3	—	0.3	3.7	1.0	—	—	—	48.6
Tas.	9.2	0.1	—	—	1.5	4.5	44.0	f	1.3	1.0	—	—	—	61.6
NT	0.1	—	—	—	1.3	0.7	7.0	—	0.1	0.8	—	—	—	10.0
ACT	0.1	—	—	—	2.3	2.8	—	—	—	4.1	—	—	—	9.2
Australia	555.8	22.3	250.6	1.2	109.6	119.6	215.8	1.5	33.2	17.1	0.7	—	1.2	1,328.5

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	Telecom- munications	Oil, gas, coal and other minerals	Other heavy industry		
BY THE PUBLIC SECTOR - continued														
June qtr 1997--														
NSW	165.1	3.2			18.6	41.6	38.8		8.8	1.3			2.9	280.3
Vic.	4.5	0.7	12.8		2.4	2.5	16.8		1.5	1.8		0.8		43.8
Qld	124.8	6.6	190.5		16.2	23.0	105.5		7.4	1.4				475.4
SA	3.2			0.9	48.2	13.0			2.4	0.3				68.1
WA	17.0	0.1			0.2	0.9		8.2	2.4	0.4				29.4
Tas.	3.1	0.5			1.1	2.9	40.8		1.2					49.5
NT	--	--			0.9	1.1	6.4		0.1	1.0				9.5
ACT	0.1				2.1	0.2	0.1			3.4				5.9
Australia	317.9	11.1	203.4	0.9	89.8	83.2	208.3	8.2	23.9	9.7	0.8		2.9	962.0
TOTAL														
March qtr 1997--														
NSW	805.1	32.6	324.7	1.4	55.0	93.5	110.0	3.8	42.5	37.9	70.7	43.6	1.3	1,622.1
Vic.	1,373.2	7.4	33.0	14.7	22.6	44.9	117.4	0.8	6.9	35.7	61.7	17.4	4.4	1,740.0
Qld	254.5	7.8	266.9	88.7	32.8	55.4	217.5	94.3	15.5	12.3	258.5	59.8		1,364.0
SA	61.7	2.2		4.4	146.8	16.7	88.4	4.2	3.9	1.3	90.6	30.7		451.1
WA	375.0	6.6	96.5	3.1	3.3	23.9	355.5	23.4	8.3	1.1	480.9	21.4	0.8	1,399.8
Tas.	26.6	0.1			1.5	5.4	55.4		3.4	1.0	3.2			96.7
NT	8.4	0.3		11.8	1.3	0.7	7.2	1.6	0.2	0.8	31.1	0.3		63.9
ACT	23.2				2.3	2.9		0.9	3.9	4.1				37.2
Australia	2,927.8	57.0	721.2	124.1	265.8	243.2	951.5	129.0	84.6	94.2	996.7	173.2	6.5	6,774.9
June qtr 1997--														
NSW	574.5	30.4	266.9	0.6	38.9	96.7	95.7	5.4	58.0	8.6	154.9	42.6	3.7	1,377.0
Vic.	1,264.6	4.3	48.1	13.5	21.1	35.0	144.1	0.3	4.7	7.3	63.9	10.0	0.4	1,617.3
Qld	212.2	13.6	221.7	60.5	42.1	31.7	186.9	70.4	11.3	4.4	160.8	36.7	1.1	1,053.6
SA	48.6	0.1		1.7	127.9	13.9	69.2	2.8	2.8	0.4	133.6	57.6		458.6
WA	336.0	3.3	95.7	2.8	1.0	22.3	221.3	18.9	6.3	1.9	1,523.4	30.7	0.8	2,264.4
Tas.	17.2	0.5			1.1	3.3	52.2		2.6		1.4			81.0
NT	29.2	2.1		8.8	2.7	1.6	6.5	1.2	0.1	1.0	47.6	0.3		100.9
ACT	19.7				2.1	0.2	0.3		3.6	3.4				29.4
Australia	2,502.0	54.3	632.4	87.9	236.9	204.8	776.3	98.9	89.4	27.0	2,085.5	180.8	6.0	6,982.2

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

<i>Stage of construction</i>	<i>NSW</i>	<i>Vic.</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas.</i>	<i>NT</i>	<i>ACT</i>	<i>Australia</i>
MARCH QUARTER 1997 r									
<i>For the private sector —</i>									
Value of work commenced	235.5	314.2	248.1	107.8	227.7	8.2	8.5	4.6	1,154.7
Value of work done	248.6	258.0	318.1	52.1	345.8	8.8	9.5	6.0	1,247.0
Value of work yet to be done	250.2	1,318.4	620.1	187.7	781.2	6.9	36.7	19.4	3,220.5
<i>For the public sector —</i>									
Value of work commenced	409.3	140.3	188.0	64.2	127.2	25.8	13.9	4.1	972.9
Value of work done	242.4	147.4	158.8	54.0	158.2	18.4	16.2	7.5	803.1
Value of work yet to be done	884.2	353.7	192.3	171.5	570.0	28.2	17.2	8.6	2,225.9
Total									
Value of work commenced	644.8	454.5	436.2	172.0	354.8	34.0	22.4	8.7	2,127.5
Value of work done	491.0	405.5	476.9	106.1	504.1	27.2	25.7	13.5	2,050.1
Value of work yet to be done	1,134.4	1,672.2	812.4	359.2	1,351.2	35.1	53.9	28.0	5,446.4
JUNE QUARTER 1997									
<i>For the private sector —</i>									
Value of work commenced	313.5	215.4	177.3	125.5	1,326.7	16.6	28.5	5.7	2,209.3
Value of work done	258.3	295.7	373.9	86.8	372.8	12.3	10.8	8.5	1,419.2
Value of work yet to be done	300.4	1,207.8	418.9	242.2	1,763.1	11.1	54.4	16.7	4,014.7
<i>For the public sector —</i>									
Value of work commenced	222.8	162.5	118.3	50.9	91.4	8.4	38.1	3.4	695.8
Value of work done	289.9	185.7	159.2	75.0	188.1	14.4	18.2	5.6	936.0
Value of work yet to be done	796.2	365.6	159.3	148.3	471.9	20.4	37.0	6.8	2,005.5
Total									
Value of work commenced	536.3	377.9	295.7	176.4	1,418.2	25.0	66.7	9.1	2,905.1
Value of work done	548.2	481.4	533.0	161.8	560.8	26.7	29.0	14.1	2,355.2
Value of work yet to be done	1,096.6	1,573.5	578.2	390.5	2,235.0	31.5	91.4	23.5	6,020.2

**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 1997 r	June qtr 1997	Mar. qtr 1997 r	June qtr 1997	Mar. qtr 1997 r	June qtr 1997
COMMONWEALTH GOVERNMENT						
NSW	212.9	323.8	217.0	331.1	35.1	27.4
Vic.	127.8	215.9	128.8	216.3	2.9	1.8
Qld	117.0	181.1	117.6	181.8	2.0	1.3
SA	10.7	16.5	10.7	16.6	1.2	0.3
WA	20.8	31.5	21.0	31.6	1.0	0.4
Tas.	11.1	18.8	11.1	18.8	—	—
NT	2.2	3.4	2.2	3.4	0.8	1.0
ACT	10.5	16.0	10.5	16.0	—	—
<i>Australia</i>	<i>512.9</i>	<i>807.1</i>	<i>518.8</i>	<i>815.5</i>	<i>43.0</i>	<i>32.3</i>
STATE AND TERRITORY GOVERNMENT						
NSW	200.0	225.9	264.5	330.1	319.1	162.2
Vic.	21.6	42.2	35.7	57.1	51.1	35.2
Qld	105.6	128.2	119.4	154.9	387.1	350.3
SA	52.9	104.3	59.5	110.5	75.1	61.1
WA	28.7	56.2	37.0	64.6	18.3	9.9
Tas.	6.3	2.1	11.3	5.6	45.0	40.8
NT	6.0	1.3	2.3	1.9	9.0	8.5
ACT(a)	8.2	4.9	6.0	8.2	9.2	5.9
<i>Australia</i>	<i>429.4</i>	<i>565.1</i>	<i>535.6</i>	<i>732.9</i>	<i>913.9</i>	<i>673.9</i>
LOCAL GOVERNMENT						
NSW	84.3	92.6	98.1	138.4	133.4	90.7
Vic.	24.0	23.6	21.2	28.5	13.9	6.8
Qld	64.8	77.0	79.5	121.3	162.5	123.8
SA	15.7	12.6	24.0	18.7	15.7	6.6
WA	28.1	22.9	28.4	32.4	29.3	19.1
Tas.	9.5	7.5	10.3	13.3	16.6	8.6
NT	—	0.2	0.1	0.2	0.2	0.1
ACT	—	—	—	—	—	—
<i>Australia</i>	<i>226.4</i>	<i>236.4</i>	<i>261.7</i>	<i>352.8</i>	<i>371.6</i>	<i>255.8</i>
TOTAL GOVERNMENT						
NSW	497.2	642.3	579.6	799.6	487.7	280.3
Vic.	173.4	281.7	185.6	301.9	67.9	43.8
Qld	287.4	386.3	316.5	458.0	551.6	475.4
SA	79.2	133.4	94.2	145.8	92.0	68.1
WA	77.6	110.7	86.5	128.5	48.6	29.4
Tas.	27.0	28.4	32.8	37.6	61.6	49.5
NT	8.2	4.9	4.6	5.5	10.0	9.5
ACT	18.7	20.9	16.4	24.2	9.2	5.9
<i>Australia</i>	<i>1,168.8</i>	<i>1,608.6</i>	<i>1,316.2</i>	<i>1,901.2</i>	<i>1,328.5</i>	<i>962.0</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	Heavy industry				Total		
								Pipelines	Recreation	Telecommunications	Oil, gas, coal and other minerals		Other heavy industry	
BY THE PRIVATE SECTOR														
NSW	6.2	41.8	9.4	12.8	8.9	13.1	2.1	7.5	13.1	5.5	1.0	2.0	30.5	2.4
Vic.	3.2	18.4	—	41.4	24.8	21.0	—	14.5	20.7	18.5	1.8	—	8.0	2.6
Qld	3.6	54.3	11.9	45.5	11.0	10.6	2.4	39.1	16.8	95.2	1.8	—	38.6	2.5
SA	8.3	—	6.3	48.0	59.1	27.7	—	19.1	21.6	—	25.1	39.9	48.9	7.2
WA	4.8	—	—	—	14.7	27.6	0.2	—	20.5	6.1	7.7	1.7	32.2	1.4
Tas.	9.4	—	—	—	64.8	48.4	—	—	30.4	—	—	60.4	—	8.9
NT	14.5	—	—	—	13.2	48.2	10.3	—	49.5	—	—	—	—	5.8
ACT	35.2	—	—	—	—	—	—	—	54.3	—	—	—	—	28.9
Australia	2.2	32.6	4.3	10.7	6.8	7.4	0.8	18.7	8.2	10.0	3.1	1.8	19.3	1.1
BY THE PUBLIC SECTOR														
NSW	3.2	23.7	—	—	13.8	10.2	2.5	36.7	9.8	—	—	—	0.4	2.6
Vic.	4.9	5.0	—	—	0.7	1.6	1.2	—	34.6	—	—	—	—	0.3
Qld	4.9	6.5	—	—	15.3	9.5	—	—	8.7	—	—	—	—	2.8
SA	7.5	41.9	—	—	0.8	13.2	—	—	31.4	—	—	—	—	6.3
WA	6.8	—	—	—	6.5	2.0	—	—	11.8	—	—	—	—	3.7
Tas.	3.4	6.2	—	—	63.2	18.0	—	—	9.8	—	—	—	—	4.5
NT	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ACT	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Australia	2.1	5.2	—	—	5.4	3.4	0.9	0.3	5.7	—	—	—	7.4	0.7
TOTAL														
NSW	4.0	26.8	9.4	12.6	8.0	9.1	1.8	7.4	11.9	5.1	1.0	2.0	6.2	1.9
Vic.	2.8	9.6	—	35.2	11.6	9.0	1.3	2.7	20.3	—	1.7	—	7.7	0.9
Qld	2.9	43.5	6.9	23.8	9.7	7.5	0.7	36.4	15.1	89.8	1.8	—	38.6	2.0
SA	5.6	21.8	6.1	37.4	13.8	13.2	—	19.1	19.0	—	24.9	39.9	45.2	4.8
WA	4.0	8.9	—	—	7.9	8.9	0.2	86.7	13.9	6.1	7.7	1.7	29.9	1.3
Tas.	4.4	6.2	—	—	47.9	34.3	—	—	22.3	—	—	60.4	—	4.8
NT	14.4	—	—	—	12.3	44.7	9.5	—	48.8	—	—	—	—	5.6
ACT	33.7	—	—	—	—	—	—	—	54.3	—	—	—	—	12.5
Australia	1.7	19.8	2.5	8.6	4.3	4.2	0.6	9.6	7.4	0.2	3.1	1.8	14.0	0.8

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

State or Territory	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	
BY THE PRIVATE SECTOR														
NSW	5.3	9.4	6.9	8.3	5.9	10.3	1.8	7.9	12.5	1.1	0.8	1.7	25.5	2.3
Vic.	3.2	7.1	—	21.9	9.9	9.1	—	11.8	16.3	8.5	1.1	—	3.2	2.0
Qld	3.6	2.7	4.7	37.8	6.2	7.6	1.4	16.9	16.9	73.6	1.4	—	34.3	2.4
SA	7.9	—	10.0	34.1	37.8	24.3	—	11.7	22.8	—	8.8	41.4	42.8	7.9
WA	4.4	—	—	—	8.3	17.9	0.3	—	17.2	4.6	3.5	1.1	33.3	1.7
Tas.	6.2	—	—	—	21.3	43.4	—	—	25.2	—	—	66.4	—	8.1
NT	10.7	—	—	—	8.8	21.8	7.6	—	51.8	—	—	—	—	5.6
ACT	16.1	—	—	—	—	—	—	—	55.5	—	—	—	—	23.9
Australia	2.0	4.0	2.8	7.2	3.6	5.1	0.8	6.0	7.7	4.7	1.3	1.7	14.1	1.1
BY THE PUBLIC SECTOR														
NSW	1.2	3.0	—	—	9.2	7.8	1.8	41.3	6.7	—	—	—	1.9	0.9
Vic.	3.9	3.0	—	—	0.5	1.5	0.1	—	5.6	—	—	—	—	0.2
Qld	3.6	7.3	—	—	11.0	7.3	—	—	8.6	—	—	—	—	2.0
SA	6.6	38.8	—	—	0.9	11.1	—	—	33.7	—	—	—	—	4.9
WA	7.5	3.8	—	—	0.1	2.0	—	—	13.2	—	—	—	—	3.9
Tas.	3.2	1.8	—	—	43.4	9.8	—	—	7.1	—	—	—	—	2.9
NT	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ACT	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Australia	1.3	2.1	—	—	3.9	3.0	0.6	0.5	5.1	—	—	—	2.8	0.4
TOTAL														
NSW	2.5	4.7	1.2	8.0	5.3	7.1	1.3	7.8	11.0	0.8	0.8	1.7	6.0	1.3
Vic.	2.8	5.2	—	10.9	5.8	6.1	0.8	2.6	14.6	—	1.0	—	3.1	0.7
Qld	2.6	2.7	2.6	21.4	5.8	5.4	0.4	16.8	15.0	70.3	1.4	—	33.5	1.7
SA	5.2	5.4	9.2	17.3	9.9	10.8	—	11.1	19.4	—	8.8	33.7	38.8	4.7
WA	3.8	7.2	—	—	5.6	7.2	0.2	10.4	12.5	4.6	3.5	1.1	32.7	1.5
Tas.	3.2	1.5	—	—	24.6	25.6	—	—	18.2	—	—	66.4	—	3.6
NT	10.4	—	—	—	8.2	20.9	7.2	—	50.0	—	—	—	—	5.4
ACT	15.5	—	—	—	—	—	—	—	55.5	—	—	—	—	11.6
Australia	1.3	2.5	0.8	6.0	2.6	3.2	0.5	3.7	6.7	0.2	1.3	1.7	10.7	0.6

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	Electricity generation, transmission and distribution	Heavy industry					Total	
								Pipelines	Recreation	Telecommunications	Oil, gas, coal and other minerals	Other heavy industry		
BY THE PRIVATE SECTOR														
NSW	1.0	5.7	2.1	7.9	0.4	3.9	0.3	3.3	11.1	0.3	0.8	0.4	8.9	0.4
Vic.	1.3	18.6	—	0.6	1.1	1.9	—	0.8	19.4	4.7	10.2	—	0.9	1.1
Qld	1.1	37.8	4.1	5.3	3.7	6.2	1.4	9.9	6.6	6.6	64.6	—	64.3	0.8
SA	6.4	—	—	20.8	14.5	7.3	—	3.6	30.7	—	7.1	79.2	—	5.7
WA	3.0	—	—	—	11.8	20.0	—	—	10.4	25.3	2.3	0.6	11.3	0.5
Tas.	6.0	—	—	—	—	37.2	—	—	20.3	—	—	54.2	—	9.1
NT	3.5	—	—	—	2.8	3.1	2.6	—	—	—	—	—	—	0.7
ACT	25.5	—	—	—	—	—	—	—	30.3	—	—	—	—	7.4
Australia	0.7	13.6	1.3	1.8	0.6	2.1	0.2	3.5	6.7	0.9	1.5	0.9	15.1	0.3
BY THE PUBLIC SECTOR														
NSW	1.2	2.9	—	—	3.2	10.7	2.2	—	9.3	—	—	—	49.6	0.9
Vic.	12.1	2.0	—	—	0.7	0.1	0.4	—	1.7	—	—	—	—	1.5
Qld	3.2	2.6	—	—	14.2	8.0	—	—	11.0	—	—	—	—	2.1
SA	24.4	—	—	—	1.1	3.1	—	—	27.3	—	—	—	—	4.0
WA	8.7	2.3	—	—	7.6	13.8	—	—	20.2	—	—	—	—	6.3
Tas.	6.6	44.2	—	—	7.1	6.1	—	—	4.2	—	—	—	—	1.6
NT	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ACT	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Australia	1.4	2.1	—	—	3.1	2.2	0.4	4.5	5.3	—	—	—	29.1	0.8
TOTAL														
NSW	0.9	3.0	0.4	7.8	1.0	7.0	0.4	5.0	8.3	0.1	0.8	0.4	9.7	0.5
Vic.	1.4	15.4	—	0.5	0.6	0.4	0.3	0.8	13.6	4.5	7.5	—	0.9	1.0
Qld	1.6	27.2	1.4	5.3	9.3	5.4	0.3	9.8	6.2	42.5	0.4	—	60.3	1.0
SA	10.8	—	1.0	7.7	1.1	2.9	—	3.0	23.0	—	7.1	55.2	—	3.3
WA	4.2	0.8	—	—	10.2	14.5	—	4.6	11.2	23.8	2.3	0.6	21.3	0.9
Tas.	4.9	21.2	—	—	3.1	19.9	—	—	6.5	—	—	54.2	—	2.0
NT	3.1	—	—	—	2.5	3.0	2.3	—	20.7	—	—	—	—	0.7
ACT	24.8	—	—	—	—	—	—	—	30.3	—	—	—	—	2.4
Australia	0.7	8.2	0.4	1.6	1.6	1.7	0.2	2.9	4.7	0.5	1.5	0.9	14.3	0.4

EXPLANATORY NOTES

INTRODUCTION

- 1** 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 surveys scope. Where projects include elements of both building and engineering construction, for example, 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 and New Zealand Standard Industrial Classification, 1993 (1292.0).

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:
 - *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.
 - *Bridges.* Includes those for the support of roads, railways, causeways and elevated highways.
 - *Railways.* Includes tracklaying; overhead power lines and signals; platforms; tramways; tunnels for underground railways; fuel hoppers.

EXPLANATORY NOTES *continued*

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- *Harbours*. Includes boat and yacht basins; breakwaters; retaining walls; docks and piers; terminals; wharves; dredging works; marinas.
- *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.
- *Sewerage and drainage*. Includes sanitary and storm sewers; sewage treatment plants; stormwater drains; drainage systems.
- *Electricity generation, transmission and distribution*. Includes power stations; substations; hydroelectric generating plants; associated work i.e. towers, chimneys; transmission and distribution lines.
- *Pipelines*. Includes oil and gas pipelines; urban supply mains for gas; pipelines for refined petroleum products, chemicals, foodstuffs, etc.
- *Recreation*. Includes golf courses; playing fields; racecourses; stadiums; swimming pools; landscaping; park construction.
- *Telecommunications*. Includes radio, television, microwave and radar transmission towers; telephone and telegraph lines and underground cables; coaxial cables.
- *Heavy industry*
 - ◆ *Oil, gas, coal and other minerals*. Includes construction of production, storage and distribution facilities; refineries; pumping stations; construction of mines;
 - ◆ *Other heavy industry*. Includes construction of chemical plants; blast furnaces; steel mills; other industrial processing plants; ovens.

DEFINITIONS

10 Definitions used are as follows:

- *Ownership*. Projects are classified as private sector or public sector according to the expected ownership of the project at the time of completion.
- *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:
 - ◆ Commonwealth Government;
 - ◆ State and Territory Government; and
 - ◆ Local Government.All remaining organisations are classified as private sector.
- *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.
- *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.
- *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 organisations own workforce.

EXPLANATORY NOTES *continued*

RELIABILITY OF THE ESTIMATES

11 Since the figures for private sector and public sector organisations are derived from information obtained from a sample of organisations they are subject to sampling error; that is, they may differ from the figures that would have been obtained if information for all organisations for the relevant period had been included in the survey. A measure of the likely difference is given by the relative standard error of each estimate. There are about two chances in three that a sample estimate will differ by less than one standard error from the figure that would have been obtained if all units had been included, and about nineteen chances in twenty that the difference will be less than two standard errors. Relative standard errors of the estimates are shown in tables 14, 15 and 16.

12 An example of the use of standard errors is as follows. If the total value of work done during the quarter is \$2,500m and the associated standard error is 0.5% 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, 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 1,2 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 years data. The results of the latest review are included in this issue. Information regarding the methods used in seasonally adjusting the series, is available on request.

EXPLANATORY NOTES *continued*

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 and special products 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

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 *Release Advice* (1105.0) which lists publications to be released in the next few days. The Catalogue and Release Advice are available from any ABS office.



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