

ENGINEERING CONSTRUCTION ACTIVITY

AUSTRALIA

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C O N T E N T S

	<i>page</i>
Notes.....	2
Summary of Findings	3
Tables	5
Explanatory Notes	23

- For more information about these and related statistics, contact Rex Porter on Adelaide (08) 8237 7672 or refer to the back cover of this publication.

NOTES

FORTHCOMING ISSUES

ISSUE

March Quarter 1998

RELEASE DATE

16 July 1998

SIGNIFICANT CHANGES

Private sector estimates for the September quarter 1997 have been significantly revised. Total work done by the private sector has decreased by \$139.7 million (5.6%). This is mainly due to a change in Heavy Industry for Western Australia.

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

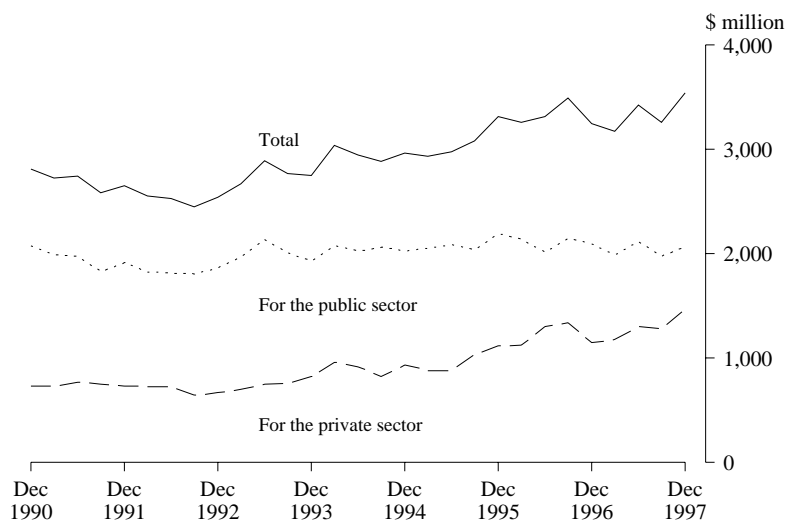
Changes in the seasonally adjusted value of engineering construction work done, at average 1989-90 prices, in the December quarter 1997, compared with the previous quarter and a year previously, are summarised below.

	Change Sep qtr 97 to Dec qtr 97	Change Dec qtr 96 to Dec qtr 97
<i>Engineering construction work done</i>	%	%
By private sector		
For private sector	15.1	28.6
For public sector	14.2	9.1
Total by private sector	14.8	21.0
By public sector	-0.9	-6.9
<i>Total for public sector (a)</i>	4.5	-1.3
Total engineering construction	8.6	9.3

(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, at average 1989-90 prices, rose by 8.6% in the December quarter 1997 to \$3543.1 million. This is the highest number since the series started in the September quarter 1986. Work for the private sector rose by 15.1% and work for the public sector rose by 4.5%.

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 December quarter 1997 was \$3,954.4 million. This is a drop of 18.8% from the September quarter 1997 estimate (refer Table 8) but is 10.8% higher than for the December quarter 1996.

Commencements for the private sector fell by 18.6% to \$1,761.6 million but were still 31.0% higher than for the December quarter 1996. Commencements for the public sector fell by 19.0% to \$2,192.9 million. This is 1.4% below the level for the December quarter 1996.

**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	5,630.1	3,363.7	8,993.8	6,171.3	9,534.9	15,165.0
1996 Sept. qtr	1,565.6	789.7	2,355.2	1,440.5	2,230.1	3,795.7
Dec. qtr	1,395.1	830.8	2,225.9	1,509.3	2,340.1	3,735.2
1997 Mar. qtr	1,247.0	803.1	2,050.1	1,316.2	2,119.3	3,366.3
June qtr	1,422.4	940.1	2,362.6	1,905.3	2,845.4	4,267.8
Sept. qtr r	1,515.5	828.3	2,343.8	1,271.9	2,100.2	3,615.8
Dec. qtr	1,804.8	920.1	2,724.9	1,424.7	2,344.9	4,149.7
SEASONALLY ADJUSTED						
1996 Sept. qtr	1,509.1	784.2	2,293.3	1,660.3	2,444.4	3,953.6
Dec. qtr	1,300.3	850.6	2,150.9	1,539.9	2,390.5	3,690.8
1997 Mar. qtr	1,343.1	842.6	2,185.6	1,440.6	2,283.1	3,626.2
June qtr	1,481.9	892.3	2,374.2	1,542.6	2,434.9	3,916.8
Sept. qtr r	1,459.0	824.2	2,283.2	1,432.1	2,256.3	3,715.3
Dec. qtr	1,682.5	947.1	2,629.5	1,419.3	2,366.4	4,048.8

(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	3,526.7	2,608.7	6,135.4	5,656.0	8,264.7	11,791.4
1995-96	4,575.1	2,559.4	7,134.6	5,786.0	8,345.4	12,920.6
1996-97	4,967.9	2,914.5	7,882.4	5,426.4	8,340.9	13,308.8
1996 Sept. qtr	1,388.0	687.4	2,075.4	1,277.2	1,964.6	3,352.6
Dec. qtr	1,229.5	721.5	1,951.0	1,331.5	2,053.0	3,282.5
1997 Mar. qtr	1,097.7	694.0	1,791.7	1,154.2	1,848.2	2,945.9
June qtr	1,252.7	811.6	2,064.3	1,663.5	2,475.1	3,727.8
Sept. qtr r	1,330.2	710.2	2,040.4	1,109.6	1,819.8	3,150.0
Dec. qtr	1,580.9	783.1	2,364.0	1,239.9	2,023.0	3,603.9
SEASONALLY ADJUSTED						
1996 Sept. qtr	1,338.0	680.8	2,018.8	1,472.1	2,152.9	3,490.9
Dec. qtr	1,146.0	737.3	1,883.3	1,358.5	2,095.8	3,241.8
1997 Mar. qtr	1,182.2	728.3	1,910.5	1,263.3	1,991.6	3,173.8
June qtr	1,305.1	773.5	2,078.6	1,346.9	2,120.4	3,425.5
Sept. qtr r	1,280.6	704.7	1,985.3	1,276.2	1,980.9	3,261.5
Dec. qtr	1,473.7	804.6	2,278.3	1,264.8	2,069.4	3,543.1

(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	1,070.5	40.5	55.9	118.9	141.0	70.9	398.8	248.9	584.8	130.7	3,318.6	31.5	6,210.9
1996 Sept. qtr	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	291.1	30.8	5.1	8.9	37.2	13.1	123.7	135.8	175.7	10.1	506.2	6.8	1,344.5
1997 Mar. qtr	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	252.2	3.7	21.9	12.5	36.1	12.5	74.0	48.7	122.4	10.7	1,608.1	5.0	2,207.9
Sept. qtr r	829.8	1.3	13.1	154.8	38.5	26.7	64.5	55.6	164.5	11.6	786.5	17.3	2,164.3
Dec. qtr	303.5	2.3	258.6	35.2	48.8	41.9	142.9	62.5	186.0	10.2	662.0	12.7	1,761.6
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	1,664.5	88.9	589.3	136.3	235.9	183.5	248.2	25.9	120.2	7.4	121.9	9.7	3,431.6
1996 Sept. qtr	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	339.7	19.9	37.3	30.2	53.8	37.2	85.4	6.2	16.6	2.6	33.7	2.4	665.0
1997 Mar. qtr	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	402.5	33.8	57.2	8.4	35.3	54.6	48.7	1.7	40.7	2.4	11.1	3.1	699.7
Sept. qtr r	367.6	17.1	40.2	5.1	12.0	63.5	104.1	2.1	27.1	6.0	6.0	3.6	654.2
Dec. qtr	709.4	44.1	55.5	20.3	13.4	46.2	46.6	1.2	26.7	8.1	8.6	9.3	989.4
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	2,734.9	129.4	645.2	255.2	376.8	254.4	647.0	274.8	705.0	138.1	3,440.4	41.1	9,642.5
1996 Sept. qtr	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	630.8	50.7	42.5	39.0	91.0	50.3	209.1	142.0	192.3	12.7	539.9	9.2	2,009.5
1997 Mar. qtr	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	654.8	37.6	79.0	20.9	71.5	67.1	122.7	50.5	163.1	13.2	1,619.2	8.2	2,907.6
Sept. qtr r	1,197.3	18.4	53.3	160.0	50.5	90.1	168.6	57.6	191.6	17.6	792.5	20.9	2,818.5
Dec. qtr	1,012.9	46.4	314.1	55.5	57.2	88.0	189.4	63.8	212.7	18.3	670.6	21.9	2,751.0

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

Period	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecommunications	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	1,466.3	34.2	79.5	79.7	120.8	75.3	410.8	237.6	581.2	166.1	2,344.1	34.5	5,630.1	..
1996 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	355.1	8.2	17.8	15.0	37.1	21.2	98.5	51.1	171.4	36.0	575.9	7.9	1,395.1	1,300.3
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	1,343.1
June qtr	366.3	10.0	19.3	31.6	34.8	22.5	114.0	84.9	123.9	50.7	553.8	10.5	1,422.4	1,481.9
Sept. qtr r	375.6	5.5	20.1	39.8	41.4	28.0	127.6	77.6	155.0	26.7	600.7	17.6	1,515.5	1,459.0
Dec. qtr	438.0	5.2	37.2	45.7	43.8	26.2	166.8	65.2	173.3	14.2	777.8	11.3	1,804.8	1,682.5
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	1,512.4	102.5	390.3	150.2	170.6	212.3	515.0	79.8	89.4	7.1	124.1	10.1	3,363.7	..
1996 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	42.2	53.9	131.0	24.0	17.9	0.9	20.2	3.4	830.8	850.6
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	842.6
June qtr	427.1	21.3	104.7	24.6	52.0	61.1	165.1	2.3	26.2	3.1	50.3	2.3	940.1	892.3
Sept. qtr r	395.5	18.0	91.9	20.2	42.9	63.2	112.1	2.1	29.6	7.7	38.7	2.5	828.3	824.2
Dec. qtr	476.5	31.7	105.1	17.4	36.1	63.1	124.3	1.3	33.8	5.4	21.0	4.5	920.1	947.1
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	2,978.7	136.7	469.8	229.9	291.4	287.6	925.7	317.4	670.5	173.2	2,468.2	44.6	8,993.8	..
1996 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	728.7	33.0	120.1	51.5	79.3	75.0	229.5	75.1	189.3	36.9	596.1	11.3	2,225.9	2,150.9
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	2,185.6
June qtr	793.4	31.4	124.0	56.2	86.9	83.5	279.1	87.2	150.1	53.8	604.1	12.8	2,362.6	2,374.2
Sept. qtr r	775.1	23.5	112.0	60.0	84.3	91.2	239.8	79.6	184.6	34.4	639.4	20.1	2,343.8	2,283.2
Dec. qtr	914.5	36.9	142.3	63.1	79.9	89.4	291.0	66.5	207.1	19.6	798.8	15.9	2,724.9	2,629.5

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

Period	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecommunications	Heavy industry	Other	Total
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	1,171.1	10.1	99.6	61.5	25.9	11.5	294.5	106.5	27.7	17.1	2,239.7	0.9	4,066.1
1996 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	33.7	18.9	1,159.8	0.8	3,306.1
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	1,171.1	10.1	99.6	61.5	25.9	11.5	294.5	106.5	27.7	17.1	2,239.7	0.9	4,066.1
Sept. qtr	1,593.2	5.9	93.9	177.8	13.4	13.2	211.9	103.4	58.3	13.1	2,168.0	8.0	4,460.0
Dec. qtr	1,484.8	2.7	315.9	166.0	14.5	28.4	185.1	88.8	67.5	11.2	2,114.7	3.7	4,483.3
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	1,015.2	43.5	329.4	25.6	121.2	101.8	273.5	0.1	39.6	0.2	58.7	1.0	2,009.6
1996 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	1,015.2	43.5	329.4	25.6	121.2	101.8	273.5	0.1	39.6	0.2	58.7	1.0	2,009.6
Sept. qtr	978.9	30.3	283.7	10.5	99.2	99.4	267.0	0.3	39.5	0.7	23.7	2.1	1,835.2
Dec. qtr	1,310.4	54.8	238.3	20.7	73.4	97.4	192.6	0.1	29.5	3.5	11.7	5.6	2,037.8
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	2,186.3	53.6	429.0	87.0	147.1	113.3	568.0	106.6	67.3	17.4	2,298.3	1.9	6,075.7
1996 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	36.4	20.5	1,205.5	1.1	5,349.6
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	2,186.3	53.6	429.0	87.0	147.1	113.3	568.0	106.6	67.3	17.4	2,298.3	1.9	6,075.7
Sept. qtr	2,572.1	36.2	377.5	188.3	112.5	112.5	478.8	103.7	97.8	13.8	2,191.7	10.1	6,295.2
Dec. qtr	2,795.2	57.4	554.2	186.7	87.9	125.8	377.6	88.8	96.9	14.6	2,126.4	9.3	6,521.1

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

Period	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecommunications	Heavy industry			Total
											Oil, gas, coal and other minerals	Other heavy industry	Other	
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	1,724.3	79.5	949.9	22.1	114.4	183.0	582.4	22.0	117.3	2,602.0	9.1	—	4.1	6,410.2
1996 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	319.9	37.8	69.4	4.9	27.4	36.3	171.6	12.2	22.0	808.5	1.6	—	2.3	1,514.0
Sept. qtr r	915.0	53.7	247.0	8.7	70.9	58.8	137.1	10.2	42.0	503.5	2.8	—	4.3	2,053.9
Dec. qtr	317.7	27.4	24.8	8.2	31.7	61.7	147.8	2.2	22.7	554.8	4.3	—	0.3	1,203.5
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	1,548.0	99.1	848.1	23.1	139.4	197.4	574.4	20.7	106.0	2,609.4	3.5	—	2.0	6,171.3
1996 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	522.9	47.2	204.6	5.3	41.4	70.6	164.2	4.3	31.0	811.7	1.4	—	0.6	1,905.3
Sept. qtr r	332.8	37.0	152.9	4.4	30.8	38.0	135.0	9.1	18.8	504.6	2.8	—	5.6	1,271.9
Dec. qtr	410.3	30.8	109.2	7.7	37.3	67.2	161.6	2.0	24.0	565.1	4.3	0.1	4.9	1,424.7
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	313.3	9.0	328.3	0.9	89.8	84.6	208.3	8.2	23.9	9.7	0.8	—	2.8	1,079.6
1996 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	313.3	9.0	328.3	0.9	89.8	84.6	208.3	8.2	23.9	9.7	0.8	—	2.8	1,079.6
Sept. qtr r	837.9	33.5	451.3	5.8	72.1	72.1	224.0	1.8	42.8	8.7	—	—	23.4	1,773.4
Dec. qtr	649.2	36.6	369.7	6.2	70.5	74.3	199.3	5.3	39.1	30.4	—	—	19.9	1,500.3

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

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	
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	3,388.7	168.4	1,539.2	158.4	350.3	366.5	830.6	48.0	237.5	2,609.3	117.1	13.8	13.8	9,841.8
1996 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	79.0	76.4	227.5	9.3	41.9	633.8	35.3	—	3.1	2,223.5
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	722.5	71.6	126.6	13.3	62.8	90.9	220.4	13.9	62.7	811.0	6.1	6.6	5.4	2,213.7
Sept. qtr	1,282.5	70.8	287.2	13.8	82.9	122.2	241.2	12.3	69.0	509.5	7.0	1.9	7.8	2,708.2
Dec. qtr	1,027.1	71.5	80.3	28.6	45.1	107.8	194.4	3.4	49.4	562.8	11.7	1.2	9.6	2,192.9
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	3,060.4	201.6	1,238.5	173.2	310.0	409.7	1,089.4	100.5	195.4	2,616.5	113.5	14.2	12.0	9,534.9
1996 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	76.7	101.9	287.9	29.4	43.9	630.5	14.4	6.4	3.8	2,340.1
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	950.0	68.5	309.3	29.9	93.5	131.7	329.4	6.6	57.1	814.8	46.9	4.9	2.9	2,845.4
Sept. qtr	732.3	55.0	244.8	24.6	73.7	101.2	247.1	11.2	48.4	512.3	41.0	0.5	8.1	2,100.2
Dec. qtr	886.8	62.5	214.3	25.1	73.4	130.3	285.9	3.3	57.8	570.6	22.8	2.6	9.5	2,344.9
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	1,328.5	52.4	657.7	26.4	210.9	186.4	481.8	8.3	63.5	9.9	52.6	6.9	3.8	3,089.3
1996 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	1,328.5	52.4	657.7	26.4	210.9	186.4	481.8	8.3	63.5	9.9	52.6	6.9	3.8	3,089.3
Sept. qtr	1,816.8	63.8	735.0	16.3	171.3	171.5	490.9	2.1	82.3	9.4	20.0	3.8	25.5	3,608.6
Dec. qtr	1,959.6	91.3	607.9	26.9	143.9	171.7	391.8	5.3	68.6	33.9	9.1	2.6	25.5	3,538.0

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

<i>Period</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>
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	5,267.8	2,291.2	3,605.0	1,036.4	3,302.5	235.0	193.4	121.3	16,052.7
1996 Sept. qtr	2,002.9	474.3	1,175.9	263.5	703.8	60.6	55.4	30.4	4,766.8
Dec. qtr	1,037.4	540.0	1,032.1	211.9	617.3	60.5	35.3	33.5	3,568.0
1997 Mar. qtr	1,142.0	627.9	723.5	251.2	432.5	61.0	30.7	27.5	3,296.3
June qtr	1,085.4	649.0	673.4	309.8	1,549.0	53.0	72.0	30.0	4,421.6
Sept. qtr	2,292.0	481.9	902.3	408.9	676.9	51.8	34.7	24.1	4,872.5
Dec. qtr	954.6	578.3	1,194.5	206.7	892.4	43.7	50.0	34.3	3,954.4
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	5,010.1	2,472.2	3,593.4	844.9	2,684.4	232.9	191.1	136.1	15,165.0
1996 Sept. qtr	1,331.3	533.1	896.7	151.1	729.1	50.7	67.6	36.1	3,795.7
Dec. qtr	1,257.9	575.0	916.4	185.8	652.1	58.1	58.2	31.8	3,735.2
1997 Mar. qtr	1,070.6	591.1	793.4	200.3	590.6	60.0	30.3	29.9	3,366.3
June qtr	1,350.4	773.0	986.9	307.6	712.7	64.0	35.0	38.3	4,267.8
Sept. qtr	1,068.3	655.0	877.6	252.6	641.5	47.1	49.9	23.7	3,615.8
Dec. qtr	1,240.3	679.2	934.2	299.4	852.4	47.8	59.2	37.2	4,149.7
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	1,484.1	1,628.0	1,074.9	458.6	2,298.7	80.9	100.7	29.4	7,155.3
1996 Sept. qtr	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	1,607.2	1,673.9	1,531.3	361.0	1,597.4	95.5	64.7	39.4	6,970.4
1997 Mar. qtr	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	1,484.1	1,628.0	1,074.9	458.6	2,298.7	80.9	100.7	29.4	7,155.3
Sept. qtr	2,636.2	1,468.9	1,060.9	547.4	2,153.1	86.8	86.8	28.5	8,068.6
Dec. qtr	2,393.4	1,414.9	1,404.4	419.4	2,214.7	79.0	81.3	14.1	8,021.3

**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>September qtr 1997 - r</i>														
NSW	758.5	11.4	1.6	0.6	9.0	31.4	9.3	9.7	86.5	6.6	170.8	7.0	4.9	1,107.0
Vic.	108.6	0.4	0.6	—	22.0	12.0	58.0	9.8	28.9	6.6	20.7	4.8	6.5	278.3
Qld	110.8	5.6	1.5	6.8	8.5	19.3	51.0	3.7	49.2	0.9	263.2	8.1	1.4	530.1
SA	124.4	0.7	—	19.1	4.5	3.1	32.2	21.2	13.0	0.5	22.4	46.0	1.7	288.8
WA	65.0	0.2	49.7	132.1	5.5	21.2	17.2	13.2	9.0	2.5	181.1	63.8	6.0	566.5
Tas.	8.0	0.1	—	0.2	0.1	0.9	—	—	2.4	—	0.8	—	—	12.5
NT	16.2	—	—	1.2	0.5	1.6	0.8	—	1.7	0.4	4.5	0.2	—	27.1
ACT	5.8	—	—	—	0.4	0.7	—	—	0.9	—	—	—	0.4	8.2
Australia	1,197.3	18.4	53.3	160.0	50.5	90.1	168.6	57.6	191.6	17.6	662.7	129.8	20.9	2,818.5
<i>December qtr 1997 -</i>														
NSW	238.6	15.9	4.6	23.6	6.6	46.5	19.7	31.0	91.7	5.5	25.9	17.2	5.0	531.8
Vic.	174.6	9.6	38.4	0.1	16.7	16.7	58.8	18.4	31.1	6.0	24.0	5.3	4.2	403.8
Qld	390.2	17.5	9.9	17.0	11.2	13.1	30.1	3.9	43.7	0.2	151.9	156.8	0.2	845.8
SA	38.3	2.7	—	3.3	12.9	4.5	9.0	4.5	24.0	0.9	4.7	1.5	1.5	107.8
WA	138.6	0.1	261.1	1.5	8.3	6.0	69.1	3.6	7.4	5.3	269.1	1.2	10.2	781.6
Tas.	15.6	0.1	—	—	0.2	0.5	0.1	—	2.9	—	0.4	—	0.1	19.9
NT	12.7	0.4	—	10.0	1.2	0.5	2.7	0.1	4.8	0.4	12.3	0.1	—	45.2
ACT	4.3	—	—	—	0.1	0.4	—	2.3	7.1	0.1	0.2	—	0.7	15.1
Australia	1,012.9	46.4	314.1	55.5	57.2	88.0	189.4	63.8	212.7	18.3	488.4	182.1	21.9	2,751.0
BY THE PUBLIC SECTOR														
<i>September qtr 1997 - r</i>														
NSW	667.0	26.5	213.9	—	14.5	18.2	42.1	0.4	21.0	180.6	—	—	0.7	1,185.0
Vic.	18.4	1.7	25.7	—	1.7	1.4	12.9	0.8	0.9	136.9	2.8	—	0.5	203.6
Qld	134.7	1.5	2.3	7.7	26.2	18.0	43.9	—	6.1	129.9	—	—	2.1	372.2
SA	33.2	23.3	5.1	1.0	21.7	6.5	14.3	—	2.7	12.2	—	—	—	120.0
WA	47.0	0.2	—	—	2.1	7.1	15.5	8.9	8.6	20.8	—	—	—	110.4
Tas.	14.1	0.6	—	—	3.1	6.0	—	—	2.6	11.9	—	—	1.0	39.3
NT	0.2	—	—	—	1.3	0.5	2.9	—	0.1	2.5	—	—	—	7.5
ACT	0.3	—	—	—	0.3	1.1	5.3	—	—	8.8	—	—	—	15.9
Australia	915.0	53.7	247.0	8.7	70.9	58.8	137.1	10.2	42.0	503.5	2.8	—	4.3	2,053.9

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

Period, State or Territory	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage transmission and drainage	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>December qtr 1997—</i>													
NSW	82.0	12.2	13.3	—	6.5	9.7	51.6	—	8.6	238.8	—	0.1	422.7
Vic.	18.6	0.9	11.5	—	3.3	1.4	7.8	—	1.5	129.5	—	—	174.5
Qld	111.2	3.3	—	6.5	14.8	38.3	47.1	0.1	5.0	117.8	4.3	0.2	348.7
SA	47.6	10.4	—	1.5	1.4	1.3	19.6	—	2.2	14.8	—	—	98.8
WA	48.8	0.3	—	—	2.4	9.5	15.6	2.1	4.3	27.7	—	—	110.8
Tas.	8.8	0.3	—	0.2	0.5	0.1	1.7	—	1.0	11.3	—	—	23.8
NT	—	—	—	—	0.4	—	1.4	—	—	3.0	—	—	4.9
ACT	0.7	—	—	—	2.4	1.4	2.9	—	—	11.9	—	—	19.2
Australia	317.7	27.4	24.8	8.2	31.7	61.7	147.8	2.2	22.7	554.8	4.3	0.3	1,203.5
TOTAL													
<i>September qtr 1997—r</i>													
NSW	1,425.5	37.9	215.5	0.6	23.4	49.6	51.4	10.1	107.4	187.2	170.8	7.0	2,292.0
Vic.	127.0	2.1	26.3	—	23.7	13.5	70.9	10.6	29.7	143.5	23.5	4.8	481.9
Qld	245.5	7.1	3.7	14.4	34.7	37.3	94.9	3.8	55.3	130.8	263.2	8.1	902.3
SA	157.5	24.0	5.1	20.1	26.3	9.6	46.6	21.2	15.8	12.7	22.4	46.1	408.9
WA	112.0	0.4	49.7	132.1	7.6	28.3	32.8	22.2	17.6	23.3	181.1	63.8	676.9
Tas.	22.1	0.6	—	0.2	3.2	6.9	—	—	5.0	11.9	0.8	—	51.8
NT	16.4	—	—	1.2	1.8	2.1	3.7	—	1.8	2.9	4.5	0.2	34.7
ACT	6.2	—	—	—	0.7	1.7	5.3	—	0.9	8.9	—	—	24.1
Australia	2,112.3	72.2	300.3	168.6	121.4	148.9	305.7	67.9	233.5	521.1	665.5	129.9	4,872.5
<i>December qtr 1997—</i>													
NSW	320.5	28.2	17.9	23.6	13.1	56.1	71.3	31.0	100.4	244.2	25.9	17.2	954.6
Vic.	193.1	10.5	49.9	0.1	20.0	18.0	66.6	18.4	32.6	135.5	24.0	5.3	578.3
Qld	501.5	20.8	9.9	23.6	26.0	51.4	77.1	3.9	48.7	118.1	156.2	0.4	1,194.5
SA	85.9	13.1	—	4.8	14.3	5.8	28.7	4.5	26.2	15.6	4.7	1.5	206.7
WA	187.4	0.5	261.1	1.5	10.8	15.5	84.7	5.7	11.7	33.0	269.1	1.2	892.4
Tas.	24.4	0.4	—	0.2	0.7	0.5	1.8	—	3.8	11.3	0.4	—	43.7
NT	12.7	0.4	—	10.0	1.6	0.5	4.1	0.1	4.9	3.4	12.3	0.1	50.0
ACT	5.0	—	—	—	2.5	1.8	2.9	2.3	7.1	11.9	0.2	—	34.3
Australia	1,330.6	73.9	338.9	63.7	88.9	149.7	337.2	65.9	235.4	573.1	492.8	182.1	3,954.4

**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 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>September qtr 1997 - r</i>														
NSW	230.8	13.2	66.1	0.9	11.7	40.0	17.5	14.5	72.3	12.9	67.5	15.3	4.7	567.4
Vic.	236.4	2.1	11.8	6.6	22.3	13.5	72.6	10.2	39.3	11.6	20.9	11.8	7.7	464.9
Qld	106.9	4.7	13.3	40.1	19.8	12.9	38.5	46.1	45.2	2.5	155.9	29.5	1.4	517.0
SA	43.5	0.8	—	2.8	21.8	3.7	37.0	3.5	11.5	2.3	27.7	12.0	1.7	168.2
WA	114.2	2.1	20.8	4.4	6.5	17.6	72.4	4.4	8.1	4.6	253.4	34.9	4.5	547.8
Tas.	17.2	0.1	—	0.2	0.1	0.2	0.3	—	2.4	—	2.8	2.1	0.1	25.4
NT	20.1	0.7	—	5.1	2.0	2.6	1.1	0.9	4.8	0.4	7.4	0.1	—	45.2
ACT	6.0	—	—	—	0.1	0.6	0.2	—	0.9	—	—	—	0.1	8.0
Australia	775.1	23.5	112.0	60.0	84.3	91.2	239.8	79.6	184.6	34.4	533.6	105.7	20.1	2,343.8
<i>December qtr 1997 -</i>														
NSW	288.3	19.9	77.4	9.7	9.9	38.1	18.6	14.1	89.5	7.2	80.0	21.7	5.0	679.5
Vic.	250.6	1.9	18.1	4.9	20.3	16.6	107.5	8.9	30.9	6.7	24.7	4.8	4.1	500.1
Qld	159.4	12.0	8.5	27.6	20.0	15.0	41.3	24.7	44.0	1.1	137.7	24.1	0.7	515.9
SA	53.1	—	—	3.6	20.0	3.7	39.0	4.3	19.6	0.9	35.5	14.7	1.4	195.8
WA	111.2	1.7	38.3	10.5	8.3	13.4	83.8	13.2	8.2	3.3	420.6	23.1	3.8	739.4
Tas.	17.5	—	—	—	0.2	0.9	0.3	—	2.1	—	1.0	—	0.1	22.2
NT	26.9	1.4	—	6.8	0.8	0.6	0.5	0.3	4.8	0.4	10.4	0.1	—	53.1
ACT	7.5	—	—	—	0.3	0.9	—	1.0	8.0	0.1	0.2	—	0.8	18.9
Australia	914.5	36.9	142.3	63.1	79.9	89.4	291.0	66.5	207.1	19.6	710.3	88.5	15.9	2,724.9
BY THE PUBLIC SECTOR														
<i>September qtr 1997 - r</i>														
NSW	130.3	10.4	97.6	—	9.8	11.6	51.5	0.4	8.1	180.8	—	—	0.5	501.0
Vic.	9.3	0.7	19.5	—	3.1	2.8	9.4	0.8	0.7	137.2	2.8	—	3.9	190.2
Qld	123.6	3.6	35.3	3.9	10.6	12.3	36.6	—	4.3	129.9	—	—	0.6	360.5
SA	27.4	22.0	0.5	0.5	3.2	2.8	14.4	—	1.4	12.2	—	—	—	84.4
WA	36.8	—	—	—	2.0	6.9	15.6	7.8	3.6	20.9	—	—	—	93.7
Tas.	5.1	0.3	—	—	1.0	0.4	1.6	—	0.6	11.9	—	—	0.7	21.7
NT	0.1	—	—	—	0.2	0.1	1.6	—	0.1	2.7	—	—	—	4.7
ACT	0.2	—	—	—	0.9	1.1	4.5	—	—	9.1	—	—	—	15.7
Australia	332.8	37.0	152.9	4.4	30.8	38.0	135.0	9.1	18.8	504.6	2.8	—	5.6	1,271.9

**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	Telecomm- unications	Oil, gas, coal and other minerals		Other heavy industry	Other
BY THE PUBLIC SECTOR —continued														
<i>December qtr 1997—</i>														
NSW	151.7	12.1	57.8	—	9.2	10.8	58.3	0.2	12.2	247.9	—	—	0.6	560.8
Vic.	12.6	1.4	15.2	0.1	3.3	3.0	8.3	—	1.3	129.9	—	0.1	3.8	179.1
Qld	135.0	5.8	35.3	6.6	16.4	40.9	51.1	0.1	4.8	117.8	4.3	—	0.2	418.3
SA	49.1	11.0	0.9	1.0	4.1	2.1	19.7	—	0.9	14.9	—	—	—	103.6
WA	53.2	0.2	—	—	2.4	7.8	15.6	1.8	4.1	27.8	—	—	—	113.0
Tas.	7.7	0.3	—	0.1	1.4	0.8	3.1	—	0.7	11.3	—	—	0.3	25.6
NT	0.1	—	—	—	0.3	0.4	1.8	—	—	3.6	—	—	—	6.2
ACT	0.9	—	—	—	0.2	1.4	3.7	—	—	12.0	—	—	—	18.2
Australia	410.3	30.8	109.2	7.7	37.3	67.2	161.6	2.0	24.0	565.1	4.3	0.1	4.9	1,424.7
TOTAL														
<i>September qtr 1997—r</i>														
NSW	361.2	23.6	163.7	0.9	21.4	51.6	69.0	14.9	80.5	193.7	67.5	15.3	5.2	1,068.3
Vic.	245.7	2.8	31.3	6.6	25.4	16.3	81.9	11.0	40.0	148.8	23.7	11.8	11.5	655.0
Qld	230.5	8.2	48.6	44.0	30.5	25.2	75.1	46.1	49.5	132.4	155.9	29.5	1.9	877.6
SA	70.9	22.8	0.5	3.3	25.0	6.5	51.4	3.5	12.9	14.5	27.7	12.0	1.7	252.6
WA	151.0	2.1	20.8	4.4	8.5	24.5	88.0	12.2	11.7	25.5	253.4	34.9	4.6	641.5
Tas.	22.3	0.3	—	0.2	1.1	0.6	2.0	—	3.0	11.9	2.8	2.1	0.8	47.1
NT	20.2	0.7	—	5.1	2.2	2.6	2.7	0.9	4.9	3.1	7.4	0.1	—	49.9
ACT	6.2	—	—	—	1.0	1.8	4.7	—	0.9	9.1	—	—	0.1	23.7
Australia	1,107.9	60.5	264.9	64.4	115.1	129.1	374.8	88.7	203.4	539.0	536.5	105.8	25.7	3,615.8
<i>December qtr 1997—</i>														
NSW	440.0	32.1	135.2	9.7	19.2	48.9	76.9	14.3	101.6	255.1	80.0	21.7	5.5	1,240.3
Vic.	263.2	3.4	33.3	4.9	23.7	19.6	115.8	8.9	32.2	136.6	24.7	4.8	8.0	679.2
Qld	294.4	17.8	43.8	34.1	36.4	56.0	92.4	24.8	48.8	118.8	142.0	24.1	0.9	934.2
SA	102.2	11.0	0.9	4.6	24.1	5.9	58.7	4.3	20.5	15.7	35.5	14.7	1.4	299.4
WA	164.4	1.8	38.3	10.5	10.8	21.3	99.4	15.0	12.3	31.1	420.6	23.1	3.8	852.4
Tas.	25.2	0.3	—	0.1	1.5	1.6	3.4	—	2.8	11.3	1.0	—	0.4	47.8
NT	27.0	1.4	—	6.8	1.1	0.9	2.3	0.3	4.9	4.0	10.4	0.1	—	59.2
ACT	8.5	—	—	—	0.6	2.3	3.7	1.0	8.0	12.0	0.2	—	0.8	37.2
Australia	1,324.8	67.7	251.6	70.9	117.2	156.6	452.6	68.5	231.1	584.8	714.7	88.5	20.8	4,149.7

**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>September qtr 1997 - r</i>														
NSW	934.5	26.0	208.4	0.3	7.7	41.1	50.4	0.5	65.8	5.8	256.3	25.7	2.6	1,625.2
Vic.	1,129.8	1.0	20.7	8.1	9.4	34.0	103.5	0.4	7.4	4.9	63.2	5.4	0.8	1,384.5
Qld	84.1	7.4	17.7	27.2	16.2	14.2	83.7	44.1	12.9	2.3	272.8	14.4	0.6	597.6
SA	122.7	—	—	17.3	65.0	0.7	63.7	20.1	2.6	0.5	116.3	85.8	—	494.6
WA	253.5	1.5	130.8	130.4	13.6	20.0	166.0	38.4	4.4	0.2	1,227.1	83.2	4.8	2,073.8
Tas.	8.0	—	—	—	—	0.7	11.0	—	1.0	—	0.3	0.7	0.9	22.6
NT	22.0	0.3	—	5.0	0.5	1.2	0.4	0.2	—	0.2	44.6	0.1	—	74.4
ACT	17.6	—	—	—	0.3	0.5	—	—	3.6	—	—	—	0.4	22.4
Australia	2,572.1	36.2	377.5	188.3	112.5	112.5	478.8	103.7	97.8	13.8	1,976.4	215.3	10.1	6,295.2
<i>December qtr 1997 -</i>														
NSW	894.8	28.3	138.3	20.7	3.7	56.0	51.1	17.7	70.9	5.3	253.7	27.0	0.1	1,567.5
Vic.	1,113.0	8.6	42.9	3.6	4.4	35.8	53.5	9.6	9.8	4.0	58.0	3.9	0.5	1,347.6
Qld	359.9	17.2	19.2	18.1	6.5	14.7	70.7	19.2	7.6	1.9	309.9	146.5	0.4	992.0
SA	108.8	2.7	—	17.3	57.7	1.2	34.2	14.2	5.1	0.6	68.3	73.1	0.1	383.2
WA	291.9	—	353.8	118.9	15.1	16.5	154.7	26.9	1.3	2.8	1,079.9	64.0	8.2	2,134.0
Tas.	6.8	0.1	—	—	—	0.5	10.8	—	1.4	—	—	—	—	19.7
NT	15.3	0.4	—	8.1	0.4	1.1	2.6	—	—	0.1	42.1	—	—	70.2
ACT	4.8	—	—	—	—	—	—	1.3	0.7	—	—	—	—	6.9
Australia	2,795.2	57.4	554.2	186.7	87.9	125.8	377.6	88.8	96.9	14.6	1,811.8	314.5	9.3	6,521.1
BY THE PUBLIC SECTOR														
<i>September qtr 1997 - r</i>														
NSW	597.5	25.7	270.0	—	20.1	35.5	39.8	—	19.7	1.5	—	—	1.3	1,011.0
Vic.	11.9	1.6	19.0	—	5.0	4.5	20.3	—	1.0	0.8	—	—	20.3	84.4
Qld	135.5	4.3	157.6	3.9	22.6	14.6	116.1	—	5.5	1.6	—	—	1.5	463.2
SA	15.6	1.3	4.6	1.9	18.6	6.8	0.1	—	3.6	0.4	—	—	—	52.8
WA	65.0	0.4	—	—	0.2	1.1	—	1.8	10.2	0.5	—	—	—	79.2
Tas.	12.0	0.3	—	—	2.1	7.7	39.2	—	2.7	—	—	—	0.3	64.2
NT	0.2	—	—	—	2.0	1.9	7.5	—	0.1	0.7	—	—	—	12.3
ACT	0.3	—	—	—	1.5	0.1	0.9	—	—	3.2	—	—	—	6.1
Australia	837.9	33.5	451.3	5.8	72.1	72.1	224.0	1.8	42.8	8.7	—	—	23.4	1,773.4

TABLE II. ENGINEERING CONSTRUCTION ACTIVITY: VALUE OF WORK YET TO BE DONE AT END OF PERIOD
BY THE SECTOR UNDERTAKING THE WORK, BY TYPE OF CONSTRUCTION —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	Other
BY THE PUBLIC SECTOR —continued														
TOTAL														
December qtr 1997—														
NSW	434.0	30.6	226.7	—	19.4	33.2	37.6	0.8	17.9	24.6	—	—	1.2	825.9
Vic.	17.1	1.2	15.3	—	8.4	5.5	2.4	—	0.5	0.5	—	—	16.4	67.3
Qld	114.9	3.9	125.2	3.7	22.8	17.9	113.8	—	6.9	1.6	—	—	1.9	412.5
SA	10.4	—	2.5	2.4	12.4	4.2	—	—	4.2	0.1	—	—	—	36.2
WA	63.4	0.5	—	—	0.3	3.5	—	4.5	8.3	0.1	—	—	—	80.7
Tas.	9.2	0.3	—	0.1	1.4	8.3	38.3	—	1.3	—	—	—	0.4	59.3
NT	0.1	—	—	—	2.1	1.5	7.0	—	0.3	—	—	—	—	11.1
ACT	—	—	—	—	3.7	0.1	0.1	—	—	3.3	—	—	—	7.3
Australia	649.2	36.6	369.7	6.2	70.5	74.3	199.3	5.3	39.1	30.4	—	—	19.9	1,500.3
September qtr 1997—r														
NSW	1,532.0	51.6	478.4	0.3	27.8	76.6	90.3	0.5	85.5	7.3	256.3	25.7	3.9	2,636.2
Vic.	1,141.7	2.5	39.7	8.1	14.4	38.5	123.8	0.4	8.5	5.7	63.2	5.4	21.1	1,468.9
Qld	219.6	11.7	175.3	31.1	38.8	28.8	199.8	44.1	18.4	3.9	272.8	14.4	2.2	1,060.9
SA	138.3	1.3	4.6	19.1	83.5	7.5	63.7	20.1	6.2	0.9	116.3	85.8	—	547.4
WA	318.5	1.9	130.8	130.4	13.8	21.1	166.0	40.2	14.7	0.7	1,227.1	83.2	4.8	2,153.1
Tas.	19.9	0.3	—	—	2.1	8.3	50.3	—	3.7	—	0.3	0.7	1.1	86.8
NT	22.2	0.3	—	5.0	2.5	3.1	7.9	0.2	0.1	0.9	44.6	0.1	—	86.8
ACT	17.9	—	—	—	1.8	0.7	1.0	—	3.6	3.2	—	—	0.4	28.5
Australia	3,410.0	69.7	828.8	194.1	184.7	184.7	702.8	105.5	140.6	22.6	1,976.4	215.3	33.5	8,068.6
December qtr 1997—														
NSW	1,328.8	58.9	365.0	20.7	23.1	89.2	88.7	18.4	88.8	29.9	253.7	27.0	1.3	2,393.4
Vic.	1,130.1	9.8	58.2	3.6	12.9	41.3	55.9	9.6	10.4	4.4	58.0	3.9	16.9	1,414.9
Qld	474.8	21.1	144.4	21.9	29.3	32.6	184.5	19.2	14.5	3.4	309.9	146.5	2.3	1,404.4
SA	119.2	2.8	2.5	19.6	70.1	5.4	34.2	14.2	9.3	0.7	68.3	73.1	0.1	419.4
WA	355.2	0.5	353.8	118.9	15.4	20.0	154.7	31.5	9.6	2.9	1,079.9	64.0	8.2	2,214.7
Tas.	16.0	0.4	—	0.1	1.4	8.8	49.1	—	2.7	—	—	—	0.4	79.0
NT	15.4	0.4	—	8.1	2.5	2.6	9.7	—	—	0.4	42.1	—	—	81.3
ACT	4.9	—	—	—	3.7	0.1	0.1	1.3	0.7	3.3	—	—	—	14.1
Australia	3,444.4	94.0	923.9	192.9	158.4	200.1	576.9	94.1	136.0	45.0	1,811.8	314.6	29.2	8,021.3

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

<i>Stage of construction</i>	<i>NSW</i>	<i>Vic.</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas.</i>	<i>NT</i>	<i>ACT</i>	<i>Australia</i>
SEPTEMBER QUARTER 1997 r									
<i>For the private sector —</i>									
Value of work commenced	914.6	208.4	411.5	146.2	460.4	7.2	12.9	3.0	2,164.3
Value of work done	284.5	313.3	381.5	92.2	402.7	16.4	21.8	3.2	1,515.5
Value of work yet to be done	909.9	1,104.8	465.3	280.6	1,628.9	4.6	50.2	15.7	4,460.0
<i>For the public sector —</i>									
Value of work commenced	192.4	69.9	118.5	142.6	106.1	5.3	14.2	5.2	654.2
Value of work done	282.9	151.5	135.6	76.0	145.1	9.0	23.4	4.8	828.3
Value of work yet to be done	715.3	279.7	132.3	214.0	444.9	18.0	24.2	6.7	1,835.2
Total									
Value of work commenced	1,107.0	278.3	530.1	288.8	566.5	12.5	27.1	8.2	2,818.5
Value of work done	567.4	464.9	517.0	168.2	547.8	25.4	45.2	8.0	2,343.8
Value of work yet to be done	1,625.2	1,384.5	597.6	494.6	2,073.8	22.6	74.4	22.4	6,295.2
DECEMBER QUARTER 1997									
<i>For the private sector —</i>									
Value of work commenced	313.6	211.6	481.2	61.0	658.3	9.0	22.3	4.6	1,761.6
Value of work done	335.8	348.1	377.5	110.2	593.6	10.7	23.9	5.0	1,804.8
Value of work yet to be done	973.9	962.9	579.4	206.2	1,704.6	2.9	49.7	3.8	4,483.3
<i>For the public sector —</i>									
Value of work commenced	218.3	192.2	364.6	46.8	123.3	10.9	22.9	10.5	989.4
Value of work done	343.7	152.0	138.4	85.6	145.8	11.5	29.2	13.9	920.1
Value of work yet to be done	593.6	384.8	412.5	177.0	429.4	16.8	20.5	3.1	2,037.8
Total									
Value of work commenced	531.8	403.8	845.8	107.8	781.6	19.9	45.2	15.1	2,751.0
Value of work done	679.5	500.1	515.9	195.8	739.4	22.2	53.1	18.9	2,724.9
Value of work yet to be done	1,567.5	1,347.6	992.0	383.2	2,134.0	19.7	70.2	6.9	6,521.1

**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	
	Sept. qtr 1997 r	Dec. qtr 1997	Sept. qtr 1997 r	Dec. qtr 1997	Sept. qtr 1997 r	Dec. qtr 1997
COMMONWEALTH GOVERNMENT						
NSW	179.1	238.6	179.3	239.1	1.5	0.9
Vic.	136.6	129.5	140.6	133.5	20.8	16.9
Qld	129.4	117.5	129.7	117.8	1.3	1.0
SA	12.2	14.8	12.2	14.9	0.4	0.1
WA	20.8	27.7	20.9	27.8	0.5	0.1
Tas.	11.9	11.3	11.9	11.3	—	—
NT	2.5	3.2	2.7	3.7	0.7	0.4
ACT	8.8	11.8	8.8	11.8	—	—
<i>Australia</i>	<i>501.3</i>	<i>554.4</i>	<i>506.2</i>	<i>559.8</i>	<i>25.2</i>	<i>19.3</i>
STATE AND TERRITORY GOVERNMENT						
NSW	849.8	97.2	224.6	216.4	868.8	692.8
Vic.	46.5	24.5	38.5	30.9	48.7	30.5
Qld	67.3	82.4	108.4	130.6	312.6	270.6
SA	95.5	77.0	64.2	80.8	32.8	23.4
WA	42.5	37.5	46.0	45.8	36.8	32.2
Tas.	0.2	4.6	3.4	6.3	40.7	38.5
NT	4.7	1.6	1.8	2.4	11.4	10.5
ACT(a)	7.0	7.4	6.9	6.5	6.1	7.3
<i>Australia</i>	<i>1,113.5</i>	<i>332.1</i>	<i>493.7</i>	<i>519.7</i>	<i>1,357.8</i>	<i>1,105.7</i>
LOCAL GOVERNMENT						
NSW	156.1	86.9	97.0	105.2	140.8	132.3
Vic.	20.6	20.5	11.1	14.6	15.0	19.9
Qld	175.5	148.8	122.5	170.0	149.3	140.9
SA	12.3	7.1	8.0	7.9	19.6	12.8
WA	47.1	45.7	26.8	39.4	42.0	48.4
Tas.	27.2	8.0	6.5	8.0	23.6	20.8
NT	0.3	—	0.2	0.1	0.3	0.2
ACT
<i>Australia</i>	<i>439.1</i>	<i>317.0</i>	<i>272.0</i>	<i>345.2</i>	<i>390.4</i>	<i>375.3</i>
TOTAL GOVERNMENT						
NSW	1,185.0	422.7	501.0	560.8	1,011.0	825.9
Vic.	203.6	174.5	190.2	179.1	84.4	67.3
Qld	372.2	348.7	360.5	418.3	463.2	412.5
SA	120.0	98.8	84.4	103.6	52.8	36.2
WA	110.4	110.8	93.7	113.0	79.2	80.7
Tas.	39.3	23.8	21.7	25.6	64.2	59.3
NT	7.5	4.9	4.7	6.2	12.3	11.1
ACT	15.9	19.2	15.7	18.2	6.1	7.3
Australia	2,053.9	1,203.5	1,271.9	1,424.7	1,773.4	1,500.3

(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	7.2	31.4	8.1	21.2	13.7	13.2	75.3	7.1	12.5	1.0	4.3	6.2	19.3	2.7
Vic.	4.4	43.3	3.7	25.0	28.3	19.8	1.4	15.5	21.8	15.6	2.7	—	33.0	2.8
Qld	4.6	6.4	0.8	19.6	14.0	7.1	5.4	23.0	18.8	98.0	3.4	—	42.3	3.1
SA	7.2	—	—	38.4	76.7	42.4	—	—	23.8	—	77.7	—	57.6	8.5
WA	6.0	—	—	—	25.4	18.5	0.3	—	13.9	14.9	8.2	5.0	32.1	1.7
Tas.	12.4	14.8	—	—	83.6	9.0	—	—	33.2	—	—	—	—	9.1
NT	21.1	—	—	—	23.3	—	9.6	—	40.0	—	—	—	—	9.2
ACT	11.1	—	—	—	31.9	38.4	—	—	57.0	—	—	—	—	33.6
Australia	2.8	49.9	5.0	6.4	10.4	7.8	28.2	19.7	8.2	13.7	4.0	2.8	19.4	1.3
BY THE PUBLIC SECTOR														
NSW	0.7	9.0	—	—	9.3	8.7	—	—	0.1	—	—	—	—	1.4
Vic.	6.2	42.0	—	—	5.2	13.5	5.8	—	16.6	—	—	—	—	0.6
Qld	3.7	11.0	—	—	3.0	3.5	—	5.2	4.8	—	—	—	57.2	2.1
SA	7.5	72.5	—	—	7.8	20.0	0.8	—	12.7	—	—	—	—	4.4
WA	6.1	6.9	—	—	0.9	1.2	—	—	13.3	—	—	—	—	3.6
Tas.	9.0	29.7	—	—	42.2	14.9	—	—	12.7	—	—	—	—	9.8
NT	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ACT	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Australia	1.8	5.8	—	—	3.0	3.5	1.4	0.1	2.9	—	43.2	—	18.5	0.7
TOTAL														
NSW	4.9	17.7	8.1	20.8	8.8	9.1	42.9	6.9	11.2	1.0	4.3	6.2	14.5	2.2
Vic.	3.7	36.0	3.7	19.5	23.6	17.6	2.9	5.6	20.7	0.2	4.0	—	30.1	1.4
Qld	3.3	5.5	0.1	13.1	6.8	4.0	1.5	22.3	17.1	95.8	3.4	—	40.5	2.4
SA	5.2	8.2	—	36.8	52.5	30.7	0.8	—	20.8	—	77.7	—	55.7	5.3
WA	4.6	75.7	—	—	19.4	11.2	0.2	92.3	10.7	14.9	8.2	5.0	32.1	1.5
Tas.	7.9	15.2	—	—	42.7	7.8	—	—	26.5	—	—	—	—	6.7
NT	21.0	—	—	—	20.6	—	8.5	—	39.7	—	—	—	—	8.8
ACT	11.1	—	—	—	31.9	38.4	—	—	57.0	—	—	—	—	33.6
Australia	2.1	39.1	2.6	5.5	6.7	5.3	16.9	13.0	7.3	0.8	4.0	2.8	18.2	0.9

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	5.8	17.6	5.3	12.4	5.9	7.7	50.9	2.7	12.5	0.2	1.9	2.1	18.8	2.4
Vic.	4.7	14.8	3.8	19.2	17.7	15.7	5.0	11.3	18.7	11.0	4.2	—	17.2	2.3
Qld	4.9	1.6	19.9	26.6	8.1	4.9	1.7	12.9	18.9	77.0	2.3	—	39.8	2.9
SA	8.1	—	—	14.8	55.8	40.7	—	—	24.6	—	31.8	—	50.2	10.1
WA	5.4	—	—	—	24.0	15.0	0.3	—	30.1	11.6	3.9	2.3	30.2	1.7
Tas.	9.0	—	—	—	37.2	3.8	—	—	50.0	—	—	—	—	10.1
NT	21.8	—	—	—	25.3	—	8.6	—	50.0	—	—	—	—	8.4
ACT	7.7	—	—	—	9.1	39.8	—	—	58.7	—	—	—	—	24.8
Australia	2.6	30.7	5.0	5.6	6.4	5.7	19.2	5.2	8.1	6.2	1.9	3.6	16.9	1.2
BY THE PUBLIC SECTOR														
NSW	0.5	1.2	—	—	6.2	8.8	—	—	0.1	—	—	—	—	0.5
Vic.	5.0	27.1	—	—	4.3	3.3	2.1	—	14.0	—	—	—	—	0.5
Qld	2.7	7.0	—	—	2.0	2.9	—	24.8	4.9	—	—	—	22.3	1.4
SA	6.8	51.6	—	—	1.2	12.3	0.3	—	18.1	—	—	—	—	4.8
WA	6.2	6.1	—	—	0.2	1.3	—	—	10.8	—	—	—	—	3.6
Tas.	5.3	11.6	—	—	33.6	14.2	—	—	8.4	—	—	—	—	6.7
NT	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ACT	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Australia	1.3	2.3	—	—	2.2	3.1	0.4	0.1	2.5	—	30.4	—	13.2	0.5
TOTAL														
NSW	3.7	9.9	2.1	11.8	4.5	6.0	26.7	2.7	11.0	0.2	1.9	2.1	14.9	1.8
Vic.	3.9	13.5	3.8	18.8	14.8	13.1	2.7	5.0	17.7	0.3	4.2	—	16.3	1.2
Qld	3.3	2.0	7.3	16.8	4.4	2.9	0.7	12.8	17.1	75.6	2.3	—	38.6	2.2
SA	5.3	3.9	—	13.6	24.4	26.3	0.2	—	21.5	—	31.8	—	47.8	6.2
WA	4.4	71.1	—	—	19.0	9.5	0.3	14.2	10.4	11.6	3.9	2.3	30.2	1.6
Tas.	5.5	6.4	—	—	25.7	4.5	—	—	22.1	—	—	—	—	6.3
NT	21.2	—	—	—	22.0	—	8.0	—	49.1	—	—	—	—	8.0
ACT	7.7	—	—	—	9.1	39.8	—	—	58.7	—	—	—	—	24.8
Australia	1.8	23.4	2.4	5.0	4.4	4.0	11.0	4.0	7.2	0.7	1.9	3.6	15.9	0.8

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

State or Territory	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecommunications	Heavy industry			Total
											Oil, gas, coal and other minerals	Other heavy industry	Other	
BY THE PRIVATE SECTOR														
NSW	1.5	14.9	1.1	7.5	1.2	2.5	9.4	0.5	12.8	0.6	0.8	0.5	1.0	0.5
Vic.	1.4	45.3	1.8	0.6	3.5	1.0	3.6	25.6	15.3	11.0	2.9	—	3.4	0.8
Qld	1.4	0.6	13.3	3.4	6.1	26.3	1.5	1.0	10.3	54.9	0.6	—	74.3	0.8
SA	6.9	—	—	7.9	57.8	13.4	—	—	23.4	—	30.2	—	26.9	9.2
WA	1.9	—	—	—	13.8	5.7	—	—	10.6	29.8	2.2	0.5	10.0	0.3
Tas.	4.7	6.4	—	—	—	2.0	—	—	46.5	—	—	—	—	4.3
NT	22.9	—	—	—	6.5	—	4.7	—	—	—	—	—	—	1.9
ACT	2.2	—	—	—	—	—	—	—	14.8	—	—	—	—	3.2
Australia	0.8	10.7	2.4	1.5	2.2	3.6	3.1	1.5	7.2	1.1	1.2	0.2	19.2	0.3
BY THE PUBLIC SECTOR														
NSW	0.2	2.9	—	—	6.7	28.9	—	—	0.3	—	—	—	—	3.3
Vic.	11.5	30.8	—	—	0.8	1.4	2.0	—	12.2	—	—	—	—	3.1
Qld	2.7	3.0	—	—	1.2	2.9	—	—	6.6	—	—	—	46.7	1.3
SA	14.2	—	—	—	0.1	5.1	—	—	24.0	—	—	—	—	4.6
WA	5.8	3.7	—	—	8.2	9.7	—	—	14.9	—	—	—	—	4.7
Tas.	8.5	41.6	—	—	11.9	20.8	—	—	5.9	—	—	—	—	2.5
NT	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ACT	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Australia	1.2	2.3	—	—	1.9	9.8	0.5	0.1	3.0	—	—	—	12.1	1.4
TOTAL														
NSW	0.9	7.5	0.6	7.5	2.7	18.3	6.9	0.4	8.1	0.5	0.8	0.5	3.4	0.9
Vic.	1.5	43.7	1.8	0.5	2.7	0.9	1.9	22.7	14.4	11.0	3.9	—	3.4	0.8
Qld	1.4	0.9	2.3	3.4	2.5	8.9	0.3	1.0	6.2	48.5	0.6	—	70.6	0.7
SA	7.2	5.8	—	5.1	4.4	4.8	4.5	—	20.9	—	30.2	—	25.5	4.4
WA	2.5	2.6	—	—	12.0	5.4	—	5.9	8.9	28.5	2.2	0.5	10.0	0.4
Tas.	5.2	15.3	—	—	8.4	6.8	—	—	22.1	—	—	—	—	2.2
NT	21.5	—	—	—	5.2	—	3.6	—	—	—	—	—	—	1.6
ACT	2.2	—	—	—	4.6	27.4	—	—	14.8	—	—	—	—	3.2
Australia	0.7	6.7	1.0	1.4	1.4	4.6	2.1	1.4	5.0	0.9	1.2	0.2	17.0	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*

- *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 were included in the June quarter 1997 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).

ACKNOWLEDGMENT

20 ABS publications draw extensively on information provided freely by individuals, businesses, governments and other organisations. Their continued cooperation is very much appreciated: without it, the wide range of statistics published by the ABS would not be available. Information received by the ABS is treated in strict confidence as required by the *Census and Statistics Act 1905*.

RELATED PUBLICATIONS

21 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
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2876200012970
ISSN 1037-3993

RRP \$17.00