

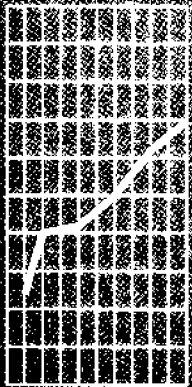


March Quarter 1997

EMBARGO: 11:30 AM (CANBERRA TIME) MON 14 JULY 1997

# Engineering Construction Activity

## Australia



# NOTES

## FORTHCOMING ISSUES

### ISSUE

### RELEASE DATE

June Quarter 1997

15 October 1997

## SIGNIFICANT CHANGES

Estimates for the value of work done and the value of work yet to be done for roads, highways and subdivisions in Victoria for the September quarter 1996 have been revised. Corresponding totals for Victoria and Australia affected by this amendment have also been revised.

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

For further information about these statistics, contact Information Services on Canberra (06) 252 6627 or 252 6007 or any ABS State office.

W. McLennan  
Australian Statistician

# SUMMARY OF FINDINGS VALUE OF WORK DONE

## AVERAGE 1989-90 PRICES, SEASONALLY ADJUSTED ESTIMATES

### MOVEMENT ESTIMATES

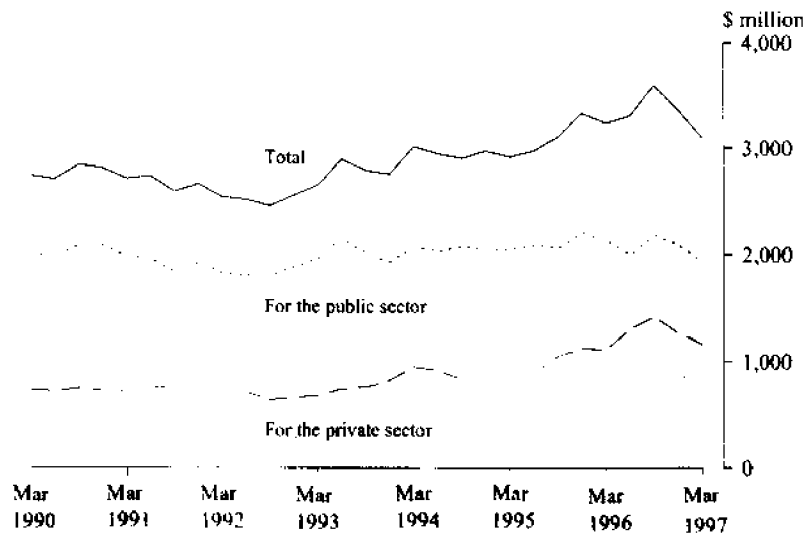
Changes in the seasonally adjusted value of engineering construction work done, at average 1989-90 prices, in the March quarter 1997, compared with the previous quarter and a year previously, are summarised below.

Engineering construction work done	Change	
	Dec qtr 96 to Mar qtr 97	Mar qtr 96 to Mar qtr 97
	%	%
By private sector		
For private sector	-8.1	5.4
For public sector	-8.4	10.2
Total by private sector	-8.2	7.1
By public sector	-7.6	-17.1
Total for public sector (a)	-7.9	-9.3
<b>Total engineering construction</b>	<b>-8.0</b>	<b>-4.3</b>

(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 fell by 8.0% in the March quarter 1997, following a fall of 6.4% in the December 1996 and an increase of 8.8% in the September quarter 1996. Engineering construction work done in the March quarter 1997 was 4.3% lower than for the March quarter 1996. Activity fell in both sectors, with work for the private sector falling 8.1% to \$1,162.0m. Work for the public sector fell by 7.9% to \$1,932.3m.

### 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 March quarter 1997 was \$3,114.7m, a decrease of 17.1% from the December quarter 1996 estimate and 30.0% lower than the value of commencements in the March quarter 1996. The value of work commenced for the private sector fell by 25.6% to \$1,130.9m in the March quarter 1997. This was 53.2% below the value of work commenced during the March quarter 1996. The value of work commenced for the public sector during the March quarter 1997, was \$1,983.8m, a decrease of 11.3% from the December quarter 1996 estimate, and 2.3% below the value of work commenced during the March 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			
<b>ORIGINAL</b>						
1993-94	3,725.1	3,277.9	7,003.0	5,475.2	8,753.1	12,478.2
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
1995 Dec. qtr	1,339.6	794.1	2,133.8	1,628.7	2,422.9	3,762.5
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	1,623.4	787.0	2,410.3	1,440.5	2,227.4	3,850.8
Dec. qtr r	1,533.3	817.5	2,350.9	1,510.4	2,328.0	3,861.3
1997 Mar. qtr	1,253.3	752.7	2,005.9	1,312.7	2,065.4	3,318.7
<b>SEASONALLY ADJUSTED</b>						
1995 Dec. qtr	1,252.7	819.5	2,072.2	1,668.8	2,488.3	3,741.0
1996 Mar. qtr	1,229.3	700.9	1,930.2	1,721.5	2,422.4	3,651.7
June qtr	1,454.2	764.0	2,218.2	1,523.3	2,287.3	3,741.4
Sept. qtr r	1,592.0	785.0	2,376.9	1,683.8	2,468.8	4,060.7
Dec. qtr r	1,433.4	841.9	2,275.3	1,548.2	2,390.1	3,823.5
1997 Mar. qtr	1,317.5	775.6	2,093.2	1,438.2	2,213.8	3,531.3

(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			
<b>ORIGINAL</b>						
1993-94	3,449.6	3,002.7	6,452.3	5,057.3	8,060.0	11,509.6
1994-95	3,530.9	2,609.4	6,140.3	5,659.4	8,268.8	11,799.7
1995-96	4,582.0	2,562.2	7,144.2	5,790.6	8,352.8	12,934.8
1995 Dec. qtr	1,205.9	694.8	1,900.7	1,451.2	2,146.0	3,351.9
1996 Mar. qtr	1,047.9	589.2	1,637.1	1,389.6	1,978.8	3,026.7
June qtr	1,252.9	698.1	1,951.0	1,680.5	2,378.6	3,631.5
Sept. qtr r	1,444.7	685.9	2,130.6	1,278.6	1,964.5	3,409.2
Dec. qtr r	1,353.3	711.3	2,064.6	1,333.3	2,044.6	3,397.9
1997 Mar. qtr	1,105.3	650.1	1,755.4	1,152.3	1,802.4	2,907.7
<b>SEASONALLY ADJUSTED</b>						
1995 Dec. qtr	1,127.7	715.7	1,843.4	1,486.9	2,202.6	3,330.3
1996 Mar. qtr	1,102.0	607.9	1,709.9	1,523.6	2,131.5	3,233.5
June qtr	1,304.9	662.6	1,967.5	1,335.3	1,997.9	3,302.8
Sept. qtr r	1,416.8	682.4	2,099.2	1,494.6	2,177.0	3,593.8
Dec. qtr r	1,265.1	731.1	1,996.2	1,366.6	2,097.7	3,362.8
1997 Mar. qtr	1,162.0	669.9	1,831.9	1,262.4	1,932.3	3,094.3

(a) See paragraphs 17-19 of the Explanatory Notes. (b) Includes work done by the private sector for the public sector and work done by the public sector.

TABLE 3. ENGINEERING CONSTRUCTION ACTIVITY UNDERTAKEN BY THE PRIVATE SECTOR, BY TYPE OF CONSTRUCTION, AUSTRALIA, VALUE OF WORK COMMENCED DURING PERIOD (\$ million)

Period	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecommunications	Heavy industry	Other	Total
<b>FOR THE PRIVATE SECTOR</b>													
1993-94	1,086.5	8.3	35.5	45.2	302.2	81.8	104.8	91.3	229.5	37.7	1,444.6	3.1	3,470.4
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
1995 Dec. qtr	201.7	3.9	7.8	9.2	26.7	15.5	46.2	33.5	87.8	14.9	473.1	7.3	927.6
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	1,85.1	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	66.8	35.1	17.8	75.3	39.2	169.2	23.1	796.3	9.7	1,547.6
Dec. qtr r	287.5	30.8	5.1	8.9	37.2	13.1	128.8	134.5	242.3	10.1	614.5	6.8	1,519.7
1997 Mar. qtr	222.7	0.4	14.5	43.0	32.0	23.5	126.4	23.2	128.2	87.1	420.0	10.1	1,130.9
<b>FOR THE PUBLIC SECTOR</b>													
1993-94	1,255.2	247.2	318.5	89.0	263.7	271.0	638.2	11.1	41.5	15.6	45.1	1.9	3,197.8
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	156.8	83.8	101.1	230.7	527.8	224.5	63.4	23.0	75.2	7.2	3,344.8
1995 Dec. qtr	444.0	19.2	21.7	4.0	11.2	77.8	167.4	19.2	11.1	7.9	26.1	2.1	810.9
1996 Mar. qtr	537.7	16.8	16.6	25.4	45.6	65.8	52.5	9.8	10.2	4.7	15.4	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	43.7	107.6	46.4	48.6	15.4	27.0	1.4	11.7	1.6	1,081.8
Dec. qtr r	338.4	19.7	37.4	30.1	57.7	41.2	82.7	6.2	20.6	2.6	33.7	2.4	672.7
1997 Mar. qtr	584.7	15.7	44.0	3.7	31.7	45.4	41.4	2.6	39.3	1.0	5.9	2.5	818.0
<b>TOTAL</b>													
1993-94	2,341.7	255.5	354.0	134.3	565.9	352.7	743.0	102.4	270.9	53.2	1,489.6	5.0	6,668.2
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	208.2	130.5	184.3	382.5	906.8	455.4	464.5	105.7	1,972.2	36.8	8,865.6
1995 Dec. qtr	645.7	23.1	29.6	13.2	38.0	93.3	213.6	52.7	98.9	22.8	498.3	9.4	1,738.4
1996 Mar. qtr	2,029.3	19.8	66.2	29.3	61.7	82.0	211.1	49.8	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	14.3	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	808.0	11.3	2,629.4
Dec. qtr r	625.9	50.5	42.5	39.0	94.9	54.3	211.5	140.7	262.9	12.7	648.3	9.1	2,192.4
1997 Mar. qtr	807.3	16.0	58.5	46.8	63.7	68.9	167.8	25.8	167.5	88.1	425.9	12.6	1,948.9

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

Period	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecom- munications	Heavy industry	Other	Total		
													Original	Seasonally adjusted	
<b>FOR THE PRIVATE SECTOR</b>															
1993-94	1,145.1	10.4	38.6	68.9	144.5	109.4	151.8	339.8	222.7	82.8	1,603.8	7.2	3,725.1		
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		
1995 Dec. qtr	265.5	5.8	7.5	7.7	38.6	48.1	134.5	68.7	108.7	51.1	592.3	11.3	1,339.6	1,252.7	
1996 Mar. qtr	255.0	2.9	15.7	6.2	46.9	11.6	120.2	58.7	93.8	54.9	478.6	8.4	1,168.9	1,229.3	
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	1,454.2	
Sept. qtr	399.2	8.3	25.1	10.5	24.7	18.4	117.0	57.7	165.4	44.7	741.9	10.4	1,623.4	1,592.0	
Dec. qtr	354.1	8.2	18.1	17.1	37.1	21.2	98.5	49.8	233.0	36.0	652.5	7.9	1,533.3	1,433.4	
1997 Mar. qtr	347.2	7.7	17.6	27.1	22.9	9.3	81.4	41.2	131.3	35.1	526.5	5.8	1,253.3	1,317.5	
<b>FOR THE PUBLIC SECTOR</b>															
1993-94	1,427.4	214.9	217.1	103.6	332.8	249.3	550.9	13.9	53.9	30.8	80.7	2.7	3,277.9		
1994-95	1,325.3	176.6	303.6	59.1	214.7	234.6	429.1	41.3	234.6	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		
1995 Dec. qtr	395.3	29.8	48.3	7.7	38.4	60.8	72.4	93.2	15.8	10.0	19.7	2.8	794.1	819.5	
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	700.9	
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	764.0	
Sept. qtr	338.6	40.3	106.8	32.1	33.4	44.6	95.0	45.1	31.5	1.4	16.6	1.4	787.0	785.0	
Dec. qtr	362.7	24.7	101.0	33.7	42.6	54.4	130.3	24.0	18.4	0.9	21.3	3.4	817.5	841.9	
1997 Mar. qtr	352.7	26.0	81.6	18.2	46.3	56.0	111.6	8.4	14.2	1.8	32.9	2.9	752.7	775.6	
<b>TOTAL</b>															
1993-94	2,572.5	225.4	255.7	172.5	477.3	358.7	702.7	153.8	276.7	113.5	1,684.5	9.9	7,003.0		
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	230.1	2,221.4	47.6	8,055.5		
1995 Dec. qtr	660.8	35.6	55.8	15.4	76.9	108.9	206.9	161.9	124.5	61.1	611.8	14.1	2,133.8	2,072.2	
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	1,930.2	
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	2,218.2	
Sept. qtr	737.8	48.6	131.9	42.7	58.1	63.1	212.0	102.8	197.0	46.1	758.5	11.9	2,410.3	2,376.9	
Dec. qtr	716.8	32.9	119.1	50.8	79.7	75.6	228.8	73.8	251.4	36.9	673.8	11.2	2,350.9	2,275.3	
1997 Mar. qtr	700.0	33.7	99.2	45.3	69.2	65.3	193.0	49.7	145.5	36.9	559.5	8.7	2,005.9	2,093.2	

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

Period	(\$ million)											Total	
	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
FOR THE PRIVATE SECTOR													
1993-94	219.3	2.0	7.0	11.8	191.7	15.0	46.2	9.8	12.8	8.2	681.6	---	1,205.4
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
1995 Dec. qtr	489.0	2.7	24.9	6.6	50.2	34.1	174.6	135.0	36.8	107.2	1,198.6	3.0	2,262.5
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	79.7	16.8	10.5	310.0	59.0	31.9	46.1	1,307.3	1.1	3,439.1
Dec. qtr	1,392.9	24.8	103.8	68.1	16.9	5.4	338.7	149.3	104.2	17.8	1,274.1	0.8	3,496.9
1997 Mar. qtr	1,286.2	16.4	104.0	86.4	25.8	20.8	374.1	127.1	24.0	76.2	1,204.4	5.2	3,350.6
FOR THE PUBLIC SECTOR													
1993-94	363.7	116.0	144.6	28.5	98.0	192.7	633.8	1.0	4.5	19.5	15.3	---	1,617.7
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	637.7	30.6	11.2	2.6	32.5	2.2	1,700.3
1995 Dec. qtr	424.1	22.4	99.5	11.9	65.6	137.4	221.0	128.1	8.2	0.7	26.5	3.7	1,148.2
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	637.7	30.6	11.2	2.6	32.5	2.2	1,700.3
Sept. qtr	902.1	15.2	453.0	58.7	121.1	115.5	382.2	2.4	6.9	0.4	32.9	1.5	2,092.0
Dec. qtr	856.3	10.0	408.0	45.5	137.0	108.2	428.5	0.5	6.2	1.7	44.6	0.3	2,046.7
1997 Mar. qtr	1,071.6	16.9	366.0	32.7	124.1	103.2	347.8	0.7	31.1	0.9	83.2	0.1	2,178.4
TOTAL													
1993-94	583.0	118.0	151.6	40.4	289.7	207.6	679.9	10.8	17.3	27.7	697.0	---	2,823.0
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
1995 Dec. qtr	913.1	25.0	124.4	18.5	115.8	171.5	395.5	263.1	44.9	107.8	1,224.4	6.7	3,410.8
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	4,893.0
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	1,340.1	2.7	5,531.1
Dec. qtr	2,249.2	34.9	511.8	113.6	153.9	113.6	767.1	149.8	110.4	19.5	1,318.7	1.1	5,543.6
1997 Mar. qtr	2,357.8	33.3	470.0	119.1	149.9	123.9	722.0	127.8	55.1	77.2	1,287.6	5.4	5,529.0



**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	Heavy industry			Total	
										Telecommunications	Oil, gas, coal and other minerals	Other heavy industry		
VALUE OF WORK COMMENCED DURING PERIOD														
1993-94	1,602.2	121.8	516.9	18.1	234.5	322.9	730.3	110.0	93.1	1,611.6	20.5	--	10.5	5,302.4
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
1995 Dec. qtr	239.8	26.9	42.7	5.0	43.6	45.0	130.2	22.3	23.8	650.2	--	--	0.8	1,230.2
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	300.8	13.4	376.7	5.2	25.2	39.2	142.1	3.0	25.3	631.3	1.6	--	0.8	1,564.5
1997 Mar. qtr	269.1	13.8	177.4	5.1	19.8	31.6	111.7	4.2	19.9	512.4	--	--	0.9	1,165.8
VALUE OF WORK DONE DURING PERIOD														
1993-94	1,675.1	113.6	476.6	27.9	265.3	282.5	790.3	106.5	100.7	1,599.6	23.5	2.0	11.7	5,475.2
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
1995 Dec. qtr	394.3	26.6	199.3	5.0	47.4	64.0	181.6	23.9	31.3	654.9	0.1	--	0.4	1,628.7
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	371.6	20.2	212.0	5.2	34.4	48.0	156.9	5.3	26.0	629.5	0.6	--	0.4	1,510.4
1997 Mar. qtr	346.1	15.0	198.6	5.4	30.8	38.4	131.8	4.9	24.2	515.9	0.9	--	0.8	1,312.7
VALUE OF WORK YET TO BE DONE														
1993-94	267.2	19.2	137.5	2.0	163.1	195.0	333.8	3.6	17.0	26.2	30.6	0.3	0.2	1,195.6
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
1995 Dec. qtr	890.9	64.8	555.1	1.5	152.1	207.0	331.8	23.7	46.2	19.3	1.2	--	0.6	2,292.7
1996 Mar. qtr	674.6	53.5	349.7	1.8	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	1.5	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	663.0	23.1	370.0	1.5	101.2	156.9	239.8	2.2	39.3	16.8	4.6	--	1.1	1,619.6
1997 Mar. qtr	551.2	22.3	250.6	1.2	112.9	120.3	215.8	1.5	32.9	17.1	0.7	--	1.4	1,327.8

**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	Pipelines	Recreation	Telecommunications	Heavy industry			Total
											Oil, gas, coal and other minerals	Other heavy industry	Other	
<b>VALUE OF WORK COMMENCED DURING PERIOD</b>														
1993-94	2,857.4	369.0	835.4	107.1	498.2	593.8	1,368.5	121.1	134.6	1,627.2	54.2	11.3	12.4	8,590.2
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
1995 Dec. qtr	683.8	46.1	64.4	9.0	54.8	122.8	297.6	41.5	34.9	658.1	19.2	6.9	2.9	2,041.0
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	50.6	152.7	121.7	205.6	18.1	75.8	651.2	10.5	7.1	2.0	3,250.7
Dec. qtr	639.3	33.0	414.0	35.3	83.0	80.4	224.8	9.3	45.9	633.8	35.3	—	3.1	2,237.2
1997 Mar. qtr	853.7	29.5	221.4	8.8	51.5	77.0	153.1	6.7	59.2	513.5	5.9	—	3.4	1,983.8
<b>VALUE OF WORK DONE DURING PERIOD</b>														
1993-94	3,102.5	328.5	693.7	131.4	598.1	531.7	1,341.1	120.4	154.6	1,630.4	74.4	31.7	14.4	8,753.1
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
1995 Dec. qtr	789.6	56.4	247.6	12.7	85.7	124.8	254.0	117.1	47.2	665.0	11.6	8.2	3.2	2,422.9
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	9.7	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	10.0	4.0	2,725.1
Sept. qtr	646.1	57.0	339.7	39.4	64.6	84.6	216.5	51.3	55.8	653.6	15.2	2.0	1.7	2,227.4
Dec. qtr	734.3	44.9	313.0	38.9	77.0	102.4	287.2	29.3	44.4	630.5	14.4	7.5	3.8	2,328.0
1997 Mar. qtr	698.8	41.0	280.3	23.6	77.0	94.4	243.4	13.3	38.4	517.7	31.4	2.4	3.7	2,065.4
<b>VALUE OF WORK YET TO BE DONE</b>														
1993-94	630.9	135.2	282.1	30.5	261.1	387.7	967.5	4.6	21.5	45.7	38.7	7.5	0.2	2,813.3
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
1995 Dec. qtr	1,315.0	87.1	654.6	11.9	217.8	344.4	552.7	151.8	54.3	20.0	17.0	10.8	4.3	3,441.0
1996 Mar. qtr	1,278.0	75.6	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	60.3	224.0	275.1	613.9	6.8	49.1	12.9	24.8	13.9	1.7	3,610.0
Dec. qtr	1,519.3	33.2	777.9	47.0	238.2	265.1	668.3	2.7	45.5	18.5	42.7	6.6	1.3	3,666.3
1997 Mar. qtr	1,622.7	39.2	616.6	34.0	237.0	223.4	563.6	2.2	64.0	18.1	83.9	1.5	1.5	3,506.2

TABLE 8. ENGINEERING CONSTRUCTION ACTIVITY BY STAGE OF CONSTRUCTION

Period	NSW	Vic.	Qld	SA	WA	Tas	NT	ACT	Australia
VALUE OF WORK COMMENCED DURING PERIOD									
1993-94	4,165.2	2,161.3	2,708.6	658.2	1,785.0	185.3	229.5	167.5	12,060.6
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
1995 Dec. qtr	699.8	488.8	960.5	143.9	534.0	51.2	56.1	34.4	2,968.6
1996 Mar. qtr	872.4	1,930.3	616.0	306.3	581.6	36.8	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	2,002.9	474.3	1,175.9	263.5	735.3	60.6	55.4	30.4	4,798.3
Dec. qtr	1,049.4	604.4	1,034.0	212.0	725.6	62.3	35.9	33.5	3,756.9
1997 Mar. qtr	1,149.6	622.6	630.7	240.4	378.8	51.6	23.8	27.2	3,114.7
VALUE OF WORK DONE DURING PERIOD									
1993-94	4,180.1	2,329.1	2,803.8	736.5	1,805.2	243.4	212.9	167.2	12,478.2
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
1995 Dec. qtr	1,292.5	574.8	840.9	166.4	722.9	67.5	58.7	38.9	3,762.5
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	1,331.3	531.3	896.7	151.1	786.0	50.7	67.6	36.1	3,850.8
Dec. qtr	1,249.4	629.1	917.1	185.8	732.1	58.5	57.5	31.8	3,861.3
1997 Mar. qtr	1,068.8	604.3	729.3	187.6	608.9	62.3	27.8	29.8	3,318.7
VALUE OF WORK YET TO BE DONE									
1993-94	1,178.9	747.9	967.6	171.9	786.6	56.7	69.3	39.7	4,018.7
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
1995 Dec. qtr	2,174.5	595.2	1,449.1	160.3	1,124.1	94.5	68.6	37.2	5,703.5
1996 Mar. qtr	1,766.7	1,912.7	1,304.2	287.8	1,158.4	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	1,759.3	1,720.4	1,394.2	350.7	1,580.9	101.9	98.7	42.8	7,049.0
Dec. qtr	1,618.3	1,736.8	1,527.6	361.0	1,721.1	94.3	64.7	39.4	7,163.2
1997 Mar. qtr	1,644.3	1,717.5	1,365.0	449.4	1,499.7	84.1	59.5	37.4	6,856.8

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

Period, State or Territory	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecommunications	Heavy industry			Total
											Oil, gas, coal and other minerals	Other heavy industry	Other	
<b>BY THE PRIVATE SECTOR</b>														
<i>December qtr 1996—r</i>														
NSW	161.2	19.4	25.5	3.6	25.1	20.0	68.0	22.4	71.7	7.0	15.4	26.0	3.1	488.4
Vic.	140.4	1.5	0.6	9.1	24.0	8.8	62.2	6.0	98.7	3.6	15.0	19.9	0.9	390.7
Qld	119.6	0.5	11.8	11.1	28.0	4.5	13.1	102.5	60.8	1.7	128.1	56.3	0.2	538.1
SA	69.4	0.8	1.2	8.9	3.5	2.5	2.1	5.8	19.6	0.2	11.0	3.2	—	128.3
WA	89.9	28.2	3.3	5.7	14.3	18.6	65.5	1.8	6.9	0.2	336.7	25.7	4.9	601.6
Tas.	11.8	0.1	—	0.1	0.1	—	—	—	2.5	—	6.6	—	—	21.3
NT	22.1	—	—	0.6	—	—	0.5	2.1	1.4	—	3.2	1.0	0.1	30.8
ACT	11.4	—	—	—	—	—	—	0.2	1.4	—	—	—	—	13.1
Australia	625.9	50.5	42.5	39.0	94.9	54.3	211.5	140.7	262.9	12.7	516.0	132.2	9.1	2,193.4
<i>March qtr 1997</i>														
NSW	395.9	7.3	8.0	0.5	24.1	27.6	11.8	9.1	76.5	42.3	32.4	15.2	1.1	651.9
Vic.	128.4	5.6	14.5	3.1	18.4	8.4	106.9	7.8	42.4	38.2	48.1	21.9	7.0	450.7
Qld	95.6	1.9	24.5	38.8	4.6	18.0	15.0	3.7	32.5	7.1	60.2	31.8	—	333.6
SA	30.9	0.7	1.7	0.4	9.6	2.2	23.0	4.2	7.7	0.1	76.6	5.7	0.2	163.2
WA	122.6	0.3	9.7	2.4	6.9	12.2	17.7	—	13.6	0.1	129.4	0.6	4.3	300.0
Tas.	18.9	0.1	—	0.1	0.1	0.3	2.8	—	2.5	—	0.5	—	—	25.4
NT	9.0	—	—	1.4	—	—	0.4	—	1.0	0.4	2.9	0.5	—	15.5
ACT	6.0	—	—	—	—	0.2	—	0.9	1.3	—	—	—	—	8.5
Australia	807.3	16.0	58.5	46.8	63.7	68.9	167.8	25.8	167.5	88.1	350.1	75.8	12.6	1,948.9
<b>BY THE PUBLIC SECTOR</b>														
<i>December qtr 1996 r</i>														
NSW	98.1	8.8	155.7	—	4.5	14.4	39.1	0.5	10.6	248.7	—	—	0.5	581.0
Vic.	20.2	0.4	11.1	—	3.6	3.0	18.0	1.7	1.8	152.3	1.6	—	0.1	213.6
Qld	71.1	0.9	209.4	5.0	13.9	7.5	40.4	0.2	5.3	142.2	—	—	—	495.9
SA	43.0	—	0.4	0.2	0.2	4.6	12.0	—	3.2	19.7	—	—	0.3	83.6
WA	52.9	1.9	—	—	2.6	4.6	18.8	0.6	3.5	39.0	—	—	—	124.0
Tas.	15.0	1.3	—	—	0.4	1.4	9.0	—	0.9	13.0	—	—	—	41.0
NT	—	—	—	—	0.1	0.1	0.9	—	—	4.0	—	—	—	5.1
ACT	0.6	—	—	—	—	3.7	3.9	—	—	12.2	—	—	—	20.4
Australia	300.8	13.4	376.7	5.2	25.2	39.2	142.1	3.0	25.3	631.3	1.6	—	0.8	1,564.5

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

Period, State or Territory	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Electricity generation, transmission and distribution			Pipelines	Recreation	Telecommunications	Heavy industry			Total
						Sewerage and drainage	Oil, gas, coal and other minerals	Other heavy industry							
BY THE PUBLIC SECTOR—continued															
March qtr 1997—															
NSW	83.4	3.0	150.0	—	4.1	9.1	26.9	1.0	7.0	212.4	—	—	—	0.9	497.7
Vic.	19.8	1.7	7.1	—	3.1	1.4	7.9	0.9	2.1	127.8	—	—	—	—	171.9
Qld	76.6	5.6	20.1	5.1	9.1	5.9	42.5	—	5.2	117.0	—	—	—	—	287.1
SA	50.0	0.3	0.1	—	—	1.9	13.6	—	0.7	10.7	—	—	—	—	77.2
WA	27.8	3.0	—	—	2.6	5.9	12.7	2.3	3.8	20.8	—	—	—	—	78.9
Tas.	11.2	0.2	—	—	0.4	2.3	—	—	1.0	11.1	—	—	—	—	26.2
NT	—	—	—	—	0.4	0.4	5.2	—	—	2.2	—	—	—	—	8.2
ACT	0.5	—	—	—	—	4.8	2.9	—	—	10.5	—	—	—	—	18.7
Australia	269.1	13.8	177.4	5.1	19.8	31.6	111.7	4.2	19.9	512.4	—	—	—	0.9	1,165.8
TOTAL															
December qtr 1996—															
NSW	259.3	28.3	181.2	3.6	29.6	34.4	107.1	22.9	82.3	255.7	15.4	26.0	3.6	3.6	1,049.4
Vic.	160.6	1.8	11.8	9.1	27.6	11.8	80.2	7.7	100.5	156.0	16.5	19.9	0.9	0.9	604.4
Qld	190.7	1.3	221.2	16.1	41.9	11.9	53.6	102.7	66.0	143.9	128.1	56.3	0.2	0.2	1,034.0
SA	112.4	0.9	1.7	9.1	3.7	7.1	44.2	5.8	122.8	19.9	11.0	3.2	0.3	0.3	212.0
WA	142.8	30.1	3.3	5.7	16.9	23.1	84.3	2.4	10.4	39.2	336.7	25.7	4.9	4.9	725.6
Tas.	26.8	1.4	—	0.1	0.5	1.4	9.0	—	3.4	13.0	6.6	—	—	—	62.3
NT	22.1	—	—	0.6	0.1	0.1	1.4	2.1	1.4	4.1	3.2	1.0	—	—	35.9
ACT	12.0	—	—	—	—	3.7	3.9	0.2	1.4	12.2	—	—	—	—	33.5
Australia	926.7	63.8	419.1	44.2	120.2	93.5	353.6	143.8	288.7	644.0	517.6	132.2	9.9	9.9	3,756.9
March qtr 1997															
NSW	479.2	10.4	158.0	0.5	28.2	36.7	38.7	10.0	83.5	254.7	32.4	15.2	2.0	2.0	1,149.6
Vic.	148.2	7.4	21.6	3.1	21.5	9.8	114.9	8.7	44.6	165.9	48.1	21.9	7.0	7.0	622.6
Qld	172.2	7.5	44.7	43.8	13.6	23.9	57.5	3.7	37.7	124.1	60.2	31.8	—	—	620.7
SA	80.8	1.0	1.9	0.4	9.7	4.1	36.6	4.2	8.4	10.8	76.6	5.7	0.2	0.2	240.4
WA	150.4	3.3	9.7	2.4	9.5	18.1	20.4	2.3	7.4	20.9	129.4	0.6	4.3	4.3	378.8
Tas.	30.1	0.3	—	0.1	0.6	2.6	2.8	—	3.5	11.1	0.5	—	—	—	51.6
NT	9.0	—	—	1.4	0.4	0.4	5.7	—	1.0	2.5	2.9	0.5	—	—	23.8
ACT	6.5	—	—	—	—	5.0	2.9	0.9	1.3	10.5	—	—	—	—	27.2
Australia	1,076.4	29.9	235.9	51.9	83.5	100.5	279.5	29.9	187.3	600.6	350.1	75.8	13.5	13.5	3,114.7

**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, drainage and distribution	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecomm- unications	Heavy industry			Total
											Oil, gas, coal and other minerals	Other heavy industry	Other	
<b>BY THE PRIVATE SECTOR</b>														
<i>December qtr 1996 - r</i>														
NSW	201.7	11.2	77.2	2.1	28.7	23.4	52.8	20.5	64.8	11.3	58.1	52.0	3.1	606.8
Vic.	140.2	3.0	4.6	8.1	15.0	17.2	69.3	6.9	90.7	15.6	21.0	18.7	1.4	411.7
Qld	179.2	0.8	22.8	17.8	23.4	15.1	23.1	19.8	61.9	9.3	125.4	24.9	0.6	524.1
SA	35.4	0.9	1.2	5.5	5.2	4.6	6.8	4.4	19.4	0.1	14.0	6.2		103.7
WA	109.8	17.0	13.2	4.7	6.9	13.2	76.1	21.6	7.0	0.6	281.6	88.5	6.2	616.4
Tas.	17.1	—	—	0.4	0.4	1.9	—	0.2	3.0	—	1.7	0.7		25.4
NT	25.8	—	—	12.2	—	—	0.8	0.3	1.7	—	10.2	0.9		51.9
ACT	7.6	—	—	—	—	0.2	—	0.2	2.9	—	—	—	0.1	10.9
Australia	716.8	32.9	119.1	50.8	79.7	75.6	228.8	73.8	231.4	36.9	571.9	167.9	11.2	2,350.9
<i>Mar-6 qtr 1997</i>														
NSW	203.4	7.6	71.5	2.2	18.3	22.8	20.6	14.7	57.9	14.9	33.3	21.1	1.0	489.4
Vic.	207.2	14.1	2.5	9.9	16.3	11.3	48.9	7.8	40.9	10.2	17.4	29.4	2.6	418.4
Qld	123.3	1.0	10.4	19.1	14.3	18.6	22.8	11.0	30.5	10.1	120.4	31.9	—	413.4
SA	34.0	3.9	1.7	4.0	8.6	2.0	6.9	5.4	7.6	0.1	11.8	10.2	0.2	96.4
WA	88.8	7.0	13.1	5.9	11.4	9.0	90.1	10.5	4.6	1.1	220.5	55.0	4.9	522.0
Tas.	22.2	0.1	—	0.1	0.2	1.5	2.8	—	0.7	—	2.2	—		29.9
NT	10.2	—	—	4.1	—	—	1.0	0.1	1.1	—	5.9	0.5		23.2
ACT	10.8	—	—	—	—	0.1	—	0.1	2.3	—	—	—		13.3
Australia	709.0	33.7	99.2	45.3	69.2	65.3	193.0	49.7	145.5	36.9	471.5	148.0	8.7	2,005.9
<b>BY THE PUBLIC SECTOR</b>														
<i>December qtr 1996 - r</i>														
NSW	145.6	4.6	155.7	—	8.2	14.1	53.6	0.6	11.3	248.7	—	—	0.4	642.6
Vic.	20.2	0.9	13.4	—	3.5	4.8	20.7	1.7	0.8	150.8	0.6	—	0.4	217.4
Qld	113.5	5.7	42.0	5.0	16.3	16.9	44.5	0.1	7.4	141.6	—	—	—	393.0
SA	41.0	—	0.4	0.2	3.4	3.1	12.0	—	2.1	19.8	—	—	—	82.1
WA	36.8	7.9	0.6	—	2.3	4.3	18.8	3.0	3.1	39.1	—	—	—	115.7
Tas.	13.9	1.1	—	—	0.3	1.0	2.3	—	1.3	13.0	—	—	—	33.1
NT	0.1	—	—	—	0.2	0.1	1.1	—	0.1	4.0	—	—	—	5.7
ACT	0.6	—	—	—	0.2	3.7	4.0	—	0.1	12.4	—	—	—	30.9
Australia	371.6	20.2	212.0	5.2	34.4	48.0	156.9	5.3	26.0	679.5	0.6	—	0.4	1,510.1

**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	Heavy industry										Total	
	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage drainage and distribution	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecomm- unications		Oil, gas, coal and other minerals
<b>BY THE PUBLIC SECTOR</b> — continued												
<i>March qtr 1997</i>												
NSW	135.1	5.5	150.0	...	9.6	11.7	44.6	0.4	8.7	213.5	0.5	579.4
Vic.	22.0	1.8	11.7	...	3.5	4.5	11.1	0.3	1.5	128.7	0.9	185.9
Qld	85.2	4.5	36.9	5.1	9.6	0.7	40.4	-	6.9	117.6	...	315.9
SA	54.3	0.2	0.1	0.3	4.5	3.2	13.5	-	3.9	10.7	0.3	91.2
WA	35.5	2.6	...	...	2.7	5.9	12.7	4.1	2.3	21.0	...	86.9
Tas.	13.5	0.4	...	...	0.5	1.1	4.6	...	0.8	11.5	...	32.4
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
<b>Australia</b>	<b>346.1</b>	<b>15.0</b>	<b>198.6</b>	<b>5.4</b>	<b>30.8</b>	<b>38.4</b>	<b>131.8</b>	<b>4.9</b>	<b>24.2</b>	<b>515.9</b>	<b>0.9</b>	<b>1,312.7</b>
<b>TOTAL</b>												
<i>December qtr 1996 - 7</i>												
NSW	347.2	15.8	232.9	2.1	36.9	37.5	106.4	21.1	76.1	260.0	58.1	4,249.4
Vic.	160.4	3.8	18.0	8.1	18.5	22.0	89.9	8.6	91.5	166.5	21.6	1.4
Qld	292.7	6.6	64.8	22.8	39.7	32.1	67.6	19.9	69.2	150.9	125.4	0.6
SA	76.4	0.9	1.7	5.7	8.6	7.7	18.8	4.4	31.4	19.9	14.0	6.2
WA	146.7	24.9	13.7	4.7	9.2	17.5	94.9	24.6	10.1	39.7	281.6	58.5
Tas.	31.0	1.2	...	0.4	0.7	2.9	2.4	0.2	4.4	13.0	1.7	0.7
NT	25.9	...	...	12.2	0.2	0.1	1.9	0.3	1.7	4.1	10.2	0.9
ACT	8.2	...	...	...	0.2	3.9	4.0	0.2	2.9	12.4	...	0.1
<b>Australia</b>	<b>1,088.4</b>	<b>53.1</b>	<b>331.1</b>	<b>56.0</b>	<b>114.1</b>	<b>123.6</b>	<b>385.7</b>	<b>79.2</b>	<b>277.4</b>	<b>666.5</b>	<b>512.6</b>	<b>161.9</b>
<i>March qtr 1997</i>												
NSW	338.5	13.0	221.5	2.2	27.9	34.5	65.1	15.2	66.6	228.4	33.3	21.1
Vic.	229.2	15.8	14.2	9.9	19.8	15.8	60.0	8.1	42.4	139.0	18.2	29.4
Qld	208.4	5.5	47.2	24.2	23.9	28.3	63.2	11.1	37.5	127.7	120.4	31.9
SA	88.4	4.1	1.9	4.3	13.2	5.4	20.3	5.4	11.5	10.8	11.8	10.2
WA	124.4	9.7	13.1	5.9	14.1	15.0	102.7	14.6	6.9	22.2	220.5	55.0
Tas.	35.7	0.5	...	0.1	0.6	2.6	7.4	...	1.6	11.5	2.2	62.3
NT	10.3	...	...	4.1	0.2	0.1	3.0	0.1	1.1	2.5	5.9	0.5
ACT	11.3	...	...	...	0.2	2.2	3.0	0.1	2.3	10.7	...	29.8
<b>Australia</b>	<b>1,046.1</b>	<b>48.7</b>	<b>297.8</b>	<b>50.7</b>	<b>99.9</b>	<b>103.8</b>	<b>324.8</b>	<b>54.5</b>	<b>169.7</b>	<b>552.8</b>	<b>412.3</b>	<b>148.0</b>
<b>Australia</b>					<b>99.9</b>	<b>103.8</b>	<b>324.8</b>	<b>54.5</b>	<b>169.7</b>	<b>552.8</b>	<b>412.3</b>	<b>148.0</b>
											<b>9.5</b>	<b>3,318.7</b>

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	Electricity				Heavy industry			Total
						generation, transmission and distribution	Pipelines	Recreation	Telecomm- unications	Oil, gas, coal and other minerals	Other heavy industry	Other	
<b>BY THE PRIVATE SECTOR</b>													
<i>December qtr 1996 - r</i>													
NSW	335.4	18.0	380.6	3.1	17.9	36.1	75.9	8.7	17.3	3.0	64.6	48.3	1,009.0
Vic.	1,415.4	2.2	4.3	21.5	13.3	32.7	60.8	—	78.5	3.4	8.0	12.0	1,652.1
Qld	102.5	0.7	26.6	64.5	27.9	23.8	126.7	106.7	12.9	0.1	276.1	57.5	829.6
SA	48.0	—	—	6.4	86.3	2.4	71.9	4.5	3.6	0.1	27.6	24.6	275.4
WA	292.0	13.9	100.4	3.7	8.5	16.6	431.2	27.7	1.8	0.1	736.4	25.1	1,658.4
Tas.	21.0	0.1	—	—	—	2.0	—	—	0.4	—	4.9	—	28.5
NT	7.4	—	—	14.3	—	—	0.7	2.1	0.1	—	33.3	0.3	58.3
ACT	27.5	—	—	—	—	—	—	4.9	—	—	—	—	32.4
<i>Australia</i>	<i>2,249.2</i>	<i>34.9</i>	<i>511.8</i>	<i>113.6</i>	<i>133.9</i>	<i>113.6</i>	<i>767.1</i>	<i>149.8</i>	<i>110.4</i>	<i>19.3</i>	<i>1,150.8</i>	<i>167.9</i>	<i>5,543.6</i>
<i>March qtr 1997</i>													
NSW	510.4	18.1	317.6	1.4	24.1	42.9	55.7	3.1	37.0	33.8	63.6	47.6	1,155.4
Vic.	1,350.8	5.3	15.4	14.7	16.4	33.2	103.9	0.1	5.5	33.0	61.0	8.5	1,652.1
Qld	83.3	1.5	36.8	84.9	18.5	23.2	120.5	94.3	4.8	10.2	272.6	58.5	809.1
SA	51.7	2.1	—	3.2	87.0	1.4	88.3	4.2	0.6	0.1	90.6	30.7	360.1
WA	316.1	6.2	100.3	3.1	3.9	22.3	333.5	23.1	1.0	0.1	610.5	10.1	1,450.7
Tas.	17.4	—	—	—	—	0.9	—	—	2.3	—	3.2	—	23.9
NT	4.8	—	—	11.8	—	—	0.2	2.1	0.1	—	30.3	0.3	49.5
ACT	23.3	—	—	—	—	0.1	—	0.9	3.9	—	—	—	28.1
<i>Australia</i>	<i>2,357.8</i>	<i>33.3</i>	<i>476.0</i>	<i>119.1</i>	<i>149.9</i>	<i>123.9</i>	<i>722.0</i>	<i>127.8</i>	<i>55.1</i>	<i>77.2</i>	<i>1,131.9</i>	<i>155.7</i>	<i>5,539.0</i>
<b>BY THE PUBLIC SECTOR</b>													
<i>December qtr 1996 - r</i>													
NSW	401.6	17.2	—	—	34.1	66.2	69.7	—	14.7	4.9	—	—	609.3
Vic.	14.8	2.2	24.6	—	2.4	14.4	18.2	—	1.0	2.6	4.6	—	84.7
Qld	166.6	3.6	345.4	—	20.3	48.1	99.6	0.1	12.3	2.1	—	—	698.0
SA	15.5	—	—	1.5	38.7	23.2	—	—	6.3	0.2	—	—	85.6
WA	54.6	—	—	—	0.4	1.5	—	2.1	3.6	0.5	—	—	62.8
Tas.	9.7	0.1	—	—	1.6	3.1	48.6	—	1.2	1.4	—	—	65.8
NT	0.1	—	—	—	1.3	0.4	3.7	—	0.2	0.8	—	—	6.4
ACT	—	—	—	—	2.5	0.1	0.1	—	4.3	—	—	—	7.0
<i>Australia</i>	<i>663.0</i>	<i>23.1</i>	<i>370.0</i>	<i>1.5</i>	<i>101.2</i>	<i>156.9</i>	<i>239.8</i>	<i>2.2</i>	<i>39.3</i>	<i>16.8</i>	<i>4.6</i>	<i>—</i>	<i>1,619.6</i>



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

Period, State or Territory	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecommu- nications	Heavy industry			Total	
											Oil, gas, coal and other minerals	Other heavy industry	Other		
BY THE PUBLIC SECTOR (continued)															
March qtr 1997 —															
NSW	322.9	14.2	—	—	27.5	51.6	54.3	0.6	12.3	4.1	—	—	—	1.3	488.9
Vic.	10.2	2.1	20.0	—	2.3	11.4	13.5	0.6	1.7	2.9	—	—	—	—	65.4
Qld	160.0	5.2	230.5	—	17.6	32.8	96.8	—	10.8	2.1	—	—	—	—	555.9
SA	8.7	0.1	—	1.2	59.8	15.1	0.1	—	2.9	1.2	—	—	—	—	89.2
WA	41.6	0.5	—	—	0.5	1.3	—	0.3	3.8	1.0	—	—	—	—	49.0
Tas.	7.7	0.1	—	—	1.6	4.5	44.0	—	1.3	1.0	—	—	—	—	60.2
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	551.2	22.3	250.6	1.2	112.9	120.3	215.8	1.5	32.9	17.1	—	—	—	1.4	1,327.8
TOTAL															
December qtr 1996 —†															
NSW	737.0	35.3	380.6	3.1	52.0	102.3	145.5	8.8	31.9	8.0	—	—	—	—	1,618.3
Vic.	1,430.2	4.4	28.8	21.5	15.6	47.0	79.0	—	79.5	6.0	—	—	—	—	1,736.8
Qld	269.2	4.2	372.0	64.5	48.1	71.9	226.3	106.8	16.1	15.0	—	—	—	—	1,527.6
SA	63.5	—	—	7.9	125.0	25.6	71.9	4.5	6.9	0.3	—	—	—	—	361.0
WA	346.6	13.9	100.4	3.7	8.9	18.1	431.2	29.8	5.4	0.6	—	—	—	—	1,721.1
Tas.	30.7	0.2	—	—	1.6	5.1	48.6	—	1.6	1.4	—	—	—	—	94.3
NT	7.5	—	—	14.3	1.3	0.4	4.5	2.1	0.3	0.8	—	—	—	—	64.7
ACT	27.6	—	—	—	2.5	0.1	0.1	—	4.9	4.3	—	—	—	—	39.4
Australia	2,912.2	58.0	881.8	115.1	255.1	270.5	1,007.0	152.0	149.7	36.3	—	—	—	2.1	7,163.2
March qtr 1997 —															
NSW	833.3	32.3	317.6	1.4	51.6	94.6	110.0	3.6	49.3	37.9	—	—	—	—	1,644.3
Vic.	1,361.0	7.5	35.4	14.7	18.7	44.6	117.4	0.7	7.2	35.8	—	—	—	—	1,717.5
Qld	243.3	6.8	267.3	84.9	36.2	55.9	217.2	94.3	15.7	12.3	—	—	—	—	1,365.0
SA	60.4	2.2	—	4.4	146.8	16.5	88.5	4.2	3.6	1.3	—	—	—	—	449.4
WA	357.7	6.6	100.3	3.1	4.3	23.6	353.5	23.4	4.6	1.1	—	—	—	—	1,495.7
Tas.	25.1	0.1	—	—	1.6	5.4	44.0	—	3.7	1.0	—	—	—	—	84.1
NT	4.8	—	—	11.8	1.3	0.7	7.1	2.1	0.2	0.8	—	—	—	—	59.5
ACT	23.4	—	—	—	2.3	2.9	—	0.9	3.9	4.1	—	—	—	—	37.4
Australia	2,908.9	55.6	720.6	120.3	262.8	244.2	937.8	129.3	88.1	94.3	—	—	—	6.7	6,856.8

**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>
<b>DECEMBER QUARTER 1996 r</b>									
<i>For the private sector —</i>									
Value of work commenced	226.0	285.1	402.8	58.2	516.9	10.1	17.4	3.2	1,519.7
Value of work done	328.5	280.9	377.0	63.0	441.5	11.5	24.3	6.6	1,533.3
Value of work yet to be done	262.9	1,299.6	679.9	121.2	1,059.5	7.6	45.4	20.7	3,496.9
<i>For the public sector —</i>									
Value of work commenced	242.4	105.6	135.3	70.1	84.7	11.2	13.4	9.9	672.7
Value of work done	278.3	130.9	147.1	40.7	174.9	13.9	27.5	4.4	817.5
Value of work yet to be done	746.0	352.5	149.7	154.2	598.8	20.9	12.9	11.7	2,046.7
<b>Total</b>									
Value of work commenced	468.4	390.7	538.1	128.3	601.6	21.3	30.8	13.1	2,192.4
Value of work done	606.8	411.7	524.1	103.7	616.4	25.4	51.9	10.9	2,350.9
Value of work yet to be done	1,009.0	1,652.1	829.6	275.4	1,658.4	28.5	58.3	32.4	5,543.6
<b>MARCH QUARTER 1997</b>									
<i>For the private sector —</i>									
Value of work commenced	228.0	328.6	242.7	106.6	204.3	8.3	8.0	4.4	1,130.9
Value of work done	241.7	265.7	292.8	51.5	375.8	8.9	11.1	5.8	1,253.3
Value of work yet to be done	256.9	1,309.8	627.4	187.1	900.9	6.9	42.3	19.4	3,350.6
<i>For the public sector —</i>									
Value of work commenced	423.9	122.1	90.9	56.6	95.6	17.1	7.6	4.1	818.0
Value of work done	247.7	152.7	120.6	44.9	146.2	21.0	12.1	7.6	752.7
Value of work yet to be done	898.5	342.3	181.8	173.0	549.8	17.0	7.2	8.8	2,178.4
<b>Total</b>									
Value of work commenced	651.9	450.7	333.6	163.2	300.0	25.4	15.5	8.5	1,948.9
Value of work done	489.4	418.4	413.4	96.4	522.0	29.9	23.2	13.3	2,005.9
Value of work yet to be done	1,155.4	1,652.1	809.1	360.1	1,450.7	23.9	49.5	28.1	5,529.0

**TABLE 13. ENGINEERING CONSTRUCTION ACTIVITY BY STAGE OF CONSTRUCTION  
BY THE PUBLIC SECTOR  
(\$ million)**

State or Territory	Value of work commenced		Value of work done		Value of work yet to be done	
	Dec. qtr 1996 r	Mar. qtr 1997	Dec. qtr 1996 r	Mar. qtr 1997	Dec. qtr 1996 r	Mar. qtr 1997
<b>COMMONWEALTH GOVERNMENT</b>						
NSW	250.5	212.9	250.1	217.0	36.2	35.1
Vic.	154.3	127.8	150.9	128.8	4.2	2.9
Qld	142.3	117.0	141.5	117.6	2.0	2.0
SA	19.7	10.7	19.8	10.7	0.2	1.2
WA	39.0	20.8	39.1	21.0	0.5	1.0
Tas.	13.0	11.1	13.0	11.1	—	—
NT	4.0	2.2	4.0	2.2	0.8	0.8
ACT	12.2	10.5	12.2	10.5	—	—
<i>Australia</i>	<i>635.1</i>	<i>512.9</i>	<i>630.6</i>	<i>518.8</i>	<i>43.9</i>	<i>43.0</i>
<b>STATE AND TERRITORY GOVERNMENT</b>						
NSW	216.3	200.0	285.8	264.5	408.5	319.1
Vic.	36.5	20.2	45.3	33.5	66.5	50.7
Qld	272.6	105.6	130.4	119.4	504.0	387.1
SA	42.3	52.9	46.7	59.5	61.2	75.1
WA	49.0	28.7	49.1	37.0	26.6	18.3
Tas.	12.0	6.3	5.4	11.3	50.0	45.0
NT	1.0	6.0	1.5	2.3	5.4	9.0
ACT(a)	8.2	8.2	8.6	6.0	7.0	9.2
<i>Australia</i>	<i>637.7</i>	<i>428.0</i>	<i>572.7</i>	<i>533.5</i>	<i>1,129.1</i>	<i>913.5</i>
<b>LOCAL GOVERNMENT</b>						
NSW	114.2	84.8	106.8	98.0	164.7	134.6
Vic.	22.8	23.9	21.2	23.6	14.0	11.8
Qld	81.0	64.5	121.1	78.9	192.0	166.8
SA	21.6	13.6	15.6	21.0	24.2	13.0
WA	36.0	29.3	27.5	28.9	35.6	29.7
Tas.	16.1	8.8	14.7	10.0	15.8	15.2
NT	—	—	0.2	0.1	0.3	0.2
ACT	—	—	—	—	—	—
<i>Australia</i>	<i>291.7</i>	<i>225.0</i>	<i>307.1</i>	<i>260.4</i>	<i>446.6</i>	<i>371.3</i>
<b>TOTAL GOVERNMENT</b>						
NSW	581.0	497.7	642.6	579.4	609.3	488.9
Vic.	213.6	171.9	217.4	185.9	84.7	65.4
Qld	495.9	287.1	393.0	315.9	698.0	555.9
SA	83.6	77.2	82.1	91.2	85.6	89.2
WA	124.0	78.9	115.7	86.9	62.8	49.0
Tas.	41.0	26.2	33.1	32.4	65.8	60.2
NT	5.1	8.2	5.7	4.6	6.4	10.0
ACT	20.4	18.7	20.9	16.4	7.0	9.2
<i>Australia</i>	<i>1,564.5</i>	<i>1,165.8</i>	<i>1,510.4</i>	<i>1,312.7</i>	<i>1,619.6</i>	<i>1,327.8</i>

(a) From September quarter 1990, data relating to the ACT Government has been excluded from Commonwealth Government activity for the ACT and is shown separately as ACT Government activity.

TABLE 14. APPROXIMATE RELATIVE STANDARD ERRORS ON QUARTERLY ESTIMATES FOR THE VALUE OF WORK COMMENCED BY SECTOR UNDERTAKING THE WORK (percentage)

State or Territory	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation	Telecommunications	Heavy industry			Total
											Oil, gas, coal and other minerals	Other heavy industry	Other	
BY THE PRIVATE SECTOR														
NSW	6.2	41.8	9.4	12.8	8.9	13.1	2.1	7.5	13.3	5.5	1.0	2.0	30.5	2.4
Vic.	3.2	18.4	—	—	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	—	—	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	—	—	—	—	—	—	—	30.4	—	—	60.4	—	8.9
NT	14.5	—	—	—	—	—	10.3	—	49.5	—	—	—	—	5.8
ACT	35.2	—	—	—	—	—	—	—	54.3	—	—	—	—	28.9
<b>Australia</b>	<b>2.2</b>	<b>32.6</b>	<b>4.3</b>	<b>10.7</b>	<b>6.8</b>	<b>7.4</b>	<b>0.8</b>	<b>18.7</b>	<b>8.2</b>	<b>10.0</b>	<b>3.1</b>	<b>1.8</b>	<b>19.3</b>	<b>1.1</b>
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	—	—	—	—	13.2	—	—	31.4	—	—	—	—	6.3
WA	6.8	6.5	—	—	0.2	2.0	—	—	11.8	—	—	—	—	3.7
Tas.	3.4	—	—	—	63.2	18.0	—	—	9.8	—	—	—	—	4.5
NT	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ACT	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Australia</b>	<b>2.1</b>	<b>5.2</b>	<b>—</b>	<b>—</b>	<b>5.4</b>	<b>3.4</b>	<b>0.9</b>	<b>0.3</b>	<b>5.7</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>7.4</b>	<b>0.7</b>
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	—	—	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	—	—	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	—	—	—	47.9	34.3	—	—	22.3	—	—	—	—	4.8
NT	14.4	—	—	—	12.3	44.7	9.5	—	48.8	—	—	—	—	5.6
ACT	33.7	—	—	—	—	—	—	—	54.3	—	—	—	—	12.5
<b>Australia</b>	<b>1.7</b>	<b>19.8</b>	<b>2.5</b>	<b>8.6</b>	<b>4.3</b>	<b>4.2</b>	<b>0.6</b>	<b>9.6</b>	<b>7.4</b>	<b>0.2</b>	<b>3.1</b>	<b>1.8</b>	<b>14.0</b>	<b>0.8</b>

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	—	—	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	—	—	—	—	8.1
NT	10.7	—	—	—	—	—	7.6	—	51.8	—	—	—	—	5.6
ACT	16.1	—	—	—	—	—	—	—	55.5	—	—	—	—	23.9
<b>Australia</b>	<b>2.0</b>	<b>4.0</b>	<b>2.8</b>	<b>7.2</b>	<b>3.6</b>	<b>5.1</b>	<b>0.8</b>	<b>6.0</b>	<b>7.7</b>	<b>4.7</b>	<b>1.3</b>	<b>1.7</b>	<b>14.1</b>	<b>1.1</b>
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	—	—	—	0.9	11.1	—	—	33.7	—	—	—	—	4.9
WA	7.5	3.8	—	—	0.1	2.0	—	—	13.2	—	—	—	—	3.9
Tas.	3.2	—	—	—	43.4	9.8	—	—	7.1	—	—	—	—	2.9
NT	—	—	—	—	—	—	—	—	—	—	—	—	—	—
ACT	—	—	—	—	—	—	—	—	—	—	—	—	—	—
<b>Australia</b>	<b>1.3</b>	<b>2.1</b>	<b>—</b>	<b>—</b>	<b>3.9</b>	<b>3.0</b>	<b>0.6</b>	<b>0.5</b>	<b>5.1</b>	<b>—</b>	<b>—</b>	<b>—</b>	<b>2.8</b>	<b>0.4</b>
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	—	—	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	—	—	—	24.6	25.6	—	—	18.2	—	—	—	—	3.6
NT	10.4	—	—	—	8.2	20.9	7.2	—	50.0	—	—	—	—	5.4
ACT	15.5	—	—	—	—	—	—	—	55.5	—	—	—	—	11.6
<b>Australia</b>	<b>1.3</b>	<b>2.5</b>	<b>0.8</b>	<b>6.0</b>	<b>2.6</b>	<b>3.2</b>	<b>0.5</b>	<b>3.7</b>	<b>6.7</b>	<b>0.2</b>	<b>1.3</b>	<b>1.7</b>	<b>10.7</b>	<b>0.6</b>

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	Heavy industry										Total			
	Roads, highways and substations	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	1.0	5.7	2.1	7.9	0.4	3.9	0.3	3.3	11.1	0.3	0.8	0.4	0.4	
Vic.	1.3	18.6	...	0.6	1.1	1.9	...	0.8	19.4	4.7	10.2	...	0.9	
Qld	1.1	37.8	4.1	5.3	3.7	6.2	1.4	9.9	6.6	6.6	64.6	...	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	0.5	
Tas.	6.0	...	...	...	2.9	37.2	...	...	20.3	...	...	...	9.1	
NT	3.5	...	...	...	...	...	2.6	...	27.1	...	...	...	0.7	
ACT	25.5	...	...	...	...	...	...	...	30.3	...	...	...	7.4	
<b>Australia</b>	<b>0.7</b>	<b>13.6</b>	<b>1.3</b>	<b>1.8</b>	<b>0.6</b>	<b>2.1</b>	<b>0.2</b>	<b>3.5</b>	<b>6.7</b>	<b>0.9</b>	<b>1.5</b>	<b>0.9</b>	<b>15.1</b>	<b>0.3</b>
BY THE PUBLIC SECTOR														
NSW	1.2	2.9	...	...	3.2	10.7	2.2	56.8	9.3	...	...	...	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	...	...	...	13.8	...	...	20.2	...	...	...	6.3	
Tas.	6.6	...	...	...	7.1	6.1	...	...	4.2	...	...	...	1.6	
NT	...	...	...	...	...	...	...	...	...	...	...	...	...	
ACT	...	...	...	...	...	...	...	...	...	...	...	...	...	
<b>Australia</b>	<b>1.4</b>	<b>2.1</b>	<b>...</b>	<b>...</b>	<b>3.1</b>	<b>2.2</b>	<b>0.4</b>	<b>4.5</b>	<b>5.3</b>	<b>...</b>	<b>...</b>	<b>29.1</b>	<b>0.8</b>	
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	...	...	1.0
SA	10.8	4.2	...	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	...	...	...	3.1	19.9	...	...	6.5	...	...	...	...	2.0
NT	3.1	...	...	...	2.5	3.0	2.3	...	20.7	...	...	...	...	0.7
ACT	24.8	...	...	...	...	...	...	...	30.3	...	...	...	...	2.4
<b>Australia</b>	<b>0.7</b>	<b>8.2</b>	<b>0.4</b>	<b>1.6</b>	<b>1.6</b>	<b>1.7</b>	<b>0.2</b>	<b>2.9</b>	<b>4.7</b>	<b>0.5</b>	<b>1.5</b>	<b>0.9</b>	<b>14.3</b>	<b>0.4</b>

# 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 were included in the September quarter 1996 issue. Information regarding the methods used in seasonally adjusting the series, is available on request.

## EXPLANATORY NOTES *continued*

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**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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