

CATALOGUE NO. 8762.0

EMBARGOED UNTIL 11.30 A.M. 15 APRIL 1994

ENGINEERING CONSTRUCTION ACTIVITY, AUSTRALIA DECEMBER QUARTER 1993

SUMMARY OF FINDINGS

Engineering Construction Activity

At average 1989-90 prices.

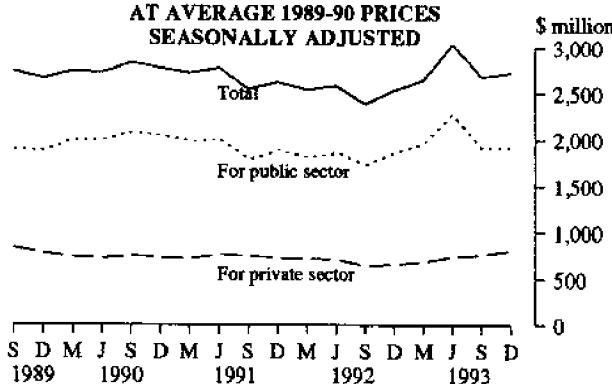
Expressed at average 1989-90 prices, the seasonally adjusted estimate of the *value of engineering construction work done* during the December quarter 1993 was \$2,731.2m an increase of 1.5 per cent over the September quarter 1993 estimate, and 7.7 per cent above the December quarter 1992 estimate. Quarterly comparisons (from Table 2) and associated percentage movements are as follows:

VALUE OF WORK DONE (at 1989-90 prices, seasonally adjusted)

| | Percentage movement | | |
|--------------------|---------------------|-----------|----------|
| | From | From | |
| | Dec. qtr | Sept. qtr | Dec. qtr |
| 1993 | 1993 | 1993 | 1992 |
| For private sector | \$811.0m | 5.6 | 21.2 |
| For public sector | \$1,920.2m | -0.1 | 2.9 |
| Total | \$2,731.2m | 1.5 | 7.7 |

ENGINEERING CONSTRUCTION ACTIVITY VALUE OF WORK DONE BY SECTOR OF OWNERSHIP

AT AVERAGE 1989-90 PRICES
SEASONALLY ADJUSTED



The increase in Engineering construction activity in the December quarter 1993 was due to a 5.6 per cent rise in work undertaken for the private sector, which at \$811.0m was at its highest level since the September quarter 1989. Work undertaken for the public sector remained virtually unchanged. A rise of 7.6 per cent in the work undertaken by the public sector's own workforce was offset by a 11.5 per cent fall in work contracted to the private sector.

At current prices

In original, current price terms, the *value of work done* during the December quarter 1993 was \$3,001.5m, an increase of 4.8 per cent over the September quarter 1993 estimate, and 8.0 per cent above the level recorded in the December quarter 1992.

Activity increased in New South Wales (8.8%), Victoria (2.3%), South Australia (10.4%), Western Australia (7.2%), Tasmania (5.4%) and the Northern Territory (18.1%). Queensland and the Australian Capital Territory recorded declines of 1.6 per cent and 3.7 per cent respectively in engineering construction activity in the December quarter 1993.

Activity rose in most construction categories, with the most significant growth occurring in the Roads, highways and subdivisions (5.7%), Railways (36.9%), Sewerage and drainage (13.6%), Pipelines (42.3%) and Oil, gas, coal and other minerals (16.3%) categories. Smaller rises were recorded in the Bridges (7.3%), Water storage and supply (11.6%), and Telecommunications (4.6%) categories. Falls were recorded in the other categories with the most significant being a 12.5 per cent fall in the Electricity generation, transmission and distribution category.

INQUIRIES

- for further information about statistics in this publication and the availability of related unpublished statistics, please contact Brendan Brady on Canberra (06) 252 6067 or any ABS State Office.
- for information about other ABS statistics and services please refer to the back page of this publication.

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

The *value of work commenced* during the December quarter 1993 was \$842.1m, a decrease of 6.0 per cent from the September quarter 1993 estimate, but still 16.6 per cent above the value of commencements for the December quarter 1992. The most significant quarterly increases were in the two largest categories of Heavy industry and Roads, highways and subdivisions where commencements rose by 6.4 per cent and 6.3 per cent respectively. Smaller increases in commencements were reported in the Bridges, Recreation, and Telecommunications categories. These increases were more than offset by falls in the value of commencements in all other categories, the most significant being a 76.8 per cent fall in the Water storage and supply category from a high September quarter estimate.

The *value of work done* in the December quarter 1993 was \$938.9m, an increase of 10.0 per cent over the September quarter estimate. Increases were recorded in all categories with the exception of the Telecommunications and the small Other categories. The most significant movement was an increase of 8.7 per cent in the Heavy industry category.

The *value of work yet to be done* fell by 2.3 per cent to \$1,198.3m, but is still 54.9 per cent higher than the December quarter 1992 estimate.

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

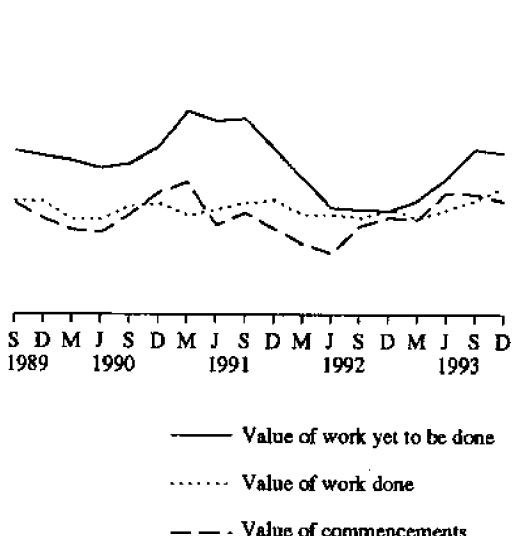
The *value of engineering work commenced* for the public sector in the December quarter 1993 was \$1,676.0m, a decrease of 35.6 per cent from the September quarter 1993 estimate, and 6.1 per cent less than the December 1992 estimate. However, public sector commencements traditionally decrease in the December quarter, as the September quarter commencement estimates are impacted by a number of public sector organisations reporting annual budget figures as commencements in the September quarter (see paragraph 14 of the explanatory notes for more detail). Decreases were recorded in all categories (with the exception of Pipelines), the most significant being in the Roads, highways and subdivisions and Railways categories.

The *value of engineering work done* for the public sector (\$2,062.7m) rose 2.6 per cent in the December quarter 1993, due to an increase of 11.6 per cent in the work done by its own workforce. This increase occurred across all levels of government; State and Territory increased by \$98.1m (20.2%), Commonwealth by \$31.4m (8.7%) and Local Government by a relatively small \$5.6m (1.7%).

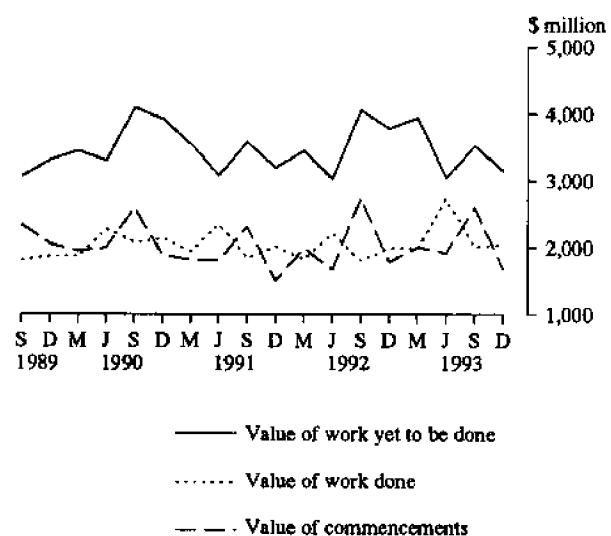
The *value of public sector work contracted out* to the private sector fell by 9.9 per cent in the December quarter.

In terms of the type of work undertaken, the most significant increases were in the Roads, highways and subdivisions (5.5%), Railways (40.8%) and Telecommunications (8.4%) categories. These increases were partly offset by a fall of 15.8 per cent in the Electricity generation, transmission and distribution category.

**ENGINEERING CONSTRUCTION ACTIVITY
FOR PRIVATE SECTOR**



**ENGINEERING CONSTRUCTION ACTIVITY
FOR PUBLIC SECTOR**



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

| <i>Period</i> | <i>By the private sector</i> | | | <i>By the public sector</i> | <i>Total for the public sector (a)</i> | <i>Total</i> |
|----------------------------|-------------------------------|------------------------------|--------------|-----------------------------|--|--------------|
| | <i>For the private sector</i> | <i>For the public sector</i> | <i>Total</i> | | | |
| ORIGINAL | | | | | | |
| 1990-91 | 3,150.4 | 2,556.7 | 5,707.1 | 5,967.8 | 8,524.5 | 11,674.9 |
| 1991-92 | 3,168.2 | 2,692.4 | 5,860.6 | 5,230.4 | 7,922.7 | 11,091.0 |
| 1992-93 | 2,996.5 | 2,846.9 | 5,843.4 | 5,681.4 | 8,528.3 | 11,524.8 |
| 1992 Sept. qtr | 721.3 | 611.4 | 1,332.7 | 1,196.8 | 1,808.2 | 2,529.5 |
| Dec. qtr | 782.7 | 632.8 | 1,415.5 | 1,363.8 | 1,996.6 | 2,779.3 |
| 1993 Mar. qtr | 713.7 | 719.5 | 1,433.3 | 1,269.5 | 1,989.0 | 2,702.8 |
| June qtr | 778.8 | 883.1 | 1,662.0 | 1,851.3 | 2,734.5 | 3,513.3 |
| Sept. qtr | 853.2 | 842.3 | 1,695.5 | 1,168.5 | 2,010.9 | 2,864.0 |
| Dec. qtr | 938.9 | 759.0 | 1,697.9 | 1,303.7 | 2,062.7 | 3,001.5 |
| SEASONALLY ADJUSTED | | | | | | |
| 1992 Sept. qtr | 703.7 | 608.0 | 1,311.8 | 1,265.6 | 1,873.6 | 2,577.4 |
| Dec. qtr | 729.4 | 617.6 | 1,347.0 | 1,391.0 | 2,008.6 | 2,738.0 |
| 1993 Mar. qtr | 754.3 | 737.6 | 1,491.9 | 1,380.5 | 2,118.1 | 2,872.4 |
| June qtr | 815.2 | 880.6 | 1,695.8 | 1,602.0 | 2,482.6 | 3,297.8 |
| Sept. qtr | 832.2 | 842.7 | 1,674.9 | 1,237.1 | 2,079.8 | 2,912.0 |
| Dec. qtr | 875.1 | 742.0 | 1,617.1 | 1,330.4 | 2,072.5 | 2,947.5 |

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

**TABLE 2. ENGINEERING CONSTRUCTION ACTIVITY, VALUE OF WORK DONE AT AVERAGE 1989-90 PRICES (a), AUSTRALIA
ORIGINAL AND SEASONALLY ADJUSTED SERIES
(\$ million)**

| <i>Period</i> | <i>By the private sector</i> | | | <i>By the public sector</i> | <i>Total for the public sector (b)</i> | <i>Total</i> |
|----------------------------|-------------------------------|------------------------------|--------------|-----------------------------|--|--------------|
| | <i>For the private sector</i> | <i>For the public sector</i> | <i>Total</i> | | | |
| ORIGINAL | | | | | | |
| 1990-91 | 2,985.5 | 2,436.9 | 5,422.3 | 5,713.9 | 8,150.8 | 11,136.2 |
| 1991-92 | 2,923.4 | 2,502.5 | 5,425.9 | 4,902.4 | 7,404.9 | 10,328.3 |
| 1992-93 | 2,751.1 | 2,620.3 | 5,371.4 | 5,279.9 | 7,900.2 | 10,651.3 |
| 1992 Sept. qtr | 661.1 | 567.1 | 1,228.1 | 1,118.4 | 1,685.5 | 2,346.5 |
| Dec. qtr | 717.8 | 584.3 | 1,302.1 | 1,271.5 | 1,855.8 | 2,573.6 |
| 1993 Mar. qtr | 655.0 | 661.3 | 1,316.3 | 1,178.9 | 1,840.2 | 2,495.2 |
| June qtr | 717.2 | 807.6 | 1,524.9 | 1,711.1 | 2,518.7 | 3,236.0 |
| Sept. qtr | 787.0 | 774.5 | 1,561.5 | 1,084.8 | 1,859.3 | 2,646.3 |
| Dec. qtr | 870.1 | 701.0 | 1,571.1 | 1,210.7 | 1,911.7 | 2,781.8 |
| SEASONALLY ADJUSTED | | | | | | |
| 1992 Sept. qtr | 645.0 | 563.5 | 1,208.5 | 1,182.7 | 1,746.2 | 2,391.2 |
| Dec. qtr | 669.0 | 569.9 | 1,238.9 | 1,296.8 | 1,866.7 | 2,535.7 |
| 1993 Mar. qtr | 692.3 | 678.3 | 1,370.6 | 1,282.0 | 1,960.3 | 2,652.6 |
| June qtr | 750.7 | 806.2 | 1,556.9 | 1,480.7 | 2,286.9 | 3,037.6 |
| Sept. qtr | 767.7 | 773.9 | 1,541.6 | 1,148.5 | 1,922.4 | 2,690.1 |
| Dec. qtr | 811.0 | 684.7 | 1,495.7 | 1,235.5 | 1,920.2 | 2,731.2 |

(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

| Period | Roads, highways and subdivisions | | Bridges | | Railways | | Harbours | | Water storage and supply | | Sewage and drainage | | Electricity generation, transmission and distribution | | Pipelines | | Recreation | | Telecommu- nications | | Heavy industry | | Other | | Total |
|------------------------|---|-------|---------|-------|----------|-------|----------|-------|-----------------------------------|-------|---------------------------|------|---|--|-----------|--|------------|--|-------------------------|--|-------------------|--|-------|--|-------|
| | | | | | | | | | | | | | | | | | | | | | | | | | |
| FOR THE PRIVATE SECTOR | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1990-91 | 930.9 | 12.8 | 33.4 | 30.2 | 99.5 | 90.5 | 115.1 | 65.0 | 312.5 | 7.3 | 1,580.1 | 23.1 | 3,300.3 | | | | | | | | | | | | |
| 1991-92 | 818.7 | 8.1 | 14.9 | 59.0 | 55.8 | 51.4 | 56.7 | 93.8 | 189.1 | 19.6 | 983.7 | 28.1 | 2,378.9 | | | | | | | | | | | | |
| 1992-93 | 1,019.3 | 4.8 | 16.5 | 26.6 | 124.6 | 107.8 | 121.5 | 190.4 | 249.2 | 109.0 | 1,036.4 | 23.3 | 2,989.4 | | | | | | | | | | | | |
| 1992 Sept. qtr | 228.2 | 0.2 | 1.2 | 0.7 | 18.5 | 23.5 | 18.6 | 80.9 | 52.4 | 2.8 | 219.5 | 13.2 | 659.6 | | | | | | | | | | | | |
| Dec. qtr | 233.7 | 0.1 | 2.6 | 6.7 | 19.1 | 57.5 | 31.3 | 29.2 | 62.8 | 1.3 | 276.0 | 1.8 | 722.2 | | | | | | | | | | | | |
| 1993 Mar. qtr | 236.1 | — | 4.7 | 7.5 | 65.6 | 12.7 | 18.4 | 23.0 | 50.0 | 67.0 | 215.9 | 5.1 | 706.2 | | | | | | | | | | | | |
| June qtr | 321.3 | 4.5 | 7.9 | 11.6 | 21.4 | 14.1 | 53.3 | 57.3 | 44.0 | 37.9 | 324.9 | 3.2 | 901.5 | | | | | | | | | | | | |
| Sept. qtr | 246.2 | -- | 19.4 | 6.5 | 112.3 | 19.2 | 39.4 | 35.7 | 63.0 | 3.3 | 349.5 | 1.9 | 896.3 | | | | | | | | | | | | |
| Dec. qtr | 261.6 | 5.0 | 7.1 | 1.7 | 26.1 | 17.1 | 37.7 | 30.4 | 70.9 | 12.1 | 372.0 | 0.3 | 842.1 | | | | | | | | | | | | |
| FOR THE PUBLIC SECTOR | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1990-91 | 973.0 | 149.1 | 64.2 | 46.6 | 282.9 | 190.8 | 344.4 | 35.7 | 110.0 | 15.1 | 173.6 | 1.8 | 2,387.3 | | | | | | | | | | | | |
| 1991-92 | 868.6 | 167.3 | 109.0 | 109.8 | 242.5 | 173.1 | 479.9 | 7.0 | 42.4 | 13.9 | 89.7 | 5.6 | 2,308.9 | | | | | | | | | | | | |
| 1992-93 | 1,513.2 | 126.1 | 67.6 | 48.3 | 163.0 | 271.7 | 253.5 | 25.4 | 68.7 | 49.6 | 35.5 | 8.6 | 2,631.2 | | | | | | | | | | | | |
| 1992 Sept. qtr | 329.7 | 6.4 | 18.4 | 5.7 | 32.2 | 124.0 | 103.5 | 3.4 | 10.6 | 1.2 | 6.2 | 1.2 | 642.6 | | | | | | | | | | | | |
| Dec. qtr | 342.7 | 32.1 | 17.2 | 7.7 | 81.8 | 46.3 | 32.7 | 8.0 | 14.6 | 4.3 | 3.4 | 2.7 | 593.3 | | | | | | | | | | | | |
| 1993 Mar. qtr | 474.8 | 60.9 | 14.4 | 19.8 | 22.9 | 38.5 | 62.0 | 11.6 | 29.5 | 40.1 | 13.3 | 2.8 | 790.6 | | | | | | | | | | | | |
| June qtr | 365.9 | 26.6 | 17.7 | 15.1 | 26.1 | 62.9 | 55.3 | 2.3 | 14.1 | 4.0 | 12.6 | 2.0 | 604.6 | | | | | | | | | | | | |
| Sept. qtr | 218.8 | 51.0 | 42.1 | 36.7 | 34.4 | 113.1 | 83.0 | 1.8 | 13.9 | 5.3 | 12.5 | 0.8 | 613.2 | | | | | | | | | | | | |
| Dec. qtr | 268.6 | 41.6 | 98.2 | 28.0 | 18.9 | 58.2 | 94.4 | 1.8 | 9.6 | 4.0 | 12.2 | 0.1 | 635.3 | | | | | | | | | | | | |
| TOTAL | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1990-91 | 1,903.8 | 161.8 | 97.7 | 76.8 | 382.4 | 281.4 | 459.5 | 100.6 | 422.4 | 22.4 | 1,753.7 | 24.9 | 5,687.6 | | | | | | | | | | | | |
| 1991-92 | 1,687.4 | 175.4 | 123.9 | 168.8 | 298.3 | 224.6 | 536.5 | 100.8 | 231.5 | 33.5 | 1,073.4 | 33.7 | 4,687.9 | | | | | | | | | | | | |
| 1992-93 | 2,532.5 | 130.9 | 84.1 | 74.9 | 287.7 | 379.5 | 375.0 | 215.8 | 278.0 | 158.6 | 1,071.8 | 31.9 | 5,620.5 | | | | | | | | | | | | |
| 1992 Sept. qtr | 557.9 | 6.6 | 19.5 | 6.4 | 50.7 | 147.5 | 122.1 | 84.3 | 63.0 | 4.0 | 225.7 | 14.4 | 1,302.2 | | | | | | | | | | | | |
| Dec. qtr | 576.4 | 32.2 | 19.8 | 14.3 | 100.9 | 103.8 | 63.9 | 37.2 | 77.4 | 5.6 | 279.4 | 4.5 | 1,315.5 | | | | | | | | | | | | |
| 1993 Mar. qtr | 711.0 | 60.9 | 19.1 | 27.3 | 88.5 | 51.2 | 80.5 | 34.6 | 79.5 | 107.0 | 229.2 | 7.9 | 1,496.8 | | | | | | | | | | | | |
| June qtr | 687.2 | 31.1 | 25.6 | 26.8 | 47.5 | 77.0 | 108.5 | 59.7 | 58.1 | 41.9 | 337.5 | 5.2 | 1,506.1 | | | | | | | | | | | | |
| Sept. qtr | 464.9 | 51.0 | 61.4 | 43.2 | 146.7 | 132.3 | 122.3 | 37.5 | 76.9 | 8.5 | 362.0 | 2.7 | 1,509.6 | | | | | | | | | | | | |
| Dec. qtr | 530.2 | 46.7 | 105.3 | 29.7 | 45.0 | 75.3 | 131.8 | 32.2 | 80.5 | 16.1 | 384.1 | 0.4 | 1,477.4 | | | | | | | | | | | | |

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 | FOR THE PRIVATE SECTOR | | | | | | FOR THE PUBLIC SECTOR | | | | | | Total | |
|----------------|---|---------|----------|----------|-----------------------------------|-----------------------------|-----------------------|------------|--------------------|-------------------|---------|----------|------------------------|---------|
| | Roads, highways and subdivisions | Bridges | Railways | Harbours | Water storage and supply | Sewerage and drainage | Pipelines | Recreation | Telecommunications | Heavy industry | Other | Original | Seasonally adjusted | |
| 1990-91 | 1,024.1 | 11.0 | 17.7 | 49.0 | 100.2 | 93.8 | 68.3 | 321.2 | 8.8 | 1,335.4 | 26.4 | 3,150.4 | .. | |
| 1991-92 | 1,036.2 | 12.0 | 33.3 | 36.1 | 59.8 | 56.6 | 99.9 | 183.4 | 6.9 | 1,517.5 | 31.4 | 3,168.2 | .. | |
| 1992-93 | 982.9 | 3.0 | 12.6 | 32.9 | 82.4 | 74.7 | 79.5 | 188.5 | 220.7 | 69.6 | 1,232.4 | 17.3 | 2,996.5 | .. |
| 1992 Sept. qtr | 240.9 | 1.3 | 2.7 | 6.2 | 14.4 | 16.0 | 21.1 | 37.4 | 50.3 | 3.2 | 324.0 | 3.8 | 721.3 | 703.7 |
| Dec. qtr | 238.2 | 0.8 | 1.3 | 7.8 | 16.4 | 21.1 | 18.0 | 44.1 | 70.7 | 8.5 | 352.1 | 3.8 | 782.7 | 729.4 |
| 1993 Mar. qtr | 237.3 | — | 1.4 | 8.8 | 24.2 | 20.7 | 16.4 | 44.3 | 52.5 | 22.8 | 279.7 | 5.5 | 713.7 | 754.3 |
| June qtr | 266.5 | 0.8 | 7.2 | 10.1 | 27.5 | 17.0 | 24.0 | 62.7 | 47.2 | 35.1 | 276.7 | 4.2 | 778.8 | 815.2 |
| Sept. qtr | 267.0 | 1.6 | 11.6 | 12.7 | 25.0 | 23.8 | 28.2 | 37.4 | 60.2 | 32.4 | 350.2 | 3.1 | 853.2 | 832.2 |
| Dec. qtr | 282.9 | 3.1 | 11.7 | 14.3 | 32.0 | 35.0 | 37.4 | 57.3 | 64.4 | 19.8 | 380.5 | 0.4 | 938.9 | 875.1 |
| 1990-91 | 951.0 | 138.9 | 85.4 | 60.5 | 204.1 | 226.2 | 617.1 | 42.3 | 79.7 | 20.7 | 116.6 | 14.1 | 2,556.7 | .. |
| 1991-92 | 959.7 | 163.0 | 95.4 | 39.6 | 286.7 | 169.0 | 707.6 | 8.4 | 90.6 | 30.9 | 132.9 | 8.5 | 2,692.4 | .. |
| 1992-93 | 1,232.9 | 103.1 | 107.1 | 95.6 | 233.5 | 219.2 | 595.1 | 23.3 | 65.8 | 22.9 | 88.0 | 10.4 | 2,846.9 | .. |
| 1992 Sept. qtr | 224.3 | 22.2 | 31.0 | 14.8 | 56.5 | 53.0 | 160.7 | 3.5 | 17.2 | 3.1 | 24.2 | 0.9 | 611.4 | 608.0 |
| Dec. qtr | 238.1 | 16.6 | 26.4 | 19.4 | 58.4 | 52.8 | 153.6 | 4.5 | 11.1 | 3.1 | 16.6 | 2.3 | 632.8 | 617.6 |
| 1993 Mar. qtr | 334.1 | 28.3 | 23.1 | 31.5 | 51.0 | 48.1 | 146.9 | 7.3 | 17.8 | 7.0 | 22.2 | 2.2 | 719.5 | 737.6 |
| June qtr | 436.5 | 36.1 | 26.6 | 29.9 | 67.6 | 65.3 | 133.9 | 8.0 | 19.8 | 9.7 | 25.0 | 4.9 | 883.1 | 880.6 |
| Sept. qtr | 368.2 | 48.3 | 21.3 | 26.9 | 42.2 | 59.9 | 222.4 | 4.6 | 19.3 | 9.0 | 18.3 | 1.9 | 842.3 | 842.7 |
| Dec. qtr | 336.2 | 44.0 | 40.4 | 22.9 | 55.7 | 61.2 | 156.5 | 2.4 | 15.0 | 5.7 | 18.8 | 0.1 | 759.0 | 742.0 |
| TOTAL | | | | | | | | | | | | | | |
| 1990-91 | 1,975.1 | 149.9 | 103.1 | 109.5 | 304.4 | 320.0 | 711.6 | 110.5 | 401.0 | 29.5 | 1,452.0 | 40.4 | 5,707.1 | .. |
| 1991-92 | 1,997.9 | 175.0 | 128.8 | 69.7 | 346.5 | 225.6 | 807.5 | 107.7 | 273.9 | 37.7 | 1,650.4 | 39.9 | 5,860.6 | .. |
| 1992-93 | 2,265.8 | 106.1 | 119.7 | 128.5 | 315.9 | 294.0 | 674.6 | 211.8 | 286.5 | 92.4 | 1,320.4 | 27.7 | 5,843.4 | .. |
| 1992 Sept. qtr | 465.2 | 23.5 | 33.7 | 21.1 | 70.9 | 69.0 | 181.8 | 40.9 | 67.4 | 6.3 | 348.2 | 4.7 | 1,332.7 | 1,311.8 |
| Dec. qtr | 506.3 | 17.4 | 27.7 | 27.2 | 74.8 | 73.9 | 171.6 | 48.6 | 81.7 | 11.5 | 368.6 | 6.1 | 1,415.5 | 1,347.0 |
| 1993 Mar. qtr | 571.4 | 28.3 | 24.5 | 40.3 | 75.2 | 68.8 | 163.3 | 51.7 | 70.4 | 29.8 | 301.9 | 7.7 | 1,433.3 | 1,491.9 |
| June qtr | 723.0 | 36.9 | 33.8 | 39.9 | 95.0 | 82.2 | 157.9 | 70.7 | 67.0 | 44.8 | 301.6 | 9.1 | 1,662.0 | 1,695.8 |
| Sept. qtr | 635.2 | 49.9 | 32.9 | 39.6 | 67.1 | 83.7 | 250.6 | 42.0 | 79.5 | 41.5 | 368.5 | 5.0 | 1,695.5 | 1,674.9 |
| Dec. qtr | 619.1 | 47.1 | 52.1 | 37.1 | 87.8 | 96.2 | 193.9 | 59.7 | 79.4 | 25.5 | 399.3 | 0.5 | 1,697.9 | 1,671.1 |

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

| Period | FOR THE PRIVATE SECTOR | | | | | FOR THE PUBLIC SECTOR | | | | | TOTAL | | | | |
|---------------|---|---------|----------|----------|-----------------------------------|-----------------------------|-----------|------------|-------------------------|-------------------|---------|---------|---------|--|--|
| | Roads, highways and subdivisions | Bridges | Railways | Harbours | Water storage and supply | Sewerage and drainage | Pipelines | Recreation | Telecommu- nications | Heavy industry | Other | Total | | | |
| 1990-91 | 347.7 | 7.2 | 20.5 | 6.6 | 11.5 | 61.1 | 12.9 | 27.6 | 2.3 | 926.2 | 5.9 | 1,436.0 | | | |
| 1991-92 | 187.7 | 1.9 | 1.8 | 35.4 | 1.6 | 6.5 | 16.5 | 49.3 | 22.4 | 142 | 456.9 | 1.2 | 795.4 | | |
| 1992-93 | 236.6 | 3.7 | 5.1 | 27.8 | 43.8 | 38.9 | 61.3 | 60.0 | 11.6 | 55.7 | 453.5 | 2.6 | 1,005.5 | | |
| 1992 Sept. qr | 176.7 | 0.7 | 0.3 | 29.8 | 5.7 | 14.4 | 15.3 | 100.3 | 25.6 | 14.8 | 386.1 | 9.9 | 779.6 | | |
| Dec. qr | 176.7 | — | 1.5 | 28.8 | 8.4 | 50.1 | 29.1 | 82.5 | 19.4 | 7.0 | 365.9 | 3.9 | 773.4 | | |
| 1993 Mar. qr | 175.2 | — | 4.7 | 27.6 | 49.5 | 41.8 | 30.1 | 60.1 | 16.3 | 53.1 | 385.1 | 3.9 | 847.4 | | |
| June qr | 236.6 | 3.7 | 5.1 | 27.8 | 43.8 | 38.9 | 61.3 | 60.0 | 11.6 | 55.7 | 458.5 | 2.6 | 1,005.5 | | |
| Sept. qr | 246.5 | 2.7 | 13.6 | 21.5 | 125.1 | 35.9 | 92.5 | 60.1 | 11.1 | 27.3 | 590.5 | 1.5 | 1,226.5 | | |
| Dec. qr | 234.7 | 3.3 | 11.6 | 12.9 | 115.4 | 17.6 | 101.4 | 31.3 | 15.1 | 19.5 | 635.3 | 0.3 | 1,198.3 | | |
| | | | | | | | | | | | | | | | |
| 1990-91 | 305.4 | 77.4 | 52.4 | 13.3 | 192.6 | 66.9 | 730.7 | 1.3 | 43.3 | 26.4 | 109.0 | 2.7 | 1,622.4 | | |
| 1991-92 | 252.6 | 91.8 | 68.5 | 82.6 | 172.7 | 75.0 | 638.6 | 0.1 | 103 | 8.6 | 71.7 | 0.3 | 1,472.9 | | |
| 1992-93 | 502.4 | 111.6 | 34.0 | 42.9 | 119.3 | 162. | 464.2 | 2.4 | 17.5 | 33.9 | 56.4 | 1.4 | 1,548.0 | | |
| 1992 Sept. qr | 364.7 | 76.8 | 54.0 | 75.5 | 161.6 | 156.7 | 627.6 | 0.5 | 6.8 | 6.9 | 63.6 | 0.6 | 1,595.0 | | |
| Dec. qr | 445.5 | 92.3 | 44.9 | 65.8 | 184.9 | 159.4 | 532.5 | 3.9 | 9.3 | 8.7 | 45.3 | 1.2 | 1,593.7 | | |
| 1993 Mar. qr | 587.8 | 126.7 | 40.5 | 55.4 | 157.7 | 148.4 | 533.6 | 8.1 | 24.5 | 37.9 | 68.1 | 1.8 | 1,790.4 | | |
| June qr | 502.4 | 111.6 | 34.0 | 42.9 | 119.3 | 162. | 464.2 | 2.4 | 17.5 | 33.9 | 56.4 | 1.4 | 1,548.0 | | |
| Sept. qr | 367.3 | 111.3 | 54.1 | 51.7 | 119.2 | 194.9 | 378.0 | — | 18.6 | 29.4 | 26.8 | 0.2 | 1,351.5 | | |
| Dec. qr | 308.8 | 99.5 | 106.7 | 51.9 | 95.3 | 192.0 | 333.7 | 0.1 | 11.1 | 27.6 | 19.8 | — | 1,246.4 | | |
| | | | | | | | | | | | | | | | |
| 1990-91 | 653.1 | 84.6 | 72.9 | 19.9 | 200.2 | 78.4 | 791.8 | 14.2 | 70.9 | 28.7 | 1,035.2 | 8.6 | 3,058.4 | | |
| 1991-92 | 440.3 | 93.7 | 70.3 | 118.0 | 174.3 | 81.4 | 655.1 | 49.4 | 32.7 | 22.8 | 528.6 | 1.5 | 2,268.3 | | |
| 1992-93 | 738.9 | 115.3 | 39.1 | 70.7 | 163.1 | 200.9 | 525.5 | 62.3 | 29.1 | 89.6 | 514.9 | 4.0 | 2,553.5 | | |
| 1992 Sept. qr | 541.4 | 77.5 | 54.2 | 105.3 | 167.3 | 171.1 | 642.9 | 100.8 | 32.4 | 21.6 | 449.7 | 10.5 | 2,374.7 | | |
| Dec. qr | 622.2 | 92.3 | 46.5 | 94.6 | 191.3 | 209.4 | 561.6 | 86.5 | 28.7 | 15.7 | 411.2 | 5.2 | 2,367.2 | | |
| 1993 Mar. qr | 763.0 | 126.7 | 45.2 | 83.0 | 207.2 | 190.2 | 563.6 | 68.2 | 40.8 | 91.0 | 453.2 | 5.7 | 2,637.8 | | |
| June qr | 738.9 | 115.3 | 39.1 | 70.7 | 163.1 | 200.9 | 525.5 | 62.3 | 29.1 | 89.6 | 514.9 | 4.0 | 2,553.5 | | |
| Sept. qr | 613.8 | 114.0 | 67.7 | 73.3 | 244.3 | 228.8 | 470.6 | 60.2 | 29.7 | 56.8 | 617.3 | 1.7 | 2,578.0 | | |
| Dec. qr | 543.5 | 102.8 | 118.3 | 64.8 | 210.6 | 289.6 | 435.1 | 31.3 | 26.2 | 47.0 | 655.2 | 0.3 | 2,444.8 | | |

TABLE 6. ENGINEERING CONSTRUCTION ACTIVITY BY THE PUBLIC SECTOR, BY TYPE OF CONSTRUCTION
AUSTRALIA

| Period | Roads, highways and subdivisions | Bridges | Railways | Harbours | Water storage and supply | Sewerage and drainage | Transmission and distribution | Pipelines | Recreation | Telecommu-nications | Telecommunications | Heavy industry | | |
|---------------------------------------|---|---------|----------|----------|-----------------------------------|-----------------------------|-------------------------------------|-----------|------------|---------------------|--------------------|--|----------------------------|---------|
| | | | | | | | | | | | | Oil, gas, coal and other minerals | Other heavy industry | Other |
| VALUE OF WORK COMMENCED DURING PERIOD | | | | | | | | | | | | | | |
| 1990-91 | 1,360.7 | 87.0 | 286.5 | 15.5 | 396.8 | 357.8 | 816.0 | 54.7 | 93.0 | 2,240.6 | 6.4 | — | 16.8 | 5,731.8 |
| 1991-92 | 1,248.8 | 80.6 | 360.3 | 11.2 | 289.8 | 966.4 | 44.3 | 61.5 | 1,790.4 | 24.2 | — | — | 12.8 | 5,180.1 |
| 1992-93 | 1,710.7 | 117.8 | 474.4 | 18.2 | 317.5 | 386.2 | 865.0 | 32.2 | 106.2 | 1,778.9 | 0.2 | — | 14.9 | 5,822.1 |
| 1992 Sept. qtr | 672.8 | 56.9 | 350.6 | 2.7 | 96.7 | 109.1 | 300.7 | 7.5 | 26.6 | 474.5 | — | — | 4.0 | 2,102.0 |
| Dec. qtr | 304.4 | 23.0 | 34.1 | 6.7 | 82.4 | 89.7 | 187.9 | 11.8 | 26.3 | 422.7 | 0.1 | — | 2.5 | 1,191.6 |
| 1993 Mar. qtr | 407.9 | 17.3 | 38.5 | 4.0 | 58.6 | 86.3 | 170.2 | 6.8 | 31.3 | 388.8 | — | — | 4.4 | 1,214.1 |
| June qtr | 325.6 | 20.5 | 51.2 | 4.9 | 79.8 | 101.1 | 296.3 | 6.1 | 22.0 | 492.8 | 0.1 | — | 4.0 | 1,314.4 |
| Sept. qtr | 713.2 | 60.7 | 365.9 | 2.9 | 82.5 | 114.5 | 196.4 | 3.9 | 37.2 | 401.1 | 6.8 | — | 2.4 | 1,987.6 |
| Dec. qtr | 310.2 | 31.5 | 12.8 | 4.3 | 48.3 | 72.2 | 130.1 | 12.3 | 20.1 | 391.1 | 5.3 | — | 2.5 | 1,040.7 |
| VALUE OF WORK DONE DURING PERIOD | | | | | | | | | | | | | | |
| 1990-91 | 1,429.3 | 90.6 | 321.3 | 38.5 | 459.4 | 356.6 | 843.7 | 62.3 | 78.8 | 2,264.5 | 6.5 | — | 16.2 | 5,967.8 |
| 1991-92 | 1,292.9 | 82.1 | 347.9 | 17.0 | 408.7 | 372.6 | 789.5 | 44.3 | 64.9 | 1,770.7 | 23.8 | — | 15.9 | 5,230.4 |
| 1992-93 | 1,623.3 | 118.3 | 410.0 | 19.2 | 388.2 | 360.0 | 847.4 | 31.8 | 81.7 | 1,771.4 | 17.0 | — | 13.1 | 5,681.4 |
| 1992 Sept. qtr | 298.2 | 17.2 | 65.0 | 4.5 | 78.7 | 64.1 | 190.2 | 7.1 | 17.7 | 449.0 | 2.0 | — | 3.0 | 1,196.8 |
| Dec. qtr | 348.9 | 26.5 | 84.9 | 5.7 | 107.7 | 111.8 | 215.1 | 11.8 | 19.0 | 426.2 | 3.1 | — | 3.0 | 1,363.8 |
| 1993 Mar. qtr | 367.3 | 26.4 | 80.2 | 5.7 | 81.4 | 87.3 | 195.1 | 6.8 | 19.6 | 391.5 | 4.6 | — | 3.5 | 1,269.5 |
| June qtr | 608.9 | 48.2 | 179.9 | 3.3 | 120.4 | 96.8 | 246.9 | 6.0 | 25.3 | 594.7 | 7.3 | — | 3.6 | 1,851.3 |
| Sept. qtr | 348.6 | 19.7 | 81.9 | 7.3 | 69.6 | 65.2 | 168.3 | 3.9 | 32.4 | 361.4 | 7.4 | — | 2.8 | 1,168.5 |
| Dec. qtr | 420.2 | 27.6 | 104.9 | 7.9 | 64.7 | 72.9 | 172.6 | 5.6 | 23.8 | 395.8 | 5.1 | — | 2.7 | 1,303.7 |
| VALUE OF WORK YET TO BE DONE | | | | | | | | | | | | | | |
| 1990-91 | 308.6 | 19.8 | 73.9 | 9.9 | 400.1 | 359.8 | 220.7 | 1.2 | 24.7 | 38.5 | 0.1 | — | 3.1 | 1,460.5 |
| 1991-92 | 291.1 | 20.5 | 80.8 | 5.0 | 375.8 | 357.1 | 362.1 | 1.1 | 17.1 | 34.7 | 0.5 | — | 2.4 | 1,548.2 |
| 1992-93 | 308.4 | 22.4 | 123.7 | 4.6 | 236.1 | 310.7 | 419.9 | 0.1 | 36.4 | 22.1 | 7.9 | — | 3.2 | 1,495.4 |
| 1992 Sept. qtr | 674.0 | 54.1 | 344.5 | 3.6 | 385.6 | 385.4 | 516.0 | 0.4 | 24.3 | 40.9 | 21.0 | — | 2.8 | 2,452.7 |
| Dec. qtr | 589.1 | 50.1 | 294.0 | 5.0 | 298.8 | 373.3 | 492.2 | — | 32.0 | 37.5 | 15.0 | — | 2.1 | 2,189.1 |
| 1993 Mar. qtr | 645.8 | 38.9 | 249.0 | 3.0 | 280.6 | 364.9 | 473.9 | — | 42.1 | 34.7 | 15.0 | — | 2.8 | 2,150.7 |
| June qtr | 308.4 | 22.4 | 123.7 | 4.6 | 236.1 | 310.7 | 419.9 | 0.1 | 36.4 | 22.1 | 7.9 | — | 3.2 | 1,495.4 |
| Sept. qtr | 663.6 | 58.4 | 397.3 | 7.1 | 217.2 | 307.5 | 422.7 | — | 34.0 | 53.2 | 15.0 | — | 0.7 | 2,176.8 |
| Dec. qtr | 571.3 | 57.5 | 304.2 | 4.2 | 187.2 | 299.8 | 379.7 | 6.8 | 27.6 | 49.1 | 15.3 | — | 0.6 | 1,903.3 |

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

TABLE 8. ENGINEERING CONSTRUCTION ACTIVITY BY STAGE OF CONSTRUCTION

| Period | N.S.W. | Vic. | Qld | S.A. | W.A. | Tas. | N.T. | ACT | Australia |
|---------------------------------------|---------|---------|---------|-------|---------|-------|-------|-------|-----------|
| VALUE OF WORK COMMENCED DURING PERIOD | | | | | | | | | |
| (\$ million) | | | | | | | | | |
| 1990-91 | 3,859.8 | 2,148.6 | 2,351.4 | 853.5 | 1,644.6 | 265.0 | 154.0 | 142.5 | 11,419.4 |
| 1991-92 | 3,409.5 | 1,861.4 | 2,032.3 | 673.5 | 1,280.2 | 259.2 | 162.2 | 189.7 | 9,867.9 |
| 1992-93 | 4,115.2 | 2,234.2 | 2,372.3 | 733.8 | 1,441.6 | 239.8 | 132.9 | 172.9 | 11,442.7 |
| 1992 Sept. qtr | 1,586.2 | 538.8 | 689.8 | 160.5 | 305.8 | 49.2 | 23.4 | 50.7 | 3,404.2 |
| Dec. qtr | 774.4 | 509.9 | 511.8 | 178.6 | 395.8 | 58.4 | 38.9 | 39.1 | 2,507.1 |
| 1993 Mar. qtr | 878.0 | 542.6 | 612.0 | 207.2 | 299.4 | 79.7 | 37.5 | 54.4 | 2,710.9 |
| June qtr | 876.5 | 643.0 | 558.7 | 187.4 | 440.6 | 52.5 | 33.0 | 28.8 | 2,820.5 |
| Sept. qtr | 1,571.3 | 489.1 | 792.5 | 132.0 | 353.1 | 57.0 | 63.2 | 38.8 | 3,497.1 |
| Dec. qtr | 819.2 | 456.9 | 604.7 | 176.8 | 307.3 | 35.3 | 71.5 | 46.5 | 2,518.1 |
| VALUE OF WORK DONE DURING PERIOD | | | | | | | | | |
| 1990-91 | 4,126.4 | 2,314.0 | 2,372.4 | 854.6 | 1,421.5 | 289.8 | 158.5 | 137.7 | 11,674.9 |
| 1991-92 | 4,015.3 | 1,915.7 | 2,283.5 | 763.7 | 1,506.1 | 302.6 | 136.9 | 167.2 | 11,091.0 |
| 1992-93 | 4,015.9 | 2,098.2 | 2,497.2 | 734.9 | 1,541.5 | 311.1 | 138.0 | 188.1 | 11,534.8 |
| 1992 Sept. qtr | 887.1 | 418.6 | 619.8 | 131.4 | 336.4 | 60.2 | 30.2 | 45.8 | 2,599.5 |
| Dec. qtr | 973.0 | 500.3 | 629.8 | 142.8 | 370.3 | 83.7 | 30.3 | 49.0 | 2,779.3 |
| 1993 Mar. qtr | 896.5 | 534.8 | 541.8 | 197.2 | 374.8 | 82.8 | 27.6 | 47.2 | 2,702.8 |
| June qtr | 1,259.4 | 644.5 | 705.8 | 263.4 | 459.9 | 84.4 | 49.8 | 46.1 | 3,513.3 |
| Sept. qtr | 895.9 | 493.9 | 729.4 | 167.0 | 426.2 | 57.3 | 50.9 | 43.5 | 2,864.0 |
| Dec. qtr | 974.9 | 505.2 | 717.7 | 184.3 | 457.0 | 60.4 | 60.1 | 41.9 | 3,001.5 |
| VALUE OF WORK YET TO BE DONE | | | | | | | | | |
| 1990-91 | 1,443.4 | 676.8 | 1,231.5 | 216.4 | 652.1 | 225.7 | 29.8 | 43.3 | 4,518.9 |
| 1991-92 | 1,256.6 | 641.6 | 1,040.6 | 128.7 | 449.3 | 188.5 | 52.8 | 58.3 | 3,816.4 |
| 1992-93 | 1,283.5 | 916.6 | 964.2 | 198.2 | 481.9 | 120.0 | 47.7 | 37.0 | 4,048.9 |
| 1992 Sept. qtr | 1,967.4 | 863.4 | 1,131.8 | 166.9 | 422.2 | 178.0 | 34.9 | 62.8 | 4,827.4 |
| Dec. qtr | 1,736.2 | 863.8 | 990.1 | 205.4 | 502.8 | 159.6 | 44.8 | 53.6 | 4,556.3 |
| 1993 Mar. qtr | 1,819.4 | 908.8 | 1,087.9 | 223.4 | 482.6 | 155.5 | 50.9 | 59.9 | 4,788.5 |
| June qtr | 1,283.5 | 916.6 | 964.2 | 198.2 | 481.9 | 120.0 | 47.7 | 37.0 | 4,048.9 |
| Sept. qtr | 1,845.6 | 926.4 | 1,062.8 | 166.2 | 545.8 | 112.4 | 59.5 | 35.9 | 4,754.8 |
| Dec. qtr | 1,677.6 | 878.4 | 991.6 | 174.8 | 434.9 | 80.6 | 70.4 | 39.7 | 4,348.1 |

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 activities | Telecommu- nications | Oil, gas, coal and other minerals | Other heavy industry | Other | Total |
|-------------------------------|---|---------|----------|----------|-----------------------------------|-----------------------------|---|-----------|--------------------------|-------------------------|--|----------------------------|-------|----------------|
| | | | | | | | | | | | | | | Heavy industry |
| BY THE PRIVATE SECTOR | | | | | | | | | | | | | | |
| September qtr 1993 - r | | | | | | | | | | | | | | |
| NSW | 134.4 | 20.5 | 9.2 | 4.2 | 117.4 | 105.0 | 26.3 | 25.9 | 23.9 | 6.4 | 46.6 | 25.8 | 0.7 | 546.2 |
| Vic. | 59.1 | 0.3 | 9.2 | 0.2 | 14.1 | 6.9 | 35.6 | 0.9 | 17.2 | 0.2 | 60.3 | 11.3 | 0.6 | 215.9 |
| Qld | 123.0 | 25.3 | 24.6 | 38.4 | 6.4 | 15.3 | 23.6 | 7.9 | 26.9 | 0.7 | 61.3 | 27.1 | 0.6 | 381.0 |
| SA | 26.7 | - | 0.3 | 0.1 | 1.2 | 0.3 | 1.2 | 2.1 | 3.1 | 0.5 | 8.6 | 3.7 | 0.7 | 48.6 |
| WA | 66.2 | 2.1 | 18.1 | - | 3.0 | 0.7 | 32.0 | 0.2 | 2.0 | - | 93.0 | 8.8 | 0.1 | 226.3 |
| Tas. | 9.0 | - | 0.3 | - | 2.8 | 3.0 | - | - | 1.0 | - | 1.4 | 0.6 | - | 18.1 |
| NT | 32.8 | 2.8 | - | - | 1.8 | 0.6 | 2.5 | - | 0.8 | - | 13.5 | - | - | 54.7 |
| ACT | 13.8 | - | - | - | - | - | 0.4 | 1.2 | 0.5 | 2.1 | 0.8 | - | - | 18.7 |
| Australia | 464.9 | 51.0 | 61.4 | 43.2 | 146.7 | 132.3 | 122.3 | 37.5 | 76.9 | 8.5 | 284.6 | 77.4 | 2.7 | 1,509.6 |
| December qtr 1993 - r | | | | | | | | | | | | | | |
| NSW | 155.4 | 16.1 | 19.7 | 2.1 | 17.1 | 45.7 | 66.8 | 13.0 | 23.3 | 0.8 | 162.5 | 19.5 | 0.1 | 542.0 |
| Vic. | 75.3 | 3.4 | 17.6 | 0.1 | 9.8 | 6.8 | 47.5 | 0.3 | 17.0 | 13.5 | 22.1 | 13.2 | 0.2 | 226.8 |
| Qld | 133.2 | 22.2 | 62.3 | 16.1 | 8.3 | 15.6 | 9.7 | 3.5 | 23.6 | 0.5 | 46.0 | 16.5 | 0.1 | 357.7 |
| SA | 32.1 | - | 0.2 | 0.1 | 1.6 | 1.0 | 2.1 | 0.8 | 3.7 | 1.1 | 9.9 | 11.8 | - | 64.3 |
| WA | 60.7 | 4.2 | 5.6 | 11.2 | 7.0 | 1.4 | 5.0 | 14.0 | 2.7 | - | 50.8 | 14.8 | - | 177.4 |
| Tas. | 5.5 | 0.5 | - | - | 0.2 | 0.3 | - | - | 0.8 | 0.2 | 1.1 | 2.4 | - | 10.9 |
| NT | 42.9 | 0.3 | - | 0.1 | 1.0 | 3.9 | 0.8 | 0.2 | 1.6 | - | 13.5 | - | - | 64.3 |
| ACT | 25.1 | - | - | - | - | - | 0.5 | - | 0.4 | 7.9 | - | - | - | 33.9 |
| Australia | 530.2 | 46.7 | 105.3 | 29.7 | 45.0 | 75.3 | 131.8 | 32.2 | 80.5 | 16.1 | 306.0 | 78.2 | 0.4 | 1,477.4 |
| BY THE PUBLIC SECTOR | | | | | | | | | | | | | | |
| September qtr 1993 - r | | | | | | | | | | | | | | |
| NSW | 439.5 | 42.9 | 295.3 | - | 12.0 | 12.9 | 53.8 | 0.2 | 6.9 | 159.9 | - | - | 1.7 | 1,025.0 |
| Vic. | 33.4 | 3.3 | 37.8 | 0.5 | 27.7 | 45.2 | 46.3 | 1.8 | 3.9 | 73.0 | 0.4 | - | 0.1 | 273.2 |
| Qld | 161.5 | 10.3 | 17.1 | 2.0 | 23.7 | 23.2 | 61.7 | - | 17.0 | 88.1 | 6.4 | - | 0.5 | 411.4 |
| SA | 15.9 | 0.1 | 0.1 | - | 8.4 | 16.9 | 15.6 | - | 2.1 | 24.2 | - | - | - | 83.5 |
| WA | 38.2 | 1.8 | 15.7 | 0.2 | 6.3 | 8.6 | 9.1 | 1.8 | 6.3 | 38.7 | - | - | 0.1 | 126.8 |
| Tas. | 24.2 | 2.3 | - | 0.2 | 1.1 | 3.8 | - | - | 0.9 | 6.4 | - | - | - | 39.0 |
| NT | 0.4 | - | - | - | 2.4 | 0.1 | 0.6 | - | 0.1 | 5.0 | - | - | - | 8.5 |
| ACT | 0.2 | - | - | - | 1.0 | 3.9 | 9.3 | - | - | 5.8 | - | - | - | 20.1 |
| Australia | 713.2 | 60.7 | 365.9 | 2.9 | 82.5 | 114.5 | 196.4 | 3.9 | 37.2 | 401.1 | 6.8 | - | 2.4 | 1,987.6 |

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 | By the Public Sector —continued | | | | | | | Heavy industry | | | | | | |
|-------------------------------|---|---------|----------|----------|-----------------------------------|---------------------------|---|----------------|------------|---------------------|--|----------------------------|-------|---------|
| | Roads, highways and subdivisions | Bridges | Railways | Harbours | Water storage and supply | Sewage and drainage | Electricity generation, transmission and distribution | Pipelines | Recreation | Telecommu-nications | Oil, gas, coal and other minerals | Other heavy industry | Other | Total |
| <i>December qtr 1993 —</i> | | | | | | | | | | | | | | |
| NSW | 90.7 | 6.4 | — | — | 6.1 | 9.8 | 36.0 | 0.2 | 4.0 | 121.8 | — | — | — | 2.2 |
| Vic. | 53.2 | 2.7 | 12.2 | 0.2 | 6.4 | 22.6 | 43.8 | 3.2 | 4.5 | 78.3 | 2.7 | — | — | 0.1 |
| Qld | 71.4 | 16.0 | — | 3.5 | 11.7 | 12.7 | 22.2 | — | 4.1 | 103.1 | 2.4 | — | — | 230.1 |
| SA | 31.4 | 0.3 | — | — | 10.3 | 14.1 | 14.5 | 7.0 | 3.5 | 31.0 | 0.2 | — | — | 247.0 |
| WA | 50.0 | 3.8 | 0.5 | 0.5 | 10.8 | 11.4 | 9.8 | 2.0 | 3.4 | 37.7 | — | — | — | 112.5 |
| Tas. | 13.5 | 2.4 | — | 0.2 | 0.4 | 0.7 | — | — | 0.5 | 6.8 | — | — | — | 129.9 |
| NT | — | — | — | — | 0.1 | 0.2 | 0.5 | — | 0.1 | 6.3 | — | — | — | 24.4 |
| ACT | 0.1 | — | — | — | 2.5 | 0.6 | 3.3 | — | — | 6.0 | — | — | — | 7.2 |
| Australia | 310.2 | 31.5 | 12.8 | 4.3 | 48.3 | 72.2 | 130.7 | 12.3 | 20.1 | 391.1 | 5.3 | — | — | 12.6 |
| <i>September qtr 1993 —r</i> | | | | | | | | | | | | | | |
| NSW | 573.8 | 63.4 | 304.5 | 4.2 | 129.4 | 117.9 | 80.1 | 26.2 | 30.8 | 166.2 | 46.6 | 25.8 | 2.4 | 1,571.3 |
| Vic. | 92.6 | 3.6 | 47.0 | 0.7 | 41.8 | 52.1 | 81.8 | 2.7 | 21.1 | 73.2 | 60.7 | 11.3 | 0.7 | 489.1 |
| Qld | 284.5 | 35.6 | 41.7 | 40.5 | 30.0 | 38.5 | 85.3 | 7.9 | 43.8 | 88.8 | 67.7 | 27.1 | 1.1 | 792.5 |
| SA | 42.6 | 0.1 | 0.4 | 0.1 | 9.6 | 17.2 | 16.7 | 2.1 | 5.3 | 24.8 | 8.6 | 3.7 | 0.8 | 132.0 |
| WA | 104.4 | 3.9 | 33.8 | 0.2 | 9.4 | 9.3 | 41.2 | 2.0 | 8.3 | 38.7 | 93.0 | 8.8 | 0.1 | 353.1 |
| Tas. | 33.1 | 2.3 | — | 0.5 | 3.9 | 6.9 | — | — | 1.9 | 6.4 | 1.4 | 0.6 | — | 57.0 |
| NT | 33.2 | 2.8 | — | — | 4.2 | 0.7 | 3.1 | — | 0.8 | 5.0 | 13.5 | — | — | 63.2 |
| ACT | 14.0 | — | — | — | 1.0 | 4.3 | 10.5 | 0.5 | 2.1 | 6.6 | — | — | — | 38.8 |
| Australia | 1,178.1 | 111.7 | 427.4 | 46.2 | 229.2 | 246.8 | 318.8 | 41.4 | 114.1 | 409.7 | 291.4 | 77.4 | 5.1 | 3,497.1 |
| <i>December qtr 1993 —</i> | | | | | | | | | | | | | | |
| NSW | 246.1 | 22.5 | 19.7 | 2.1 | 23.2 | 55.5 | 102.9 | 13.1 | 27.3 | 122.6 | 162.5 | 19.5 | 2.3 | 819.2 |
| Vic. | 128.5 | 6.2 | 29.8 | 0.3 | 16.2 | 29.5 | 91.4 | 3.5 | 21.5 | 91.8 | 24.8 | 13.2 | 0.3 | 456.9 |
| Qld | 204.6 | 38.2 | 62.3 | 19.6 | 20.1 | 28.3 | 31.8 | 3.6 | 27.6 | 103.6 | 48.4 | 16.5 | 0.1 | 604.7 |
| SA | 63.5 | 0.3 | 0.3 | 0.1 | 11.8 | 15.1 | 16.6 | 7.8 | 7.2 | 32.1 | 10.2 | 11.8 | — | 176.8 |
| WA | 110.7 | 7.9 | 6.0 | 11.7 | 17.9 | 12.7 | 14.7 | 16.0 | 6.1 | 37.7 | 50.8 | 14.8 | 0.2 | 307.3 |
| Tas. | 18.9 | 2.8 | — | 0.2 | 0.6 | 1.0 | — | — | 1.3 | 7.0 | 1.1 | 2.4 | — | 35.3 |
| NT | 42.9 | 0.3 | — | 0.1 | 1.0 | 4.1 | 1.3 | 0.2 | 1.7 | 6.3 | 13.5 | — | — | 71.5 |
| ACT | 25.2 | — | — | — | 2.5 | 1.2 | 3.3 | 0.4 | 7.9 | 6.0 | — | — | — | 46.5 |
| Australia | 840.5 | 78.2 | 118.1 | 34.0 | 93.3 | 147.5 | 262.0 | 44.5 | 160.5 | 407.2 | 313.3 | 78.2 | 2.8 | 2,518.1 |

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

| Period, State or Territory | Roads, highways and subdivisions | Bridges | Railways | Harbours | Water storage and supply | Sewerage and drainage | Electricity generation, transmission and distribution | Pipelines | Recreation | Heavy industry | | | |
|-------------------------------|---|---------|----------|----------|-----------------------------------|-----------------------------|---|-----------|------------|-------------------------|-------------------------|-------------------|-------|
| | | | | | | | | | | Telecom- munications | Telecom- munications | Other minerals | Total |
| BY THE PRIVATE SECTOR | | | | | | | | | | | | | |
| September qtr 1993 - r | | | | | | | | | | | | | |
| NSW | 208.9 | 22.0 | 5.1 | 4.9 | 28.3 | 49.4 | 46.3 | 18.9 | 28.4 | 22.3 | 24.9 | 22.9 | 0.6 |
| Vic. | 102.4 | 11.4 | 2.3 | 1.0 | 12.0 | 9.9 | 83.6 | 0.3 | 13.2 | 7.7 | 37.2 | 11.9 | 2.5 |
| Qld | 150.7 | 10.1 | 13.7 | 9.7 | 12.4 | 104.6 | 9.8 | 27.0 | 0.8 | 55.2 | 20.0 | 0.6 | 295.3 |
| SA | 29.7 | 1.1 | 0.9 | 0.1 | 3.9 | 4.9 | 4.0 | 2.9 | 7.6 | 12.7 | 8.2 | 1.3 | 428.3 |
| WA | 94.9 | 1.5 | 10.9 | 11.2 | 8.2 | 3.9 | 9.5 | 8.5 | 3.9 | 0.6 | 130.9 | 34.0 | 81.2 |
| Tas. | 7.1 | 1.7 | — | 2.0 | 1.0 | 1.7 | — | — | 0.8 | — | 1.5 | 0.6 | — |
| NT | 21.7 | 2.1 | — | 6.7 | 0.8 | 1.0 | 2.6 | — | — | 1.1 | 0.6 | 8.6 | — |
| ACT | 19.9 | — | — | — | 3.3 | 0.5 | 0.1 | 0.5 | 2.2 | 1.8 | — | — | — |
| Australia | 635.2 | 49.9 | 32.9 | 39.6 | 67.1 | 83.7 | 250.6 | 42.0 | 79.5 | 41.5 | 271.0 | 97.5 | 5.0 |
| December qtr 1993 — | | | | | | | | | | | | | |
| NSW | 220.0 | 18.8 | 13.0 | 7.8 | 41.9 | 60.0 | 35.6 | 12.5 | 25.4 | 7.9 | 42.0 | 19.0 | 0.2 |
| Vic. | 91.5 | 9.2 | 6.2 | 0.4 | 14.1 | 9.2 | 63.0 | 0.9 | 18.0 | 12.4 | 35.2 | 14.4 | 0.2 |
| Qld | 148.6 | 14.5 | 21.1 | 11.5 | 8.3 | 17.1 | 82.9 | 6.9 | 23.3 | 0.6 | 59.5 | 13.3 | 274.5 |
| SA | 33.8 | 0.6 | 0.3 | 0.1 | 3.5 | 2.6 | 2.2 | 1.7 | 3.6 | 3.5 | 17.0 | 16.5 | 0.1 |
| WA | 71.3 | 1.2 | 11.1 | 9.8 | 16.2 | 3.8 | 7.1 | 37.1 | 3.5 | 0.2 | 147.7 | 15.6 | — |
| Tas. | 9.5 | 1.0 | 0.3 | 2.2 | 1.0 | 2.1 | — | — | 1.1 | 0.2 | 1.5 | 1.8 | — |
| NT | 23.9 | 1.8 | — | 5.4 | 0.8 | 0.9 | 2.2 | 0.2 | 1.3 | 0.2 | 15.7 | — | 52.5 |
| ACT | 20.6 | — | — | — | 1.8 | 0.5 | 0.9 | 0.4 | 3.3 | 0.5 | — | — | 27.9 |
| Australia | 619.1 | 47.1 | 52.1 | 37.1 | 87.8 | 94.2 | 193.9 | 59.7 | 79.4 | 25.5 | 318.6 | 80.7 | 0.5 |
| BY THE PUBLIC SECTOR | | | | | | | | | | | | | |
| September qtr 1993 - r | | | | | | | | | | | | | |
| NSW | 146.0 | 9.3 | 46.1 | — | 15.8 | 20.4 | 42.7 | 0.3 | 102 | 119.9 | — | — | 2.3 |
| Vic. | 35.7 | 3.0 | 14.4 | 0.3 | 10.0 | 9.7 | 43.7 | 1.8 | 5.8 | 73.0 | 1.1 | 0.1 | 198.6 |
| Qld | 107.0 | 4.6 | 13.6 | 2.0 | 16.0 | 12.5 | 43.2 | — | 7.4 | 88.1 | 6.4 | — | 301.1 |
| SA | 23.5 | 0.1 | 1.0 | 0.5 | 7.2 | 11.3 | — | — | 2.3 | 24.3 | — | — | 85.8 |
| WA | 24.0 | 0.5 | 6.8 | 4.0 | 6.6 | 9.5 | 10.1 | 1.8 | 6.2 | 38.8 | — | — | 108.2 |
| Tas. | 12.0 | 2.3 | — | 0.4 | 12.6 | 0.9 | 5.5 | — | 0.4 | 6.4 | — | 0.3 | 40.9 |
| NT | 0.2 | — | — | — | 0.3 | — | 0.4 | — | — | 5.0 | — | — | 5.8 |
| ACT | 0.1 | — | — | — | 1.0 | 0.9 | 7.3 | — | — | 5.8 | — | — | 15.1 |
| Australia | 348.6 | 19.7 | 81.9 | 7.3 | 69.6 | 65.2 | 168.3 | 3.9 | 32.4 | 361.4 | 7.4 | — | 2.8 |

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 transmission and drainage distribution | Pipelines | Recreation | Telecommu- nications | Other | Heavy industry | |
|----------------------------------|---|---------|----------|----------|-----------------------------------|---|-----------|------------|-------------------------|-------|--------------------------------------|-------|
| | | | | | | | | | | | Oil, gas and other minerals | Other |
| BY THE PUBLIC SECTOR—continued | | | | | | | | | | | | |
| December qtr 1993— | | | | | | | | | | | | |
| NSW | 185.6 | 12.1 | 60.0 | — | 13.5 | 22.0 | 41.9 | 0.2 | 7.5 | 125.5 | — | 2.4 |
| Vic. | 39.3 | 2.4 | 23.0 | 0.1 | 11.0 | 15.8 | 51.8 | 3.2 | 78.4 | 2.5 | — | 0.1 |
| Qld | 109.6 | 6.4 | 10.8 | 3.5 | 13.8 | 9.8 | 43.2 | — | 6.7 | 103.5 | 24.4 | 0.1 |
| SA | 27.5 | 0.2 | 1.0 | 2.2 | 7.5 | 11.7 | 14.5 | 0.2 | 2.8 | 31.1 | 0.2 | 98.8 |
| WA | 41.7 | 4.2 | 10.1 | 1.7 | 10.8 | 11.2 | 9.8 | 2.0 | 3.0 | 37.7 | — | 132.2 |
| Tas. | 16.3 | 2.3 | — | 0.5 | 6.5 | 1.2 | 5.2 | — | 0.4 | 7.0 | — | 0.1 |
| NT | 0.1 | — | — | — | 0.5 | 0.1 | 0.5 | — | 0.1 | 6.3 | — | 7.7 |
| ACT | 0.1 | — | — | — | 1.0 | 1.1 | 5.7 | — | 6.1 | — | — | 14.0 |
| Australia | 420.2 | 27.6 | 104.9 | 7.9 | 64.7 | 72.9 | 172.6 | 5.6 | 23.8 | 395.8 | 5.1 | — |
| TOTAL | | | | | | | | | | | | |
| September qtr 1993— ^r | | | | | | | | | | | | |
| NSW | 355.0 | 31.3 | 51.2 | 4.9 | 44.1 | 69.9 | 89.0 | 19.2 | 38.6 | 142.2 | 24.9 | 22.9 |
| Vic. | 138.1 | 14.4 | 16.6 | 1.3 | 22.0 | 19.6 | 127.3 | 2.1 | 19.1 | 80.7 | 38.2 | 11.9 |
| Qld | 257.7 | 14.6 | 27.3 | 15.7 | 25.7 | 25.0 | 147.8 | 9.8 | 34.5 | 88.9 | 61.6 | 20.0 |
| SA | 53.2 | 1.2 | 1.9 | 0.7 | 11.1 | 16.2 | 19.5 | 4.0 | 5.2 | 31.9 | 12.7 | 8.2 |
| WA | 118.9 | 2.0 | 17.7 | 15.2 | 14.8 | 13.3 | 19.6 | 10.3 | 10.2 | 39.4 | 130.9 | 34.0 |
| Tas. | 19.0 | 4.0 | — | 2.3 | 13.7 | 2.6 | 5.5 | — | 1.2 | 6.4 | 1.5 | 0.6 |
| NT | 21.8 | 2.1 | — | 6.7 | 1.1 | 1.0 | 2.9 | — | 1.1 | 5.6 | 8.6 | — |
| ACT | 20.1 | — | — | — | 4.3 | 1.4 | 7.4 | 0.5 | 2.2 | 7.7 | — | — |
| Australia | 983.8 | 69.6 | 114.7 | 46.8 | 136.7 | 148.9 | 418.9 | 45.9 | 111.9 | 402.9 | 278.4 | 97.5 |
| December qtr 1993— | | | | | | | | | | | | |
| NSW | 405.6 | 30.9 | 73.0 | 7.8 | 55.5 | 82.0 | 77.5 | 12.7 | 32.9 | 133.5 | 42.0 | 19.0 |
| Vic. | 130.8 | 11.5 | 29.2 | 0.5 | 25.1 | 25.0 | 114.8 | 4.0 | 21.1 | 90.8 | 37.6 | 14.4 |
| Qld | 258.2 | 21.0 | 31.9 | 15.0 | 22.1 | 27.0 | 126.1 | 6.9 | 30.0 | 104.2 | 61.9 | 13.3 |
| SA | 61.3 | 0.7 | 1.3 | 2.3 | 11.0 | 14.2 | 16.7 | 1.9 | 6.4 | 34.6 | 17.3 | 16.5 |
| WA | 113.0 | 5.5 | 21.2 | 11.5 | 27.0 | 15.0 | 16.9 | 39.1 | 6.6 | 37.9 | 147.7 | 15.6 |
| Tas. | 25.8 | 3.3 | 0.3 | 2.6 | 7.5 | 3.3 | 5.2 | — | 1.6 | 7.2 | 1.5 | 1.8 |
| NT | 24.0 | 1.8 | — | 5.4 | 1.3 | 1.1 | 2.7 | 0.2 | 1.4 | 6.6 | 15.7 | — |
| ACT | 20.6 | — | — | — | 2.9 | 1.6 | 6.6 | 0.4 | 3.3 | 6.6 | — | — |
| Australia | 1,039.4 | 74.7 | 157.0 | 45.1 | 152.5 | 169.1 | 366.5 | 65.3 | 103.2 | 421.3 | 323.7 | 80.7 |

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

| Period, State or Territory | Roads, highways and subdivisions | Bridges | Railways | Harbours | BY THE PRIVATE SECTOR | | | | | | Heavy industry | |
|-------------------------------|---|---------|----------|----------|-----------------------------------|---|-----------|------------|-------------------------|-------|----------------|---------|
| | | | | | Water storage and supply | Sewerage transmission and drainage | Pipelines | Recreation | Telecommuni- cations | Other | | |
| <i>September qtr 1993 - r</i> | | | | | | | | | | | | |
| NSW | 271.4 | 62.0 | 12.5 | 9.8 | 189.0 | 117.8 | 87.0 | 15.8 | 15.4 | 33.3 | 70.3 | 19.5 |
| Vic. | 135.4 | 15.0 | 7.1 | 0.3 | 25.1 | 81.9 | 217.7 | 0.7 | 7.2 | 19.4 | 98.1 | 14.3 |
| Qld | 89.8 | 31.2 | 35.0 | 35.4 | 4.5 | 21.5 | 130.3 | 7.0 | 1.3 | 0.4 | 59.0 | 31.7 |
| SA | 13.3 | 1.5 | 0.1 | — | 5.5 | 2.4 | 1.5 | 3.2 | 1.6 | 2.6 | 16.1 | 1.7 |
| WA | 50.3 | 0.6 | 13.0 | 15.3 | 15.2 | 2.5 | 30.6 | 33.5 | 3.7 | 0.1 | 254.4 | 34.6 |
| Tas. | 8.7 | 2.3 | — | 3.0 | 1.9 | 2.2 | — | 0.2 | — | 1.6 | 0.1 | — |
| NT | 25.2 | 1.3 | — | 9.5 | 1.5 | 0.4 | 2.4 | — | 0.4 | 15.7 | — | — |
| ACT | 19.8 | — | — | — | 1.6 | — | 1.1 | — | 0.2 | 0.7 | — | — |
| Australia | 613.8 | 114.0 | 67.7 | 73.3 | 244.3 | 228.8 | 470.6 | 60.2 | 29.7 | 56.8 | 515.2 | 102.1 |
| <i>December qtr 1993 - r</i> | | | | | | | | | | | | |
| NSW | 218.2 | 50.9 | 19.3 | 6.3 | 163.3 | 104.0 | 97.9 | 16.7 | 12.4 | 26.4 | 192.3 | 19.5 |
| Vic. | 120.9 | 8.5 | 18.6 | — | 20.6 | 78.9 | 205.6 | 0.1 | 3.3 | 19.8 | 87.6 | 13.1 |
| Qld | 83.1 | 37.5 | 70.3 | 40.5 | 5.9 | 21.8 | 99.7 | 5.0 | 1.1 | 0.1 | 46.1 | 34.8 |
| SA | 11.8 | 1.0 | — | — | 3.5 | 1.0 | 1.7 | 2.5 | 2.1 | 0.3 | 14.6 | 4.8 |
| WA | 38.2 | 2.9 | 10.1 | 11.2 | 14.7 | 0.1 | 29.0 | 7.1 | 2.4 | — | 200.3 | 26.4 |
| Tas. | 4.2 | 1.9 | — | 0.8 | 1.0 | 0.4 | — | — | — | — | 1.3 | 0.7 |
| NT | 43.8 | 0.1 | — | 5.9 | 1.5 | 3.4 | 1.0 | — | 0.3 | — | 13.6 | — |
| ACT | 23.3 | — | — | — | — | 0.1 | 0.2 | — | 4.7 | 0.4 | — | — |
| Australia | 543.5 | 102.8 | 118.3 | 64.8 | 210.6 | 209.6 | 435.1 | 31.3 | 26.2 | 47.0 | 555.7 | 99.5 |
| <i>September qtr 1993 - r</i> | | | | | | | | | | | | |
| <i>BY THE PUBLIC SECTOR</i> | | | | | | | | | | | | |
| NSW | 392.3 | 38.4 | 249.2 | .. | 72.8 | 89.8 | 50.3 | — | 8.2 | 40.8 | — | — |
| Vic. | 12.6 | 3.4 | 37.5 | 0.9 | 38.4 | 130.3 | 62.9 | — | 1.7 | 0.1 | 15.0 | — |
| Qld | 138.1 | 14.8 | 66.5 | — | 47.6 | 19.9 | 252.7 | — | 14.1 | 1.5 | — | — |
| SA | 9.6 | — | 3.7 | 2.7 | 40.0 | 59.7 | — | — | 1.0 | — | — | 0.4 |
| WA | 37.1 | 1.8 | 40.5 | 3.1 | 0.1 | 1.3 | — | — | 7.8 | 0.1 | — | 116.7 |
| Tas. | 13.4 | — | — | 0.4 | 15.4 | 3.0 | 48.8 | — | 1.1 | 10.2 | — | 0.1 |
| NT | 0.3 | — | — | — | 2.3 | 0.1 | — | — | 0.1 | — | — | 91.9 |
| ACT | 0.1 | — | — | — | 0.6 | 3.5 | 7.7 | — | — | 0.5 | — | 0.1 |
| Australia | 663.6 | 58.4 | 397.3 | 7.1 | 217.2 | 307.5 | 422.7 | — | 34.0 | 53.2 | 15.0 | — |
| | | | | | | | | | | | | 0.7 |
| | | | | | | | | | | | | 2,176.8 |

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

| Period, State or Territory | Roads, highways and subdivisions | Bridges | Railways | Harbours | Water storage and supply | Sewerage and drainage distribution | Pipelines | Telecommu- nications | Recreation | Heavy industry | | | | |
|---|---|---------|----------|----------|-----------------------------------|---|-----------|-------------------------|------------|---|-------------------|-------------------|-------|---------|
| | | | | | | | | | | Electricity generation, and transmission | Other minerals | Heavy industry | Total | |
| BY THE PUBLIC SECTOR — <i>continued</i> | | | | | | | | | | | | | | |
| December qtr 1993 — | | | | | | | | | | | | | | |
| NSW | 308.1 | 32.1 | 189.2 | — | 59.4 | 76.5 | 44.2 | — | 3.5 | 37.2 | — | — | 0.1 | 750.3 |
| Vic. | 27.0 | 3.6 | 26.7 | 1.0 | 34.9 | 134.3 | 55.5 | — | 3.0 | 0.1 | 15.3 | — | — | 301.4 |
| Qld | 162.9 | 20.3 | 55.3 | — | 43.9 | 19.4 | 231.8 | — | 10.4 | 1.3 | — | — | 0.3 | 545.7 |
| SA | 11.8 | 0.1 | 2.8 | 1.9 | 42.8 | 62.4 | — | 6.8 | 2.8 | — | — | — | — | 131.4 |
| WA | 50.7 | 1.3 | 30.3 | 1.3 | 0.1 | 1.6 | — | — | 7.0 | 0.1 | — | — | 0.2 | 92.5 |
| Tas. | 10.4 | — | — | — | 3.5 | 2.6 | 42.8 | — | 0.8 | 10.0 | — | — | 0.1 | 70.2 |
| NT | 0.2 | — | — | — | 0.6 | — | — | — | — | — | — | — | 0.8 | — |
| ACT | 0.1 | — | — | — | 2.1 | 3.0 | 5.4 | — | — | 0.4 | — | — | — | 11.1 |
| Australia | 571.3 | 57.5 | 304.2 | 4.2 | 187.2 | 289.8 | 379.7 | 6.8 | 27.6 | 49.1 | 15.3 | — | 0.6 | 1,903.3 |
| TOTAL | | | | | | | | | | | | | | |
| September qtr 1993 ... ^r | | | | | | | | | | | | | | |
| NSW | 663.7 | 190.4 | 261.6 | 9.8 | 261.7 | 201.6 | 137.2 | 15.8 | 23.6 | 74.0 | 70.3 | 19.5 | 0.4 | 1,845.6 |
| Vic. | 148.1 | 18.4 | 44.6 | 1.2 | 63.5 | 212.2 | 280.6 | 0.7 | 8.8 | 19.5 | 113.1 | 14.3 | 1.4 | 926.4 |
| Qld | 287.9 | 46.0 | 101.5 | 35.4 | 52.2 | 41.4 | 383.1 | 7.0 | 15.5 | 1.8 | 59.0 | 31.7 | 0.4 | 1,062.8 |
| SA | 22.9 | 1.5 | 3.8 | 2.7 | 45.5 | 62.1 | 1.5 | 3.2 | 2.6 | 16.1 | 1.7 | — | — | 166.2 |
| WA | 87.4 | 2.4 | 53.4 | 18.4 | 15.3 | 3.8 | 30.6 | 33.5 | 11.5 | 0.3 | 234.4 | 34.6 | 0.1 | 345.8 |
| Tas. | 22.0 | 2.3 | — | 3.4 | 17.3 | 5.2 | 48.6 | — | 1.4 | 10.2 | 1.6 | 0.1 | 0.1 | 112.4 |
| NT | 25.5 | 1.3 | — | 9.5 | 3.8 | 0.5 | 2.7 | — | 0.1 | 0.4 | 15.7 | — | — | 59.5 |
| ACT | 19.9 | — | — | — | 2.2 | 3.5 | 8.8 | — | 0.2 | 1.2 | — | — | — | 35.9 |
| Australia | 1,277.4 | 172.4 | 465.0 | 80.4 | 461.5 | 536.3 | 893.3 | 60.2 | 63.7 | 110.0 | 530.2 | 102.1 | 2.4 | 4,754.8 |
| December qtr 1993 — | | | | | | | | | | | | | | |
| NSW | 526.4 | 83.0 | 208.4 | 6.3 | 222.7 | 180.5 | 142.1 | 16.7 | 15.9 | 63.6 | 192.3 | 19.5 | 0.3 | 1,677.6 |
| Vic. | 147.9 | 12.2 | 45.3 | 1.0 | 55.5 | 213.2 | 261.1 | 0.1 | 6.3 | 19.9 | 102.8 | 13.1 | — | 878.4 |
| Qld | 246.0 | 57.3 | 125.6 | 40.5 | 49.8 | 41.2 | 331.5 | 5.0 | 11.4 | 1.5 | 46.1 | 34.8 | 0.3 | 991.6 |
| SA | 23.6 | 1.1 | 2.8 | 1.9 | 46.3 | 63.4 | 1.7 | 9.3 | 5.0 | 0.3 | 14.6 | 4.8 | — | 174.8 |
| WA | 88.9 | 4.2 | 40.4 | 12.5 | 14.8 | 1.7 | 29.0 | 7.1 | 9.4 | 0.1 | 200.3 | 26.4 | 0.2 | 434.9 |
| Tas. | 14.7 | 1.9 | — | 0.8 | 4.6 | 2.9 | 42.8 | — | 0.8 | 10.0 | 1.3 | 0.7 | 0.1 | 80.6 |
| NT | 44.0 | 0.1 | — | 5.9 | 2.1 | 3.4 | 1.0 | — | 0.3 | — | 13.6 | — | — | 70.4 |
| ACT | 23.4 | — | — | — | 2.1 | 3.1 | 5.6 | — | 4.7 | 0.8 | — | — | — | 39.7 |
| Australia | 1,114.7 | 160.3 | 422.5 | 63.0 | 397.8 | 509.4 | 814.9 | 38.1 | 53.8 | 96.2 | 570.9 | 99.5 | 0.9 | 4,348.1 |

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

| <i>Stage of construction</i> | NSW | Vic. | Qld | SA | WA | Tas. | NT | ACT | Australia |
|---------------------------------|-------|-------|-------|------|-------|------|------|------|-----------|
| SEPTEMBER QUARTER 1993 r | | | | | | | | | |
| <i>For the private sector —</i> | | | | | | | | | |
| Value of work commenced | 278.6 | 118.5 | 227.4 | 32.0 | 196.6 | 6.0 | 23.7 | 13.6 | 896.3 |
| Value of work done | 183.4 | 129.6 | 198.6 | 51.6 | 244.7 | 5.2 | 24.7 | 15.4 | 853.2 |
| Value of work yet to be done | 372.3 | 229.8 | 158.3 | 32.1 | 383.8 | 3.5 | 31.0 | 15.6 | 1,226.5 |
| <i>For the public sector —</i> | | | | | | | | | |
| Value of work commenced | 267.6 | 97.4 | 153.6 | 16.6 | 29.7 | 12.0 | 31.0 | 5.2 | 613.2 |
| Value of work done | 299.5 | 165.7 | 229.7 | 29.6 | 73.3 | 11.2 | 20.4 | 12.9 | 842.3 |
| Value of work yet to be done | 531.5 | 393.7 | 288.8 | 17.4 | 70.2 | 16.5 | 25.5 | 7.9 | 1,351.5 |
| Total | | | | | | | | | |
| Value of work commenced | 546.2 | 215.9 | 381.0 | 48.6 | 226.3 | 18.1 | 54.7 | 18.7 | 1,509.6 |
| Value of work done | 482.9 | 295.3 | 428.3 | 81.2 | 318.0 | 16.4 | 45.1 | 28.4 | 1,695.5 |
| Value of work yet to be done | 903.8 | 623.5 | 447.2 | 49.5 | 454.0 | 20.0 | 56.5 | 23.5 | 2,578.0 |
| DECEMBER QUARTER 1993 | | | | | | | | | |
| <i>For the private sector —</i> | | | | | | | | | |
| Value of work commenced | 304.6 | 105.3 | 190.6 | 46.7 | 138.6 | 6.8 | 20.7 | 28.8 | 842.1 |
| Value of work done | 213.4 | 144.2 | 202.4 | 59.2 | 263.5 | 7.1 | 31.7 | 17.3 | 938.9 |
| Value of work yet to be done | 469.8 | 192.8 | 154.5 | 33.1 | 296.7 | 3.1 | 21.7 | 26.7 | 1,198.3 |
| <i>For the public sector —</i> | | | | | | | | | |
| Value of work commenced | 237.4 | 121.5 | 167.1 | 17.6 | 38.8 | 4.1 | 43.6 | 5.1 | 635.3 |
| Value of work done | 290.7 | 130.4 | 205.5 | 26.2 | 61.3 | 13.6 | 20.8 | 10.6 | 759.0 |
| Value of work yet to be done | 457.6 | 384.2 | 291.4 | 10.3 | 45.7 | 7.3 | 47.8 | 2.0 | 1,246.4 |
| Total | | | | | | | | | |
| Value of work commenced | 542.0 | 226.8 | 357.7 | 64.3 | 177.4 | 10.9 | 64.3 | 33.9 | 1,477.4 |
| Value of work done | 504.1 | 274.5 | 407.9 | 85.5 | 324.8 | 20.7 | 52.5 | 27.9 | 1,697.9 |
| Value of work yet to be done | 927.4 | 577.0 | 445.9 | 43.4 | 342.4 | 10.4 | 69.6 | 28.7 | 2,444.8 |

**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 1993 | Dec. qtr 1993 | Sept. qtr 1993 | Dec. qtr 1993 | Sept. qtr 1993 | Dec. qtr 1993 |
| COMMONWEALTH GOVERNMENT | | | | | | |
| NSW | 118.3 | 121.8 | 118.5 | 122.2 | 2.5 | 2.3 |
| Vic. | 73.0 | 78.3 | 73.1 | 78.4 | 0.1 | — |
| Qld | 87.7 | 102.9 | 88.0 | 103.5 | 1.1 | 0.9 |
| SA | 24.2 | 31.0 | 24.3 | 31.1 | — | — |
| WA | 38.7 | 37.7 | 39.7 | 37.7 | 0.1 | 0.1 |
| Tas. | 6.4 | 6.8 | 6.4 | 6.8 | — | — |
| NT | 5.0 | 6.3 | 5.0 | 6.3 | — | — |
| ACT | 5.8 | 6.0 | 5.8 | 6.1 | 0.5 | 0.4 |
| <i>Australia</i> | <i>359.1</i> | <i>390.9</i> | <i>360.8</i> | <i>392.2</i> | <i>4.4</i> | <i>3.8</i> |
| STATE AND TERRITORY GOVERNMENT | | | | | | |
| NSW | 782.2 | 60.0 | 161.4 | 215.2 | 776.1 | 619.6 |
| Vic. | 155.5 | 99.3 | 82.6 | 114.2 | 278.0 | 261.7 |
| Qld | 144.5 | 67.9 | 110.6 | 106.1 | 458.3 | 414.8 |
| SA | 39.5 | 60.0 | 47.7 | 49.3 | 103.4 | 111.8 |
| WA | 54.3 | 61.2 | 43.7 | 65.2 | 50.9 | 46.5 |
| Tas. | 13.9 | 11.7 | 29.1 | 24.1 | 77.1 | 58.2 |
| NT | 3.1 | 0.7 | 0.7 | 1.1 | 2.6 | 0.6 |
| ACT(a) | 14.2 | 6.6 | 9.3 | 7.9 | 11.9 | 10.6 |
| <i>Australia</i> | <i>1,207.3</i> | <i>367.4</i> | <i>485.1</i> | <i>583.2</i> | <i>1,758.3</i> | <i>1,523.9</i> |
| LOCAL GOVERNMENT | | | | | | |
| NSW | 124.6 | 95.4 | 133.1 | 133.4 | 163.1 | 128.3 |
| Vic. | 44.7 | 52.5 | 42.8 | 38.0 | 24.9 | 39.6 |
| Qld | 179.2 | 76.1 | 102.5 | 100.3 | 156.2 | 129.9 |
| SA | 19.8 | 21.5 | 13.8 | 18.4 | 13.3 | 19.6 |
| WA | 33.8 | 31.0 | 24.9 | 29.2 | 40.8 | 45.9 |
| Tas. | 18.7 | 5.8 | 5.4 | 8.8 | 15.3 | 12.0 |
| NT | 0.5 | 0.1 | 0.2 | 0.2 | 0.4 | 0.2 |
| ACT | .. | .. | .. | .. | .. | .. |
| <i>Australia</i> | <i>421.2</i> | <i>282.4</i> | <i>322.7</i> | <i>328.3</i> | <i>414.1</i> | <i>375.6</i> |
| TOTAL GOVERNMENT | | | | | | |
| NSW | 1,025.0 | 277.2 | 413.0 | 470.8 | 941.8 | 750.3 |
| Vic. | 273.2 | 230.1 | 198.6 | 230.7 | 302.9 | 301.4 |
| Qld | 411.4 | 247.0 | 301.1 | 309.8 | 615.7 | 545.7 |
| SA | 83.5 | 112.5 | 85.8 | 98.8 | 116.7 | 131.4 |
| WA | 126.8 | 129.9 | 108.2 | 132.2 | 91.9 | 92.5 |
| Tas. | 39.0 | 24.4 | 40.9 | 39.6 | 92.4 | 70.2 |
| NT | 8.5 | 7.2 | 5.8 | 7.7 | 3.0 | 0.8 |
| ACT | 20.1 | 12.6 | 15.1 | 14.0 | 12.4 | 11.1 |
| <i>Australia</i> | <i>1,987.6</i> | <i>1,040.7</i> | <i>1,168.5</i> | <i>1,303.7</i> | <i>2,176.8</i> | <i>1,903.3</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, transmission and drainage distribution | Pipelines | Recreation | BY THE PRIVATE SECTOR | | | Heavy industry | | |
|-----------------------|----------------------------------|---------|----------|----------|--------------------------|--|-----------|------------|-------------------------|--------------------|----------------------|-----------------------------------|-------|-------|
| | | | | | | | | | Electricity generation, | Telecommunications | Other heavy industry | Oil, gas, coal and other minerals | Other | Total |
| BY THE PRIVATE SECTOR | | | | | | | | | | | | | | |
| NSW | 5.0 | 24.7 | 14.2 | 39.5 | 4.5 | 6.5 | 0.7 | 9.7 | 14.2 | 35.8 | — | 2.9 | 35.1 | 2.3 |
| Vic. | 5.8 | 0.4 | 26.3 | 24.3 | 18.8 | 12.3 | 21.4 | 16.5 | 42.1 | 3.3 | 0.1 | — | — | 2.4 |
| Qld | 2.2 | 14.7 | 0.1 | 7.6 | 7.2 | 20.5 | 4.3 | 66.5 | 16.8 | — | — | — | 30.2 | 2.4 |
| SA | 5.1 | — | — | — | — | 7.0 | — | 14.4 | 17.1 | — | 1.1 | — | — | 3.7 |
| WA | 7.0 | — | — | — | — | 6.9 | 16.0 | — | 15.6 | 7.2 | 6.2 | — | — | 1.6 |
| Tas. | 8.6 | — | — | — | — | 16.5 | 63.6 | — | 53.5 | — | 47.0 | — | — | 9.2 |
| NT | 2.9 | — | — | — | — | 21.8 | 14.1 | — | 15.7 | — | — | — | — | 2.7 |
| ACT | 0.7 | — | — | — | — | 55.5 | — | — | 38.2 | — | — | — | — | 11.7 |
| Australia | 2.1 | 13.4 | 18.5 | 11.3 | 3.8 | 7.2 | 1.7 | 11.3 | 8.3 | 35.0 | 3.3 | 1.9 | 10.5 | 1.2 |
| BY THE PUBLIC SECTOR | | | | | | | | | | | | | | |
| NSW | 5.1 | 17.0 | — | — | — | 4.9 | 2.3 | 2.3 | 19.7 | 2.1 | — | — | — | 1.8 |
| Vic. | 8.4 | 8.3 | — | — | — | 6.2 | 4.3 | 1.3 | — | 17.1 | — | — | — | 0.6 |
| Qld | 4.0 | 3.4 | — | — | — | 2.5 | 10.7 | — | — | 6.3 | — | — | — | 2.1 |
| SA | 8.2 | 56.5 | — | — | — | 0.3 | 9.8 | 0.6 | — | 13.4 | — | — | — | 3.6 |
| WA | 6.5 | 3.6 | — | — | — | 0.8 | 5.3 | — | — | 11.3 | — | — | — | 3.8 |
| Tas. | 2.4 | — | — | — | — | 49.0 | 17.4 | — | — | 54.6 | — | — | — | 4.1 |
| NT | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| ACT | — | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Australia | 2.4 | 4.5 | — | — | — | 1.9 | 2.7 | 0.9 | 2.6 | 4.3 | — | — | — | — |
| TOTAL | | | | | | | | | | | | | | |
| NSW | 3.8 | 20.2 | 14.2 | 39.4 | 3.3 | 3.7 | 1.3 | 9.4 | 11.8 | 35.8 | — | 2.9 | 6.7 | 1.7 |
| Vic. | 4.8 | 4.3 | — | 24.2 | 10.1 | 7.0 | 2.2 | 5.4 | 13.5 | — | 3.2 | 0.1 | 5.9 | 0.7 |
| Qld | 2.0 | 12.0 | — | 4.6 | 3.5 | 12.7 | 0.7 | 58.1 | 14.2 | — | — | — | 17.1 | 1.7 |
| SA | 4.6 | 44.0 | — | — | 2.8 | 9.4 | 0.6 | 12.9 | 11.6 | — | 1.1 | — | — | 2.7 |
| WA | 5.0 | 24.3 | 74.9 | — | 3.0 | 6.2 | — | — | 11.4 | — | 7.2 | 6.2 | 47.1 | 1.7 |
| Tas. | 3.3 | — | — | — | 22.4 | 22.9 | — | — | 39.5 | — | 47.0 | — | — | 4.8 |
| NT | 2.9 | — | — | — | 9.2 | 7.6 | — | — | 14.5 | — | — | — | — | 2.5 |
| ACT | 0.6 | — | — | — | — | 18.4 | — | — | 37.0 | — | — | — | — | 6.0 |
| Australia | 1.6 | 8.4 | 7.7 | 8.4 | 2.0 | 3.5 | 0.8 | 7.8 | 6.7 | 0.4 | 3.3 | 1.9 | 7.6 | 0.6 |

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

| State or Territory | Roads, highways and subdivisions | Bridges | Railways | Harbours | Water storage and supply | Sewerage and drainage | Electricity generation, transmission and distribution | Pipelines | Recreation | Telecommunications | Heavy industry | | |
|-----------------------|----------------------------------|---------|----------|----------|--------------------------|-----------------------|---|-----------|------------|--------------------|-----------------------------------|----------------------|-------|
| | | | | | | | | | | | Oil, gas, coal and other minerals | Other heavy industry | Other |
| BY THE PRIVATE SECTOR | | | | | | | | | | | | | |
| NSW | 3.9 | 9.2 | 6.0 | 8.6 | 5.7 | 4.8 | 0.3 | 8.1 | 12.5 | 7.2 | — | 2.2 | 10.9 |
| Vic. | 5.3 | 6.3 | — | 22.0 | 16.7 | 10.4 | 8.1 | 2.7 | 14.6 | 5.3 | 1.7 | 2.1 | — |
| Qld | 2.4 | 5.0 | 0.1 | 1.2 | 7.0 | 12.2 | 2.3 | 67.1 | — | — | — | — | 26.7 |
| SA | 4.5 | — | — | — | — | — | 9.3 | — | 9.7 | 15.3 | — | 1.2 | — |
| WA | 4.4 | — | — | — | — | 4.6 | 4.3 | — | — | 16.0 | — | 1.8 | — |
| Tas. | 13.4 | — | — | — | — | 22.2 | 23.3 | — | — | 40.7 | — | 45.8 | — |
| NT | 3.5 | — | — | — | — | 4.1 | 17.0 | — | — | 17.1 | — | — | — |
| ACT | 8.3 | — | — | — | — | 26.9 | — | — | — | 41.0 | — | — | — |
| Australia | 1.9 | 4.2 | 3.7 | 2.1 | 3.7 | 4.5 | 0.9 | 5.8 | 7.7 | 9.5 | 1.0 | 1.6 | 9.1 |
| BY THE PUBLIC SECTOR | | | | | | | | | | | | | |
| NSW | 2.1 | 2.8 | — | — | 2.6 | 1.7 | 2.6 | 13.9 | 3.6 | — | — | — | — |
| Vic. | 6.4 | 8.1 | — | — | 9.3 | 5.4 | 0.6 | — | 17.3 | — | — | — | 43.8 |
| Qld | 3.0 | 3.7 | — | — | — | 0.8 | 5.9 | — | — | 6.3 | — | — | 17.0 |
| SA | 5.3 | 45.6 | — | — | — | 0.3 | 5.9 | 0.5 | — | 11.3 | — | — | 3.9 |
| WA | 4.7 | 1.6 | — | — | — | 0.8 | 5.1 | — | — | 7.8 | — | — | 3.1 |
| Tas. | 2.6 | — | — | — | — | 5.7 | 6.3 | — | — | 34.7 | — | — | 1.7 |
| NT | — | — | — | — | — | — | — | — | — | — | — | — | — |
| ACT | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Australia | 1.5 | 2.0 | — | — | — | 1.6 | 2.0 | 0.8 | 1.8 | 3.8 | — | — | 3.6 |
| TOTAL | | | | | | | | | | | | | |
| NSW | 2.5 | 4.9 | 0.8 | 8.5 | 3.1 | 2.5 | 0.9 | 7.9 | 10.4 | 5.5 | — | 2.2 | 4.0 |
| Vic. | 4.1 | 5.0 | — | 16.4 | 8.7 | 5.5 | 2.0 | 2.0 | 11.8 | — | 1.6 | 2.1 | 5.0 |
| Qld | 1.8 | 4.2 | — | 1.1 | 3.1 | 7.0 | 0.7 | 38.5 | 14.2 | — | — | 18.7 | 1.4 |
| SA | 3.5 | 21.5 | — | — | 3.6 | 5.5 | 0.5 | 9.6 | 10.5 | — | 1.2 | — | 2.6 |
| WA | 3.2 | 16.1 | 9.3 | — | 2.5 | 3.6 | — | — | 12.5 | — | 1.8 | 10.6 | 38.8 |
| Tas. | 4.6 | — | — | — | 5.5 | 12.3 | — | — | 26.4 | — | 45.8 | — | 3.3 |
| NT | 3.5 | — | — | — | 2.8 | 11.8 | — | — | 15.9 | — | — | — | 1.9 |
| ACT | 8.0 | — | — | — | — | 13.0 | — | — | 40.1 | — | — | — | 5.3 |
| Australia | 1.3 | 2.6 | 1.1 | 1.9 | 1.8 | 2.3 | 0.6 | 4.7 | 6.3 | 0.3 | 0.9 | 1.6 | 6.7 |
| | | | | | | | | | | | | | 0.5 |

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

| State or Territory | Roads, highways and subdivisions | Bridges | Railways | Harbours | Water storage and supply | Sewerage and drainage | Electricity generation, transmission and distribution | Pipelines | Recreation | Telecommunications | Heavy industry | | |
|------------------------------|----------------------------------|---------|----------|----------|--------------------------|-----------------------|---|-----------|------------|--------------------|-----------------------------------|----------------------|-------|
| | | | | | | | | | | | Oil, gas, coal and other minerals | Other heavy industry | Total |
| BY THE PRIVATE SECTOR | | | | | | | | | | | | | |
| NSW | 0.6 | 5.8 | 3.2 | 5.9 | 1.4 | 1.9 | 0.1 | 4.0 | 12.2 | 0.1 | — | 0.3 | 6.2 |
| Vic. | 1.6 | 2.3 | — | — | 4.1 | 1.5 | 1.9 | 0.2 | 25.3 | 0.2 | 0.4 | 0.6 | — |
| Qld | 2.0 | 3.3 | 14.7 | 0.2 | 3.5 | 9.2 | 0.2 | 10.6 | 20.9 | — | — | 11.4 | 0.3 |
| SA | 1.8 | — | — | — | — | 36.3 | — | 0.8 | 26.5 | — | 6.2 | — | 0.8 |
| WA | 4.1 | — | — | — | 0.1 | 9.2 | — | — | 7.0 | — | 2.7 | 2.5 | 1.4 |
| Tas. | 31.1 | — | — | — | 18.3 | 15.2 | — | — | — | — | 22.8 | — | 1.0 |
| NT | 0.4 | — | — | — | 7.7 | 9.0 | — | — | 27.2 | — | — | — | 20.0 |
| ACT | 13.0 | — | — | — | — | 18.8 | — | — | 43.0 | — | — | — | 1.1 |
| Australia | 0.8 | 3.3 | 6.0 | 0.6 | 1.1 | 1.7 | 0.1 | 0.4 | 7.6 | 2.4 | 0.5 | 0.4 | 9.5 |
| BY THE PUBLIC SECTOR | | | | | | | | | | | | | |
| NSW | 5.0 | 4.3 | — | — | 0.6 | 0.4 | 8.1 | — | — | 7.4 | — | — | — |
| Vic. | 15.4 | 8.1 | — | — | 5.7 | 2.9 | 2.1 | — | 18.5 | — | — | — | 1.2 |
| Qld | 3.0 | 4.3 | — | — | 0.5 | 17.0 | — | — | 2.8 | — | — | — | 2.7 |
| SA | 15.8 | 55.1 | — | — | 0.1 | 2.1 | — | — | 14.5 | — | — | — | 2.5 |
| WA | 6.2 | 2.3 | — | — | 15.7 | 7.3 | — | — | 6.3 | — | — | — | 3.7 |
| Tas. | 16.0 | — | — | — | 2.6 | 11.0 | — | — | 2.7 | — | — | — | 3.8 |
| NT | — | — | — | — | — | — | — | — | — | — | — | — | 1.7 |
| ACT | — | — | — | — | — | — | — | — | — | — | — | — | — |
| Australia | 2.5 | 3.2 | — | — | 0.6 | 1.6 | 1.5 | 4.3 | 3.6 | — | — | — | 8.3 |
| TOTAL | | | | | | | | | | | | | |
| NSW | 1.7 | 3.9 | 0.3 | 5.9 | 0.6 | 0.4 | 0.7 | 4.0 | 9.5 | — | — | 0.3 | 4.2 |
| Vic. | 4.0 | 2.5 | — | 10.5 | 4.5 | 1.8 | 1.4 | 0.2 | 15.9 | 0.2 | 0.4 | 0.6 | 0.6 |
| Qld | 1.8 | 2.7 | 5.1 | 0.2 | 0.8 | 11.2 | — | 10.6 | 5.4 | — | — | 6.6 | 0.7 |
| SA | 7.2 | 18.2 | — | — | 0.1 | 2.2 | 24.9 | 0.7 | 17.6 | — | 6.2 | — | 0.9 |
| WA | 3.8 | 0.8 | 7.5 | — | 0.3 | 6.0 | — | — | 4.7 | — | 2.7 | 2.5 | 2.5 |
| Tas. | 14.3 | — | — | — | 2.6 | 9.5 | — | — | 16.2 | — | 22.8 | — | 1.3 |
| NT | 0.4 | — | — | — | 3.0 | 5.1 | — | — | 24.7 | — | — | — | 2.0 |
| ACT | 12.5 | — | — | — | — | 2.0 | — | — | 43.0 | — | — | — | 0.8 |
| Australia | 1.1 | 2.4 | 1.1 | 0.6 | 0.5 | 1.2 | 0.5 | 0.4 | 4.6 | 1.2 | 0.5 | 0.4 | 7.0 |

EXPLANATORY NOTES

Introduction

This publication contains estimates of engineering construction activity in Australia by both public and private sector organisations. The estimates were compiled from the Engineering Construction Survey (ECS).

2. These estimates together with results from the ABS Building Activity Surveys provide a complete quarterly picture of building and construction activity in Australia.

Scope and coverage of the survey

3. The ECS aims to measure the value of all engineering construction work undertaken in Australia. For the ECS all enterprises recorded on the ABS central register of businesses and classified to the construction industry and all other units known to be undertaking engineering construction work (from trade journals, newspapers, etc), are included in the survey framework.

4. The cost of land and the value of building construction is excluded from the survey's scope. Where projects include elements of both building and engineering construction e.g. electricity generation, heavy industrial plant, every effort is taken to exclude the building component from these statistics.

5. Repair and maintenance activity is excluded from the survey (see definitions) as are the value of any transfers of existing assets, the value of installed machinery and equipment not integral to the structure and the expenses for relocation of utility services.

6. A contract for the installation of machinery and equipment which is an integral part of a construction project is included in the statistics even though, in some cases, the activity in installing such machinery and equipment is classified to the manufacturing industry in the *Australian Standard Industrial Classification, Volume 1* (1201.0).

Sample Revision

7. For the September quarter survey each year, some changes are made to the sample of businesses. While the impact of the sample revision on total estimates is insignificant, the impact at individual category level may be significant.

Type of construction

8. In this collection each project is classified to a category of construction without regard to end use. For example, a project involving coal handling equipment at an electricity generating plant is included under 'Heavy industry - Oil, gas, coal and other minerals' and not under 'Electricity generation, transmission and distribution'. Where a project involves more than one category of construction the project is included under the category which accounts for the major part of the contract in terms of value.

9. Type of construction is divided into a number of categories as defined below:

- (a) *Roads, highways and subdivisions.* Includes parking areas; cycle paths; airport runways; pedestrian and vehicle overpasses; traffic lights; roundabouts; associated road drainage works; street and highway lighting; road resurfacing, kerbing and guttering, road tunnels.
- (b) *Bridges.* Includes those for the support of roads, railways, causeways and elevated highways.
- (c) *Railways.* Includes tracklaying; overhead power lines and signals; platforms; tramways; tunnels for underground railways; fuel hoppers.
- (d) *Harbours.* Includes boat and yacht basins; breakwaters; retaining walls; docks and piers; terminals; wharves; dredging works; marinas.
- (e) *Water storage and supply.* Includes dams; weirs; reservoirs; embankments for water diversion; water pipelines; mains and treatment plants; flood prevention and erosion; aqueducts; water conduits; systems conveying water to residences, commercial and industrial establishments.
- (f) *Sewerage and drainage.* Includes sanitary and storm sewers; sewage treatment plants; stormwater drains; drainage systems.
- (g) *Electricity generation, transmission and distribution.* Includes power stations; sub stations; hydroelectric generating plants; associated work ie towers, chimneys; transmission and distribution lines.
- (h) *Pipelines.* Includes oil and gas pipelines; urban supply mains for gas; pipelines for refined petroleum products, chemicals, foodstuffs, etc.
- (i) *Recreation.* Includes golf courses; playing fields; racecourses; stadiums; swimming pools; landscaping; park construction.
- (j) *Telecommunications.* Includes radio, television, microwave and radar transmission towers; telephone and telegraph lines and underground cables; coaxial cables.
- (k) *Heavy Industry*
- (l) *Oil, gas, coal and other minerals.* Includes construction of production, storage and distribution facilities; refineries; pumping stations; construction of mines;

- (ii) *Other heavy industry.* Includes construction of chemical plants; blast furnaces; steel mills; other industrial processing plants; ovens.

Definitions

10. Definitions used are as follows:

(a) *Ownership*

Projects are classified as 'private sector' or 'public sector' according to the expected ownership of the project at the time of completion.

(b) *Sector*

The public sector includes Commonwealth Departments and Authorities, State Departments and Authorities, Local Government Authorities, Water, Sewerage and Electricity Authorities and Semi-government Authorities e.g. public hospitals. This publication contains separate estimates for:

(i) Commonwealth Government

(ii) State and Territory Government

(iii) Local Government.

All remaining organisations are classified as private sector.

(c) *Commenced*

A project is regarded as having commenced when the site work begins. However, some public sector authorities are unable to report on this basis. In such cases, the authorities report the value of their annual works budget as a commencement in the September quarter each year.

(d) *Value of work yet to be done*

The value of outstanding work for the project at the end of the period. Rise and fall and other cost variations can lead to increases or decreases in the value of work yet to be done.

(e) *Value of work done*

For the private sector this consists of the value of work done on prime contracts, plus speculative contracts, plus work done on own account.

For the public sector it is defined as work done by the organisation's own workforce.

Reliability of the estimates

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

than two standard errors. Relative standard errors of the estimates are shown in Tables 14, 15 and 16.

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

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

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

Seasonal adjustment

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

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

Estimates at constant prices

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

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

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

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

Related publications

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

Building Approvals, Australia (8731.0) — issued monthly

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

Building Activity, Australia (8752.0) — issued quarterly

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

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

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

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

Symbols and other usages

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

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

RICHARD MADDEN
Acting Australian Statistician



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