



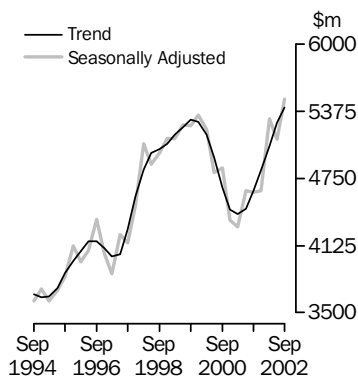
# ENGINEERING CONSTRUCTION ACTIVITY

AUSTRALIA

EMBARGO: 11.30AM (CANBERRA TIME) THURS 16 JAN 2003

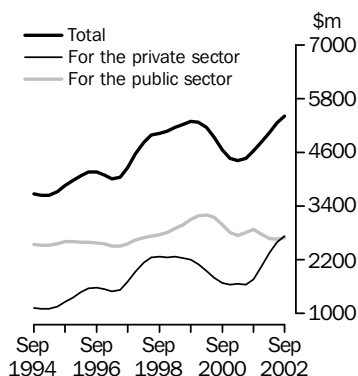
## Value of work done

Total engineering  
Volume terms



## Value of work done

Volume terms  
Trend estimates



■ For further information about these and related statistics, contact the National Information and Referral Service on 1300 135 070 or Andrew Stidston on Adelaide 08 8237 7668.

## KEY FIGURES

	Sep qtr 02	Jun qtr 02 to Sep qtr 02	Sep qtr 01 to Sep qtr 02
	\$m	% change	% change
<b>TREND ESTIMATES VOLUME TERMS (a)</b>			
<b>Value of work done</b>			
For the private sector	2 728.1	4.9	54.9
For the public sector(b)	2 701.9	1.3	-6.1
Total engineering construction	5 411.2	2.7	16.7

## SEASONALLY ADJUSTED VOLUME TERMS (a)

<b>Value of work done</b>			
For the private sector	2 695.8	9.7	51.5
For the public sector(b)	2 790.5	5.0	-1.7
Total engineering construction	5 486.3	7.2	18.8

(a) Chain volume measures, reference year 2000-01.

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

## KEY POINTS

### TREND ESTIMATES

- The trend estimate for the value of total engineering construction work done in the September quarter 2002 rose by 2.7% to \$5,411.2m.
- The trend estimate for the value of work done for the private sector has risen for five consecutive quarters with a rise of 4.9% recorded in the September quarter 2002. The value of work done for the public sector rose 1.3% in the September quarter 2002 following falls in the previous three quarters.

### SEASONALLY ADJUSTED ESTIMATES

- The seasonally adjusted estimate for the total value of work done in the September quarter 2002 rose 7.2% to \$5,486.3m. The September quarter 2002 estimate is 18.8% higher than the estimate recorded for the September quarter 2001.
- The seasonally adjusted estimate for the value of work done for the private sector rose 9.7% in the September quarter 2002. The value of work done for the public sector rose by 5.0%.

### ORIGINAL ESTIMATES

- In original terms, the value of work done in the September quarter 2002 fell 3.8% to \$5,313.2m, but was 20.6% higher than the September quarter 2001.
- The value of work done for the private sector rose 14.5% in the September quarter 2002, while work done for the public sector fell 18.5%.

# NOTES

## FORTHCOMING ISSUES

<i>ISSUE (Quarter)</i>	<i>RELEASE DATE</i>
December 2002	15 April 2003
March 2003	17 July 2003

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## CHANGES IN THIS ISSUE

There are no changes in this issue.

## SIGNIFICANT REVISIONS THIS QUARTER

Estimates for 'Electricity generation, transmission and distribution' have been revised, largely due to work on a public sector project being reported in error as 'for the private sector'. This contributed to the following revisions for this commodity group:

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	<i>March 2002 by private for private</i>	<i>March 2002 by private for public</i>	<i>June 2002 by private for private</i>	<i>June 2002 by private for public</i>
	\$m	\$m	\$m	\$m
Work commenced	-248.1	248.1	30.5	-0.4
Work done	-9.4	9.4	-55.8	53.4
Work yet to be done	-239.2	239.2	-162.5	135.0

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## DATA NOTES

In April 2000, the ABS released an information paper, *ABS Statistics and The New Tax System* (Cat. no. 1358.0), which foreshadowed changes in the statistical infrastructure supporting the compilation of ABS economic series. The changes will allow better use of data available from the taxation system to improve efficiency, coverage and sample design.

This publication presents the last release of estimates from the Engineering Construction Survey compiled using the old infrastructure.

In the next release of this publication, estimates for the latest period will be compiled on the new basis. To facilitate comparisons over time, the historical series in that release will be adjusted so that all estimates are presented on the new basis.

An information paper, *Improvements in ABS Economic Statistics [Arising from The New Tax System]* (Cat. no. 1372.0), was released on 6 May 2002. That paper described the changes in more detail and provided information about the treatment of statistical impacts of the changes across ABS economic series.

It is proposed to include two additional tables in the next issue of this publication which will result in a change to some table numbers.

Dennis Trewin  
Australian Statistician

## LIST OF TABLES

page

### TABLES

<b>1</b>	Value of work done, chain volume measures . . . . .	4
<b>2</b>	Value of work done, chain volume measures, change from previous period . . . . .	5
<b>3</b>	Value of work done . . . . .	6
<b>4</b>	Value of work done, change from previous period . . . . .	7
<b>5</b>	Value of work done, states and territories . . . . .	8
<b>6</b>	Value of work done, states and territories, change from previous period . . . . .	9
<b>7</b>	Activity, states and territories . . . . .	10
<b>8</b>	Activity, states and territories, percentage change . . . . .	11
<b>9</b>	Work commenced by the private sector, by type . . . . .	12
<b>10</b>	Work done by the private sector, by type . . . . .	14
<b>11</b>	Work yet to be done by the private sector, by type . . . . .	16
<b>12</b>	Activity by the public sector, by type . . . . .	18
<b>13</b>	Activity for the public sector, by type . . . . .	20
<b>14</b>	Activity, by type, New South Wales . . . . .	22
<b>15</b>	Activity, by type, Victoria . . . . .	23
<b>16</b>	Activity, by type, Queensland . . . . .	24
<b>17</b>	Activity, by type, South Australia . . . . .	25
<b>18</b>	Activity, by type, Western Australia . . . . .	26
<b>19</b>	Activity, by type, Tasmania . . . . .	27
<b>20</b>	Activity, by type, Northern Territory . . . . .	28
<b>21</b>	Activity, by type, Australian Capital Territory . . . . .	29
<b>22</b>	Value of work done by the private sector, states and territories . . . . .	30
<b>23</b>	Value of work done by the public sector, states and territories . . . . .	31
<b>24</b>	Relative standard errors, Australia, by sector . . . . .	32
<b>25</b>	Relative standard errors, states and territories, by type of work . . . . .	33

## VALUE OF WORK DONE, Chain volume measures(a)

## BY THE PRIVATE SECTOR

Period	For the private sector	For the public sector	Total	By the public sector	Total for the public sector(b)	Total
	\$m	\$m	\$m	\$m	\$m	\$m
ORIGINAL						
<b>1999-00</b>	8 043.1	4 629.6	12 673.5	7 916.2	12 545.8	20 589.8
<b>2000-01</b>	6 682.3	4 255.6	10 937.9	7 206.6	11 462.2	18 144.5
<b>2001-02</b>	8 727.9	3 773.6	12 501.5	7 173.4	10 946.9	19 674.9
<b>2001</b>						
June	1 692.5	1 077.5	2 769.6	2 304.3	3 381.9	5 073.2
September	1 871.4	935.7	2 807.1	1 597.5	2 533.2	4 404.6
December	1 831.0	1 020.4	2 851.5	1 862.2	2 882.6	4 713.6
<b>2002</b>						
March	2 565.8	885.7	3 451.5	1 580.0	2 465.7	5 031.5
June	2 459.8	931.7	3 391.4	2 133.7	3 065.4	5 525.2
September	2 816.1	903.2	3 719.3	1 593.9	2 497.1	5 313.2

## SEASONALLY ADJUSTED

<b>2001</b>						
June	1 708.1	1 005.7	2 712.9	1 927.0	2 932.4	4 639.0
September	1 779.4	974.3	2 753.7	1 865.0	2 839.3	4 618.6
December	1 729.5	1 015.6	2 745.2	1 893.1	2 908.7	4 638.2
<b>2002</b>						
March	2 760.7	911.0	3 671.7	1 630.8	2 541.8	5 302.5
June	2 458.3	872.6	3 331.0	1 784.5	2 657.1	5 115.5
September	2 695.8	932.2	3 628.0	1 858.3	2 790.5	5 486.3

## TREND

<b>2001</b>						
June	1 653.5	1 011.3	2 664.3	1 801.7	2 813.0	4 465.7
September	1 761.8	1 001.8	2 763.3	1 874.6	2 876.4	4 637.7
December	2 036.0	965.5	3 001.5	1 824.4	2 789.8	4 825.8
<b>2002</b>						
March	2 360.8	931.1	3 294.5	1 755.2	2 686.3	5 050.0
June	2 601.4	904.7	3 507.4	1 763.2	2 667.9	5 270.6
September	2 728.1	898.5	3 607.5	1 803.4	2 701.9	5 411.2

- (a) Reference year for chain volume measures is 2000-01. See paragraphs 18-21 of the Explanatory Notes.
- (b) Includes work done by the private sector for the public sector and work done by the public sector.

## BY THE PRIVATE SECTOR

Period	For the private sector	For the public sector	Total	By the public sector	Total for the public sector(b)	Total
	%	%	%	%	%	%

## ORIGINAL

<b>1999-00</b>	-11.5	10.3	-4.5	9.7	10.0	0.5
<b>2000-01</b>	-16.9	-8.1	-13.7	-9.0	-8.6	-11.9
<b>2001-02</b>	30.6	-11.3	14.3	-0.5	-4.5	8.4
<b>2001</b>						
June	11.0	3.4	7.9	51.7	32.1	24.2
September	10.6	-13.2	1.4	-30.7	-25.1	-13.2
December	-2.2	9.0	1.6	16.6	13.8	7.0
<b>2002</b>						
March	40.1	-13.2	21.0	-15.2	-14.5	6.7
June	-4.1	5.2	-1.7	35.0	24.3	9.8
September	14.5	-3.1	9.7	-25.3	-18.5	-3.8

## SEASONALLY ADJUSTED

<b>2001</b>						
June	3.0	-6.0	-0.6	22.7	11.0	7.9
September	4.2	-3.1	1.5	-3.2	-3.2	-0.4
December	-2.8	4.2	-0.3	1.5	2.4	0.4
<b>2002</b>						
March	59.6	-10.3	33.8	-13.9	-12.6	14.3
June	-11.0	-4.2	-9.3	9.4	4.5	-3.5
September	9.7	6.8	8.9	4.1	5.0	7.2

## TREND

<b>2001</b>						
June	-0.8	-2.0	-1.3	4.8	2.2	1.1
September	6.5	-0.9	3.7	4.0	2.3	3.9
December	15.6	-3.6	8.6	-2.7	-3.0	4.1
<b>2002</b>						
March	16.0	-3.6	9.8	-3.8	-3.7	4.6
June	10.2	-2.8	6.5	0.5	-0.7	4.4
September	4.9	-0.7	2.9	2.3	1.3	2.7

(a) Reference year for chain volume measures is 2000-01. See paragraphs 18-21 of the Explanatory Notes.

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

## VALUE OF WORK DONE

## BY THE PRIVATE SECTOR

Period	For the private sector	For the public sector	Total	By the public sector	Total for the public sector(a)	Total
	\$m	\$m	\$m	\$m	\$m	\$m
ORIGINAL						
<b>1999-00</b>	7 786.0	4 468.9	12 254.9	7 652.6	12 121.6	19 907.5
<b>2000-01</b>	6 682.3	4 254.8	10 937.2	7 206.6	11 461.4	18 143.7
<b>2001-02</b>	8 899.0	3 831.7	12 730.7	7 300.6	11 132.3	20 031.3
<b>2001</b>						
June	1 708.3	1 083.5	2 791.8	2 325.2	3 408.7	5 117.0
September	1 897.7	946.3	2 844.0	1 615.7	2 562.0	4 459.8
December	1 863.2	1 028.9	2 892.1	1 889.7	2 918.6	4 781.8
<b>2002</b>						
March	2 611.4	899.2	3 510.7	1 609.5	2 508.8	5 120.2
June	2 526.7	957.2	3 483.9	2 185.7	3 142.9	5 669.6
September	2 933.6	932.4	3 866.0	1 639.0	2 571.5	5 505.1

## SEASONALLY ADJUSTED

<b>2001</b>						
June	1 729.7	1 013.3	2 743.0	1 943.9	2 957.2	4 686.9
September	1 816.7	987.6	2 804.3	1 887.1	2 874.7	4 691.4
December	1 776.8	1 026.7	2 803.4	1 923.0	2 949.6	4 726.4
<b>2002</b>						
March	2 842.7	927.5	3 770.1	1 663.4	2 590.9	5 433.6
June	2 557.3	898.6	3 455.9	1 830.6	2 729.2	5 286.5
September	2 808.6	964.7	3 773.3	1 911.1	2 875.8	5 684.4

## TREND

<b>2001</b>						
June	1 676.2	1 024.7	2 700.9	1 902.4	2 927.1	4 603.3
September	1 797.9	1 009.2	2 807.1	1 901.4	2 910.6	4 708.5
December	2 090.1	978.3	3 068.5	1 838.3	2 816.6	4 906.7
<b>2002</b>						
March	2 435.5	949.7	3 385.2	1 791.6	2 741.2	5 176.7
June	2 698.0	929.7	3 627.7	1 807.5	2 737.2	5 435.2
September	2 860.5	924.6	3 785.1	1 855.4	2 779.9	5 640.4

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

VALUE OF WORK DONE, Change from previous period
 

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 BY THE PRIVATE SECTOR
 

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Period	For the private sector	For the public sector	Total	By the public sector	Total for the public sector(a)	Total
	%	%	%	%	%	%

## ORIGINAL

<b>1999-00</b>	-7.6	13.0	-1.0	12.5	12.7	3.8
<b>2000-01</b>	-14.2	-4.8	-10.8	-5.8	-5.4	-8.9
<b>2001-02</b>	33.2	-9.9	16.4	1.3	-2.9	10.4
<b>2001</b>						
June	11.2	3.3	8.0	52.4	32.4	24.4
September	11.1	-12.7	1.9	-30.5	-24.8	-12.8
December	-1.8	8.7	1.7	17.0	13.9	7.2
<b>2002</b>						
March	40.2	-12.6	21.4	-14.8	-14.0	7.1
June	-3.2	6.4	-0.8	35.8	25.3	10.7
September	16.1	-2.6	11.0	-25.0	-18.2	-2.9

## SEASONALLY ADJUSTED

<b>2001</b>						
June	3.4	-6.1	-0.3	23.2	11.3	8.3
September	5.0	-2.5	2.2	-2.9	-2.8	0.1
December	-2.2	4.0	—	1.9	2.6	0.7
<b>2002</b>						
March	60.0	-9.7	34.5	-13.5	-12.2	15.0
June	-10.0	-3.1	-8.3	10.1	5.3	-2.7
September	9.8	7.4	9.2	4.4	5.4	7.5

## TREND

<b>2001</b>						
June	—	-3.1	-1.2	1.1	-0.4	-0.3
September	7.3	-1.5	3.9	-0.1	-0.6	2.3
December	16.3	-3.1	9.3	-3.3	-3.2	4.2
<b>2002</b>						
March	16.5	-2.9	10.3	-2.5	-2.7	5.5
June	10.8	-2.1	7.2	0.9	-0.1	5.0
September	6.0	-0.6	4.3	2.6	1.6	3.8

— nil or rounded to zero (including null cells)

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

## VALUE OF WORK DONE, States and territories

<i>Period</i>	<i>NSW</i>	<i>Vic.</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas.</i>	<i>NT</i>	<i>ACT</i>	<i>Aust.</i>
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
ORIGINAL									
<b>1999-00</b>	6 231.0	3 451.0	5 221.4	1 424.8	2 775.4	254.0	276.8	273.0	19 907.5
<b>2000-01</b>	6 156.5	3 216.4	4 744.4	1 129.5	2 256.6	264.2	168.3	207.9	18 143.7
<b>2001-02</b>	5 597.6	3 389.0	4 627.5	1 417.4	3 119.3	453.8	1 226.7	199.9	20 031.3
<b>2001</b>									
June	1 746.7	850.6	1 293.1	366.9	660.0	95.6	47.6	56.5	5 117.0
September	1 341.2	710.9	1 149.1	306.4	800.4	42.4	69.6	39.8	4 459.8
December	1 526.9	849.4	1 145.4	355.7	710.4	65.6	73.3	55.1	4 781.8
<b>2002</b>									
March	1 163.4	852.5	1 027.7	369.8	701.2	157.3	800.7	47.5	5 120.2
June	1 566.1	976.2	1 305.3	385.5	907.3	188.5	283.1	57.4	5 669.6
September	1 375.0	983.3	1 342.0	319.9	937.6	109.9	388.2	49.2	5 505.1
SEASONALLY ADJUSTED									
<b>2001</b>									
June	1 525.8	789.8	1 200.5	323.6	617.0	78.4	54.2	50.7	4 686.9
September	1 442.7	770.7	1 184.4	330.6	857.6	55.6	60.3	43.9	4 691.4
December	1 515.9	869.9	1 105.6	355.8	693.2	69.8	64.3	60.7	4 726.4
<b>2002</b>									
March	1 266.9	830.1	1 120.0	393.6	720.3	145.8	969.5	44.3	5 433.6
June	1 368.7	908.2	1 211.8	340.3	849.0	154.1	321.7	51.7	5 286.5
September	1 478.1	1 066.7	1 383.7	344.7	1 004.7	145.1	336.4	54.1	5 684.4
TREND									
<b>2001</b>									
June	1 470.7	787.9	1 158.8	303.7	674.9	69.9	50.0	48.0	4 603.3
September	1 480.4	801.8	1 159.4	338.8	731.8	66.6	60.4	50.4	4 708.5
December	1 420.6	818.9	1 128.1	363.0	743.1	62.7	70.2	51.0	4 906.7
<b>2002</b>									
March	1 371.7	865.1	1 146.8	366.1	765.9	66.5	80.1	51.0	5 176.7
June	1 375.6	934.2	1 227.9	358.7	844.8	75.4	91.7	51.2	5 435.2
September	1 409.9	1 013.3	1 335.7	344.7	967.5	85.0	103.5	51.3	5 640.4



## VALUE OF WORK DONE, States and territories—Change from previous period

<i>Period</i>	<i>NSW</i>	<i>Vic.</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas.</i>	<i>NT</i>	<i>ACT</i>	<i>Aust.</i>
	%	%	%	%	%	%	%	%	%
ORIGINAL									
<b>1999-00</b>	11.3	-11.2	14.1	37.2	-16.0	-3.0	-20.7	59.4	3.8
<b>2000-01</b>	-1.2	-6.8	-9.1	-20.7	-18.7	4.0	-39.2	-23.8	-8.9
<b>2001-02</b>	-9.1	5.4	-2.5	25.5	38.2	71.7	629.1	-3.9	10.4
<b>2001</b>									
June	33.1	3.0	27.0	50.5	19.2	27.4	48.2	10.6	24.4
September	-23.2	-16.4	-11.1	-16.5	21.3	-55.7	46.2	-29.5	-12.8
December	13.8	19.5	-0.3	16.1	-11.2	54.8	5.4	38.2	7.2
<b>2002</b>									
March	-23.8	0.4	-10.3	3.9	-1.3	139.9	992.2	-13.6	7.1
June	34.6	14.5	27.0	4.3	29.4	19.8	-64.6	20.8	10.7
September	-12.2	0.7	2.8	-17.0	3.3	-41.7	37.1	-14.3	-2.9
SEASONALLY ADJUSTED									
<b>2001</b>									
June	6.9	-1.8	8.1	24.9	8.5	12.4	38.7	6.0	8.3
September	-5.4	-2.4	-1.3	2.2	39.0	-29.0	11.2	-13.5	0.1
December	5.1	12.9	-6.7	7.6	-19.2	25.5	6.7	38.4	0.7
<b>2002</b>									
March	-16.4	-4.6	1.3	10.6	3.9	109.0	1 407.6	-27.0	15.0
June	8.0	9.4	8.2	-13.5	17.9	5.6	-66.8	16.6	-2.7
September	8.0	17.4	14.2	1.3	18.3	-5.8	4.5	4.7	7.5
TREND									
<b>2001</b>									
June	-0.2	-0.5	0.3	10.0	15.9	3.9	19.1	1.5	-0.3
September	0.7	1.8	0.1	11.6	8.4	-4.7	20.9	4.9	2.3
December	-4.0	2.1	-2.7	7.2	1.5	-5.9	16.1	1.2	4.2
<b>2002</b>									
March	-3.4	5.6	1.7	0.8	3.1	6.1	14.2	-0.1	5.5
June	0.3	8.0	7.1	-2.0	10.3	13.4	14.4	0.4	5.0
September	2.5	8.5	8.8	-3.9	14.5	12.7	12.9	0.3	3.8

## ACTIVITY, States and territories: Original

<i>Period</i>	<i>NSW</i>	<i>Vic.</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas.</i>	<i>NT</i>	<i>ACT</i>	<i>Aust.</i>
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
VALUE OF WORK COMMENCED DURING PERIOD									
<b>1999-00</b>	6 221.6	3 605.7	5 747.1	1 348.2	3 210.6	260.1	241.2	266.4	20 900.8
<b>2000-01</b>	5 655.2	3 271.8	3 810.7	1 239.1	2 504.0	247.2	166.7	186.3	17 081.0
<b>2001-02</b>	5 530.6	3 490.8	5 071.5	1 628.5	4 682.1	484.3	2 227.4	207.9	23 323.2
<b>2001</b>									
June	1 399.3	868.3	1 047.1	355.0	496.5	64.5	69.0	46.9	4 346.5
September	1 667.9	861.6	1 405.1	394.7	2 091.5	67.2	634.9	53.1	7 175.9
December	1 461.3	828.2	874.2	303.3	539.2	174.6	67.6	48.5	4 296.7
<b>2002</b>									
March	1 172.3	768.3	731.5	454.6	729.1	172.2	1 419.2	48.2	5 495.4
June	1 229.2	1 032.7	2 060.8	476.0	1 322.3	70.4	105.8	58.2	6 355.2
September	2 747.3	1 551.1	2 364.2	324.6	1 426.3	99.0	25.6	38.2	8 576.4
VALUE OF WORK DONE DURING PERIOD									
<b>1999-00</b>	6 231.0	3 451.0	5 221.4	1 424.8	2 775.4	254.0	276.8	273.0	19 907.5
<b>2000-01</b>	6 156.5	3 216.4	4 744.4	1 129.5	2 256.6	264.2	168.3	207.9	18 143.7
<b>2001-02</b>	5 597.6	3 389.0	4 627.5	1 417.4	3 119.3	453.8	1 226.7	199.9	20 031.3
<b>2001</b>									
June	1 746.7	850.6	1 293.1	366.9	660.0	95.6	47.6	56.5	5 117.0
September	1 341.2	710.9	1 149.1	306.4	800.4	42.4	69.6	39.8	4 459.8
December	1 526.9	849.4	1 145.4	355.7	710.4	65.6	73.3	55.1	4 781.8
<b>2002</b>									
March	1 163.4	852.5	1 027.7	369.8	701.2	157.3	800.7	47.5	5 120.2
June	1 566.1	976.2	1 305.3	385.5	907.3	188.5	283.1	57.4	5 669.6
September	1 375.0	983.3	1 342.0	319.9	937.6	109.9	388.2	49.2	5 505.1
VALUE OF WORK YET TO BE DONE									
<b>1999-00</b>	2 129.7	998.4	2 393.1	216.5	796.0	43.4	29.6	58.6	6 665.4
<b>2000-01</b>	1 319.3	1 043.6	2 044.1	337.2	994.5	47.9	73.6	16.4	5 876.4
<b>2001-02</b>	1 261.7	1 292.4	2 732.5	606.1	2 546.7	64.6	1 044.0	30.6	9 578.7
<b>2001</b>									
June	1 319.3	1 043.6	2 044.1	337.2	994.5	47.9	73.6	16.4	5 876.4
September	1 582.5	1 128.5	2 268.1	382.7	2 443.8	50.3	612.5	36.0	8 504.4
December	1 517.0	1 088.1	2 003.5	332.3	2 255.7	160.3	610.0	32.8	7 999.6
<b>2002</b>									
March	1 475.7	1 163.4	2 009.8	468.8	2 286.7	174.9	1 226.0	29.0	8 834.3
June	1 261.7	1 292.4	2 732.5	606.1	2 546.7	64.6	1 044.0	30.6	9 578.7
September	2 591.6	1 888.9	3 771.1	654.6	3 088.9	56.5	670.8	27.0	12 749.6

ACTIVITY, States and territories—Change from previous period: **Original**

<i>Period</i>	<i>NSW</i>	<i>Vic.</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas.</i>	<i>NT</i>	<i>ACT</i>	<i>Aust.</i>
	%	%	%	%	%	%	%	%	%
.....									
VALUE OF WORK COMMENCED DURING PERIOD									
<b>1999-00</b>	5.2	3.7	30.6	13.6	29.5	30.6	-39.6	37.3	14.5
<b>2000-01</b>	-9.1	-9.3	-33.7	-8.1	-22.0	-5.0	-30.9	-30.1	-18.3
<b>2001-02</b>	-2.2	6.7	33.1	31.4	87.0	95.9	1 236.1	11.6	36.5
<b>2001</b>									
June	31.4	15.9	60.6	56.0	-13.4	2.5	191.8	-9.2	27.7
September	19.2	-0.8	34.2	11.2	321.3	4.2	819.6	13.2	65.1
December	-12.4	-3.9	-37.8	-23.2	-74.2	159.9	-89.4	-8.6	-40.1
<b>2002</b>									
March	-19.8	-7.2	-16.3	49.9	35.2	-1.4	1 999.5	-0.6	27.9
June	4.9	34.4	181.7	4.7	81.3	-59.1	-92.5	20.7	15.6
September	123.5	50.2	14.7	-31.8	7.9	40.6	-75.8	-34.3	35.0
.....									
VALUE OF WORK DONE DURING PERIOD									
<b>1999-00</b>	11.3	-11.2	14.1	37.2	-16.0	-3.0	-20.7	59.4	3.8
<b>2000-01</b>	-1.2	-6.8	-9.1	-20.7	-18.7	4.0	-39.2	-23.8	-8.9
<b>2001-02</b>	-9.1	5.4	-2.5	25.5	38.2	71.7	629.1	-3.9	10.4
<b>2001</b>									
June	33.1	3.0	27.0	50.5	19.2	27.4	48.2	10.6	24.4
September	-23.2	-16.4	-11.1	-16.5	21.3	-55.7	46.2	-29.5	-12.8
December	13.8	19.5	-0.3	16.1	-11.2	54.8	5.4	38.2	7.2
<b>2002</b>									
March	-23.8	0.4	-10.3	3.9	-1.3	139.9	992.2	-13.6	7.1
June	34.6	14.5	27.0	4.3	29.4	19.8	-64.6	20.8	10.7
September	-12.2	0.7	2.8	-17.0	3.3	-41.7	37.1	-14.3	-2.9
.....									
VALUE OF WORK YET TO BE DONE									
<b>1999-00</b>	-4.7	9.0	55.6	-50.9	-23.8	36.5	-67.9	19.8	5.0
<b>2000-01</b>	-38.1	4.5	-14.6	55.7	24.9	10.4	148.3	-72.0	-11.8
<b>2001-02</b>	-4.4	23.8	33.7	79.8	156.1	34.8	1 319.2	87.2	63.0
<b>2001</b>									
June	-20.3	0.6	-4.5	-1.8	-12.6	-16.6	167.5	-46.3	-8.6
September	20.0	8.1	11.0	13.5	145.7	5.0	732.7	119.7	44.7
December	-4.1	-3.6	-11.7	-13.2	-7.7	218.6	-0.4	-8.9	-5.9
<b>2002</b>									
March	-2.7	6.9	0.3	41.1	1.4	9.1	101.0	-11.4	10.4
June	-14.5	11.1	36.0	29.3	11.4	-63.1	-14.8	5.5	8.4
September	105.4	46.2	38.0	8.0	21.3	-12.5	-35.7	-12.0	33.1

WORK COMMENCED BY THE PRIVATE SECTOR, By type: **Original**

Period	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
BY THE PRIVATE SECTOR FOR THE PRIVATE SECTOR								
<b>1999-00</b>	1 516.4	32.5	36.1	66.6	169.6	155.5	1 388.6	328.3
<b>2000-01</b>	1 220.0	7.9	70.9	95.3	151.4	132.7	944.7	206.0
<b>2001-02</b>	1 564.5	70.5	575.7	127.2	126.0	208.3	1 327.1	1 241.7
<b>2001</b>								
June	325.8	0.2	39.1	21.6	25.9	33.3	216.4	52.7
September	391.6	34.6	490.7	34.3	36.2	72.5	361.2	37.4
December	355.5	18.4	27.9	8.0	29.0	31.9	294.0	169.3
<b>2002</b>								
March	379.3	3.1	16.0	74.3	*31.1	62.8	292.2	99.4
June	438.2	14.3	41.0	10.7	*29.8	41.2	379.8	935.7
September	468.1	34.6	159.7	95.0	45.5	60.9	249.6	91.2
BY THE PRIVATE SECTOR FOR THE PUBLIC SECTOR								
<b>1999-00</b>	2 415.0	137.1	152.6	56.7	155.7	1 006.7	277.0	36.6
<b>2000-01</b>	1 769.8	139.2	81.6	63.2	237.3	368.4	192.1	20.2
<b>2001-02</b>	1 568.1	165.8	54.8	206.0	107.2	321.3	614.0	11.4
<b>2001</b>								
June	397.3	43.6	11.3	26.6	25.2	135.9	35.4	9.4
September	384.3	69.5	9.3	73.4	12.2	56.1	25.0	3.1
December	405.4	33.2	10.7	31.6	31.3	161.1	202.1	2.0
<b>2002</b>								
March	435.6	*34.3	22.9	68.0	21.2	49.5	299.4	5.9
June	342.9	*28.8	11.9	33.0	42.6	54.6	87.5	*0.5
September	282.0	*31.0	1 477.1	*26.4	*15.8	200.6	18.6	**0.1
TOTAL BY THE PRIVATE SECTOR								
<b>1999-00</b>	3 931.5	169.7	188.7	123.2	325.3	1 162.3	1 665.7	364.9
<b>2000-01</b>	2 989.8	147.1	152.4	158.6	388.8	501.1	1 136.8	226.2
<b>2001-02</b>	3 132.6	236.3	630.5	333.3	233.2	529.6	1 941.1	1 253.1
<b>2001</b>								
June	723.1	43.8	50.4	48.2	51.1	169.1	251.8	62.1
September	775.8	104.2	500.1	107.6	48.3	128.6	386.2	40.4
December	760.8	51.6	38.6	39.6	60.3	193.0	496.0	171.3
<b>2002</b>								
March	814.9	37.4	38.9	142.2	52.3	112.3	591.6	105.3
June	781.1	*43.1	52.9	43.8	72.3	95.7	467.3	936.1
September	750.1	65.6	1 636.8	121.4	61.4	261.6	268.2	91.3

\* estimate has a relative standard error of between 25% and 50% and should be used with caution

\*\* estimate has a relative standard error greater than 50% and is considered too unreliable for general use

WORK COMMENCED BY THE PRIVATE SECTOR, By type: **Original** *continued*

Period	Recreation	Telecom- munications	Oil, gas, coal and other minerals	Other heavy industry	Other	Total
	\$m	\$m	\$m	\$m	\$m	\$m
BY THE PRIVATE SECTOR FOR THE PRIVATE SECTOR						
<b>1999-00</b>	697.6	267.1	2 485.4	333.8	127.9	7 605.5
<b>2000-01</b>	695.3	698.8	1 566.4	417.6	123.6	6 330.6
<b>2001-02</b>	786.9	295.7	5 878.6	254.6	194.9	12 651.7
<b>2001</b>						
June	202.5	77.6	376.4	67.0	46.3	1 484.7
September	183.1	104.5	1 939.8	66.1	56.4	3 808.3
December	183.3	91.1	445.3	56.0	36.4	1 746.1
<b>2002</b>						
March	198.6	64.1	1 802.2	58.3	*53.4	3 134.7
June	221.9	36.0	1 691.4	74.1	*48.6	3 962.6
September	275.6	29.2	2 014.3	103.1	*70.0	3 697.0
BY THE PRIVATE SECTOR FOR THE PUBLIC SECTOR						
<b>1999-00</b>	173.7	185.0	21.0	7.0	20.5	4 644.6
<b>2000-01</b>	133.3	567.9	19.9	8.2	35.2	3 636.3
<b>2001-02</b>	136.3	190.5	2.6	0.3	41.8	3 420.1
<b>2001</b>						
June	47.1	53.4	18.7	0.5	13.3	817.6
September	21.2	59.2	0.5	0.1	15.6	729.5
December	24.7	47.0	1.5	0.1	11.5	962.1
<b>2002</b>						
March	*36.1	51.5	*0.4	—	5.2	1 029.9
June	*54.2	32.9	0.1	0.1	9.5	698.6
September	*43.8	50.8	**0.1	**0.1	1.5	2 147.9
TOTAL BY THE PRIVATE SECTOR						
<b>1999-00</b>	871.3	452.1	2 506.3	340.8	148.4	12 250.1
<b>2000-01</b>	828.6	1 266.7	1 586.2	425.7	158.8	9 966.9
<b>2001-02</b>	923.1	486.3	5 881.2	254.8	236.6	16 071.8
<b>2001</b>						
June	249.5	131.0	395.1	67.5	59.6	2 302.2
September	204.4	163.8	1 940.3	66.2	72.0	4 537.8
December	208.0	138.1	446.8	56.1	47.9	2 708.2
<b>2002</b>						
March	234.7	115.6	1 802.6	58.3	*58.6	4 164.6
June	276.1	68.9	1 691.5	74.2	*58.1	4 661.2
September	319.4	80.0	2 014.4	103.2	*71.5	5 844.9

\* estimate has a relative standard error of between 25% and 50% and should be used with caution

\*\* estimate has a relative standard error greater than 50% and is considered too unreliable for general use

— nil or rounded to zero (including null cells)

Period	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
BY THE PRIVATE SECTOR FOR THE PRIVATE SECTOR								
<b>1999-00</b>	1 704.5	103.4	153.4	79.3	170.9	149.2	1 349.1	411.5
<b>2000-01</b>	1 272.1	12.6	90.4	88.8	183.9	190.3	1 451.0	235.7
<b>2001-02</b>	1 544.7	32.8	269.7	102.8	141.2	155.5	1 349.2	500.2
<b>2001</b>								
June	328.1	0.9	17.8	29.7	60.7	32.5	343.7	60.3
September	364.2	1.2	32.0	43.3	35.5	31.1	345.0	36.7
December	361.7	4.2	44.7	19.3	34.4	35.2	391.2	42.7
<b>2002</b>								
March	368.4	9.2	81.3	17.1	34.7	40.1	321.6	139.0
June	450.5	18.3	111.7	23.1	*36.6	49.1	291.4	281.8
September	479.8	18.6	116.7	24.9	33.1	64.5	291.7	210.9
BY THE PRIVATE SECTOR FOR THE PUBLIC SECTOR								
<b>1999-00</b>	2 378.2	269.6	163.5	71.6	229.8	624.6	275.2	21.6
<b>2000-01</b>	2 331.8	219.7	106.0	69.6	194.5	541.5	249.5	27.1
<b>2001-02</b>	1 949.8	176.3	63.6	152.6	211.7	340.7	353.3	16.3
<b>2001</b>								
June	598.0	56.5	24.3	29.0	52.3	99.1	44.4	9.1
September	482.5	44.7	19.8	42.0	51.4	82.7	47.1	5.2
December	541.6	44.2	10.2	39.2	51.9	80.3	127.1	3.2
<b>2002</b>								
March	462.8	37.8	14.9	33.7	55.3	80.5	75.6	6.7
June	463.0	49.6	18.7	37.7	53.1	97.3	103.5	1.1
September	407.1	40.2	24.1	55.0	22.1	101.7	138.0	*0.1
TOTAL BY THE PRIVATE SECTOR								
<b>1999-00</b>	4 082.7	373.0	316.9	150.9	400.7	773.8	1 624.3	433.1
<b>2000-01</b>	3 603.8	232.4	196.4	158.4	378.4	731.8	1 700.5	262.8
<b>2001-02</b>	3 494.5	209.1	333.3	255.4	352.8	496.2	1 702.5	516.5
<b>2001</b>								
June	926.1	57.3	42.1	58.8	113.0	131.5	388.1	69.4
September	846.7	45.9	51.8	85.3	86.8	113.8	392.1	41.9
December	903.2	48.3	54.9	58.5	86.3	115.5	518.3	45.9
<b>2002</b>								
March	831.2	47.0	96.2	50.9	90.0	120.5	397.2	145.8
June	913.5	67.9	130.3	60.8	89.7	146.4	394.9	282.9
September	886.9	58.8	140.8	79.9	55.2	166.1	429.8	211.0

\* estimate has a relative standard error of between 25% and 50% and should be used with caution

Period	Recreation	Telecom- munications	Oil, gas, coal and other minerals	Other heavy industry	Other	Total
	\$m	\$m	\$m	\$m	\$m	\$m
BY THE PRIVATE SECTOR FOR THE PRIVATE SECTOR						
<b>1999-00</b>	695.9	350.1	2 149.8	333.9	134.9	7 786.0
<b>2000-01</b>	713.6	624.2	1 411.4	284.9	123.4	6 682.3
<b>2001-02</b>	779.6	362.1	3 105.7	364.9	190.6	8 899.0
<b>2001</b>						
June	205.9	113.4	396.5	79.1	39.7	1 708.3
September	186.6	79.3	598.8	100.2	43.9	1 897.7
December	188.6	87.9	514.3	96.7	42.4	1 863.2
<b>2002</b>						
March	194.6	119.5	1 153.6	79.8	*52.6	2 611.4
June	209.8	75.4	839.1	88.3	*51.7	2 526.7
September	264.6	92.9	1 194.0	72.3	*69.8	2 933.6

BY THE PRIVATE SECTOR FOR THE PUBLIC SECTOR						
<b>1999-00</b>	214.5	131.8	45.8	14.4	28.2	4 468.9
<b>2000-01</b>	145.5	261.5	52.3	17.4	38.4	4 254.8
<b>2001-02</b>	172.4	320.5	33.2	0.8	40.5	3 831.7
<b>2001</b>						
June	45.3	87.2	21.4	3.1	13.9	1 083.5
September	32.3	107.6	13.9	0.5	16.7	946.3
December	29.1	81.5	12.1	0.1	8.3	1 028.9
<b>2002</b>						
March	46.7	72.5	4.9	0.1	7.6	899.2
June	*64.2	58.9	2.2	0.1	7.8	957.2
September	50.7	89.7	**0.1	**0.1	3.5	932.4

TOTAL BY THE PRIVATE SECTOR						
<b>1999-00</b>	910.4	482.0	2 195.6	348.3	163.1	12 254.9
<b>2000-01</b>	859.2	885.7	1 463.7	302.3	161.7	10 937.2
<b>2001-02</b>	952.0	682.6	3 138.8	365.7	231.1	12 730.7
<b>2001</b>						
June	251.2	200.6	417.9	82.2	53.6	2 791.8
September	218.9	186.9	612.7	100.7	60.7	2 844.0
December	217.7	169.4	526.4	96.8	50.7	2 892.1
<b>2002</b>						
March	241.3	192.0	1 158.5	79.9	60.1	3 510.7
June	274.1	134.3	841.2	88.4	*59.6	3 483.9
September	315.2	182.6	1 194.0	72.4	*73.3	3 866.0

\* estimate has a relative standard error of between 25% and 50% and should be used with caution

\*\* estimate has a relative standard error greater than 50% and is considered too unreliable for general use

Period	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines	Recreation
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
BY THE PRIVATE SECTOR FOR THE PRIVATE SECTOR									
<b>1999-00</b>	270.7	3.1	53.1	18.1	11.0	43.2	659.7	35.1	57.3
<b>2000-01</b>	206.4	0.2	52.1	30.6	16.5	16.1	457.6	16.0	34.8
<b>2001-02</b>	270.6	36.5	339.2	51.3	9.3	73.0	572.2	826.0	45.5
<b>2001</b>									
June	206.4	0.2	52.1	30.6	16.5	16.1	457.6	16.0	34.8
September	251.1	33.7	485.9	17.1	17.7	53.9	445.2	17.1	30.1
December	263.0	47.8	471.3	7.4	29.4	52.3	289.8	143.2	22.1
<b>2002</b>									
March	288.3	41.6	405.9	63.4	32.3	84.3	457.1	155.5	29.0
June	270.6	36.5	339.2	51.3	9.3	73.0	572.2	826.0	45.5
September	319.7	48.4	376.7	123.6	23.8	86.9	553.2	710.0	50.8
BY THE PRIVATE SECTOR FOR THE PUBLIC SECTOR									
<b>1999-00</b>	1 721.0	110.9	78.8	15.9	102.6	442.5	119.0	12.4	38.2
<b>2000-01</b>	1 157.4	67.0	26.4	22.1	153.5	148.0	90.6	6.4	26.6
<b>2001-02</b>	766.6	57.4	26.2	88.2	46.8	149.9	345.2	—	13.1
<b>2001</b>									
June	1 157.4	67.0	26.4	22.1	153.5	148.0	90.6	6.4	26.6
September	1 089.7	82.3	15.7	53.8	116.2	135.9	74.9	2.8	17.3
December	997.4	82.5	23.7	60.8	97.2	216.2	148.1	1.5	15.5
<b>2002</b>									
March	987.4	79.1	33.5	96.1	58.8	180.3	397.7	0.7	*8.3
June	766.6	57.4	26.2	88.2	46.8	149.9	345.2	—	*13.1
September	633.3	50.0	1 484.5	65.5	44.4	244.8	246.1	—	*6.6
TOTAL BY THE PRIVATE SECTOR									
<b>1999-00</b>	1 991.7	114.0	131.9	34.0	113.6	485.7	778.6	47.5	95.5
<b>2000-01</b>	1 363.8	67.1	78.5	52.7	170.0	164.2	548.1	22.3	61.4
<b>2001-02</b>	1 037.2	93.9	365.5	139.5	56.1	222.9	917.4	826.0	58.5
<b>2001</b>									
June	1 363.8	67.1	78.5	52.7	170.0	164.2	548.1	22.3	61.4
September	1 340.8	116.0	501.6	70.9	133.9	189.8	520.1	19.9	47.4
December	1 260.4	130.3	495.0	68.3	126.6	268.5	437.9	144.7	37.6
<b>2002</b>									
March	1 275.7	120.7	439.4	159.6	91.1	264.6	854.8	156.2	37.3
June	1 037.2	93.9	365.5	139.5	56.1	222.9	917.4	826.0	58.5
September	953.0	98.4	1 861.2	189.1	68.2	331.7	799.3	710.0	57.4

— nil or rounded to zero (including null cells)

\* estimate has a relative standard error of between 25% and 50% and should be used with caution



Period	Telecom-	Oil, gas, coal	Other	Other	Total
	munications	and other minerals	heavy industry		
	\$m	\$m	\$m	\$m	\$m

## BY THE PRIVATE SECTOR FOR THE PRIVATE SECTOR

<b>1999-00</b>	206.1	784.1	118.9	3.6	2 263.9
<b>2000-01</b>	263.6	757.6	200.3	17.6	2 069.4
<b>2001-02</b>	114.0	3 740.8	109.5	8.9	6 196.7
<b>2001</b>					
June	263.6	757.6	200.3	17.6	2 069.4
September	295.5	2 316.8	172.1	29.5	4 165.9
December	279.1	2 235.8	135.1	13.0	3 989.4
<b>2002</b>					
March	165.9	2 871.0	115.7	17.7	4 727.5
June	114.0	3 740.8	109.5	8.9	6 196.7
September	52.8	4 651.5	126.3	6.4	7 130.0

## BY THE PRIVATE SECTOR FOR THE PUBLIC SECTOR

<b>1999-00</b>	22.3	61.4	0.1	2.3	2 727.3
<b>2000-01</b>	490.8	28.6	0.5	6.3	2 224.1
<b>2001-02</b>	413.4	—	—	7.4	1 914.4
<b>2001</b>					
June	490.8	28.6	0.5	6.3	2 224.1
September	339.2	15.2	0.1	5.5	1 948.5
December	285.0	4.6	0.1	8.8	1 941.4
<b>2002</b>					
March	266.4	0.2	—	5.1	2 113.7
June	413.4	—	—	7.4	1 914.4
September	374.4	—	—	5.9	3 155.5

## TOTAL BY THE PRIVATE SECTOR

<b>1999-00</b>	228.4	845.5	118.9	5.9	4 991.3
<b>2000-01</b>	754.4	786.2	200.8	23.9	4 293.5
<b>2001-02</b>	527.4	3 740.8	109.5	16.4	8 111.1
<b>2001</b>					
June	754.4	786.2	200.8	23.9	4 293.5
September	634.7	2 332.0	172.2	35.0	6 114.5
December	564.2	2 240.3	135.2	21.9	5 930.7
<b>2002</b>					
March	432.3	2 871.2	115.7	22.8	6 841.3
June	527.4	3 740.8	109.5	16.4	8 111.1
September	427.2	4 651.5	126.3	12.3	10 285.5

— nil or rounded to zero (including null cells)

Period	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
.....								
VALUE OF WORK COMMENCED DURING PERIOD								
<b>1999-00</b>	1 824.9	98.2	639.6	18.1	483.6	303.4	1 631.6	30.3
<b>2000-01</b>	1 672.2	88.3	495.7	34.5	311.7	271.2	1 061.8	25.2
<b>2001-02</b>	1 835.4	113.2	480.5	58.8	341.0	297.6	1 141.7	28.1
<b>2001</b>								
June	430.4	24.8	174.5	9.1	91.6	63.6	253.9	7.8
September	690.2	55.1	387.2	14.5	82.2	168.5	537.7	6.7
December	389.3	14.7	70.2	11.9	91.1	59.5	195.6	8.3
<b>2002</b>								
March	387.6	17.9	9.5	17.6	74.6	37.1	153.3	4.6
June	368.2	25.4	13.5	14.8	*93.1	32.6	255.1	8.6
September	737.4	49.7	326.2	20.8	127.7	206.6	561.1	*10.1
.....								
VALUE OF WORK DONE DURING PERIOD								
<b>1999-00</b>	1 790.7	88.6	453.8	16.1	321.2	297.7	1 068.3	28.9
<b>2000-01</b>	1 662.6	99.0	411.7	40.1	247.8	246.4	1 301.9	24.5
<b>2001-02</b>	1 685.2	117.1	533.9	64.6	239.9	233.4	1 418.9	31.4
<b>2001</b>								
June	570.7	43.2	118.3	9.5	94.9	82.4	379.7	7.8
September	341.7	30.6	107.8	18.4	61.7	45.4	363.1	3.5
December	435.4	26.8	145.1	11.0	60.6	64.6	359.0	8.2
<b>2002</b>								
March	407.3	27.6	114.7	19.9	46.3	64.0	280.4	6.9
June	500.8	32.1	166.4	15.3	71.3	59.4	416.3	12.8
September	377.7	21.0	129.8	16.2	59.7	47.9	363.0	4.3
.....								
VALUE OF WORK YET TO BE DONE								
<b>1999-00</b>	307.3	19.9	343.8	3.2	219.2	127.0	584.3	1.2
<b>2000-01</b>	259.3	23.9	299.2	0.4	294.4	88.6	566.5	—
<b>2001-02</b>	238.5	21.2	246.1	1.4	342.6	123.7	453.6	6.4
<b>2001</b>								
June	259.3	23.9	299.2	0.4	294.4	88.6	566.5	—
September	529.6	47.8	578.2	2.0	234.9	205.5	688.9	13.9
December	469.7	37.3	504.1	3.9	255.2	187.2	518.7	10.6
<b>2002</b>								
March	410.6	25.7	399.2	**5.5	306.1	154.8	622.8	10.1
June	238.5	*21.2	246.1	1.4	342.6	123.7	453.6	6.4
September	585.0	47.8	443.2	6.4	368.5	253.4	641.2	*12.1

\* estimate has a relative standard error of between 25% and 50% and should be used with caution

— nil or rounded to zero (including null cells)

\*\* estimate has a relative standard error greater than 50% and is considered too unreliable for general use

Period	Recreation	Telecom- munications	Oil, gas, coal and other minerals	Other heavy industry	Other	Total
	\$m	\$m	\$m	\$m	\$m	\$m
.....						
VALUE OF WORK COMMENCED DURING PERIOD						
<b>1999-00</b>	165.4	3 413.8	—	38.7	3.1	8 650.7
<b>2000-01</b>	150.7	2 999.0	—	—	3.8	7 114.1
<b>2001-02</b>	166.1	2 786.9	0.7	—	1.6	7 251.4
<b>2001</b>						
June	38.1	950.2	—	—	0.1	2 044.2
September	84.1	611.0	—	—	0.8	2 638.0
December	32.0	715.2	—	—	0.7	1 588.5
<b>2002</b>						
March	26.2	602.4	—	—	—	1 330.8
June	23.9	858.2	0.7	—	—	1 694.0
September	108.2	582.0	1.4	—	0.3	2 731.5
.....						
VALUE OF WORK DONE DURING PERIOD						
<b>1999-00</b>	163.0	3 415.9	—	4.3	4.0	7 652.6
<b>2000-01</b>	151.7	2 997.7	—	19.4	3.9	7 206.6
<b>2001-02</b>	189.4	2 784.8	0.7	—	1.2	7 300.6
<b>2001</b>						
June	56.0	962.2	—	—	0.5	2 325.2
September	38.9	604.2	—	—	0.3	1 615.7
December	64.0	714.4	—	—	0.7	1 889.7
<b>2002</b>						
March	36.8	605.7	—	—	—	1 609.5
June	49.8	860.5	0.7	—	0.1	2 185.7
September	40.7	576.1	1.4	—	1.4	1 639.0
.....						
VALUE OF WORK YET TO BE DONE						
<b>1999-00</b>	31.9	1.6	—	34.5	0.2	1 674.1
<b>2000-01</b>	46.9	3.4	—	—	—	1 582.9
<b>2001-02</b>	30.1	4.0	—	—	—	1 467.6
<b>2001</b>						
June	46.9	3.4	—	—	—	1 582.9
September	78.8	9.7	—	—	0.5	2 389.9
December	71.1	10.6	—	—	0.5	2 068.9
<b>2002</b>						
March	51.1	7.1	—	—	0.1	1 993.0
June	30.1	4.0	—	—	—	1 467.6
September	94.9	10.0	—	—	1.6	2 464.0

— nil or rounded to zero (including null cells)

Period	Roads, highways and subdivisions	Bridges	Railways	Harbours	Water storage and supply	Sewerage and drainage	Electricity generation, transmission and distribution	Pipelines
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
VALUE OF WORK COMMENCED DURING PERIOD								
<b>1999-00</b>	4 239.9	235.4	792.2	74.8	639.3	1 310.1	1 908.6	66.9
<b>2000-01</b>	3 442.0	227.5	577.2	97.8	549.1	639.6	1 253.9	45.3
<b>2001-02</b>	3 403.5	279.0	535.3	264.8	448.2	618.9	1 755.6	39.5
<b>2001</b>								
June	827.8	68.4	185.8	35.8	116.8	199.5	289.3	17.2
September	1 074.5	124.7	396.5	87.9	94.4	224.6	562.7	9.7
December	794.6	48.0	80.9	43.6	122.4	220.6	397.7	10.3
<b>2002</b>								
March	823.2	52.1	32.4	85.5	95.8	86.6	452.7	10.4
June	711.1	54.2	25.4	47.8	*135.6	87.1	342.6	9.0
September	1 019.5	80.7	1 803.3	47.2	143.6	407.2	579.6	*10.2
VALUE OF WORK DONE DURING PERIOD								
<b>1999-00</b>	4 168.9	358.2	617.4	87.7	551.1	922.3	1 343.5	50.5
<b>2000-01</b>	3 994.4	318.7	517.7	109.6	442.2	787.9	1 551.4	51.7
<b>2001-02</b>	3 635.0	293.4	597.5	217.2	451.6	574.1	1 772.2	47.7
<b>2001</b>								
June	1 168.7	99.7	142.6	38.6	147.2	181.5	424.1	16.9
September	824.2	75.3	127.6	60.4	113.1	128.1	410.2	8.7
December	976.9	71.0	155.3	50.2	112.5	144.8	486.1	11.4
<b>2002</b>								
March	870.1	65.4	129.6	53.6	101.6	144.5	356.0	13.6
June	963.8	81.8	185.0	53.0	124.4	156.7	519.9	14.0
September	784.8	61.2	153.9	71.2	81.8	149.5	501.0	4.5
VALUE OF WORK YET TO BE DONE								
<b>1999-00</b>	2 028.2	130.7	422.7	19.1	321.7	569.5	703.3	13.6
<b>2000-01</b>	1 416.7	90.9	325.6	22.5	447.9	236.7	657.1	6.4
<b>2001-02</b>	1 005.1	78.6	272.3	89.7	389.4	273.7	798.8	6.4
<b>2001</b>								
June	1 416.7	90.9	325.6	22.5	447.9	236.7	657.1	6.4
September	1 619.3	130.1	593.9	55.8	351.1	341.4	763.8	16.7
December	1 467.1	119.8	527.8	64.8	352.3	403.3	666.8	12.1
<b>2002</b>								
March	1 398.0	104.8	432.8	101.6	364.9	335.1	1 020.5	10.7
June	1 005.1	78.6	272.3	89.7	389.4	273.7	798.8	6.4
September	1 218.3	97.8	1 927.8	71.9	412.9	498.2	887.3	*12.1

\* estimate has a relative standard error of between 25% and 50% and should be used with caution

Period	Oil, gas, coal and other minerals heavy industry					Total
	Recreation	Telecom- munications	Oil, gas, coal and other minerals	Other heavy industry	Other	
	\$m	\$m	\$m	\$m	\$m	\$m
.....						
VALUE OF WORK COMMENCED DURING PERIOD						
<b>1999-00</b>	339.1	3 598.7	21.0	45.6	23.7	13 295.3
<b>2000-01</b>	284.1	3 566.9	19.9	8.2	39.0	10 750.4
<b>2001-02</b>	302.4	2 977.5	3.2	0.3	43.4	10 671.5
<b>2001</b>						
June	85.1	1 003.6	18.7	0.5	13.4	2 861.8
September	105.3	670.3	0.5	0.1	16.4	3 367.6
December	56.7	762.2	1.5	0.1	12.2	2 550.7
<b>2002</b>						
March	62.3	653.9	*0.4	—	5.2	2 360.7
June	78.1	891.1	0.8	0.1	9.5	2 392.6
September	152.0	632.8	1.4	**0.1	1.8	4 879.4
.....						
VALUE OF WORK DONE DURING PERIOD						
<b>1999-00</b>	377.5	3 547.8	45.8	18.7	32.2	12 121.6
<b>2000-01</b>	297.2	3 259.2	52.3	36.8	42.2	11 461.4
<b>2001-02</b>	361.8	3 105.3	33.8	0.8	41.7	11 132.3
<b>2001</b>						
June	101.3	1 049.4	21.4	3.1	14.4	3 408.7
September	71.2	711.8	13.9	0.5	17.1	2 562.0
December	93.1	795.9	12.1	0.1	9.1	2 918.6
<b>2002</b>						
March	83.5	678.2	4.9	0.1	7.6	2 508.8
June	114.0	919.4	2.8	0.1	7.9	3 142.9
September	91.4	665.7	1.4	**0.1	5.0	2 571.5
.....						
VALUE OF WORK YET TO BE DONE						
<b>1999-00</b>	70.1	24.0	61.4	34.5	2.6	4 401.4
<b>2000-01</b>	73.5	494.3	28.6	0.5	6.3	3 807.1
<b>2001-02</b>	43.2	417.4	—	—	7.4	3 382.1
<b>2001</b>						
June	73.5	494.3	28.6	0.5	6.3	3 807.1
September	96.1	348.9	15.2	0.1	6.0	4 338.5
December	86.6	295.6	4.6	0.1	9.3	4 010.2
<b>2002</b>						
March	59.4	273.5	0.2	—	5.2	4 106.8
June	43.2	417.4	—	—	7.4	3 382.1
September	101.5	384.4	—	—	7.5	5 619.6

\* estimate has a relative standard error of between 25% and 50% and should be used with caution

\*\* estimate has a relative standard error greater than 50% and is considered too unreliable for general use

— nil or rounded to zero (including null cells)

Period	Roads, highways and subdivisions	Bridges, railways and harbours	Electricity generation, transmission etc. and pipelines	Water storage and supply, sewerage and drainage	Telecom- munications	Heavy industry	Recreation and other	Total
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
VALUE OF WORK COMMENCED DURING PERIOD								
<b>1999-00</b>	1 963.2	459.8	948.9	794.0	1 379.2	346.7	329.8	6 221.6
<b>2000-01</b>	1 409.5	573.8	804.3	465.3	1 715.4	413.1	273.8	5 655.2
<b>2001-02</b>	1 672.7	592.5	1 000.6	417.6	1 190.2	408.0	249.0	5 530.6
<b>2001</b>								
June	390.3	86.1	227.0	163.3	405.5	45.2	81.9	1 399.3
September	377.2	385.1	306.2	98.8	297.1	110.7	92.9	1 667.9
December	396.3	102.2	268.7	170.1	347.1	129.6	47.2	1 461.3
<b>2002</b>								
March	468.2	46.6	201.5	76.2	237.3	94.1	48.3	1 172.3
June	431.1	58.6	224.2	72.5	308.7	73.5	60.6	1 229.2
September	477.3	1 253.4	316.2	287.5	238.0	91.5	83.3	2 747.3
VALUE OF WORK DONE DURING PERIOD								
<b>1999-00</b>	2 015.8	489.0	1 023.2	586.3	1 456.2	293.2	367.3	6 231.0
<b>2000-01</b>	1 949.3	489.9	900.1	610.8	1 617.4	308.8	280.2	6 156.5
<b>2001-02</b>	1 752.2	607.1	920.9	433.7	1 235.9	392.8	254.9	5 597.6
<b>2001</b>								
June	555.5	159.7	230.0	165.0	445.7	99.2	91.6	1 746.7
September	406.7	150.9	207.1	109.6	294.1	94.7	78.1	1 341.2
December	493.9	156.4	284.6	104.1	329.7	104.0	54.3	1 526.9
<b>2002</b>								
March	378.6	123.1	165.4	89.3	275.1	82.6	49.3	1 163.4
June	473.0	176.7	263.8	130.6	337.1	111.6	73.1	1 566.1
September	473.9	128.4	215.8	119.7	275.4	102.3	*59.6	1 375.0
VALUE OF WORK YET TO BE DONE								
<b>1999-00</b>	1 008.0	112.8	163.8	571.7	48.3	179.9	45.3	2 129.7
<b>2000-01</b>	441.1	79.2	102.8	324.4	196.7	145.6	29.5	1 319.3
<b>2001-02</b>	369.1	61.2	150.5	245.0	185.4	233.7	16.8	1 261.7
<b>2001</b>								
June	441.1	79.2	102.8	324.4	196.7	145.6	29.5	1 319.3
September	408.5	308.8	194.3	222.5	193.5	212.0	42.8	1 582.5
December	318.0	255.9	151.8	312.8	209.2	239.1	30.2	1 517.0
<b>2002</b>								
March	378.1	179.4	187.1	299.0	143.6	254.4	34.1	1 475.7
June	369.1	61.2	150.5	245.0	185.4	233.7	16.8	1 261.7
September	374.5	1 185.5	256.1	365.2	149.9	226.7	33.7	2 591.6

\* estimate has a relative standard error of between 25% and 50% and should be used with caution

<i>Period</i>	<i>Roads, highways and subdivisions</i>	<i>Bridges, railways and harbours</i>	<i>Electricity generation, transmission etc. and pipelines</i>	<i>Water storage and supply, sewerage and drainage</i>	<i>Telecom- munications</i>	<i>Heavy industry</i>	<i>Recreation and other</i>	<i>Total</i>
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
VALUE OF WORK COMMENCED DURING PERIOD								
<b>1999-00</b>	857.9	159.6	849.5	535.5	766.5	225.6	211.1	3 605.7
<b>2000-01</b>	815.5	66.5	727.5	220.8	1 017.7	152.3	271.6	3 271.8
<b>2001-02</b>	836.5	105.6	941.5	160.7	721.9	405.5	319.2	3 490.8
<b>2001</b>								
June	299.5	12.1	160.8	54.4	228.9	26.4	86.2	868.3
September	232.2	53.7	251.8	35.6	175.7	45.4	67.4	861.6
December	197.6	9.0	265.3	35.8	172.2	88.2	60.1	828.2
<b>2002</b>								
March	223.0	17.0	178.4	41.1	161.7	53.6	93.5	768.3
June	183.6	25.8	245.9	*48.3	212.3	218.4	98.3	1 032.7
September	200.0	600.7	232.5	*44.9	163.4	148.4	161.1	1 551.1
VALUE OF WORK DONE DURING PERIOD								
<b>1999-00</b>	882.8	244.5	815.2	395.5	759.0	139.3	214.6	3 451.0
<b>2000-01</b>	758.5	132.2	833.0	223.8	849.8	162.3	256.8	3 216.4
<b>2001-02</b>	997.4	108.7	785.6	178.9	760.8	221.5	336.1	3 389.0
<b>2001</b>								
June	230.4	17.4	180.5	45.9	259.2	41.3	75.8	850.6
September	220.1	17.0	178.9	31.6	161.7	33.1	68.5	710.9
December	249.6	25.6	228.0	37.2	188.4	46.9	73.7	849.4
<b>2002</b>								
March	251.1	30.7	175.4	*54.3	187.9	60.0	93.0	852.5
June	276.5	35.4	203.3	*55.9	222.8	81.5	100.9	976.2
September	234.1	31.3	261.5	*44.3	186.1	83.8	142.2	983.3
VALUE OF WORK YET TO BE DONE								
<b>1999-00</b>	324.8	76.4	239.3	108.3	93.8	138.5	17.2	998.4
<b>2000-01</b>	387.9	22.2	180.6	59.7	246.8	101.7	44.7	1 043.6
<b>2001-02</b>	284.8	35.0	385.4	55.1	150.4	359.0	22.8	1 292.4
<b>2001</b>								
June	387.9	22.2	180.6	59.7	246.8	101.7	44.7	1 043.6
September	428.2	59.7	248.7	69.6	169.0	112.8	40.6	1 128.5
December	392.4	59.1	250.4	60.9	131.9	159.7	33.8	1 088.1
<b>2002</b>								
March	372.2	45.5	388.8	64.5	90.4	174.2	27.9	1 163.4
June	284.8	35.0	385.4	55.1	150.4	359.0	22.8	1 292.4
September	269.4	615.4	368.3	58.6	129.9	413.7	*33.7	1 888.9

\* estimate has a relative standard error of between 25% and 50% and should be used with caution

<i>Period</i>	<i>Roads, highways and subdivisions</i>	<i>Bridges, railways and harbours</i>	<i>Electricity generation, transmission etc. and pipelines</i>	<i>Water storage and supply, sewerage and drainage</i>	<i>Telecom- munications</i>	<i>Heavy industry</i>	<i>Recreation and other</i>	<i>Total</i>
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
.....								
VALUE OF WORK COMMENCED DURING PERIOD								
<b>1999-00</b>	1 558.6	445.6	1 436.0	395.1	1 008.7	591.9	311.2	5 747.1
<b>2000-01</b>	977.6	257.5	598.7	479.7	720.7	503.9	272.6	3 810.7
<b>2001-02</b>	1 127.3	324.1	508.2	540.8	601.5	1 613.5	356.0	5 071.5
<b>2001</b>								
June	205.1	168.3	97.4	107.4	232.8	157.0	79.2	1 047.1
September	362.5	126.7	283.3	187.9	129.5	221.6	93.7	1 405.1
December	306.3	49.7	98.3	142.1	147.9	65.3	64.5	874.2
<b>2002</b>								
March	221.7	106.7	50.0	96.6	128.9	44.5	83.2	731.5
June	236.9	41.1	76.6	*114.2	195.2	1 282.2	114.5	2 060.8
September	431.8	54.7	269.3	242.3	115.9	1 096.0	154.2	2 364.2
.....								
VALUE OF WORK DONE								
<b>1999-00</b>	1 582.5	425.5	661.9	359.1	987.9	904.3	300.2	5 221.4
<b>2000-01</b>	1 268.8	342.7	1 231.1	439.6	730.1	435.8	296.4	4 744.4
<b>2001-02</b>	1 122.0	349.4	1 126.1	405.3	623.0	650.6	351.1	4 627.5
<b>2001</b>								
June	309.8	73.4	336.4	133.8	222.9	124.1	92.7	1 293.1
September	284.4	89.9	323.7	107.1	137.8	131.1	75.1	1 149.1
December	291.1	76.2	296.8	115.7	152.7	125.6	87.4	1 145.4
<b>2002</b>								
March	252.7	83.1	260.0	91.8	135.8	114.3	90.0	1 027.7
June	293.7	100.3	245.7	90.8	196.7	279.6	98.6	1 305.3
September	279.5	105.6	215.3	92.5	122.4	404.1	122.7	1 342.0
.....								
VALUE OF WORK YET TO BE DONE								
<b>1999-00</b>	684.2	375.9	977.6	170.0	55.0	107.9	22.4	2 393.1
<b>2000-01</b>	372.9	330.1	805.8	244.1	84.4	198.4	8.4	2 044.1
<b>2001-02</b>	335.3	325.5	443.6	363.1	33.2	1 201.0	30.8	2 732.5
<b>2001</b>								
June	372.9	330.1	805.8	244.1	84.4	198.4	8.4	2 044.1
September	398.2	374.5	739.2	343.2	83.9	301.7	27.3	2 268.1
December	442.2	358.5	534.7	341.4	58.3	247.1	21.3	2 003.5
<b>2002</b>								
March	422.5	385.4	621.6	345.7	34.7	185.9	14.0	2 009.8
June	335.3	325.5	443.6	363.1	33.2	1 201.0	30.8	2 732.5
September	501.5	275.9	488.3	506.9	25.2	1 907.1	66.3	3 771.1

\* estimate has a relative standard error of between 25% and 50% and should be used with caution



<i>Period</i>	<i>Roads, highways and subdivisions</i>	<i>Bridges, railways and harbours</i>	<i>Electricity generation, transmission etc. and pipelines</i>	<i>Water storage and supply, sewerage and drainage</i>	<i>Telecom- munications</i>	<i>Heavy industry</i>	<i>Recreation and other</i>	<i>Total</i>
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
.....								
VALUE OF WORK COMMENCED DURING PERIOD								
<b>1999-00</b>	413.7	67.9	255.3	107.9	216.6	149.6	137.1	1 348.2
<b>2000-01</b>	341.4	15.8	141.9	86.0	235.4	309.2	109.4	1 239.1
<b>2001-02</b>	394.2	15.7	434.6	63.7	229.0	372.4	118.8	1 628.5
<b>2001</b>								
June	101.5	11.9	34.3	21.4	65.4	91.5	29.1	355.0
September	121.8	5.3	89.5	24.8	54.6	63.7	35.0	394.7
December	69.8	0.7	77.7	19.0	58.2	48.0	29.9	303.3
<b>2002</b>								
March	102.8	3.1	53.4	9.5	52.2	205.4	28.1	454.6
June	99.9	**6.5	214.0	10.4	63.9	55.4	25.8	476.0
September	146.2	8.8	29.0	21.7	43.5	43.3	32.0	324.6
.....								
VALUE OF WORK DONE DURING PERIOD								
<b>1999-00</b>	385.0	67.9	420.2	91.2	215.4	106.4	138.6	1 424.8
<b>2000-01</b>	352.6	21.7	149.8	105.0	196.5	183.1	120.6	1 129.5
<b>2001-02</b>	370.8	17.3	247.1	90.7	269.3	302.3	120.0	1 417.4
<b>2001</b>								
June	124.7	8.3	31.4	34.9	69.1	64.8	33.7	366.9
September	64.6	7.1	52.9	22.2	59.3	73.5	26.8	306.4
December	74.3	3.7	79.7	22.9	64.2	80.0	30.8	355.7
<b>2002</b>								
March	112.0	2.2	67.7	25.4	66.3	65.2	30.9	369.8
June	120.0	*4.2	46.7	20.2	79.5	83.6	31.4	385.5
September	67.2	2.2	57.8	13.2	52.5	100.0	26.9	319.9
.....								
VALUE OF WORK YET TO BE DONE								
<b>1999-00</b>	60.7	26.4	11.0	37.8	5.5	62.1	13.0	216.5
<b>2000-01</b>	34.6	16.9	9.0	33.5	45.4	187.9	10.0	337.2
<b>2001-02</b>	33.3	10.3	235.8	12.9	35.2	273.0	5.5	606.1
<b>2001</b>								
June	34.6	16.9	9.0	33.5	45.4	187.9	10.0	337.2
September	94.5	13.4	33.5	28.0	28.6	169.3	15.4	382.7
December	83.4	9.6	29.7	27.0	27.0	142.2	13.4	332.3
<b>2002</b>								
March	71.2	10.5	39.3	18.9	21.3	297.3	10.3	468.8
June	33.3	10.3	235.8	12.9	35.2	273.0	5.5	606.1
September	99.0	7.4	209.5	11.8	26.3	289.3	*11.4	654.6

\*\* estimate has a relative standard error greater than 50% and is considered too unreliable for general use

\* estimate has a relative standard error of between 25% and 50% and should be used with caution

<i>Period</i>	<i>Roads, highways and subdivisions</i>	<i>Bridges, railways and harbours</i>	<i>Electricity generation, transmission etc. and pipelines</i>	<i>Water storage and supply, sewerage and drainage</i>	<i>Telecommunications</i>	<i>Heavy industry</i>	<i>Recreation and other</i>	<i>Total</i>
<i>\$m</i>	<i>\$m</i>	<i>\$m</i>	<i>\$m</i>	<i>\$m</i>	<i>\$m</i>	<i>\$m</i>	<i>\$m</i>	<i>\$m</i>
VALUE OF WORK COMMENCED DURING PERIOD								
<b>1999-00</b>	756.3	64.4	67.8	377.0	307.3	1 541.7	96.1	3 210.6
<b>2000-01</b>	947.6	125.3	92.5	171.2	406.6	611.6	149.1	2 504.0
<b>2001-02</b>	672.4	170.3	1 202.4	92.3	354.7	1 969.8	220.3	4 682.1
<b>2001</b>								
June	115.3	40.7	30.1	19.3	97.0	139.9	54.2	496.5
September	288.2	56.7	23.8	18.5	84.1	1 563.6	56.6	2 091.5
December	134.9	34.9	22.6	21.1	86.7	170.5	68.5	539.2
<b>2002</b>								
March	127.7	*45.6	280.8	26.1	82.8	112.7	*53.3	729.1
June	121.6	*33.1	875.2	26.6	101.1	123.0	*41.8	1 322.3
September	200.8	299.2	26.7	42.9	70.5	734.7	51.4	1 426.3
VALUE OF WORK DONE DURING PERIOD								
<b>1999-00</b>	752.2	141.2	109.9	290.6	309.8	1 054.5	117.3	2 775.4
<b>2000-01</b>	742.9	125.8	93.1	183.9	297.2	662.8	151.0	2 256.6
<b>2001-02</b>	708.7	171.9	314.8	136.5	408.4	1 126.6	252.3	3 119.3
<b>2001</b>								
June	209.5	60.0	34.5	31.0	106.5	167.4	51.1	660.0
September	168.9	53.6	22.6	24.2	99.7	377.7	53.6	800.4
December	168.8	49.4	21.1	28.2	105.2	264.4	73.2	710.4
<b>2002</b>								
March	190.0	*36.4	50.8	38.5	96.4	227.7	61.5	701.2
June	181.1	*32.4	220.3	45.6	107.1	256.8	*64.0	907.3
September	163.6	*58.8	184.5	37.7	85.2	348.4	59.4	937.6
VALUE OF WORK YET TO BE DONE								
<b>1999-00</b>	195.4	37.9	1.3	43.3	7.0	501.4	9.8	796.0
<b>2000-01</b>	363.3	47.8	0.3	45.9	149.6	349.5	38.0	994.5
<b>2001-02</b>	193.4	46.1	948.2	22.5	97.0	1 219.7	19.9	2 546.7
<b>2001</b>								
June	363.3	47.8	0.3	45.9	149.6	349.5	38.0	994.5
September	481.9	38.4	4.6	41.1	138.9	1 705.1	33.7	2 443.8
December	449.1	35.2	3.7	38.8	120.3	1 583.3	25.3	2 255.7
<b>2002</b>								
March	389.2	47.0	286.0	35.9	103.0	1 408.2	17.5	2 286.7
June	193.4	46.1	948.2	22.5	97.0	1 219.7	*19.9	2 546.7
September	247.8	295.5	807.8	41.2	82.3	1 601.8	12.6	3 088.9

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<i>Period</i>	<i>Roads, highways and subdivisions</i>	<i>Bridges, railways and harbours</i>	<i>Electricity generation, transmission etc. and pipelines</i>	<i>Water storage and supply, sewerage and drainage</i>	<i>Telecom- munications</i>	<i>Heavy industry</i>	<i>Recreation and other</i>	<i>Total</i>
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
VALUE OF WORK COMMENCED DURING PERIOD								
<b>1999-00</b>	93.0	26.9	36.9	27.7	53.1	1.6	21.0	260.1
<b>2000-01</b>	86.5	5.5	55.0	24.0	58.5	2.6	15.1	247.2
<b>2001-02</b>	83.8	20.8	254.2	34.2	72.7	4.5	14.1	484.3
<b>2001</b>								
June	17.2	0.7	22.4	3.8	18.0	—	2.3	64.5
September	17.7	17.7	11.9	6.3	10.2	—	3.3	67.2
December	19.6	1.7	133.4	4.3	12.5	0.2	2.9	174.6
<b>2002</b>								
March	28.2	*1.1	88.2	14.1	33.6	**2.3	4.6	172.2
June	18.2	0.3	20.8	9.4	16.5	1.9	3.3	70.4
September	14.0	1.4	51.1	*14.1	10.8	4.0	3.6	99.0
VALUE OF WORK DONE DURING PERIOD								
<b>1999-00</b>	97.3	14.7	41.3	22.9	53.3	3.4	21.2	254.0
<b>2000-01</b>	104.6	14.8	50.5	15.8	58.5	5.5	14.5	264.2
<b>2001-02</b>	83.3	18.6	252.8	23.4	58.3	3.7	13.7	453.8
<b>2001</b>								
June	37.3	3.3	27.7	5.9	18.0	1.1	2.2	95.6
September	11.1	2.3	12.4	3.4	10.3	—	2.8	42.4
December	24.3	6.7	13.1	5.8	12.5	0.2	3.1	65.6
<b>2002</b>								
March	23.5	5.0	105.7	*5.0	13.2	**0.9	3.9	157.3
June	24.4	4.6	121.5	9.1	22.4	*2.6	4.0	188.5
September	11.3	4.0	67.2	*8.1	15.2	0.2	3.9	109.9
VALUE OF WORK YET TO BE DONE								
<b>1999-00</b>	15.6	16.7	6.0	3.3	—	—	1.7	43.4
<b>2000-01</b>	9.7	1.5	33.4	2.7	—	—	0.6	47.9
<b>2001-02</b>	7.7	6.5	31.7	12.6	4.6	0.5	1.0	64.6
<b>2001</b>								
June	9.7	1.5	33.4	2.7	—	—	0.6	47.9
September	14.9	16.9	13.4	4.3	—	—	0.8	50.3
December	10.4	14.3	131.7	3.0	—	—	1.0	160.3
<b>2002</b>								
March	14.6	10.6	113.8	12.9	20.4	**0.9	1.7	174.9
June	7.7	6.5	31.7	12.6	4.6	**0.5	1.0	64.6
September	10.7	3.8	19.6	16.6	—	3.8	*2.1	56.5

— nil or rounded to zero (including null cells)

\*\* estimate has a relative standard error greater than 50% and is

\* estimate has a relative standard error of between 25% and 50% and should be used with caution

considered too unreliable for general use

<i>Period</i>	<i>Roads, highways and subdivisions</i>	<i>Bridges, railways and harbours</i>	<i>Electricity generation, and transmission etc. and pipelines</i>	<i>Water storage and supply, sewerage and drainage</i>	<i>Telecom- munications</i>	<i>Heavy industry</i>	<i>Recreation and other</i>	<i>Total</i>
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
VALUE OF WORK COMMENCED DURING PERIOD								
<b>1999-00</b>	64.4	13.5	54.7	17.9	43.6	28.8	18.4	241.2
<b>2000-01</b>	35.4	31.7	14.5	12.3	37.1	19.2	16.7	166.7
<b>2001-02</b>	95.2	621.3	13.4	72.1	48.1	1 363.0	14.3	2 227.4
<b>2001</b>								
June	10.1	30.8	3.6	3.4	13.9	2.4	4.8	69.0
September	42.2	521.2	3.9	50.6	11.3	1.6	4.1	634.9
December	11.4	28.6	2.0	5.6	12.2	1.0	6.7	67.6
<b>2002</b>								
March	8.6	43.3	0.8	*6.6	10.4	1 348.4	*0.9	1 419.2
June	33.0	28.1	6.7	9.2	14.3	12.0	*2.5	105.8
September	9.6	2.3	*0.9	**0.5	9.0	1.0	*2.4	25.6
VALUE OF WORK DONE DURING PERIOD								
<b>1999-00</b>	96.2	16.6	39.8	15.2	44.1	47.2	17.8	276.8
<b>2000-01</b>	36.9	10.1	16.8	16.2	43.1	27.1	18.1	168.3
<b>2001-02</b>	67.4	238.7	8.0	38.1	56.1	807.6	10.8	1 226.7
<b>2001</b>								
June	10.4	6.8	2.4	4.0	17.2	2.2	4.7	47.6
September	20.3	17.6	2.0	7.2	15.0	3.2	4.3	69.6
December	15.2	26.5	3.6	9.3	14.7	2.0	2.1	73.3
<b>2002</b>								
March	10.5	75.4	1.0	12.4	12.0	687.7	1.7	800.7
June	21.5	119.2	1.4	9.3	14.4	114.6	*2.7	283.1
September	17.6	116.1	1.4	10.4	11.0	229.0	*2.6	388.2
VALUE OF WORK YET TO BE DONE								
<b>1999-00</b>	2.0	0.6	7.8	8.5	0.9	9.1	0.7	29.6
<b>2000-01</b>	1.7	24.3	5.0	4.2	34.0	4.1	0.2	73.6
<b>2001-02</b>	29.0	383.0	6.0	33.2	25.6	563.4	3.8	1 044.0
<b>2001</b>								
June	1.7	24.3	5.0	4.2	34.0	4.1	0.2	73.6
September	22.7	504.0	5.4	46.7	30.3	3.3	0.2	612.5
December	20.2	506.2	3.8	43.1	27.7	4.1	4.8	610.0
<b>2002</b>								
March	19.0	471.7	3.9	35.4	26.0	665.9	4.1	1 226.0
June	29.0	383.0	6.0	33.2	25.6	563.4	3.8	1 044.0
September	19.7	262.6	5.5	19.9	23.6	335.5	4.0	670.8

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\*\* estimate has a relative standard error greater than 50% and is considered to be unreliable for general use

Period	Roads, highways and subdivisions	Bridges, railways and harbours	Electricity generation, transmission etc. and pipelines	Water storage and supply, sewerage and drainage	Telecom- munications	Heavy industry	Recreation and other	Total
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
VALUE OF WORK COMMENCED DURING PERIOD								
<b>1999-00</b>	49.3	—	43.3	19.5	90.8	—	63.5	266.4
<b>2000-01</b>	48.6	0.5	15.6	13.5	74.3	0.1	33.7	186.3
<b>2001-02</b>	85.9	2.2	9.1	19.9	55.0	—	35.8	207.9
<b>2001</b>								
June	14.6	0.3	—	2.6	19.7	0.1	9.7	46.9
September	24.4	2.2	0.6	5.2	12.4	—	8.3	53.1
December	14.3	—	3.2	5.7	16.5	—	8.8	48.5
<b>2002</b>								
March	*22.2	—	1.5	5.9	11.0	—	*7.5	48.2
June	25.0	—	3.8	3.0	15.1	—	*11.3	58.2
September	7.9	—	4.9	3.4	10.8	—	*11.3	38.2
VALUE OF WORK DONE DURING PERIOD								
<b>1999-00</b>	61.4	—	43.2	32.7	72.2	—	63.5	273.0
<b>2000-01</b>	52.8	0.8	15.3	9.2	90.9	0.1	38.9	207.9
<b>2001-02</b>	77.9	1.9	14.0	15.8	55.5	—	34.8	199.9
<b>2001</b>								
June	19.2	0.3	2.0	1.3	24.3	0.1	9.4	56.5
September	12.2	1.4	1.1	2.5	13.1	—	9.5	39.8
December	21.5	0.3	4.4	3.9	16.4	—	8.6	55.1
<b>2002</b>								
March	20.2	0.3	4.1	4.1	10.9	—	*7.9	47.5
June	24.0	—	4.4	5.3	15.0	—	*8.8	57.4
September	17.3	—	4.8	2.8	10.9	—	*13.4	49.2
VALUE OF WORK YET TO BE DONE								
<b>1999-00</b>	8.2	—	4.7	2.6	19.6	—	23.4	58.6
<b>2000-01</b>	11.9	—	—	2.8	0.9	—	0.8	16.4
<b>2001-02</b>	23.0	—	2.2	1.0	0.1	—	4.4	30.6
<b>2001</b>								
June	11.9	—	—	2.8	0.9	—	0.8	16.4
September	21.4	0.8	3.7	8.7	0.3	—	1.1	36.0
December	14.4	0.3	6.1	10.3	0.3	—	1.3	32.8
<b>2002</b>								
March	*19.7	—	3.3	4.2	0.1	—	*1.7	29.0
June	23.0	—	2.2	**1.0	0.1	—	*4.4	30.6
September	15.4	—	7.6	*1.7	—	—	*2.3	27.0

— nil or rounded to zero (including null cells)

\* estimate has a relative standard error of between 25% and 50% and should be used with caution

\*\* estimate has a relative standard error greater than 50% and is considered too unreliable for general use

<i>Period</i>	<i>NSW</i>	<i>Vic.</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas.</i>	<i>NT</i>	<i>ACT</i>	<i>Aust.</i>
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
BY THE PRIVATE SECTOR FOR THE PRIVATE SECTOR									
<b>1999-00</b>	1 664.8	1 792.5	1 941.5	636.7	1 520.8	28.5	110.7	90.5	7 786.0
<b>2000-01</b>	1 629.8	1 674.3	1 725.2	496.6	1 022.2	19.4	69.2	45.5	6 682.3
<b>2001-02</b>	1 290.4	1 924.5	1 698.3	770.5	1 807.6	236.0	1 080.1	91.6	8 899.0
<b>2001</b>									
June	382.1	410.7	453.6	150.3	282.1	2.9	13.0	13.7	1 708.3
September	338.4	413.5	414.5	176.4	500.2	3.9	35.1	15.8	1 897.7
December	308.1	484.9	378.7	213.8	410.1	6.4	35.7	25.5	1 863.2
<b>2002</b>									
March	274.8	492.1	376.3	193.5	382.0	103.7	766.0	23.1	2 611.4
June	369.1	533.9	528.9	186.8	515.3	122.0	243.4	27.2	2 526.7
September	384.0	638.1	670.2	207.1	598.8	64.1	350.2	21.0	2 933.6
BY THE PRIVATE SECTOR FOR THE PUBLIC SECTOR									
<b>1999-00</b>	1 449.9	833.1	1 058.8	278.0	600.2	73.2	100.5	75.3	4 468.9
<b>2000-01</b>	1 545.3	743.6	879.2	208.2	678.6	66.3	50.3	83.3	4 254.8
<b>2001-02</b>	1 267.2	777.9	714.5	186.4	666.0	74.8	87.3	57.8	3 831.7
<b>2001</b>									
June	397.7	192.2	184.2	59.2	193.5	15.7	16.3	24.6	1 083.5
September	332.9	160.5	213.7	41.6	157.1	9.4	18.4	12.7	946.3
December	408.5	192.5	197.0	37.7	136.0	20.8	20.3	16.0	1 028.9
<b>2002</b>									
March	241.7	206.6	164.7	54.2	172.8	22.9	22.7	13.6	899.2
June	284.0	218.2	139.1	52.9	200.1	21.6	25.9	15.4	957.2
September	284.8	197.4	154.3	32.8	201.7	15.5	28.4	17.5	932.4
TOTAL BY THE PRIVATE SECTOR									
<b>1999-00</b>	3 114.7	2 625.5	3 000.3	914.7	2 121.0	101.7	211.1	165.8	12 254.9
<b>2000-01</b>	3 175.2	2 417.9	2 604.4	704.8	1 700.8	85.7	119.5	128.8	10 937.2
<b>2001-02</b>	2 557.6	2 702.4	2 412.8	956.9	2 473.6	310.7	1 167.4	149.4	12 730.7
<b>2001</b>									
June	779.8	602.9	637.8	209.4	475.6	18.6	29.3	38.3	2 791.8
September	671.3	574.1	628.1	218.0	657.3	13.3	53.5	28.4	2 844.0
December	716.6	677.5	575.7	251.5	546.1	27.2	55.9	41.6	2 892.1
<b>2002</b>									
March	516.5	698.7	540.9	247.7	554.7	126.6	788.7	36.7	3 510.7
June	653.1	752.1	668.0	239.7	715.4	143.6	269.3	42.6	3 483.9
September	668.8	835.5	824.5	239.9	800.5	79.7	378.6	38.5	3 866.0

<i>Period</i>	<i>NSW</i>	<i>Vic.</i>	<i>Qld</i>	<i>SA</i>	<i>WA</i>	<i>Tas.</i>	<i>NT</i>	<i>ACT</i>	<i>Aust.</i>
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
TOTAL BY COMMONWEALTH GOVERNMENT									
<b>1999-00</b>	1 243.2	630.2	877.0	202.3	287.7	52.1	42.7	65.3	3 400.4
<b>2000-01</b>	1 141.8	659.8	573.5	171.4	243.7	57.4	36.1	60.2	2 943.9
<b>2001-02</b>	960.6	565.6	574.5	216.0	307.0	49.3	45.4	50.5	2 768.9
<b>2001</b>									
June	329.0	206.7	187.2	64.0	91.0	18.0	13.5	17.3	926.7
September	217.0	116.0	114.2	50.2	71.4	10.1	10.6	11.4	600.9
December	255.9	143.5	141.8	53.9	76.6	12.5	11.3	13.5	709.0
<b>2002</b>									
March	205.6	121.6	126.2	48.0	68.2	10.6	10.0	10.8	601.0
June	282.1	184.5	192.3	63.9	90.8	16.1	13.5	14.8	858.0
September	203.3	123.7	112.7	43.3	61.5	10.8	9.0	10.7	575.0
TOTAL BY STATE AND TERRITORY GOVERNMENT									
<b>1999-00</b>	1 413.4	99.4	701.9	222.5	195.3	58.8	18.1	42.0	2 751.4
<b>2000-01</b>	1 372.7	47.3	1 031.7	167.0	124.4	73.9	10.8	18.9	2 846.7
<b>2001-02</b>	1 550.5	35.0	1 028.3	120.7	98.0	49.2	8.2	—	2 889.9
<b>2001</b>									
June	474.4	8.5	287.7	59.2	29.2	42.8	4.3	0.9	907.1
September	338.1	8.3	277.5	22.7	27.9	12.2	3.6	—	690.3
December	426.6	5.3	258.7	22.9	22.9	11.0	3.1	—	750.6
<b>2002</b>									
March	307.1	*10.6	211.4	35.0	19.5	10.7	1.4	—	595.7
June	478.7	10.9	280.7	40.1	27.8	15.2	—	—	853.3
September	391.1	11.0	264.8	15.6	28.9	9.5	—	—	720.9
BY LOCAL GOVERNMENT AUTHORITIES									
<b>1999-00</b>	459.7	95.8	642.1	85.4	171.5	41.4	4.9	—	1 500.8
<b>2000-01</b>	466.8	91.3	534.8	86.2	187.7	47.3	1.8	—	1 415.9
<b>2001-02</b>	528.9	86.1	612.0	123.8	240.6	44.7	5.7	—	1 641.8
<b>2001</b>									
June	163.5	32.4	180.4	34.2	64.1	16.3	0.5	—	491.4
September	114.9	12.6	129.2	15.5	43.8	6.7	1.9	—	324.6
December	127.8	23.1	169.2	27.4	64.7	14.8	3.0	—	430.1
<b>2002</b>									
March	134.2	21.6	149.1	39.1	58.8	9.5	0.6	—	412.8
June	152.1	28.8	164.4	41.8	73.3	13.6	*0.3	—	474.3
September	111.8	13.1	140.0	21.1	46.7	10.0	0.5	—	343.1
TOTAL BY THE PUBLIC SECTOR									
<b>1999-00</b>	3 116.3	825.4	2 221.1	510.1	654.4	152.3	65.7	107.3	7 652.6
<b>2000-01</b>	2 981.3	798.5	2 140.0	424.7	555.8	178.6	48.7	79.1	7 206.6
<b>2001-02</b>	3 040.0	686.7	2 214.8	460.6	645.7	143.1	59.3	50.5	7 300.6
<b>2001</b>									
June	966.9	247.6	655.3	157.4	184.3	77.1	18.3	18.2	2 325.2
September	669.9	136.9	520.9	88.4	143.0	29.1	16.1	11.4	1 615.7
December	810.3	171.9	569.7	104.2	164.2	38.4	17.4	13.5	1 889.7
<b>2002</b>									
March	646.9	153.8	486.7	122.1	146.5	30.8	12.0	10.8	1 609.5
June	912.9	224.1	637.4	145.8	191.9	44.9	13.8	14.8	2 185.7
September	706.2	147.8	517.5	80.0	137.1	30.2	9.5	10.7	1 639.0

— nil or rounded to zero (including null cells)

\* estimate has a relative standard error of between 25% and 50% and should be used with caution

## BY THE PRIVATE SECTOR

	<i>For the private sector</i>	<i>For the public sector</i>	<i>Total</i>	<i>By the public sector</i>	<i>Total for the public sector(a)</i>	<i>Total</i>
	%	%	%	%	%	%
VALUE OF WORK COMMENCED						
Roads, highways and subdivisions	7.4	4.4	5.2	3.9	3.1	3.3
Bridges	4.5	31.3	15.0	3.9	12.3	8.7
Railways	—	—	—	—	—	—
Harbours	3.5	30.9	9.0	—	17.3	7.7
Water storage and supply	15.7	37.5	15.9	21.3	19.4	15.3
Sewerage and drainage	18.0	8.2	8.0	10.7	6.8	6.5
Electricity generation, transmission and distribution	4.0	13.0	3.8	—	0.4	1.2
Pipelines	0.8	64.5	0.8	44.2	43.9	4.5
Recreation	13.3	25.7	12.6	16.9	14.1	10.3
Telecommunications	6.1	12.7	8.4	—	1.0	1.0
Oil, gas, coal and other minerals	0.3	88.7	0.3	—	4.6	0.3
Other heavy industry	6.2	88.7	6.2	—	88.7	6.2
Other	38.0	12.8	37.2	13.1	10.7	37.1
<i>Total</i>	<i>1.7</i>	<i>1.4</i>	<i>1.2</i>	<i>1.8</i>	<i>1.2</i>	<i>1.0</i>

## VALUE OF WORK DONE

Roads, highways and subdivisions	7.9	2.7	4.6	3.3	2.1	3.4
Bridges	8.3	24.1	16.7	8.5	16.1	12.5
Railways	—	—	—	—	—	—
Harbours	13.4	23.9	18.8	—	18.4	15.6
Water storage and supply	21.2	22.1	16.2	13.7	11.7	10.6
Sewerage and drainage	19.2	16.2	13.0	7.5	11.3	10.2
Electricity generation, transmission and distribution	3.5	5.0	2.9	—	1.4	1.6
Pipelines	0.3	42.1	0.3	21.3	20.7	0.5
Recreation	11.8	24.7	11.5	19.8	16.3	10.4
Telecommunications	3.0	7.2	3.9	—	1.0	0.9
Oil, gas, coal and other minerals	0.4	88.7	0.4	—	4.6	0.4
Other heavy industry	6.0	88.7	6.0	—	88.7	6.0
Other	36.7	5.4	34.9	0.9	3.8	34.3
<i>Total</i>	<i>2.1</i>	<i>3.4</i>	<i>1.9</i>	<i>0.9</i>	<i>1.4</i>	<i>1.3</i>

## VALUE OF WORK YET TO BE DONE

Roads, highways and subdivisions	4.4	0.7	1.6	5.3	2.6	2.3
Bridges	—	0.1	0.1	10.0	4.9	3.3
Railways	—	—	—	—	—	—
Harbours	—	6.0	2.1	—	5.5	2.0
Water storage and supply	6.7	1.8	2.6	21.3	19.0	18.0
Sewerage and drainage	4.4	0.5	1.2	10.5	5.3	4.6
Electricity generation, transmission and distribution	—	1.7	0.5	—	0.5	0.3
Pipelines	—	—	—	29.2	29.2	0.5
Recreation	22.7	30.0	20.4	12.3	11.7	10.8
Telecommunications	2.1	—	0.3	—	—	0.3
Oil, gas, coal and other minerals	0.1	—	0.1	—	—	0.1
Other heavy industry	1.5	—	1.5	—	—	1.5
Other	6.0	—	3.1	1.9	0.4	2.8
<i>Total</i>	<i>0.3</i>	<i>0.3</i>	<i>0.2</i>	<i>3.6</i>	<i>1.6</i>	<i>0.7</i>

— nil or rounded to zero (including null cells)

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



## RELATIVE STANDARD ERRORS, States and territories—By type of work

	<i>Roads, highways and subdivisions</i>	<i>Bridges, railways and harbours</i>	<i>Electricity generation, transmission etc. and pipelines</i>	<i>Water storage and supply, sewerage and drainage</i>	<i>Telecom- munications</i>	<i>Heavy industry</i>	<i>Recreation and other</i>	<i>Total</i>
	%	%	%	%	%	%	%	%
.....								
VALUE OF WORK COMMENCED								
NSW	6.4	0.8	0.6	8.1	0.7	2.2	21.3	1.6
Vic.	6.2	0.1	4.3	29.9	4.0	3.6	23.4	2.9
Qld	6.5	0.6	1.7	14.1	—	—	17.7	2.1
SA	9.7	7.2	—	6.5	—	4.3	16.8	4.9
WA	8.7	3.9	3.0	6.9	0.5	1.0	22.5	2.0
Tas.	8.9	7.8	2.4	36.6	—	0.2	18.8	5.5
NT	16.4	—	30.1	54.2	—	—	42.2	7.5
ACT	4.4	—	—	3.1	—	—	36.2	10.8
<i>Total</i>	3.3	0.7	1.2	6.7	1.0	0.5	10.3	1.0
.....								
VALUE OF WORK DONE								
NSW	6.4	7.7	0.9	11.5	1.0	1.7	29.8	3.0
Vic.	4.6	1.9	3.9	30.0	3.5	4.5	22.7	4.1
Qld	8.2	0.3	3.1	19.5	—	0.3	16.7	2.8
SA	16.8	0.3	—	1.6	—	1.9	19.9	4.0
WA	6.1	27.5	0.4	7.6	0.4	1.2	23.3	2.8
Tas.	5.2	1.5	1.8	25.7	—	4.0	24.4	2.4
NT	8.9	—	18.7	2.6	—	—	34.0	0.5
ACT	2.0	—	—	11.4	—	—	34.4	9.5
<i>Total</i>	3.4	4.3	1.2	8.1	0.9	0.5	10.4	1.3
.....								
VALUE OF WORK YET TO BE DONE								
NSW	5.5	0.4	—	4.4	0.8	0.3	1.1	1.1
Vic.	3.0	—	0.1	4.4	—	0.5	33.3	0.8
Qld	4.5	—	0.7	16.0	—	—	17.3	2.2
SA	10.1	8.4	—	11.1	—	0.6	25.5	2.0
WA	4.5	1.3	0.5	2.8	—	0.1	18.9	0.5
Tas.	11.1	3.7	0.2	22.6	—	—	37.2	7.4
NT	—	—	—	—	—	—	5.9	—
ACT	—	—	—	25.2	—	—	45.4	4.2
<i>Total</i>	2.3	0.2	0.3	8.1	0.3	0.1	9.9	0.7

— nil or rounded to zero (including null cells)

## 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. The scope of the survey includes all management units recorded on the ABS central register of businesses which are likely to be engaged in engineering construction work and all other units known to be undertaking engineering construction work (from trade journals, newspapers, etc.).

**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 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.

### RELATIONSHIP WITH NATIONAL ACCOUNTS

**7** Data on the value of work done on the construction of new residential buildings, alterations and additions to residential buildings, private sector non-residential buildings (from *Building Activity, Australia* (cat. no. 8752.0) and the value of engineering construction activity (from the Engineering Construction Survey) are the major source data which are used to compile the national accounts estimates for private gross fixed capital formation on dwellings, and other buildings and structures. However, there are some adjustments to the survey data which are made in the process of compiling these national account series. Allowances are made for the value of building activity which is out of scope of the Building Activity Survey and the Engineering Construction Survey. Such activity includes work done on projects which fall below the size cut-offs used for the Building Activity Survey and also the value of work done which is undertaken without obtaining a building permit, either because such a permit is not required or because the requisite permit is not obtained. The national accounts estimates also make allowances for purchases (less sales) of buildings and other structures from (to) the public sector.

### SAMPLE REVISION

**8** The survey frames and samples are revised each quarter to ensure that they remain representative of the survey population. The timing for creating each quarter's survey frame is consistent with that of other ABS surveys. This provides for greater consistency when comparing data across surveys.

## EXPLANATORY NOTES *continued*

### RELIABILITY OF THE ESTIMATES

**9** 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 2 chances in 3 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 19 chances in 20 that the difference will be less than 2 standard errors. Approximate relative standard errors of the estimates are shown in tables 24 and 25.

**10** 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 2 chances in 3 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 19 chances in 20 that the value would have been within the range \$2,475m to \$2,525m.

**11** 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.

**12** 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 the Glossary, 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

**13** Seasonally adjusted statistics for engineering construction activity are shown in tables 1 to 6. As happens with all seasonally adjusted series, the seasonal factors are reviewed annually to take account of each additional years data. The results of the latest review are included in the December quarter issue each year. Information regarding the methods used in seasonally adjusting the series, is available on request.

**14** 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.

### TREND ESTIMATES

**15** Seasonally adjusted series can be smoothed to reduce the impact of the irregular component in the adjusted series. This smoothed seasonally adjusted series is called a trend estimate.

## EXPLANATORY NOTES *continued*

### TREND ESTIMATES *continued*

**16** The trend estimates are derived by applying a 7-term Henderson moving average to the seasonally adjusted series. The 7-term Henderson average (like all Henderson averages) is symmetric but, as the end of a time series is approached, asymmetric forms of the average are applied. Unlike weights of the standard 7-term Henderson moving average, the weights employed here have been tailored to suit the particular characteristics of individual series.

**17** While the smoothing technique described in paragraphs 15 and 16 enables trend estimates to be produced for recent quarters, it does result in revisions to the estimates for the most recent three quarters as additional observations become available. There may also be revisions because of changes in the original data and as a result of the re-estimation of the seasonal factors. For further information, see *Information Paper: A Guide to Interpreting Time Series—Monitoring Trends: an Overview* (cat. no. 1348.0) or contact the Assistant Director, Time Series Analysis on Canberra 02 6252 6076.

### CHAIN VOLUME MEASURES

**18** Chain volume estimates of the value of work done are presented in original, seasonally adjusted and trend terms in tables 1 and 2.

**19** While current price estimates of value of work done reflect both price and volume changes, chain volume estimates measure changes in value after the direct effects of price changes have been eliminated and therefore only reflect volume changes. The direct impact of the GST is a price change, and hence is removed from chain volume estimates. 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 new other building components, and the new engineering construction component, of the national accounts aggregate 'Gross fixed capital formation'.

**20** The chain volume measures of work done appearing in this publication are annually reweighted chain Laspeyres indexes referenced to current price values in a chosen reference year (currently 1999–2000). The reference year will be updated annually in the June quarter publication. Quarterly chain volume data in this issue incorporate a new base year, 1999–2000, which has resulted in revisions to growth rates, small in most cases, for the last few years. In addition, the reference year has been advanced to 1999–2000, which has resulted in revisions to levels, but not growth rates, for all periods. Each year's data in the value of work done series are based on the prices of the previous year, except for the quarters of the latest incomplete year (i.e. for the 2001–02 financial year) which are based upon the current reference year (i.e. 1999–2000). Comparability with previous years is achieved by linking (or chaining) the series together to form a continuous time series. Further information on the nature and concepts of chain volume measures is contained in the ABS *Information Paper: Introduction of Chain Volume Measures in the Australian National Accounts* (cat. no. 5248.0).

**21** The factors used to seasonally adjust the chain volume measures are identical to those used to adjust the corresponding current price series.

### ACKNOWLEDGMENT

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

### RELATED PUBLICATIONS

**23** Users may also wish to refer to the following publications which are available from ABS Bookshops:

## EXPLANATORY NOTES *continued*

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### RELATED PUBLICATIONS *continued*

*Building Activity, Australia: Dwelling Unit Commencements, Preliminary* cat. no. 8750.0—issued quarterly  
*Building Activity, Australia* cat. no. 8752.0—issued quarterly  
*Building Approvals, Australia* cat. no. 8731.0—issued monthly  
*Construction Work Done, Australia, Preliminary* cat. no. 8755.0—issued quarterly

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### ABS DATA AVAILABLE ON REQUEST

**25** As well as the statistics included in this and related publications, the ABS may have other relevant data available on request. Inquiries should be made to the National Information and Referral Service on 1300 135 070.

### ABBREVIATIONS

ACT Australian Capital Territory  
Aust. Australia  
NSW New South Wales  
NT Northern Territory  
Qld Queensland  
SA South Australia  
Tas. Tasmania  
Vic. Victoria  
WA Western Australia  
\$m million dollars  
ABS Australian Bureau of Statistics

## GLOSSARY

<b>Bridges</b>	Includes those for the support of roads, railways, causeways and elevated highways.
<b>Electricity generation, transmission and distribution</b>	Includes power stations; substations; hydroelectric generating plants; associated work i.e. towers; chimneys; transmission and distribution lines.
<b>Harbours</b>	Includes boat and yacht basins; breakwaters; retaining walls; docks and piers; terminals; wharves; dredging works; marinas.
<b>Heavy industry</b>	This category is the total of 'Oil, gas, coal and other minerals' and 'Other heavy industry'.
<b>Oil, gas, coal and other minerals</b>	Includes construction of production, storage and distribution facilities; refineries; pumping stations; construction of mines.
<b>Other heavy industry</b>	Includes construction of chemical plants; blast furnaces; steel mills; other industrial processing plants; ovens.
<b>Ownership</b>	Projects are classified as private sector or public sector according to the expected ownership of the project at the time of completion.
<b>Pipelines</b>	Includes oil and gas pipelines; urban supply mains for gas; pipelines for refined petroleum products, chemicals, foodstuffs, etc.
<b>Railways</b>	Includes tracklaying; overhead power lines and signals; platforms; tramways; tunnels for underground railways; fuel hoppers.
<b>Recreation</b>	Includes golf courses; playing fields; racecourses; stadiums; swimming pools; landscaping; park construction.
<b>Roads, highways and subdivisions</b>	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>Sector</b>	<p>The public sector includes Commonwealth Departments and Authorities, State Departments and Authorities, Local Government Authorities, Water, Sewerage and Electricity Authorities and government owned businesses and Statutory Authorities. This publication contains separate estimates for:</p> <ul style="list-style-type: none"><li>Commonwealth Government;</li><li>State and Territory Government; and</li><li>Local Government.</li></ul> <p>All remaining organisations are classified as private sector.</p>
<b>Sewerage and drainage</b>	Includes sanitary and storm sewers; sewage treatment plants; stormwater drains; drainage systems.
<b>Telecommunications</b>	Includes radio, television, microwave and radar transmission towers; telephone and telegraph lines and underground cables; coaxial cables.
<b>Type of construction</b>	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.
<b>Value of work commenced</b>	A project is regarded as having commenced when the site works begin. 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 September quarter each year.

**GLOSSARY** *continued*

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<b>Value of work done</b>	For the private sector 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.
<b>Value of work yet to be done</b>	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.
<b>Water storage and supply</b>	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.

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