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AUSTRALIA

EMBARGO: 11.30AM (CANBERRA TIME) MON 4 MAR 2013

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INQUIRIES

Australian

Bureau of Statistics

For further information about these and related statistics, contact the National Information and Referral Service on 1300 135 070 or Mark Busby on Sydney (02) 9268 4533.

NOTES

| FORTHCOMING ISSUES | ISSUE (Quarter) | RELEASE DATE |
|-----------------------|---------------------------|---|
| | March 2013 | 3 June 2013 |
| | June 2013 | 2 September 2013 |
| | September 2013 | 2 December 2013 |
| | December 2013 | 3 March 2014 |
| | • • • • • • • • • • • • • | • |
| CHANGES TO THIS ISSUE | There are no changes to | this issue. |
| ABBREVIATIONS | ABS Australian Bur | eau of Statistics |
| | GST goods and ser | vices tax |
| | JPDA Joint Petroleur | m Development Area |
| | UNTAET United Nation | s Transitional Administration in East Timor |
| | WST wholesale sale | s tax |
| | ZOC Zone of Coop | eration |
| | | |
| | | |

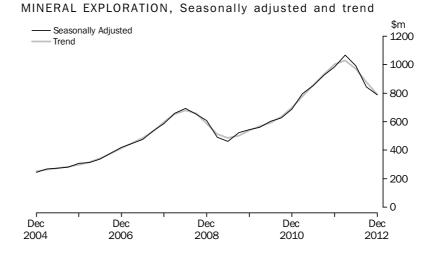
Brian Pink Australian Statistician

MINERAL EXPLORATION (OTHER THAN FOR PETROLEUM)

TOTAL EXPENDITURE

The trend estimate for total mineral exploration expenditure fell 10.2% (or -\$89.3m) to \$790.2m in the December quarter 2012. The largest contributor to the fall in the trend estimate this quarter was Western Australia (down 11.2% or -\$55.3m). The current quarter estimate is 21.2% lower than the December quarter 2011 estimate.

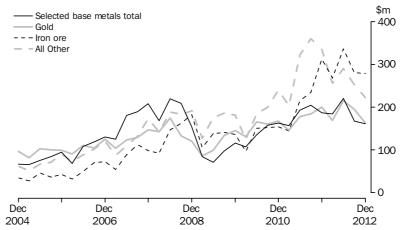
The seasonally adjusted estimate for mineral exploration expenditure fell 6.7% (or -\$56.5m) to \$788.4m in the December quarter 2012. The largest contributor to the fall this quarter was Queensland (down 8.9% or -\$17.5m).



In original terms, mineral exploration expenditure fell 7.9% (or -\$70.8m) to \$823.9m in the December quarter 2012. Exploration on areas of new deposits fell 13.1% (or -\$39.6m) and expenditure on areas of existing deposits fell 5.3% (or -\$31.1m).

In original terms, the largest fall by minerals sought came from expenditure on gold exploration (down 16.3% or -\$31.7m). The next largest fall came from expenditure on coal exploration (down 12.5% or -\$21.4m).

MINERAL EXPLORATION, Original series

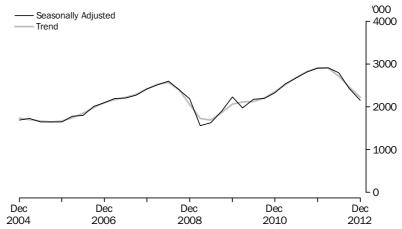


METRES DRILLED

The trend estimate for metres drilled fell 9.9% in the December quarter 2012. The current quarter estimate is 23.7% lower than the December quarter 2011 estimate.

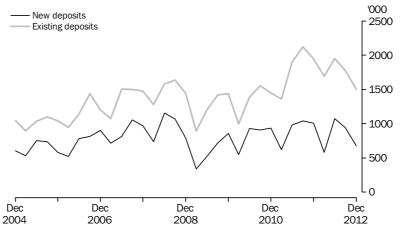
The seasonally adjusted estimate for metres drilled fell 11.2% in the December quarter 2012.

METRES DRILLED, Seaonally adjusted and trend



In original terms, metres drilled fell 19.7%. Drilling in areas of new deposits fell 28.2% and drilling in areas of existing deposits fell 15.2%.

METRES DRILLED, Original series



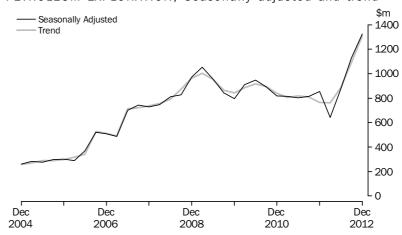
PETROLEUM EXPLORATION

TOTAL EXPENDITURE

The trend estimate for total petroleum exploration expenditure rose 20.1% (or \$219.0m) to \$1309.5m in the December quarter 2012. Exploration expenditure on production leases rose 26.3% (or \$79.2m), while exploration expenditure on all other areas rose 14.4% (or \$113.9m).

The seasonally adjusted estimate for total petroleum exploration expenditure rose 17.5% (or \$197.5m) to \$1324.6m in the December quarter 2012. Exploration expenditure on production leases rose 41.3% (or \$118.5m) and exploration expenditure on all other areas rose 9.4% (or \$79.0m).

The largest contributor to the rise in the trend estimate was Western Australia (up 22.4% or \$170.5m) and the largest contributor to the rise in the seasonally adjusted estimate was Western Australia (up 20.4% or \$162.8m).



PETROLEUM EXPLORATION, Seasonally adjusted and trend

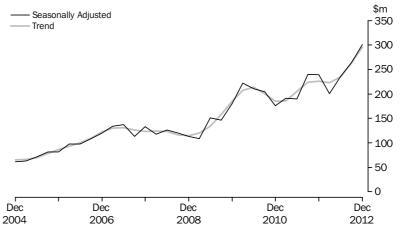
SUMMARY OF FINDINGS continued

ONSHORE

The trend estimate for onshore petroleum exploration expenditure rose 12.3% (or \$32.4m) to \$295.3m in the December quarter 2012. Expenditure on drilling rose 13.3% (or \$22.2m), while other onshore petroleum exploration expenditure rose 8.4% (or \$8.1m).

The seasonally adjusted estimate for onshore petroleum exploration expenditure rose 14.1% (or \$37.2m) to \$300.9m in the December quarter 2012. Expenditure on drilling rose 31.8% (or \$49.6m), while other onshore petroleum exploration fell 11.6% (or -\$12.5m).

PETROLEUM EXPLORATION: ONSHORE, Seasonally adjusted and trend

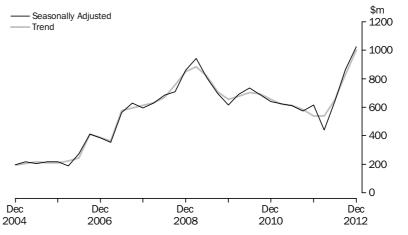


OFFSHORE

The trend estimate for offshore petroleum exploration expenditure rose 20.8% (or \$172.5m) to \$1000.6m in the December quarter 2012. Expenditure on drilling rose 24.5% (or \$152.6m), while other offshore petroleum exploration expenditure rose 9.7% (or \$20.0m).

The seasonally adjusted estimate for offshore petroleum exploration expenditure rose 18.6% (or \$160.3m) to \$1023.7m in the December quarter 2012. Expenditure on drilling rose 22.8% (or \$147.5m), while other offshore petroleum exploration expenditure rose 5.9% (or \$12.8m).

PETROLEUM EXPLORATION: OFFSHORE, Seasonally adjusted and trend



PRIVATE EXPLORATION, ACTUAL AND EXPECTED EXPENDITURE

| | | PLORATION | | | | | UM ONSHOR | | | V OFFSHOR | |
|---------------------|-----------------|-----------|--|-------------------------|--|-------------------|-----------|------------------------------------|---------|-----------|--|
| | Actual | Expected | Actual as a proportion of expected | Expected Adjusted(a) | Actual as a proportion of expected - Adjusted | Actual | Expected | Actual as a proportion of expected | Actual | Expected | Actual as a proportion of expected |
| Period | \$m | \$m | % | \$m | % | \$m | \$m | % | \$m | \$m | % |
| • • • • • • • • • • | • • • • • • • • | | | | | • • • • • • • • • | | | | | • • • • • • • • |
| 2009–10 | 2 232.5 | 1 925.8 | 115.9 | 2 256.0 | 99.0 | 748.6 | 834.0 | 89.8 | 2 745.6 | 2 658.0 | 103.3 |
| 2010–11 | 2 951.3 | 2 406.7 | 122.6 | 2 799.5 | 105.4 | 756.5 | 782.2 | 96.7 | 2 559.0 | 2 512.7 | 101.8 |
| 2011-12 | 3 951.1 | 3 267.0 | 120.9 | 3 771.6 | 104.8 | 919.8 | 1 200.2 | 76.6 | 2 277.3 | 2 017.1 | 112.9 |
| 2011-2012 | | | | | | | | | | | |
| Dec half | 2 013.9 | 1 596.9 | 126.1 | 1 893.0 | 106.4 | 527.0 | 457.4 | 115.2 | 1 150.4 | 1 106.9 | 103.9 |
| Jun half | 1 937.2 | 1 670.1 | 116.0 | 1 878.6 | 103.1 | 392.8 | 742.8 | 52.9 | 1 126.9 | 910.2 | 123.8 |
| 2012-2013 | | | | | | | | | | | |
| Dec half | 1 718.7 | 1 681.5 | 102.2 | 1 989.9 | 86.4 | 630.3 | 1 377.6 | 45.8 | 1 852.3 | 611.5 | 302.9 |
| Jun half | nya | 1 404.8 | nya | 1 583.6 | nya | nya | 1 593.5 | nya | nya | 523.8 | nya |

nya not yet available

(a) Refer to Explanatory Notes paragraphs 14-16.



 ${\tt MINERAL\ EXPLORATION,\ (Other\ than\ for\ petroleum)-Expenditure\ and\ metres\ drilled}$

EXPENDITURE METRES DRILLED

| | | | | Seasonally | | | | | Seasonally | |
|-----------------------|-----------------|---------------------|-------------------|-------------------|---------------------|---------------------|-------------------|-------------------|-----------------|-------|
| | New | Existing | | Adjusted | Trend | New | Existing | | Adjusted | Trend |
| | deposits | deposits | Total | Total | Total | deposits | deposits | Total | Total | Total |
| Period | \$m | \$m | \$m | \$m | \$m | '000' | '000' | '000' | '000' | '000 |
| • • • • • • • • • • • | • • • • • • • • | • • • • • • • • • • | • • • • • • • • • | • • • • • • • • • | • • • • • • • • • • | • • • • • • • • • • | • • • • • • • • • | • • • • • • • • • | • • • • • • • • | |
| 2009–10 | 853.4 | 1 379.1 | 2 232.5 | | | 3 054 | 5 244 | 8 299 | | |
| 2010–11 | 1 037.5 | 1 913.8 | 2 951.3 | | | 3 436 | 6 263 | 9 699 | | |
| 2011–12 | 1 243.0 | 2 710.0 | 3 953.0 | | | 3 700 | 7 709 | 11 409 | | |
| 2010-11 | | | | | | | | | | |
| March | 215.0 | 435.1 | 650.1 | 794.8 | 777.6 | 617 | 1 362 | 1 979 | 2 539 | 2 511 |
| June | 292.1 | 615.3 | 907.4 | 851.1 | 855.1 | 979 | 1 896 | 2 875 | 2 674 | 2 682 |
| 2011–12 | | | | | | | | | | |
| September | 313.1 | 670.3 | 983.4 | 925.8 | 931.4 | 1 038 | 2 120 | 3 158 | 2 813 | 2 817 |
| December | 323.6 | 708.8 | 1 032.4 | 983.0 | 1 002.7 | 1 008 | 1 947 | 2 956 | 2 901 | 2 907 |
| March | 248.6 | 627.5 | 876.1 | 1 066.4 | 1 027.9 | 583 | 1 689 | 2 272 | 2 910 | 2 897 |
| June | 357.7 | 703.4 | 1 061.1 | 992.6 | 971.5 | 1071 | 1 952 | 3 024 | 2 794 | 2 719 |
| 2012-13 | | | | | | | | | | |
| September | 303.0 | 591.7 | 894.7 | 844.9 | 879.5 | 943 | 1 771 | 2 714 | 2 422 | 2 462 |
| December | 263.4 | 560.6 | 823.9 | 788.4 | 790.2 | 677 | 1 502 | 2 179 | 2 150 | 2 218 |

. not applicable

.

New South South Western Northern Wales Victoria Oueensland Australia Australia Tasmania Territory Australia Period \$m \$m \$m \$m \$m \$m \$m \$m NEW DEPOSITS 2009-10 44.1 25.8 99.1 99.6 483.3 13.5 88.0 853.4 2010-11 33.9 27.3 566.4 172.3 131.5 17.0 89.2 1 037.5 2011-12 47.1 33.9 291.6 144.2 636.9 16.6 72.7 1 243.0 2010-11 March 8.1 6.4 29.8 29.3 119.0 4.1 18.2 215.0 June 9.9 8.2 64.8 41.2 146.0 3.7 18.3 292.1 2011-12 September 12.7 12.1 78.7 35.9 144.8 3.7 25.3 313.1 12.6 25.8 December 82.3 38.0 152.2 323.6 8.2 4.6 March 9.7 8.2 57.7 32.9 126.5 3.7 10.0 248.6 June 12.2 72.9 37.4 213.5 4.6 357.7 5.5 11.6 2012-13 September 9.6 2.9 55.2 35.5 179.5 3.9 303.0 16.3 December 7.9 2.7 67.6 25.1 144.5 4.6 10.9 263.4 EXISTING DEPOSITS 2009-10 86.3 57.5 337.5 68.3 760.7 7.2 61.5 1379.12010-11 30.2 20.3 119.3 491.2 123.1 1 023.7 106.0 1 913.8 195.1 24.5 675.9 184.2 1 469.9 2011-12 22.7 137.7 2 710.0 2010-11 March 30.9 6.7 99.3 33.3 243.2 5.3 16.4 435.1 35.8 303.6 June 11.2 178.1 43.9 6.0 36.7 615.3 2011-12 September 50.9 7.3 184.3 38.8 336.9 5.9 46.3 670.3 December 50.8 174.2 379.7 41.3 708.8 4.9 52.3 5.5 March 49.1 5.0 141.4 40.5 363.6 6.3 21.6 627.5 June 44.3 7.4 175.9 52.6 389.7 5.0 28.5 703.4 2012-13 39.6 7.2 45.9 309.1 7.0 September 151.8 31.1 591.7 December 37.4 5.2 121.9 41.8 326.2 5.5 22.5 560.6 TOTAL 2009-10 83.3 167.9 130.4 436.6 1 244.1 20.7 149.5 2 232.5 2010-11 153.1 57.5 663.5 254.6 1 590.1 37.3 195.2 2 951.3 967.5 2 106.8 3 953.0 2011-12 242.2 58.4 328.4 39.3 210.4 2010-11 39.0 March 13.1 129 1 62.6 362.2 94 34.7 650.1 45.8 449.6 June 19.4 242.8 85.2 9.6 55.0 907.4 2011-12 63.6 19.4 263.0 74.7 481.6 9.6 71.6 983.4 September December 63.4 13.1 256.6 90.3 531.9 10.1 67.1 1 032.4 March 58.8 13.2 199.1 73.4 490.1 10.0 31.6 876.1 June 56.4 248.8 90.0 603.2 12.8 9.7 40.1 1 061.1 2012-13 49.2 10.2 207.0 81.4 488.6 10.9 47.4 894.7 September

December

45.4

7.9

189.5

66.8

470.7

10.1

33.5

823.9

| | New South Wales | Victoria | Queensland | South Australia | Western Australia | Tasmania | Northern Territory | Australia |
|------------------------|-----------------------|---------------|---------------------|--------------------|----------------------|-----------------|-----------------------|-----------------|
| Period | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$m |
| • • • • • • • • • • • | • • • • • • • | • • • • • • • | • • • • • • • • • • | | | | • • • • • • • • • | |
| | | | (| DRIGINAL | | | | |
| 2009–10 | 130.4 | 83.3 | 436.6 | 167.9 | 1 244.1 | 20.7 | 149.5 | 2 232.5 |
| 2010–11 | 153.1 | 57.5 | 663.5 | 254.6 | 1 590.1 | 37.3 | 195.2 | 2 951.3 |
| 2011–12 | 242.2 | 58.4 | 967.5 | 328.4 | 2 106.8 | 39.3 | 210.4 | 3 953.0 |
| 2010–11 | | | | | | | | |
| March | 39.0 | 13.1 | 129.1 | 62.6 | 362.2 | 9.4 | 34.7 | 650.1 |
| June | 45.8 | 19.4 | 242.8 | 85.2 | 449.6 | 9.6 | 55.0 | 907.4 |
| 2011–12 | | | | | | | | |
| September | 63.6 | 19.4 | 263.0 | 74.7 | 481.6 | 9.6 | 71.6 | 983.4 |
| December | 63.4 | 13.1 | 256.6 | 90.3 | 531.9 | 10.1 | 67.1 | 1 032.4 |
| March | 58.8 | 13.2 | 199.1 | 73.4 | 490.1 | 10.0 | 31.6 | 876.1 |
| June | 56.4 | 12.8 | 248.8 | 90.0 | 603.2 | 9.7 | 40.1 | 1 061.1 |
| 2012-13 | | | | | | | | |
| September | 49.2 | 10.2 | 207.0 | 81.4 | 488.6 | 10.9 | 47.4 | 894.7 |
| December | 45.4 | 7.9 | 189.5 | 66.8 | 470.7 | 10.1 | 33.5 | 823.9 |
| | | | | | | | | |
| | | | SEASON | ALLY ADJ | USTED | | | |
| 2010–11 | | | | | | | | |
| March | 39.7 | 13.1 | 169.6 | 73.4 | 437.7 | 9.3 | 52.0 | 794.8 |
| June | 47.0 | 19.4 | 218.8 | 76.4 | 423.5 | 9.9 | 56.0 | 851.1 |
| 2011–12 | | | | | | | | |
| September | 63.1 | 19.4 | 249.2 | 74.0 | 454.5 | 9.6 | 56.1 | 925.8 |
| December | 61.4 | 13.1 | 239.6 | 88.5 | 507.9 | 9.8 | 62.7 | 983.0 |
| March | 59.9 | 13.2 | 261.0 | 85.6 | 589.6 | 9.9 | 47.1 | 1 066.4 |
| June 2012–13 | 57.7 | 12.8 | 223.8 | 80.5 | 566.8 | 9.9 | 40.9 | 992.6 |
| September | 48.5 | 10.2 | 195.6 | 80.9 | 461.8 | 11.0 | 36.9 | 844.9 |
| December | 44.2 | 7.9 | 178.1 | 65.8 | 451.0 | 9.8 | 31.4 | 788.4 |
| 2000111201 | = | | | | | | | |
| • • • • • • • • • • • | | | • • • • • • • • • • | TREND | • • • • • • • • | • • • • • • • • | | • • • • • • • • |
| 2010–11 | | | | | | | | |
| March | 40.6 | 14.7 | 179.3 | 69.1 | 412.7 | 9.7 | 51.4 | 777.6 |
| June | 49.9 | 17.6 | 213.6 | 75.6 | 432.7 | 9.8 | 55.9 | 855.1 |
| 2011–12 | -9.9 | 11.0 | 210.0 | 15.0 | +52.1 | 5.0 | 55.5 | 000.1 |
| September | 58.2 | 17.6 | 240.8 | 80.2 | 466.1 | 9.7 | 58.8 | 931.4 |
| December | 62.4 | 15.5 | 253.2 | 83.6 | 521.5 | 9.8 | 56.7 | 1 002.7 |
| March | 60.9 | 13.2 | 246.6 | 85.7 | 561.4 | 9.9 | 50.2 | 1 027.9 |
| June | 55.5 | 11.8 | 225.8 | 82.6 | 543.6 | 10.2 | 42.0 | 971.5 |
| 2012-13 | - 5.0 | | | 52.0 | 5.0.0 | 2012 | -2-10 | 2.2.0 |
| September | 50.1 | 10.4 | 200.9 | 76.4 | 495.6 | 10.4 | 35.8 | 879.5 |
| December | 46.1 | 8.6 | 180.3 | 71.1 | 440.3 | 10.3 | 33.4 | 790.2 |
| | | | | | | | | |

${\tt MINERAL\ EXPLORATION,\ (Other\ than\ for\ petroleum)--Expenditure\ by\ mineral\ sought}$

| | ••••• | ••••• | ••••• | ••••• | | | | | | | | |
|-------------------------|--------------|--------------------------|-------------------|-----------------|------------|-------------|------------------|------------|----------------|----------|-----------------|---------------------------------|
| | Copper | Silver, lead, zinc | Nickel, cobalt | Total | Gold | lron ore | Mineral sands | Uranium | Coal | Diamonds | Other(a) | Total Mineral Exploration |
| Period | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$m |
| • • • • • • • • • • • • | | | | | | | • • • • • • • • | | | | | • • • • • • • • • |
| | | | | | NEW | SOUTH | WALES | | | | | |
| 2009–10 | 18.2 | 10.2 | 0.3 | 28.7 | 48.8 | 0.4 | np | _ | 39.7 | np | 7.6 | 130.4 |
| 2010–11 | 27.5 | np | np | 45.8 | 43.2 | np | np | np | 51.8 | np | 8.2 | 153.1 |
| 2011–12 | 31.6 | 34.3 | 1.0 | 66.9 | np | 3.0 | np | np | 103.8 | np | 15.3 | 242.2 |
| 2010-11 | | | | | | | | | | | | |
| March | 7.0 | np | np | 12.0 | 8.3 | np | np | np | 16.6 | np | 1.3 | 39.0 |
| June | 7.4 | np | np | 14.8 | 10.9 | np | np | — | 15.5 | np | 2.9 | 45.8 |
| 2011–12 | | | | | | | | | | | | |
| September | 9.6 | 9.6 | 0.2 | 19.3 | 10.2 | np | np | _ | 28.4 | np | np | 63.6 |
| December | np | 8.9 | np | 16.4 | 10.9 | np | np | _ | 29.6 | np | np | 63.4 |
| March | np | 8.4 | np | 15.6 | np | 0.7 | np | | 27.2 | np | 3.3 | 58.8 |
| June | np | 7.4 | np | 15.6 | 15.2 | np | np | np | 18.6 | np | 4.8 | 56.4 |
| 2012-13 | | | | | | | | | | | | |
| September | np | 7.9 | np | 14.3 | 9.7 | np | np | np | 21.2 | np | np | 49.2 |
| December | np | 6.4 | np | 13.3 | 5.5 | 0.3 | np | np | 20.2 | np | 5.7 | 45.4 |
| | | | | • • • • • • • • | | | • • • • • • • • | | | | • • • • • • • • | • • • • • • • • • • |
| | | | | | | VICTOR | IA | | | | | |
| 2009–10 | 3.5 | np | np | 5.5 | 63.1 | np | np | _ | np | _ | 0.8 | 83.3 |
| 2010-11 | np | np | np. | np | 40.4 | np | np | | .0.8 | _ | 2.0 | 57.5 |
| 2011-12 | np | np | np | np | 25.7 | np | np | _ | 1.1 | _ | 4.0 | 58.4 |
| 2010-11 | | | | | | | | | | | | |
| March | np | np | np | np | 8.4 | _ | np | _ | np | | np | 13.1 |
| June | np | np | np | np | 11.9 | np | np | | 0.3 | | 0.6 | 19.4 |
| 2011–12 | np | np | np | np | 11.5 | пр | пр | | 0.5 | | 0.0 | 13.4 |
| September | np | np | np | np | 8.6 | np | np | _ | 0.3 | _ | np | 19.4 |
| December | np | np | np | np | 5.5 | np | np | _ | 0.2 | _ | np | 13.1 |
| March | np | np | np | np | 4.9 | np | np | _ | np | _ | np | 13.2 |
| June | np | np | np | np | 6.7 | np | np | | np | _ | 1.9 | 12.8 |
| 2012-13 | | | | | | | | | | | | |
| September | np | np | _ | np | 4.7 | np | np | _ | 0.2 | _ | np | 10.2 |
| December | np | np | _ | np | 5.1 | np | np | _ | 0.2 | _ | 0.7 | 7.9 |
| | | | | | | | | | | | | |
| | | | | | QI | UEENSL | AND | | | | | |
| 2009–10 | 64.0 | np | np | 72.7 | 45.8 | np | np | np | 262.6 | 0.2 | 32.5 | 436.6 |
| 2010-11 | 96.0 | np | np | 111.0 | 44.5 | np | np | 17.6 | 456.4 | np | 30.4 | 663.5 |
| 2011-12 | 147.9 | 6.8 | 2.3 | 157.0 | 44.6 | 1.5 | np | 13.4 | 718.3 | np | 31.1 | 967.5 |
| | 20 | 0.0 | 2.0 | 20110 | | 1.0 | | 2011 | 1 2010 | | 0111 | |
| 2010-11 | 00.0 | | | 00.7 | 0.7 | | | | 00.4 | | | 100.1 |
| March | 20.3 | np | np | 23.7 | 6.7 | np | np | np | 90.1 | np | 5.5 | 129.1 |
| June 2011–12 | 31.5 | np | np | 33.6 | 12.6 | np | np | 4.1 | 184.4 | np | 7.3 | 242.8 |
| September | 39.9 | 20 | | 41.6 | 12.9 | 20 | nn | 20 | 194.3 | nn | 9.4 | 263.0 |
| December | 39.9 39.6 | np | np | 41.6 | 12.9 | np | np | np 3.6 | 194.3 185.0 | np | 9.4 9.9 | 263.0 |
| March | 39.6 32.8 | np 1.2 | np 0.7 | 42.6 34.7 | 14.3 np | np 0.2 | np | 3.6 2.1 | 185.0 148.6 | np np | 9.9 5.2 | 256.6 199.1 |
| June | 32.8 35.6 | 2.1 | 0.7 | 34.7 | np | 0.2 | np np | 2.1 np | 148.0 190.4 | np | 5.2 6.5 | 248.8 |
| 2012-13 | 55.0 | 2.1 | 0.4 | 50.1 | пр | 0.1 | пр | ΠÞ | 100.4 | чн | 0.0 | 270.0 |
| September | 33.1 | np | np | 35.9 | 16.8 | 0.1 | np | np | 147.2 | 0.1 | 4.4 | 207.0 |
| December | 25.6 | np | np | 29.8 | 26.3 | 0.1 | np | 3.9 | 124.5 | np | 4.1 | 189.5 |
| | | | | • • • • • • • • | | | | | • • • • • • • | | | |

SELECTED BASE METALS

nil or rounded to zero (including null cells)

np not available for publication but included in totals where applicable, unless

 (a) From September quarter 2000 Publication tin, tungsten, scheelite, wolfram and construction materials were added to this category.

otherwise indicated



continued

| SELECTED BASE METALS |
|------------------------|
| •••••••••••••••••••••• |

| | | Silver, lead, | Nickel, | | | Iron | Mineral | | | | | Tot. Miner |
|-----------------------|----------------|------------------|--------------|-----------------|----------------|----------------|-------------------|-------------------|-----------|-------------------|--------------|---------------|
| | Copper | zinc | cobalt | Total | Gold | ore | sands | Uranium | Coal | Diamonds | Other(a) | Exploratio |
| Period | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$m | 4 |
| • • • • • • • • • • | | • • • • • • | | • • • • • • • • | •••••••• | UTH AUST | • • • • • • • • • | • • • • • • • • • | | • • • • • • • • • | | • • • • • • • |
| | | | | | 30 | UTIL AUSI | RALIA | | | | | |
| 2009-10 | 61.9 | np | np | 67.6 | 18.9 | 16.2 | np | 52.7 | 2.3 | np | 1.6 | 167 |
| 2010–11 2011–12 | 101.5 146.2 | 7.0 10.3 | 1.7 3.1 | 110.3 159.6 | 9.0 9.8 | 48.0 78.3 | np np | 53.7 33.1 | 4.4 np | np np | np 36.0 | 254 328 |
| 2010-11 | | | | | | | · | | · | | | |
| March | 25.1 | 2.2 | 0.6 | 27.9 | 1.7 | 13.9 | np | 9.3 | np | np | np | 62 |
| June | 34.1 | np | np | 37.2 | 2.7 | 17.3 | np | 13.5 | np | np | 11.4 | 85 |
| 2011–12 | | | | | | | | | | | | |
| September | 29.6 | np | np | 32.1 | np | 14.3 | np | 11.8 | np | np | np | 74 |
| December | 41.1 | 2.1 | 0.6 | 43.8 | 1.5 | 18.0 | np | 10.3 | np | np | np | 90 |
| March | 32.3 | np | np | 35.8 | 1.8 | 19.2 | np | 6.2 | np | np | np | 73 |
| June | 43.1 | np | np | 47.9 | np | 26.7 | np | 4.8 | np | np | 2.4 | 90 |
| 2012-13 | | | | <u> </u> | | | | = 0 | | | 40.0 | |
| September | 34.9 | np | np | 39.5 | np | 20.2 | np | 5.6 | np | np | 10.0 | 81 |
| December | 35.3 | np | np | 39.7 | 2.6 | 13.6 | np | np | np | np | 3.4 | 66 |
| | | | | • • • • • • • • | WES | TERN AUS | STRALIA | | | | | • • • • • • • |
| 009–10 | 45.9 | 21.5 | 194.7 | 262.1 | 348.5 | 497.1 | 11.8 | 55.4 | 3.9 | 0.2 | 65.2 | 1 244 |
| 010-11 | 78.7 | 25.4 | 261.0 | 365.1 | 452.5 | 585.0 | 10.8 | 100.7 | np | np | 68.9 | 1 590 |
| 011-12 | 92.1 | 19.4 | 256.8 | 368.3 | 557.4 | 1 025.9 | 12.7 | 78.2 | np | np | 57.6 | 2 106 |
| 2010-11 | | | | | | | | | | | | |
| March | 15.6 | 5.4 | 65.1 | 86.0 | 108.9 | 124.4 | 2.6 | 22.6 | np | np | 16.2 | 362 |
| June | 21.0 | 5.1 | 68.8 | 94.9 | 122.3 | 189.9 | 3.7 | 20.2 | np | np | 17.1 | 449 |
| 2011–12 | | | | | | | | | | | | |
| September | 20.8 | 5.0 | 71.5 | 97.3 | 126.7 | 208.8 | 2.8 | 25.9 | np | np | 18.1 | 481 |
| December | 20.4 | 3.8 | 46.6 | 70.8 | 141.1 | 279.3 | 2.6 | 21.3 | np | np | 14.7 | 531 |
| March | 22.1 | 5.2 | 62.2 | 89.5 | 128.4 | 240.4 | 3.1 | 17.7 | np | np | 10.4 | 490 |
| June | 28.8 | 5.4 | 76.6 | 110.8 | 161.2 | 297.4 | 4.2 | 13.4 | np | np | 14.4 | 603 |
| 2012–13 | 22.2 | 4.0 | 10.0 | 60.4 | 140.2 | 040.7 | | 10.0 | 1 1 | | 10.4 | 400 |
| September December | 22.2 20.2 | 4.9 3.9 | 42.3 47.3 | 69.4 71.4 | 140.3 111.0 | 248.7 254.3 | np np | 12.0 11.2 | 1.1 np | np np | 12.4 14.6 | 488 470 |
| | | | | | | | | | | | | |
| | | | | | | TASMAN | IA | | | | | |
| 2009–10 | np | np | 0.8 | 5.0 | 5.8 | np | np | np | np | _ | 6.2 | 20 |
| 2010–11 | np | np | 2.1 | np | 9.1 | 2.6 | — | np | np | _ | np | 37 |
| 2011–12 | np | np | np | np | np | np | np | np | — | — | 20.8 | 39 |
| 2010–11 | | | | | | | | | | | | |
| March | np | np | 0.5 | np | 2.3 | 1.0 | — | — | np | _ | np | 9 |
| June 2011–12 | np | 1.0 | np | np | 1.9 | np | _ | _ | np | — | 5.0 | 9 |
| September | np | np | 0.3 | np | np | 0.5 | _ | np | _ | | 5.6 | 9 |
| December | np | np 1.2 | 0.3 np | np | np 1.9 | 0.5 np | np | np | _ | _ | 5.6 5.3 | 9 10 |
| March | np | np | np | np | np | 2.5 | | _ | _ | _ | 5.3 4.5 | 10 |
| June | np | 0.6 | np | np | np | np | _ | _ | _ | _ | 4.3 5.4 | 9 |
| 2012-13 | 114 | 0.0 | איי | 114 | איי | 114 | | | | | 0.4 | |
| September | np | 0.4 | np | np | np | 1.8 | np | _ | _ | _ | 5.7 | 10 |
| December | np | 0.4 | np | np | 1.2 | 2.5 | np | | | | 4.4 | 10 |

— nil or rounded to zero (including null cells)

np not available for publication but included in totals where applicable, unless

(a) From September quarter 2000 Publication tin, tungsten, scheelite, wolfram and construction materials were added to this category.

otherwise indicated



continued

| SELECTED BASE | METALS |
|---------------|---------|
| ••••• | ••••••• |

| | Copper | Silver, lead, zinc | Nickel, cobalt | Total | Gold | lron ore | Mineral sands | Uranium | Coal | Diamonds | Other(a) | Tota Minera Exploratio |
|--------------------|----------------|--------------------------|-------------------|-----------------|----------------|----------------|------------------|-------------------|----------------|------------|-----------------|------------------------------|
| Period | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$r |
| | | | | | | | | | | | | |
| | | | | | NORT | HERN TE | RRITORY | | | | | |
| 2009–10 | np | np | 3.6 | 15.5 | 44.4 | np | np | 38.7 | np | np | 33.4 | 149. |
| 2010–11 | 11.9 | 5.3 | 1.5 | 18.7 | 53.4 | 24.5 | np | 41.9 | np | np | 48.5 | 195.: |
| 2011–12 | 13.6 | np | np | 20.3 | 77.6 | np | np | 28.9 | np | np | 35.8 | 210.4 |
| 2010–11 | | | | | | | | | | | | |
| March | 1.0 | 1.0 | 0.2 | 2.2 | 10.0 | 4.5 | np | 8.7 | np | np | 7.3 | 34. |
| June | 4.5 | np | np | 5.7 | 15.9 | 5.0 | np | 8.8 | np | np | 16.2 | 55.0 |
| 2011–12 | | | | | | | | | | | | |
| September | 6.0 | np | np | 7.8 | 23.1 | 8.3 | np | 12.1 | np | np | 15.0 | 71.0 |
| December | 3.4 | np | np | 6.6 | 24.8 | 12.2 | np | 10.5 | np | np | 9.1 | 67. |
| March | 1.6 | np | np | 2.1 | 13.8 | np | np | 3.3 | np | np | 5.8 | 31.0 |
| June | 2.7 | np | np | 3.8 | 15.9 | 10.4 | np | 3.1 | np | — | 5.8 | 40. |
| 2012-13 | | | | | | | | | | | | |
| September | 3.5 | np | np | 4.7 | 19.7 | np | np | 3.4 | np | np | 9.3 | 47. |
| December | 2.7 | 1.5 | — | 4.2 | 11.0 | np | np | 2.5 | np | np | 6.6 | 33. |
| | • • • • • • • | • • • • • • | | • • • • • • • • | | AUSTRAL | ••••••••• | • • • • • • • • • | • • • • • • • | | • • • • • • • • | • • • • • • • • |
| 2009–10 | 201.6 | 51.6 | 203.9 | 457.2 | 575.4 | 524.1 | 28.3 | 169.0 | 321.1 | 10.3 | 147.1 | 2 232. |
| 2009-10 | 323.0 | 75.5 | 203.9 | 457.2 669.4 | 652.1 | 664.9 | 28.3 26.1 | 213.9 | 521.1 519.7 | 8.9 | 147.1 | 2 232. |
| 2010-11 2011-12 | 323.0 442.7 | 75.5 87.4 | 270.9 265.4 | 669.4 795.5 | 768.0 | 1 150.7 | 26.1 42.3 | 213.9 153.7 | 834.3 | 8.9 9.2 | 196.3 | 2 951. |
| | 442.1 | 01.4 | 205.4 | 195.5 | 108.0 | 1 150.7 | 42.5 | 155.7 | 034.3 | 9.2 | 199.5 | 3 955. |
| 2010-11 | 70.0 | 10.0 | 07.0 | 150 5 | 4.40.4 | | 0.0 | 10.4 | 400.0 | | 40.4 | |
| March | 70.9 | 18.0 | 67.6 | 156.5 | 146.4 | 144.1 | 6.2 | 43.4 | 109.6 | 0.6 | 43.4 | 650. |
| June | 101.5 | 19.8 | 71.6 | 192.9 | 178.2 | 214.7 | np | 46.6 | 202.7 | np | 60.3 | 907.4 |
| 2011–12 | 100.0 | 00.0 | 70.0 | 004 5 | 101.0 | 0047 | | 540 | 0074 | | co 7 | 000 |
| September | 108.9 | 22.0 | 73.6 | 204.5 | 184.2 | 234.7 | np | 54.0 | 227.4 | np | 62.7 | 983.4 |
| December | 114.6 98.7 | 22.9 21.2 | 49.3 64.1 | 186.8 184.0 | 200.0 168.8 | 311.8 267.9 | 11.0 9.3 | 45.6 29.3 | 217.7 177.5 | 2.2 1.1 | 57.2 38.2 | 1 032. 876. |
| March June | 98.7 120.4 | 21.2 21.4 | 64.1 78.4 | 184.0 220.2 | 168.8 215.0 | 267.9 336.2 | | 29.3 24.7 | 177.5 211.7 | | 38.2 41.1 | 876. 1061. |
| 2012–13 | 120.4 | 21.4 | 18.4 | 220.2 | 212.0 | 330.2 | np | 24.1 | 211.1 | np | 41.1 | 1 001. |
| September | 102.5 | 21.1 | 43.9 | 167.5 | 194.4 | 280.5 | 10.9 | 23.5 | 170.6 | 1.4 | 45.9 | 894. |
| | | | | | | | | | | | | 894. 823. |
| December | 92.1 | 19.6 | 49.3 | 161.0 | 162.7 | 278.4 | 11.0 | 20.8 | 149.2 | 1.6 | 39.2 | 82 |

nil or rounded to zero (including null cells)

np not available for publication but included in totals where applicable, unless

(a) From September quarter 2000 Publication tin, tungsten, scheelite, wolfram and construction materials were added to this category.

| | ONSHORE | | | OFFSHOR | OFFSHORE | | | TOTAL EXPENDITURE | | |
|------------------------|----------------|---------------|----------------|----------------|----------------|------------------|-------------------------------|------------------------------|-------------|--|
| | Drilling | Other | Total | Drilling | Other | Total | On production leases(a) | On all other leases(a) | Tota | |
| Period | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$ | |
| | • • • • • • | • • • • • • | | | | | | | • • • • • • | |
| | | | | URI | GINAL | | | | | |
| 2009–10 | 564.3 | 184.3 | 748.6 | 2 181.0 | 564.6 | 2 745.6 | 849.2 | 2 645.0 | 3 494. | |
| 2010–11 | 624.0 | 132.5 | 756.5 | 2 118.3 | 440.7 | 2 559.0 | 818.4 | 2 497.1 | 3 315. | |
| 2011–12 2010–11 | 636.9 | 282.8 | 919.7 | 1 652.4 | 624.9 | 2 277.3 | 590.4 | 2 606.6 | 3 197. | |
| March | 126.7 | 26.5 | 153.2 | 519.3 | 93.6 | 612.9 | 142.6 | 623.5 | 766. | |
| June 2011–12 | 143.8 | 42.5 | 186.4 | 525.7 | 137.2 | 662.9 | 134.9 | 714.4 | 849. | |
| September | 180.1 | 68.5 | 248.6 | 415.8 | 115.9 | 531.6 | 144.7 | 635.5 | 780 | |
| December | 199.8 | 78.5 | 278.3 | 455.6 | 163.2 | 618.7 | 136.7 | 760.4 | 897. | |
| March | 116.1 | 47.0 | 163.1 | 270.3 | 162.5 | 432.9 | 73.3 | 522.7 | 596. | |
| June 2012–13 | 140.9 | 88.8 | 229.7 | 510.8 | 183.3 | 694.1 | 235.7 | 688.0 | 923. | |
| September | 160.5 | 115.1 | 275.7 | 621.5 | 186.9 | 808.3 | 327.8 | 756.3 | 1 084 | |
| December | 254.2 | 100.5 | 354.6 | 789.8 | 254.2 | 1 044.0 | 465.6 | 933.0 | 1 398 | |
| | • • • • • • | • • • • • • | ••••• S | EASONALL | | | | | • • • • • • | |
| 2009–10 | 574.1 | 183.7 | 757.8 | 2 156.4 | 576.5 | 2 732.9 | 840.3 | 2 650.5 | 3 490 | |
| 2010-11 | 627.5 | 132.2 | 759.7 | 2 123.9 | 437.6 | 2 561.5 | 813.6 | 2 507.6 | 3 321 | |
| 2011–12 2010–11 | 633.6 | 279.5 | 913.1 | 1 649.8 | 619.9 | 2 269.6 | 577.9 | 2 604.8 | 3 182 | |
| March | 161.3 | 29.8 | 191.1 | 523.0 | 101.0 | 624.0 | 199.4 | 615.6 | 815 | |
| June | 148.2 | 41.2 | 189.4 | 487.5 | 123.7 | 611.3 | 133.1 | 667.6 | 800 | |
| 2011–12 | | | | | | | | | | |
| September | 174.6 | 65.4 | 240.0 | 438.3 | 136.2 | 574.5 | 123.8 | 690.8 | 814 | |
| December | 164.2 | 75.0 | 239.2 | 468.4 | 147.7 | 616.1 | 119.6 | 735.6 | 855 | |
| March | 146.1 | 54.3 | 200.4 | 268.6 | 171.2 | 439.8 | 106.5 | 533.7 | 640 | |
| June 2012–13 | 149.0 | 85.9 | 234.9 | 472.1 | 166.6 | 638.7 | 232.8 | 640.8 | 873 | |
| September | 155.8 | 108.0 | 263.7 | 647.8 | 215.6 | 863.4 | 287.2 | 839.9 | 1 127 | |
| December | 205.4 | 95.5 | 300.9 | 795.3 | 228.4 | 1 023.7 | 405.7 | 918.9 | 1 324 | |
| | • • • • • • | • • • • • • | | TR | END | • • • • • • • • | | | | |
| 2009–10 | 573.2 | 190.5 | 763.7 | 2 152.0 | 590.5 | 2 742.4 | 845.5 | 2 660.6 | 3 506. | |
| 2010–11 | 634.5 | | 775.7 | 2 140.5 | | 2 579.2 | 817.9 | 2 537.0 | 3 354 | |
| 2011–12 | 625.6 | 268.5 | 894.1 | 1 628.5 | 618.5 | 2 246.9 | 558.8 | 2 585.6 | 3 140 | |
| 2010–11 | | | | | | | | | | |
| March | 154.8 | 30.8 | 185.7 | 510.7 | 109.1 | 619.8 | 193.5 | 611.9 | 805 | |
| June 2011–12 | 159.7 | 45.7 | 205.3 | 492.1 | 119.7 | 611.8 | 150.9 | 666.2 | 817 | |
| September | 164.4 | 59.5 | 223.8 | 449.1 | 135.7 | 584.8 | 115.3 | 693.4 | 808 | |
| December | 160.8 | 65.5 | 226.3 | 388.5 | 149.7 | 538.1 | 109.9 | 654.5 | 764 | |
| March | 150.9 | 71.8 | 222.7 | 375.5 | 162.9 | 538.4 | 139.9 | 621.2 | 761 | |
| June | 151.1 | 83.2 | 234.1 | 468.9 | 182.5 | 651.4 | 212.0 | 674.0 | 884 | |
| 2012–13 | | | | | | 005 · | | | | |
| | | | | | | 000 1 | 201 6 | 700 0 | 1 0 9 0 | |
| September December | 166.8 189.0 | 96.2 104.3 | 262.9 295.3 | 622.7 775.3 | 205.3 225.3 | 828.1 1 000.6 | 301.6 380.8 | 789.8 903.7 | 1 309. | |

(a) Refer to Glossary for definition

| | New South Wales | Victoria | Queensland | South Australia | Western Australia | Tasmania | Northern Territory(a) | Total |
|------------------------|-----------------------|---------------|------------|---------------------|----------------------|-----------------|--------------------------|-------------------|
| Period | \$m | \$m | \$m | \$m | \$m | \$m | \$m | \$m |
| • • • • • • • • • • • | • • • • • • • | • • • • • • • | | • • • • • • • • • • | • • • • • • • • • | | | |
| | | | | ORIGINAL | | | | |
| 2009–10 | 108.9 | 134.2 | 480.5 | np | 2 484.6 | np | 152.3 | 3 494.1 |
| 2010-11 | 127.1 | np | 463.1 | np | 2 402.3 | np | 88.0 | 3 315.4 |
| 2011-12 | 145.5 | 41.5 | 467.6 | 174.3 | 2 117.2 | np | np | 3 197.0 |
| 2010-11 | | | | | | | | |
| March | 23.8 | np | 88.1 | 28.3 | 607.0 | np | 6.0 | 766.1 |
| June | 28.4 | np | 104.6 | 38.0 | 639.0 | np | 33.7 | 849.3 |
| 2011–12 | | | | | | | | |
| September | np | 0.7 | 141.8 | 35.8 | 487.9 | np | np | 780.2 |
| December | np | np | 140.5 | 39.1 | 611.9 | np | 53.3 | 897.0 |
| March | 23.1 | np | 85.4 | 40.1 | 393.2 | np | 47.9 | 596.0 |
| June | np | np | 100.0 | 59.3 | 624.2 | np | 70.6 | 923.8 |
| 2012–13 | | | | | | | | |
| September | np | np | 112.3 | 69.3 | 753.9 | np | 114.1 | 1 084.0 |
| December | np | np | 159.5 | 122.3 | 985.3 | np | 86.0 | 1 398.6 |
| •••• | • • • • • • • | • • • • • • • | | ••••• | • • • • • • • • • • | • • • • • • • • | • • • • • • • • • • | • • • • • • • • • |
| | | | SEASO | NALLY AD. | JUSIED | | | |
| 2009–10 | 109.8 | np | 488.0 | np | 2 481.1 | np | 152.3 | 3 490.7 |
| 2010–11 | 122.7 | np | 463.7 | np | 2 406.2 | np | 88.0 | 3 321.1 |
| 2011–12 | 145.6 | np | 463.1 | 175.0 | 2 107.3 | np | np | 3 182.7 |
| 2010–11 | | | | | | | | |
| March | 26.3 | np | 109.7 | 37.1 | 616.5 | np | 6.0 | 815.0 |
| June | 29.2 | np | 112.1 | 33.6 | 593.1 | np | 33.7 | 800.7 |
| 2011-12 | | | | | | | | |
| September | np | np | 133.7 | 36.4 | 522.7 | np | np | 814.6 |
| December | np | np | 116.6 | 35.5 | 607.7 | np | 53.4 | 855.2 |
| March | 25.9 | np | 107.6 | 50.6 | 402.0 | np | 47.9 | 640.2 |
| June 2012–13 | np | np | 106.1 | 52.3 | 574.9 | np | 70.0 | 873.6 |
| September | np | np | 105.3 | 70.9 | 798.0 | np | 113.6 | 1 127.1 |
| December | np | np | 131.0 | 110.7 | 960.8 | np | 85.8 | 1 324.6 |
| | | | | | | | | |
| | | | | TREND | | | | |
| 2009–10 | 105.3 | np | 489.0 | np | 2 501.9 | np | 165.3 | 3 506.1 |
| 2010-11 | 133.9 | np | 468.4 | np | 2 401.9 | np | 97.8 | 3 354.9 |
| 2011-12 | 137.0 | np | 457.7 | 176.8 | 2 098.2 | np | np | 3 140.6 |
| 2010-11 | | · | | | | | | |
| March | 31.4 | np | 109.9 | 29.1 | 588.1 | np | 19.8 | 805.5 |
| June | 34.8 | np | 116.3 | 34.4 | 586.8 | np | 37.5 | 817.2 |
| 2011–12 | | | | | | | | |
| September | np | np | 122.7 | 36.6 | 561.5 | np | np | 808.7 |
| December | np | np | 119.2 | 38.9 | 507.8 | np | 56.9 | 764.4 |
| March | 33.7 | np | 109.5 | 44.5 | 499.5 | np | 60.0 | 761.1 |
| June | np | np | 106.4 | 57.6 | 597.8 | np | 74.6 | 884.7 |
| 2012–13 | | | | | | | | |
| September | np | np | 112.4 | 77.1 | 762.8 | np | 91.8 | 1 090.5 |
| December | np | np | 120.8 | 98.4 | 933.3 | np | 98.9 | 1 309.5 |
| • • • • • • • • • • • | | | | | | | | |

np not available for publication but included in totals where applicable, unless otherwise indicated

(a) Also contains some additional areas. See paragraphs 5 and 6 of the Explanatory Notes.

EXPLANATORY NOTES

| INTRODUCTION | 1 The private sector exploration statistics appearing in this publication have been collected and compiled from the Mineral Exploration and Petroleum Exploration quarterly censuses conducted by the Australian Bureau of Statistics. This publication contains actual and expected exploration expenditure. |
|---------------------|---|
| SCOPE AND COVERAGE | 2 The Mineral Exploration and Petroleum Exploration censuses cover private enterprises known to be engaged in exploration in Australia, and in Australian waters including the Joint Petroleum Development Area (JPDA), regardless of the main activity of the explorer. |
| | 3 The Joint Petroleum Development Area (JPDA) is an area in the Timor Sea, about 500 km north west of Darwin. The JPDA consists of the area previously referred to as Area A of the Zone of Cooperation (ZOC). A treaty was signed with Indonesia in 1989 to enable exploration for and development of petroleum resources in this area. Following East Timor's separation from Indonesia, arrangements continued on a transitional basis between Australia and the United Nations Transitional Administration in East Timor (UNTAET) on behalf of East Timor. On 20 May 2002, the newly independent East Timor and Australia accepted arrangements as proposed in the new Timor Sea Treaty (based on an 'Exchange of Notes' between the two countries). A new Treaty, which entered into force on the 2 April 2003, provides the necessary framework arrangements for companies to exploit resources in the JPDA. |
| | 4 The areas formerly known as Areas B and C of the Zone of Cooperation no longer exist under this arrangement. Since 20 May 2002, ZOCB is simply a part of Australia's waters, and ZOCC a part of East Timor's. |
| | 5 Exploration in the JPDA is included in estimates for the Northern Territory. Further, as a reflection of the joint Australia/East Timor administration of exploration and production activity in the JPDA, 50% of exploration expenditure in the JPDA is excluded from the estimates. The feature article 'Statistical Treatment of Economic Activity in the Timor Sea' published in the September Quarter 2003 issue of <i>Australian National Accounts: National Income, Expenditure and Product</i> (cat. no. 5206.0) provides further details. |
| | 6 The tenements in the Ashmore and Cartier Islands are administered by the Northern Territory Department of Mines and Energy. Therefore all petroleum exploration expenditure in this area has been included with the Northern Territory data. |
| SEASONAL ADJUSTMENT | 7 Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences can be more clearly recognised. Seasonal adjustment does not aim to remove the irregular or non-seasonal influences which may be present in any particular series. |
| | 8 These irregular influences that are volatile or unsystematic can make it difficult to interpret the movement of the series even after adjustment for seasonal variation. This means that quarter-to-quarter movements of seasonally adjusted estimates may not be reliable indicators of trend behaviour. |
| | 9 In this publication, the seasonally adjusted estimates are produced by the concurrent seasonal adjustment method which takes account of the latest available original estimates. This method improves the estimation of seasonal factors, and therefore, the seasonally adjusted and trend estimates for the current and previous quarters. As a result of this improvement, revisions to the seasonally adjusted and trend estimates will be observed for recent periods. A more detailed review is conducted on an annual basis. |
| | 10 The revision properties of the seasonally adjusted and trend estimates can be improved by the use of autoregressive integrated moving average (ARIMA) modelling. ARIMA modelling relies on the characteristics of the series being analysed to project future period data. The projected values are temporary, intermediate values, that are |

EXPLANATORY NOTES *continued*

| SEASONAL ADJUSTMENT continued | only used internally to improve the estimation of the seasonal factors. The projected data do not affect the original estimates and are discarded at the end of the seasonal adjustment process. The Mineral Exploration collection uses ARIMA modelling where appropriate for individual time series. The ARIMA model is assessed as part of the annual review. For more information on the details of ARIMA modelling see the feature article: <i>Use of ARIMA modelling to reduce revisions</i> in the October 2004 issue of <i>Australian Economic Indicators</i> (cat. no. 1350.0). |
|-------------------------------------|--|
| TREND ESTIMATES | 11 The smoothing of seasonally adjusted series to create trend estimates reduces the impact of the irregular component of the seasonally adjusted series. |
| | 12 The trend estimates are derived by applying a 7-term Henderson moving average to the seasonally adjusted series. The 7-term Henderson average is symmetric but, as the end of a time series is approached, asymmetric forms of the average are applied. Unlike the weights of the standard 7-term Henderson moving average, the weights employed here have been tailored to suit particular characteristics of the individual series. While the asymmetric weights enable trend estimates for recent quarters to be produced, 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. |
| | 13 Information Paper: A Guide to Interpreting Time Series, Monitoring Trends, an Overview (cat. no. 1349.0), can be obtained by contacting Time Series Analysis Canberra on (02) 6252 6345 or e-mail <time.series.analysis@abs.gov.au>.</time.series.analysis@abs.gov.au> |
| EXPECTED EXPLORATION EXPENDITURE | 14 Expected expenditure is collected in June and December quarter each year. Businesses are asked to report their expected expenditure for the next six months. |
| | 15 From the June quarter 2000 publication, the basis for the Expected Mineral Exploration Expenditure series changed. Prior to June 2000, the expected estimates released were simple aggregates of data compiled through the quarterly Mineral Exploration collection. However, these aggregates underestimated actual expenditure to a fairly consistent degree. The consistency with which the published data underestimated actual expenditure suggested that adjustments to improve the accuracy and usefulness of the estimates of expected expenditure would be possible. |
| | 16 In the period since June 2000, such adjustments have been made to reported expected exploration data resulting in estimates which better predict actual expenditure for the same period. For more information regarding the adjustments made to the Expected Mineral Exploration Expenditure series, see the feature article in the June quarter 2000 and the appendix in the December quarter 2002 issue of this publication. Since the June quarter 2003 issue, both unadjusted and adjusted expectations data have been presented in this publication. |
| ACKNOWLEDGMENT | 17 ABS publications draw extensively on information provided freely by individuals, businesses, government and other organisations. Their continued cooperation is appreciated: without it a 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 <i>Census and Statistics Act 1905</i> . |
| RELATED PUBLICATIONS | 18 Users may also wish to refer to the following publications which are available from the ABS web site: Private New Capital Expenditure and Expected Expenditure, Australia (cat. no. 5625.0) Australian Mining Industry (cat. no. 8414.0) Mining Operations, Australia (cat. no. 8415.0) |

EXPLANATORY NOTES continued

| ABS DATA AVAILABLE ELECTRONICALLY | 19 Current publications and other products released by the ABS are available from the Statistics View. The ABS also issues a daily <i>Release Advice</i> on the web site which details products to be released in the week ahead. | | | | |
|--------------------------------------|--|--|--|--|--|
| | 20 Details of wells and metres drilled in petroleum exploration are available from Geoscience Australia's <i>Oil and Gas Resources of Australia</i> available at www.ga.gov.au. | | | | |
| EFFECTS OF ROUNDING | 21 Where figures have been rounded discrepancies may occur between the sums of the component items and their totals. | | | | |

GLOSSARY

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| Development | Phase usually following exploration where a prospective discovery (e.g. proven oil or gas field or concentrate of ore) is brought into production or for extending the life of a current mine or well. Activities may include preparing the ground by the removal of overburden, constructing shafts, drives and winzes; or by drilling and completing wells. All activities are for the purposes of commencing extraction/mining or extending production. |
|----------------------------|---|
| Exploration | Activity involves searching for concentrations of naturally occurring solid, liquid or gaseous materials and includes new field wildcat and stratigraphical and extension/appraisal wells and mineral appraisals intended to delineate or greatly extend the limits of known deposits by geological, geophysical, geochemical, drilling or other methods. This includes drilling of boreholes, construction of shafts and adits primarily for exploration purposes but excludes activity of a developmental or production nature. Exploration for water is excluded. |
| Exploration expenditure | Covers all expenditure (capitalised and non-capitalised) during the exploratory or evaluation stages in Australia, Australian waters, and the JPDA. Costs include cost of exploration, determination of recoverable reserves, engineering and economic feasibility studies, procurement of finance, gaining access to reserves, construction of pilot plants and all technical and administrative overheads directly associated with these functions. Examples are costs of satellite imagery, airborne and seismic surveys, use of geophysical and other instruments, geochemical surveys and map preparation; licence fees, land access and legal costs; geologist inspections, chemical analysis and payments to employees and contractors. Cash bids for offshore petroleum exploration permits are also included. |
| Exploration licence/permit | Is designed to cover the exploration phase of a project and confers exclusive rights to the exploration for and recovery of samples from the area designated. These rights are granted by relevant Commonwealth, State or Territory Governments. |
| Minerals | Are a naturally occurring inorganic element or compound having an orderly internal structure and characteristic chemical composition, crystal form, and physical properties. These, for example, comprise of metallic minerals, such as copper, silver, lead-zinc, nickel, cobalt, gold, iron ore, mineral sands, uranium and non-metallic minerals such as coal, diamonds and other precious and semi-precious stones and construction materials (e.g. gravel and sand). |
| Mining licence/lease | Covers the commercial mining phase of a project for the licenced area. This licence authorises both full recovery and further exploration to occur. |
| Offshore | Commences from the low water mark to three nautical miles out (referred to as coastal waters) under State and Northern Territory legislation and extends to those areas beyond coastal waters governed by the Commonwealth under the <i>Petroleum</i> (<i>Submerged Lands</i>) <i>Act 1967</i> . |
| Onshore | Includes all Australian territorial lands to the low water mark. |
| Petroleum | Is a naturally occurring hydrocarbon or mixture of hydrocarbons. As oil or gas in solution (e.g. Liquid Petroleum Gas), it is widespread in Australian sedimentary rocks. |
| Retention licence | Is an intermediate form of tenure between the exploration licence and mining licence allowing the holder of the exploration licence to retain title to the area for a limited time. It is designed to ensure the retention of rights pending the transition of a project from the exploration phase to the commercial mining phase. |
| Selected base metals | Are made up of the following minerals: copper, silver, lead-zinc, nickel and cobalt. |

GLOSSARY continued

| Type of deposit | Classification used: <i>Existing deposits</i> – Exploration that is delineating or proving up an existing deposit, including extensions and infill, which has been classified as an Inferred Mineral Resource or higher. <i>New deposits</i> – Exploration on previously unknown mineralisations or known mineralisations yet to be classified as an Inferred Mineral Resource or higher. They include: Exploration resulting in finding mineralisation that was previously unknown. Exploration on previously known mineralisation that has not been subjected to modern exploration. Exploration within an existing mining tenement for the purpose of finding new sources of mineralisation that have not already been classified as at least an Inferred Mineral Resource. |
|---------------------|--|
| Type of expenditure | Classification used: <i>Drilling expenditure</i> – includes wages and salaries paid to employees; purchase, rental, hiring as well as operation and maintenance of drilling equipment together with activities associated with accessing the areas where drilling is to occur (e.g. road creation, vessel/transport hiring, site preparation and restoration). Also includes expenditure on drilling done by contractors. <i>Other expenditure</i> – includes all other exploration costs, other than those associated with drilling expenditure. This expenditure includes purchase of capital and non-capital items, rental or hiring fees, service fees relating to surveying and analysis, administrative and legal fees associated with obtaining licences/permits, land access, map preparation, feasibility studies, environmental impacts studies and restoration costs. |
| Type of lease | Classifications used: <i>Production lease</i> – is an area on which development to extract coal, minerals, liquids or gaseous materials is underway or where extraction/mining of these substances is already occurring. See also mining licence/lease. <i>All other areas</i> – are those areas outside the Production lease. These include areas under exploration licence/permit or retention licence, as well as non-licenced areas being assessed for exploration, e.g. through airborne surveys. |

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