

MINERAL AND PETROLEUM EXPLORATION

AUSTRALIA

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CONTENTS

	Notes	age 2
	Summary of findings	
ΓΑΙ	BLE	
	1 Private exploration, actual and expected expenditure	. 7
	2 Mineral exploration, (other than for petroleum), expenditure and metres drilled	. 7
	3 Mineral exploration, (other than for petroleum), expenditure by state and	
	type of deposit	. 8
	4 Mineral exploration, (other than for petroleum), expenditure by state and territory	. 9
	5 Mineral exploration, (other than for petroleum), expenditure by state and	
	mineral sought	10
	6 Petroleum exploration, expenditure by onshore and offshore	13
	7 Petroleum exploration, expenditure by state and territory	13
A D	DITIONAL INFORMATION	
	Explanatory Notes	14
	Glossary	17

INQUIRIES

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

December 2008 11 March 2009 March 2009 10 June 2009 June 2009 9 September 2009 September 2009 9 December 2009

CHANGES TO THIS ISSUE There are no changes in this issue.

ABBREVIATIONS ABS Australian Bureau of Statistics

GST goods and services tax

JPDA Joint Petroleum Development Area

UNTAET United Nations Transitional Administration in East Timor

WST wholesale sales tax
ZOC Zone of Cooperation

Brian Pink

Australian Statistician

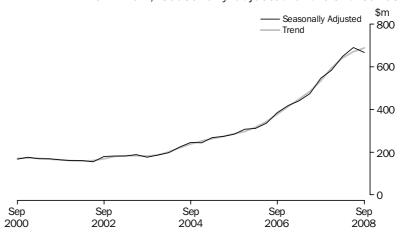
SUMMARY OF FINDINGS

MINERAL EXPLORATION (OTHER THAN FOR PETROLEUM)

TREND ESTIMATES

The trend estimate for total mineral exploration expenditure rose 17.2m (2.6%) to 688.1m in the September quarter 2008. The current estimate is 28.5% higher than the September quarter 2007 estimate.

MINERAL EXPLORATION, Seasonally adjusted and trend series



The largest contributions to the rise this quarter were in Western Australia (up 20.0m or 5.7%) and Queensland (up 2.6m or 2.3%). The largest fall was in South Australia (down 6.6m or 6.6%).

The trend estimate for metres drilled fell 0.2% this quarter. The current estimate is 8.2% higher than the September quarter estimate for last year.

MINERAL EXPLORATION (OTHER THAN FOR PETROLEUM)

EXPLORATION EXPENDITURE

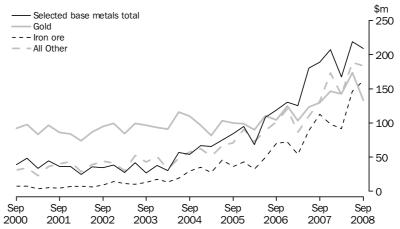
The seasonally adjusted estimate of mineral exploration expenditure fell \$23.4m (3.4%) to \$666.6m in the September quarter 2008. The largest falls this quarter were in South Australia (down \$8.6m or 10.2%) and Queensland (down \$7.2m or 6.2%).

In original terms, mineral exploration expenditure fell \$40.4m (5.5%). South Australia had the largest fall of \$20.2m (21.2%), followed by Queensland which fell \$17.3m (13.6%). The largest rise was in Western Australia (up \$2.6m or 0.7%).

In original terms, exploration on areas of new deposits fell 34.8m (11.4%), while expenditure on areas of existing deposits fell 5.6m (1.3%).

In original terms, the largest fall by minerals sought came from expenditure on gold exploration (down \$40.7m or 23.4%), with the largest fall occurring in Western Australia. The next largest fall came from expenditure on copper exploration (down \$14.1m or 15.1%). The largest rise in exploration expenditure by minerals sought this quarter was for iron ore (up \$15.4m or 10.5%).

MINERAL EXPLORATION, Original series

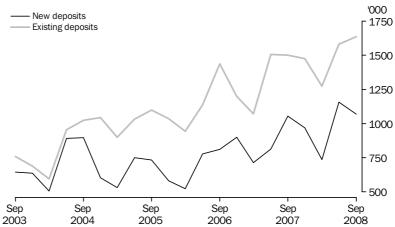


MINERAL EXPLORATION (OTHER THAN FOR PETROLEUM)

METRES DRILLED

In seasonally adjusted terms, total metres drilled fell 4.6% in the September quarter 2008. In original terms total metres drilled fell 1.3%. Drilling in areas of new deposits fell 7.6% and drilling in areas of existing deposits rose 3.3%.

METRES DRILLED, Original series



PETROLEUM EXPLORATION

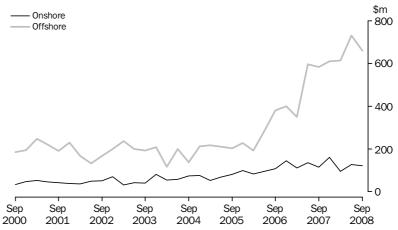
OVERVIEW

Expenditure on petroleum exploration for the September quarter 2008 fell \$75.9m (8.9%) to \$781.3m.

Expenditure on exploration on production leases rose 48.1m (31.9%), while exploration on all other areas fell 124.0m (17.6%) this quarter.

Offshore exploration fell \$70.3m (9.6%) in the September quarter 2008, while onshore exploration expenditure fell 5.6m (4.4%).

PETROLEUM EXPLORATION, Original series



REGIONAL DATA

In the September quarter 2008, Western Australia had the largest fall in petroleum exploration expenditure of \$77.4m (12.5%). Northern Territory had the largest rise of \$36.9m (113.2%).



PRIVATE EXPLORATION, ACTUAL AND EXPECTED EXPENDITURE

		XPLORATION				PETROLEUM ONSHORE PETROLEUM OFFSHORE					
	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	%
••••••••••••••••••••••••										• • • • • • •	
2005-06	1 240.7	927.6	133.7	1 124.6	110.3	355.8	514.3	69.2	906.1	876.7	103.4
2006–07	1 714.6	1 482.9	115.6	1 730.9	99.1	498.2	436.8	114.1	1 727.3	1 542.3	112.0
2007-08	2 461.4	2 127.9	115.7	2 448.2	100.5	493.8	461.9	106.9	2 541.1	2 826.1	89.9
2006-2007											
Jun half	871.8	856.0	101.8	937.3	93.0	245.9	186.9	131.6	946.5	917.7	103.1
2007-2008											
Dec half	1 189.3	959.1	124.0	1 187.6	100.1	273.2	257.5	106.1	1 195.1	1 267.3	94.3
Jun half	1 272.1	1 168.8	108.8	1 260.6	100.9	220.6	204.4	107.9	1 346.0	1 558.7	86.4
2008-2009											
Dec half	nya	1 328.4	nya	1 625.6	nya	nya	248.8	nya	nya	1 327.2	nya

nya not yet available



MINERAL EXPLORATION, (Other than for petroleum)—Expenditure and metres drilled

	EXPENDITU	RE			••••••	METRES DRILLED				
	New deposits	Existing deposits	Total	Seasonally Adjusted	Trend	New deposits	Existing deposits	Total	Seasonally Adjusted	Trend
Period	\$m	\$m	\$m	\$m	\$m	'000	'000	'000	'000	'000
• • • • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • •
2005-06	457.5	783.4	1 240.7			2 618	4 219	6 837		
2006-07	610.0	1 104.6	1 714.6			3 240	5 215	8 455		
2007-08	1 012.8	1 448.6	2 461.4			3 920	5 836	9 756		
2006-07										
December	160.2	288.0	448.2	418.9	413.9	900	1 199	2 100	2 123	2 097
March	132.5	236.8	369.3	440.8	446.9	713	1 071	1 784	2 149	2 153
June	178.7	323.7	502.5	474.0	485.3	814	1 506	2 320	2 167	2 210
2007-08										
September	209.5	353.9	563.4	547.4	535.4	1 056	1 501	2 557	2 309	2 305
December	274.2	351.7	625.9	583.6	594.7	970	1 476	2 446	2 458	2 414
March	223.6	320.3	544.0	647.2	641.3	737	1 275	2 013	2 431	2 478
June	305.4	422.7	728.1	690.0	670.9	1 157	1 583	2 740	2 564	2 497
2008-09										
September	270.6	417.1	687.7	666.6	688.1	1 069	1 636	2 705	2 447	2 493

^{..} not applicable

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

New Sem Sem		New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australia
2005-06	Period			-				•	
2005-06									
2006-07				NE	W DEPOSI	TS			
2007-08	2005-06	28.6	30.3	61.4	38.4	268.6	9.7	20.4	457.5
December 10.9 12.6 28.3 9.4 86.4 1.4 11.4 16.0	2006-07	48.1	38.2	83.6	63.5	332.0	9.8	34.7	610.0
December 10.9 12.6 28.3 9.4 86.4 1.4 11.4 160.2 March 12.5 8.8 14.6 15.2 74.1 1.4 5.8 132.5 June 15.7 10.3 21.9 24.3 94.4 2.9 9.3 178.7 2007-08 September 17.9 7.8 23.2 31.2 110.9 2.1 16.5 2095-06 26.2 14.3 39.6 39.7 135.0 3.4 16.1 274.2 March 25.3 12.1 22.7 31.9 117.4 6.7 7.7 223.6 1.0 2.0 2.0 16.7 305.4 2008-09 2.0 2	2007–08	93.5	48.0	128.1	134.4	536.9	15.0	56.9	1 012.8
March 12.5 8.8 14.6 15.2 74.1 1.4 5.8 132.5 June 15.7 10.3 21.9 24.3 94.4 2.9 9.3 178.7 Z007-08 September 17.9 7.8 23.2 31.2 110.9 2.1 16.5 209.5 December 26.2 14.3 39.6 39.7 135.0 3.4 16.1 274.2 March 25.3 12.1 22.7 31.9 117.4 6.7 7.7 223.6 June 24.2 13.8 42.6 31.6 173.6 2.9 16.7 305.4 Z008-09 September 18.2 11.9 36.0 24.3 157.3 3.0 19.9 270.6 Z008-06 85.4 43.8 157.4 108.1 321.6 12.8 54.4 783.4 Z009-07 96.0 44.3 188.6 197.2 507.1 14.0 57.4 1104.6 Z009-07 96.0 44.3 188.6 197.2 507.1 14.0 57.4 1104.6 Z009-07 96.0 44.3 188.6 197.2 507.1 14.0 57.4 1104.6 Z009-07 96.0 44.3 188.6 197.2 507.1 14.0 57.4 1104.6 Z009-08 September 32.2 9.5 45.4 49.7 130.8 4.5 15.9 288.0 March 19.8 81.1 39.8 51.3 105.7 1.5 10.5 236.8 June 17.8 11.0 58.1 59.7 157.4 5.4 14.3 323.7	2006-07								
December 15.7 10.3 21.9 24.3 94.4 2.9 9.3 178.7 2007-08 September 17.9 7.8 23.2 31.2 110.9 2.1 16.5 209.5 December 26.2 14.3 39.6 39.7 135.0 3.4 16.1 274.2	December	10.9	12.6	28.3	9.4	86.4	1.4	11.4	160.2
September 16.5 23.2 31.2 110.9 2.1 16.5 274.2	March	12.5	8.8	14.6	15.2	74.1	1.4	5.8	132.5
September December 17.9 7.8 23.2 31.2 110.9 2.1 16.5 209.5 December December 26.2 14.3 39.6 39.7 135.0 3.4 16.1 274.2 June 24.2 13.8 42.6 31.6 173.6 2.9 16.7 305.4 2008-09 September 18.2 11.9 36.0 24.3 157.3 3.0 19.9 270.6 EXISTING DEPOSITS EXISTING DEPOSITS 2005-06 85.4 43.8 157.4 108.1 321.6 12.8 54.4 783.4 2006-07 96.0 44.3 186.6 197.2 507.1 14.0 57.4 110.46 2007-08 96.4 45.7 269.7 220.7 722.9 17.4 75.8 1 448.6 2006-07 96.0 45.4 49.7 130.8 4.5 15.9 280.0 March <td></td> <td>15.7</td> <td>10.3</td> <td>21.9</td> <td>24.3</td> <td>94.4</td> <td>2.9</td> <td>9.3</td> <td>178.7</td>		15.7	10.3	21.9	24.3	94.4	2.9	9.3	178.7
December 26.2									
March June 25.3 June 12.1 June 24.2 Ja.8 Ja.8 Ja.6 Ja.6 Ja.6 Ja.6 Ja.6 Ja.6 Ja.6 Ja.6	•								
June 24.2 13.8 42.6 31.6 173.6 2.9 16.7 305.4 2008-09 September 18.2 11.9 36.0 24.3 157.3 3.0 19.9 270.6									
September 18.2 11.9 36.0 24.3 157.3 30.0 19.9 270.6 EXISTING DEPOSITS 2005-06 85.4 43.8 157.4 108.1 321.6 12.8 54.4 783.4 2006-07 96.0 44.3 188.6 197.2 507.1 14.0 57.4 1104.6 2006-07 96.0 44.3 188.6 197.2 507.1 14.0 57.4 1104.6 2006-07 96.0 44.3 188.6 197.2 507.1 14.0 57.4 1104.6 2006-07 96.0 45.4 49.7 130.8 4.5 15.9 288.0 March 19.8 8.1 39.8 51.3 105.7 1.5 10.5 236.8 June 17.8 11.0 58.1 59.7 157.4 50.4 14.9 353.9 December 22.1 11.5 63.5 <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>									
September 18.2 11.9 36.0 24.3 157.3 3.0 19.9 270.6 EXISTING DEPOSITS EXISTING DEPOSITS 2005-06 85.4 43.8 157.4 108.1 321.6 12.8 54.4 783.4 2006-07 96.0 44.3 188.6 197.2 507.1 14.0 57.4 1104.6 2006-07 96.4 45.7 269.7 220.7 722.9 17.4 75.8 1448.6 2006-07 December 32.2 9.5 45.4 49.7 130.8 4.5 15.9 288.0 March 19.8 8.1 39.8 51.3 105.7 1.5 10.5 236.8 30.2 2007-08 28.0 43.3 323.7 2007-08 16.9 16.9 353.8 35.3 178.8 3.6 22.1 351.7 351.7 348.0 22.5 6.9 16.9 351.7 351.7 348.0 22.1 <td></td> <td>24.2</td> <td>13.8</td> <td>42.6</td> <td>31.6</td> <td>173.6</td> <td>2.9</td> <td>16.7</td> <td>305.4</td>		24.2	13.8	42.6	31.6	173.6	2.9	16.7	305.4
2005-06 85.4 43.8 157.4 108.1 321.6 12.8 54.4 783.4 2006-07 96.0 44.3 188.6 197.2 507.1 14.0 57.4 1104.6 2007-08 96.4 45.7 269.7 220.7 722.9 17.4 75.8 1448.6 2006-07 December 32.2 9.5 45.4 49.7 130.8 4.5 15.9 288.0 March 19.8 8.1 39.8 51.3 105.7 1.5 10.5 236.8 June 17.8 11.0 58.1 59.7 157.4 5.4 14.3 323.7 2007-08 September 20.0 9.9 61.7 56.0 182.5 6.9 16.9 353.9 December 22.1 11.0 60.3 53.8 178.8 3.6 22.1 351.7 March 27.0 11.5 63.5 47.5 154.0 1.5<		18.2	11.9	36.0	24.3	157.3	3.0	19.9	270.6
2005-06 85.4 43.8 157.4 108.1 321.6 12.8 54.4 783.4 2006-07 96.0 44.3 188.6 197.2 507.1 14.0 57.4 1104.6 2007-08 96.4 45.7 269.7 220.7 722.9 17.4 75.8 1448.6 2006-07 December 32.2 9.5 45.4 49.7 130.8 4.5 15.9 288.0 March 19.8 8.1 39.8 51.3 105.7 1.5 10.5 236.8 June 17.8 11.0 58.1 59.7 157.4 5.4 14.3 323.7 2007-08 September 20.0 9.9 61.7 56.0 182.5 6.9 16.9 353.9 December 22.1 11.0 60.3 53.8 178.8 3.6 22.1 351.7 March 27.0 11.5 63.5 47.5 154.0 1.5<	• • • • • • • • • •	• • • • • •	• • • • • • •				• • • • • • • •	• • • • • • • •	• • • • • • •
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March June 19.8 june 8.1 june 39.8 june 51.3 june 105.7 june 1.5 june 10.5 june 236.8 june 323.7 june 2007-08 September value 0.0 june 9.9 june 61.7 june 56.0 june 16.9 june 353.9 june 353.8 june 178.8 june 3.6 june 22.1 june 11.5 june 63.5 june 47.5 june 154.0 june 1.5 june 15.3 june 320.3 june 27.2 june 13.3 june 84.2 june 63.5 june 207.6 june 5.4 june 21.5 june 422.7 june 422.5 june 422.7 june 422.7 june 422.5 june 422.5 june	2006-07								
June 17.8 11.0 58.1 59.7 157.4 5.4 14.3 323.7	December	32.2	9.5	45.4	49.7	130.8	4.5	15.9	288.0
September 20.0 9.9 61.7 56.0 182.5 6.9 16.9 353.9 December 22.1 11.0 60.3 53.8 178.8 3.6 22.1 351.7 March 27.0 11.5 63.5 47.5 154.0 1.5 15.3 320.3 June 27.2 13.3 84.2 63.5 207.6 5.4 21.5 422.7 2008-09 September 30.9 10.5 73.5 50.7 226.5 4.3 20.7 417.1 2005-06 114.0 74.1 218.8 146.5 590.2 22.6 74.7 1240.7 2006-07 144.1 82.5 272.3 260.7 839.1 23.7 92.2 1714.6 2006-07 144.1 82.5 272.3 260.7 839.1 23.7 92.2 1714.6 2006-07 2006-07 39.9 93.7 397.8 355.2 1259.8 32.4 132.7 2461.4 2006-07 December 43.0 22.1 73.7 59.1 217.3 5.9 27.3 448.2 March 32.3 16.9 54.4 66.5 179.9 3.0 16.4 369.3 June 33.5 21.2 80.0 84.1 251.8 8.4 23.5 502.5 2007-08 September 38.0 17.7 84.9 87.2 293.3 9.0 33.4 563.4 December 48.3 25.3 99.9 93.5 313.8 7.0 38.2 625.9 March 52.3 23.6 86.3 79.3 271.4 8.2 22.9 544.0 June 51.3 27.1 126.8 95.2 381.2 8.3 38.2 728.1 2008-09									
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December December December December Properties 22.1 Properties 11.0 Properties 60.3 Properties 53.8 Properties 178.8 Properties 3.6 Properties 22.1 Properties 351.7 Properties		00.0	0.0	04.7	50.0	100 5	0.0	40.0	252.0
March June 27.0 11.5 63.5 47.5 154.0 1.5 15.3 320.3 2008-09	•								
June September 27.2 13.3 84.2 63.5 207.6 5.4 21.5 422.7 2008-09 September 30.9 10.5 73.5 50.7 226.5 4.3 20.7 417.1 TOTAL 2005-06 114.0 74.1 218.8 146.5 590.2 22.6 74.7 1 240.7 2006-07 144.1 82.5 272.3 260.7 839.1 23.7 92.2 1714.6 2007-08 189.9 93.7 397.8 355.2 1259.8 32.4 132.7 2461.4 2006-07 December 43.0 22.1 73.7 59.1 217.3 5.9 27.3 448.2 March 32.3 16.9 54.4 66.5 179.9 3.0 16.4 369.3 June 33.5 21.2 80.0 84.1 251.8 8.4 23.5 502.5 2007-08 September 38.0 17.7 8									
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September 30.9 10.5 73.5 50.7 226.5 4.3 20.7 417.1 TOTAL TOTAL 2005-06 114.0 74.1 218.8 146.5 590.2 22.6 74.7 1 240.7 2006-07 144.1 82.5 272.3 260.7 839.1 23.7 92.2 1 714.6 2007-08 189.9 93.7 397.8 355.2 1 259.8 32.4 132.7 2 461.4 2006-07 December 43.0 22.1 73.7 59.1 217.3 5.9 27.3 448.2 March 32.3 16.9 54.4 66.5 179.9 3.0 16.4 369.3 June 33.5 21.2 80.0 84.1 251.8 8.4 23.5 502.5 2007-08 September 38.0 17.7 84.9 87.2 293.3 9.0 33.4 563.4 December 48.3 25.3		21.2	13.3	04.2	03.3	207.0	5.4	21.5	422.1
2005-06 114.0 74.1 218.8 146.5 590.2 22.6 74.7 1 240.7 2006-07 144.1 82.5 272.3 260.7 839.1 23.7 92.2 1 714.6 2007-08 189.9 93.7 397.8 355.2 1 259.8 32.4 132.7 2 461.4 December 43.0 22.1 73.7 59.1 217.3 5.9 27.3 448.2 March 32.3 16.9 54.4 66.5 179.9 3.0 16.4 369.3 June 33.5 21.2 80.0 84.1 251.8 8.4 23.5 502.5 2007-08 September 38.0 17.7 84.9 87.2 293.3 9.0 33.4 563.4 December 48.3 25.3 99.9 93.5 313.8 7.0 38.2 625.9 March 52.3 23.6 86.3 79.3 271.4 8.2 22.9 544.0 <td></td> <td>30.9</td> <td>10.5</td> <td>73.5</td> <td>50.7</td> <td>226.5</td> <td>4.3</td> <td>20.7</td> <td>417.1</td>		30.9	10.5	73.5	50.7	226.5	4.3	20.7	417.1
2005-06 114.0 74.1 218.8 146.5 590.2 22.6 74.7 1 240.7 2006-07 144.1 82.5 272.3 260.7 839.1 23.7 92.2 1 714.6 2007-08 189.9 93.7 397.8 355.2 1 259.8 32.4 132.7 2 461.4 December 43.0 22.1 73.7 59.1 217.3 5.9 27.3 448.2 March 32.3 16.9 54.4 66.5 179.9 3.0 16.4 369.3 June 33.5 21.2 80.0 84.1 251.8 8.4 23.5 502.5 2007-08 September 38.0 17.7 84.9 87.2 293.3 9.0 33.4 563.4 December 48.3 25.3 99.9 93.5 313.8 7.0 38.2 625.9 March 52.3 23.6 86.3 79.3 271.4 8.2 22.9 544.0 <td>• • • • • • • • • •</td> <td>• • • • • •</td> <td>• • • • • • •</td> <td>• • • • • • • • •</td> <td></td> <td>• • • • • • • •</td> <td>• • • • • • • •</td> <td>• • • • • • • •</td> <td>• • • • • • •</td>	• • • • • • • • • •	• • • • • •	• • • • • • •	• • • • • • • • •		• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •
2006-07 144.1 82.5 272.3 260.7 839.1 23.7 92.2 1714.6 2007-08 189.9 93.7 397.8 355.2 1 259.8 32.4 132.7 2 461.4 2006-07 December 43.0 22.1 73.7 59.1 217.3 5.9 27.3 448.2 March 32.3 16.9 54.4 66.5 179.9 3.0 16.4 369.3 June 33.5 21.2 80.0 84.1 251.8 8.4 23.5 502.5 2007-08 September 38.0 17.7 84.9 87.2 293.3 9.0 33.4 563.4 December 48.3 25.3 99.9 93.5 313.8 7.0 38.2 625.9 March 52.3 23.6 86.3 79.3 271.4 8.2 22.9 544.0 June 51.3 27.1 126.8 95.2 381.2 8.3 38.2 728.1									
2007-08 189.9 93.7 397.8 355.2 1 259.8 32.4 132.7 2 461.4 2006-07 December 43.0 22.1 73.7 59.1 217.3 5.9 27.3 448.2 March 32.3 16.9 54.4 66.5 179.9 3.0 16.4 369.3 June 33.5 21.2 80.0 84.1 251.8 8.4 23.5 502.5 2007-08 September 38.0 17.7 84.9 87.2 293.3 9.0 33.4 563.4 December 48.3 25.3 99.9 93.5 313.8 7.0 38.2 625.9 March 52.3 23.6 86.3 79.3 271.4 8.2 22.9 544.0 June 51.3 27.1 126.8 95.2 381.2 8.3 38.2 728.1 2008-09 38.0 381.2 88.3 38.2 728.1		114.0		218.8	146.5	590.2	22.6	74.7	1 240.7
2006-07 December 43.0 22.1 73.7 59.1 217.3 5.9 27.3 448.2 March 32.3 16.9 54.4 66.5 179.9 3.0 16.4 369.3 June 33.5 21.2 80.0 84.1 251.8 8.4 23.5 502.5 2007-08 September 38.0 17.7 84.9 87.2 293.3 9.0 33.4 563.4 December 48.3 25.3 99.9 93.5 313.8 7.0 38.2 625.9 March 52.3 23.6 86.3 79.3 271.4 8.2 22.9 544.0 June 51.3 27.1 126.8 95.2 381.2 8.3 38.2 728.1 2008-09									
December 43.0 22.1 73.7 59.1 217.3 5.9 27.3 448.2 March 32.3 16.9 54.4 66.5 179.9 3.0 16.4 369.3 June 33.5 21.2 80.0 84.1 251.8 8.4 23.5 502.5 2007-08 September 38.0 17.7 84.9 87.2 293.3 9.0 33.4 563.4 December 48.3 25.3 99.9 93.5 313.8 7.0 38.2 625.9 March 52.3 23.6 86.3 79.3 271.4 8.2 22.9 544.0 June 51.3 27.1 126.8 95.2 381.2 8.3 38.2 728.1 2008-09	2007–08	189.9	93.7	397.8	355.2	1 259.8	32.4	132.7	2 461.4
March 32.3 16.9 54.4 66.5 179.9 3.0 16.4 369.3 June 33.5 21.2 80.0 84.1 251.8 8.4 23.5 502.5 2007-08 September 38.0 17.7 84.9 87.2 293.3 9.0 33.4 563.4 December 48.3 25.3 99.9 93.5 313.8 7.0 38.2 625.9 March 52.3 23.6 86.3 79.3 271.4 8.2 22.9 544.0 June 51.3 27.1 126.8 95.2 381.2 8.3 38.2 728.1 2008-09	2006-07								
June 33.5 21.2 80.0 84.1 251.8 8.4 23.5 502.5 2007-08 September 38.0 17.7 84.9 87.2 293.3 9.0 33.4 563.4 December 48.3 25.3 99.9 93.5 313.8 7.0 38.2 625.9 March 52.3 23.6 86.3 79.3 271.4 8.2 22.9 544.0 June 51.3 27.1 126.8 95.2 381.2 8.3 38.2 728.1 2008-09									
2007-08 September 38.0 17.7 84.9 87.2 293.3 9.0 33.4 563.4 December 48.3 25.3 99.9 93.5 313.8 7.0 38.2 625.9 March 52.3 23.6 86.3 79.3 271.4 8.2 22.9 544.0 June 51.3 27.1 126.8 95.2 381.2 8.3 38.2 728.1 2008-09									
September 38.0 17.7 84.9 87.2 293.3 9.0 33.4 563.4 December 48.3 25.3 99.9 93.5 313.8 7.0 38.2 625.9 March 52.3 23.6 86.3 79.3 271.4 8.2 22.9 544.0 June 51.3 27.1 126.8 95.2 381.2 8.3 38.2 728.1 2008-09		33.5	21.2	80.0	84.1	251.8	8.4	23.5	502.5
December 48.3 25.3 99.9 93.5 313.8 7.0 38.2 625.9 March 52.3 23.6 86.3 79.3 271.4 8.2 22.9 544.0 June 51.3 27.1 126.8 95.2 381.2 8.3 38.2 728.1 2008-09		00.0		2.4.5	0= 0	600.5		66.4	F00 :
March 52.3 23.6 86.3 79.3 271.4 8.2 22.9 544.0 June 51.3 27.1 126.8 95.2 381.2 8.3 38.2 728.1 2008-09									
June 51.3 27.1 126.8 95.2 381.2 8.3 38.2 728.1 2008–09									
2008-09									
		51.3	21.1	120.8	95.2	381.2	8.3	38.∠	128.1
		49.2	22.4	109.5	75.0	383.8	7.3	40.6	687.7

	New							
	South			South	Western		Northern	
	Wales	Victoria	Queensland	Australia	Australia	Tasmania	Territory	Australia
Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
• • • • • • • • • •	• • • • • •	• • • • • • •		ODIOINAL	• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •
				ORIGINAL				
2005-06	114.0	74.1	218.8	146.5	590.2	22.6	74.7	1 240.7
2006–07	144.1	82.5	272.3	260.7	839.1	23.7	92.2	1 714.6
2007–08	189.9	93.7	397.8	355.2	1 259.8	32.4	132.7	2 461.4
2006–07								
December	43.0	22.1	73.7	59.1	217.3	5.9	27.3	448.2
March	32.3	16.9	54.4	66.5	179.9	3.0	16.4	369.3
June	33.5	21.2	80.0	84.1	251.8	8.4	23.5	502.5
2007–08								
September	38.0	17.7	84.9	87.2	293.3	9.0	33.4	563.4
December	48.3	25.3	99.9	93.5	313.8	7.0	38.2	625.9
March	52.3	23.6	86.3	79.3	271.4	8.2	22.9	544.0
June 2008–09	51.3	27.1	126.8	95.2	381.2	8.3	38.2	728.1
September	49.2	22.4	109.5	75.0	383.8	7.3	40.6	687.7
Осртстве	43.2	22.7	100.0	13.0	303.0	7.0	40.0	001.1
• • • • • • • • • •	• • • • • • •	• • • • • • •	05.00.			• • • • • • • •	• • • • • • • • •	• • • • • • •
			SEASON	NALLY ADJ	USTED			
2006–07								
December	39.9	21.1	67.3	57.3	202.3	6.8	24.2	418.9
March	33.5	17.5	66.7	79.8	216.7	2.6	24.0	440.8
June	34.1	20.2	73.4	74.3	241.8	8.0	22.2	474.0
2007–08	00.4	40.0		07.4				
September	39.4	19.2	84.9	87.4	277.5	9.2	29.8	547.4
December	44.3	23.4	91.3	90.5	292.6	8.2	33.3	583.6
March June	53.9 52.6	25.1 25.5	105.8 116.5	93.8 84.4	327.5 366.7	7.3 7.9	33.8 36.4	647.2 690.0
2008–09	52.0	23.3	110.5	04.4	300.7	1.9	30.4	690.0
September	51.5	24.4	109.3	75.8	361.9	7.5	36.2	666.6
			• • • • • • • •			• • • • • • • •		• • • • • • •
				TREND				
2006-07								
December	36.7	21.0	65.6	62.3	198.4	6.8	23.1	413.9
March	35.5	19.4	68.8	71.5	220.8	7.4	23.5	446.9
June	35.1	18.8	74.1	80.0	244.1	8.2	25.0	485.3
2007–08								
September	39.0	20.5	82.7	86.3	270.0	8.5	28.4	535.4
December	45.8	22.9	94.5	90.7	300.2	8.3	32.3	594.7
March	50.7	24.5	104.6	90.3	328.7	7.8	34.7	641.3
June	52.8	25.3	111.3	84.9	353.3	7.6	35.7	670.9
2008–09 September	52.7	25.1	113.9	79.3	373.3	7.6	36.2	688.1
ochrember	52.1	20.1	110.9	13.3	313.3	7.0	30.2	000.1



SELECTED BASE METALS

	Copper	Silver, lead, zinc	Nickel, cobalt	Total	Gold	Iron 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					
2005–06	19.5	6.7	0.9	27.1	22.1	_	4.2	_	56.0	1.0	3.5	114.0
2006-07	24.5	np	np	47.5	22.8	_	6.5	_	59.8	1.2	6.4	144.1
2007-08	31.7	28.3	2.8	62.9	37.3	np	6.6	_	69.6	np	13.0	189.9
2006-07												
December	5.7	5.3	0.5	11.5	6.1	_	np	_	20.8	np	np	43.0
March	5.7	5.8	0.9	12.4	5.3	_	np	_	11.6	np	np	32.3
June	6.4	7.0	0.8	14.1	6.8	_	np	_	9.1	np	1.7	33.5
2007-08												
September	9.6	6.6	1.1	17.4	7.3	np	np	np	9.8	np	1.8	38.0
December	6.4	8.2	0.3	14.8	8.9	np	np	_	19.3	np	np	48.3
March	8.2	7.5	0.6	16.4	9.5	np	np	_	21.1	np	np	52.3
June	7.5	6.0	0.8	14.3	11.5	np	np	_	19.4	_	np	51.3
2008-09												
September	7.6	np	np	11.9	5.9	np	np	_	23.3	np	4.1	49.2
										• • • • • • •		• • • • • • • •
						VICTORI	A					
2005-06	0.8	0.1	0.2	1.1	53.6	_	1.8	_	11.9	_	5.6	74.1
2006-07	_	0.4	0.3	0.7	61.4	_	2.1	_	np	np	2.9	82.5
2007-08	0.9	0.8	0.4	2.1	63.0	np	7.8	_	15.4	np	4.3	93.7
2006–07						·						
December	np	np	np	np	18.2	_	np	_	1.9	np	np	22.1
March	np	np	np	0.1	14.0	_	np	_	1.8	np	np	16.9
June	np	np	np	np	15.9	_	np	_	3.5	np	np	21.2
2007-08		p	p		10.0		p		0.0	p	p	
September	np	np	np	np	11.8	_	np	_	3.9	np	np	17.7
December	np	np	np	np	14.2	_	np	_	6.7	np	np	25.3
March	np	np	np	np	16.6	np	np	_	np	np	np	23.6
June	0.3	np	np	np	20.4	np	np	_	np	np	np	27.1
2008-09												
September	np	np	np	np	14.9	np	np	_	np	np	2.2	22.4
					Οl	JEENSLA	ND					
2005-06	37.9	31.5	11.0	80.4	33.9	1.0	_	4.6	94.0	0.2	4.7	218.8
2005-06	63.0	32.3	7.1	102.4	38.0	1.0		4.6 np	94.0 113.7	0.2	6.1	272.3
2005-07	106.5	32.3 43.1	7.1 5.8	155.4	38.0 48.0	1.4	np np	38.0	141.7	np	10.4	397.8
2006-07			0.0			 .	٠.٣	50.0		٠٠٣	20.1	22.10
December	16.8	5.9	1.4	24.1	9.6	nn	nn	nn	36.5	nn	1.1	73.7
March				24.1 16.9		np	np	np	23.8	np		73.7 54.4
June	11.1 19.7	np	np	33.0	8.2 12.1	np —	np	3.5 2.1	23.8 29.5	np	1.3 2.5	54.4 80.0
2007–08	19.1	np	np	JJ.U	12.1	_	np	∠.⊥	29.3	np	2.3	00.0
September	18.5	13.0	1.4	32.9	10.4	np	np	np	34.8	np	1.9	84.9
December	27.1	np	np	41.1	12.3	0.2	np	11.1	30.7	np	3.7	99.9
March	26.9	9.1	1.1	37.1	7.5	np	np	9.1	29.0	np	1.7	86.3
June	34.0	np	np	44.2	17.8	np	np	13.9	47.2	np	3.0	126.8
2008-09										I.		
September	28.4	np	np	40.8	13.6	np	np	10.9	40.2	np	3.5	109.5

otherwise indicated

nil or rounded to zero (including null cells)

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.





continued

SELECTED BASE METALS	

	Copper	Silver, lead, zinc	Nickel, cobalt	Total	Gold	Iron ore	Mineral sands	Uranium	Coal	Diamonds	Other(a)	Total Mineral Exploration
Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
			, , , , , , , , ,		sou	TH AUST	RALIA					
2005-06	66.0	9.0	5.6	80.6	22.4	0.9	6.8	30.3	1.4	1.1	3.1	146.5
2006–07	114.7	25.7	2.2	142.6	31.0	10.1	9.2	63.8	1.3	2.0	0.7	260.7
2007–08	106.9	36.1	2.9	145.9	58.6	19.0	6.2	118.1	np	np	2.1	355.2
2006-07												
December	23.4	8.7	1.1	33.2	6.3	np	np	15.0	np	np	np	59.1
March	27.3	10.3	0.2	37.8	8.7	np	np	12.2	np	np	np	66.5
June	40.8	3.9	0.7	45.4	10.0	3.4	1.9	22.4	np	np	np	84.1
2007–08												
September	24.4	11.1	0.7	36.2	14.6	6.7	1.0	27.4	np	np	np	87.2
December	25.5	5.7	0.7	31.9	16.4	np	2.2	37.3	np	np	np	93.5
March	18.6	9.7	0.7	28.9	15.9	6.1	1.2	26.2	np	np	np	79.3
June	38.4	9.6	0.9	48.9	11.6	np	1.8	27.1	np	np	np	95.2
2008-09												
September	28.5	2.9	0.7	32.2	13.6	4.0	np	22.4	np	np	0.7	75.0
• • • • • • • • •	• • • • • •	• • • • •	• • • • • •	• • • • • • •	WEST	ERN AUS	STRALIA	• • • • • • • •	• • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •
2005-06	9.3	13.9	115.0	138.2	240.3	155.6	12.9	2.2	np	np	26.0	590.2
2006-07	22.8	41.8	158.2	222.8	276.5	272.1	16.5	np	np	14.2	23.2	839.1
2007-08	39.0	56.2	280.0	375.1	347.9	420.7	14.7	26.7	np	np	60.1	1 259.8
2006–07												
December	4.8	8.8	37.1	50.7	77.8	71.0	4.2	np	np	6.7	4.9	217.3
March	4.7	9.5	37.4	51.6	63.7	49.6	4.2	2.9	np	np	6.1	179.9
June	8.8	14.8	52.5	76.1	70.3	85.2	4.2	4.6	np	np	np	251.8
2007-08	0.0	11.0	02.0	10.1	10.0	00.2		1.0	110	p	114	202.0
September	10.6	16.4	61.2	88.2	76.5	104.5	3.5	6.6	np	np	11.3	293.3
December	9.0	19.7	79.5	108.2	85.8	94.0	3.7	6.4	np	np	12.4	313.8
March	9.0	9.7	58.2	76.9	85.2	82.9	3.2	np	np	3.2	12.8	271.4
June	10.3	10.5	81.0	101.8	100.3	139.3	4.3	np	np	np	23.7	381.2
2008-09												
September	11.0	13.1	90.3	114.4	75.9	153.2	2.7	np	np	1.3	27.9	383.8
• • • • • • • • • •	• • • • • •	• • • • •	• • • • • •	• • • • • • •	• • • • • • • •	TASMAN		• • • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • • •
0005 00		0.5	- 0	440					4.6		4.0	22.5
2005-06	1.1	8.5	5.3	14.9	4.9	0.2	_	_	1.6	_	1.0	22.6
2006-07	3.3	11.2 10.8	5.4 7.4	20.0 19.9	np		np	_		_	1.5 5.5	23.7
2007-08	1.7	10.8	7.4	19.9	np	4.4	0.2	_	np	_	5.5	32.4
2006–07												
December	0.6	np	np	np	0.7	np	np	_	_	_	np	5.9
March	np	np	np	2.5	np	np	np	_	np	_	np	3.0
June 2007–08	np	4.9	np	np	0.3	np	np	_	_	_	np	8.4
September	np	5.2	np	7.6	np	0.1	0.1	_	_	_	np	9.0
December	np	np	2.0	np	0.3	0.8	np	_	_	_	1.8	7.0
March	np	1.6	np	np	0.9	np	np	np	_	_	2.1	8.2
June	0.8	np	np	4.2	np	np	_	np	np	_	np	8.3
2008–09									,			
September	8.0	1.9	np	np	0.4	np	np	np	_	_	0.7	7.3

nil or rounded to zero (including null cells)

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

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



MINERAL EXPLORATION, (Other than for petroleum)—Expenditure by mineral sought

continued

SELECTED BASE METALS

	Copper	Silver, lead, zinc	Nickel, cobalt	Total	Gold	Iron ore	Mineral sands	Uranium	Coal	Diamonds	Other(a)	Total Mineral Exploration
Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
				• • • • • •				• • • • • • • •		• • • • • • •	• • • • • • •	• • • • • • • •
					NORTH	ERN TE	RRITORY					
2005–06	4.9	1.4	8.0	14.3	22.4	3.6	3.5	19.1	_	6.8	5.2	74.7
2006-07	6.2	7.2	5.6	19.0	np	2.0	2.2	30.1	np	8.3	6.1	92.2
2007-08	6.8	11.3	4.0	22.1	35.6	3.9	np	48.7	np	5.6	15.0	132.7
2006-07												
December	np	2.8	np	5.8	6.3	np	0.4	8.9	np	3.0	2.6	27.3
March	1.8	1.8	0.5	4.1	np	np	0.5	5.7	np	1.8	0.4	16.4
June	1.1	np	np	4.4	7.5	np	np	8.5	np	1.5	0.8	23.5
2007-08												
September	1.7	np	np	np	np	np	0.1	12.0	np	1.9	2.9	33.4
December	1.5	4.1	1.3	6.9	8.7	np	np	14.9	np	1.4	4.6	38.2
March	1.6	np	np	3.8	6.7	np	np	8.0	np	1.2	2.0	22.9
June	2.0	np	np	np	np	np	np	13.8	np	1.1	5.5	38.2
2008-09				4.0								
September	np	1.5	np	4.2	8.9	np	np	17.1	np	np	7.8	40.6
• • • • • • • • • •	• • • • • •	• • • • •	• • • • • •	• • • • • •	• • • • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • • •
					A	AUSTRAL	.IA					
2005-06	139.5	71.1	145.9	356.6	399.7	161.2	29.2	56.1	166.4	22.6	49.0	1 240.7
2006-07	234.5	139.4	181.1	555.0	455.8	285.3	37.4	114.1	193.3	26.9	46.8	1 714.6
2007-08	293.5	186.6	303.3	783.4	592.7	449.8	37.1	231.6	234.8	21.7	110.4	2 461.4
2006-07												
December	53.5	34.1	42.8	130.4	125.0	72.5	10.8	27.6	60.0	10.2	11.9	448.2
March	51.2	33.5	40.6	125.3	103.6	54.0	9.5	24.3	38.8	3.3	10.6	369.3
June	77.1	45.5	57.9	180.5	123.0	88.8	9.3	37.5	43.9	4.8	14.5	502.5
2007-08												
September	65.2	56.9	66.8	189.0	129.6	112.8	7.2	50.0	50.1	5.0	19.6	563.4
December	70.2	51.5	85.9	207.6	146.7	98.5	10.5	69.6	59.8	5.3	27.8	625.9
March	64.8	39.0	64.0	167.8	142.4	91.9	8.9	49.2	54.1	6.1	23.5	544.0
June	93.3	39.1	86.5	219.0	173.9	146.6	10.4	62.7	70.8	5.3	39.4	728.1
2008-09												
September	79.2	34.8	95.0	209.0	133.2	162.0	9.1	56.7	68.5	2.4	46.8	687.7

nil or rounded to zero (including null cells)

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

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

PETROLEUM EXPLORATION EXPENDITURE

		•••••	••••••	•••••		TOTAL EXPENDITURE		
Other	Total	Drilling	Other	Total	On production leases(a)	On all other areas(a)	Total	
\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	
• • • • •	• • • • • •	• • • • • • • •	• • • • • •	• • • • • • •	• • • • • • • • •	• • • • • • •	• • • • • •	
126.6	355.8	492.2	413.9	906.1	455.2	806.7	1 262.0	
188.3	498.2	1 121.0	606.3	1 727.3	533.7	1 691.7	2 225.5	
122.0	493.8	1 738.8	802.3	2 541.1	591.9	2 443.1	3 034.9	
52.0	144.5	253.4	146.5	400.0	135.1	409.3	544.5	
47.8	110.3	219.9	130.1	350.0	112.0	348.3	460.3	
45.5	135.6	406.9	189.7	596.5	155.3	576.9	732.1	
23.2	113.4	413.0	171.9	584.9	153.1	545.2	698.3	
35.4	159.8	397.6	212.7	610.2	142.3	627.6	770.0	
36.3	94.6	403.1	211.8	614.8	145.6	563.9	709.4	
27.1	126.0	525.2	206.0	731.2	150.9	706.3	857.2	
34.6	120.4	479.0	181.8	660.9	199.0	582.3	781.3	
n	\$m \$m \$m \$m \$126.6 \$188.3 \$122.0 \$552.0 \$47.8 \$45.5 \$223.2 \$435.4 \$36.3 \$27.1	\$\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exittitt{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{	\$\text{\$\sqrt{\text{\$\exitit{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitit{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\exitit{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\}\$}}}\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\text{\$\tex	\$\frac{1}{3}\$ \{\frac{1}{3}}\$ \{\frac{1}{3}}\$ \{\frac{1}{3}}\$ \{\frac{1}{3}}\$ \{\frac{1}{3}}\$ \{\frac{1}{3}}\$ \{\frac{1}{3}}\$ \qua	\$\frac{1}{2}\$ \text{\$\frac{1}{2}\$ \$\text{\$\frac{1}{2}\$ \$\text{\$\frac{1}{	Production Pro	Other Total Drilling Other Other Drilling Other Other Drilling Other Total Drilling Other Other Drilling Drilling Other Drilling Drilli	

⁽a) Refer to Glossary for definition.



PETROLEUM EXPLORATION, By state and territory

	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory(a)	Total
Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
• • • • • • • • •	• • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • • •
2005-06	10.0	69.8	135.1	132.3	593.6	22.0	299.2	1 262.0
2006-07	np	np	191.9	161.2	1 481.0	17.5	279.4	2 225.5
2007–08	30.1	120.1	165.5	196.2	2 174.9	84.4	263.8	3 034.9
2006-07								
December	3.2	11.0	56.6	43.4	346.1	9.0	75.2	544.5
March	4.4	7.0	49.8	28.1	319.5	2.5	49.1	460.3
June	5.5	45.8	49.4	48.6	525.4	3.7	53.8	732.1
2007-08								
September	4.0	12.6	43.9	52.7	546.5	5.0	33.5	698.3
December	8.4	15.4	43.7	72.5	512.7	4.0	113.3	770.0
March	9.0	38.2	22.7	31.8	498.7	24.5	84.4	709.4
June	8.6	53.9	55.0	39.3	616.9	50.9	32.6	857.2
2008-09								
September	np	57.3	63.7	37.9	539.5	np	69.5	781.3

np not available for publication but included in totals where (a) Also contains some additional areas. See paragraphs 5 applicable, unless otherwise indicated

and 6 of the Explanatory Notes.

EXPLANATORY NOTES

INTRODUCTION

SCOPE AND COVERAGE

- 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.
- **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 *Australian National Accounts: National Income, Expenditure and Product* (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. In most instances the only noticeable revisions will be to the previous quarter and the same quarter one year ago. A more detailed review is conducted annually prior to the June quarter release using data up to and including the March quarter.

EXPLANATORY NOTES continued

SEASONAL ADJUSTMENT continued

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 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 now uses ARIMA modelling where appropriate for individual time series. The ARIMA model is assessed as part of the annual reanalysis and following the 2008 annual reanalysis, all directly adjusted Mineral Exploration series use an ARIMA model. For more information on the details of ARIMA modelling see the feature article: *Use of ARIMA modelling to reduce revisions* in the October 2004 issue of *Australian Economic Indicators* (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>.

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.
- 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.
- 200 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 *Census and Statistics Act 1905*.

RELATED PUBLICATIONS

18 Users may also wish to refer to the following publications which are for sale and available on request:

EXPLANATORY NOTES continued

RELATED PUBLICATIONS continued

- 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)

ABS DATA AVAILABLE ELECTRONICALLY

- **19** All ABS publications (html and pdf) can be downloaded free of charge from the ABS web site. See the back page for more details.
- **20** Current publications produced by the ABS are listed in the *Catalogue of Publications and Products* (cat. no. 1101.0), which is available from any ABS office. The ABS also issues a *Release Advice* which lists publications to be released in the next few days. The Catalogue and Release Advice are available on the ABS web site http://www.abs.gov.au.
- **21** Publications showing the details of wells and metres drilled in petroleum exploration are available from the Petroleum Resources Program of Geoscience Australia.

EFFECTS OF ROUNDING

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

GLOSSARY

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 *Petroleum* (Submerged Lands) Act 1967.

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:

Existing deposits – 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.

New deposits – 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:

Drilling expenditure – 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.

Other expenditure – 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:

Production lease – 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.

All other areas – 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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