

MINERAL AND PETROLEUM EXPLORATION

AUSTRALIA

EMBARGO: 11.30AM (CANBERRA TIME) MON 3 SEP 2012

CONTENTS

	pag Notes	2
TAB	E	
	Private exploration, actual and expected expenditure	7
	Mineral exploration, (other than for petroleum), expenditure and metres drilled	7
	Mineral exploration, (other than for petroleum), expenditure by state and type of deposit	8
	Mineral exploration, (other than for petroleum), expenditure by state and territory	9
	Mineral exploration, (other than for petroleum), expenditure by state and mineral sought	
	Petroleum exploration, expenditure by onshore and offshore 1	.3
	Petroleum exploration, expenditure by state and territory	.4
ADE	ITIONAL INFORMATION	
	Explanatory Notes	.5
	alossary	.8

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

 September 2012
 3 December 2012

 December 2012
 4 March 2013

 March 2013
 3 June 2013

 June 2013
 2 September 2013

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CHANGES TO THIS ISSUE

This publication now includes seasonally adjusted and trend estimates for the petroleum exploration series. Table 6 and table 7 of this publication and tables 6a, 6b and 7 of the time series spreadsheets have been extended to incorporate the seasonally adjusted and trend estimates.

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

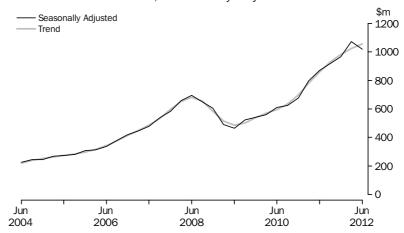
MINERAL EXPLORATION (OTHER THAN FOR PETROLEUM)

TOTAL EXPENDITURE

The trend estimate for total mineral exploration expenditure rose 3.1% (or \$31.6m) to \$1056.4m in the June quarter 2012. The largest contributor to the rise in the trend estimate this quarter was Western Australia (up 7.4% or \$41.5m). The current quarter estimate is 22.9% higher than the June quarter 2011 estimate.

The seasonally adjusted estimate for mineral exploration expenditure fell 4.9% (or -\$52.9m) to \$1018.5m in the June quarter 2012. The largest contributor to the fall this quarter was Queensland (down 12.6% or -\$33.1m), followed by Western Australia (down 1.6% or -\$9.3m).

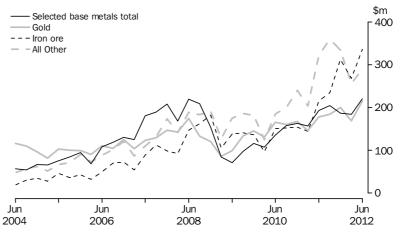
MINERAL EXPLORATION, Seasonally adjusted and trend series



In original terms, mineral exploration expenditure rose 21.1% (or \$185.0m) to \$1061.1m in the June quarter 2012. Exploration on areas of new deposits rose 43.9% (or \$109.1m) and expenditure on areas of existing deposits rose 12.1% (or \$75.9m).

In original terms, the largest rise by minerals sought came from expenditure on iron ore exploration (up 25.5% or 68.3m). The next largest rise came from expenditure on gold exploration (up 27.4% or 46.2m).

MINERAL EXPLORATION, ORIGINAL SERIES

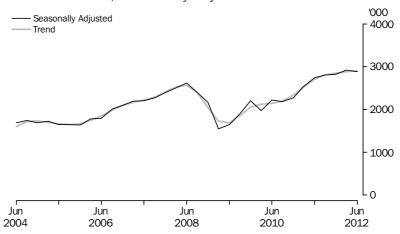


METRES DRILLED

The trend estimate for metres drilled rose 0.8% in the June quarter 2012. The current quarter estimate is 7.5% higher than the June quarter 2011 estimate.

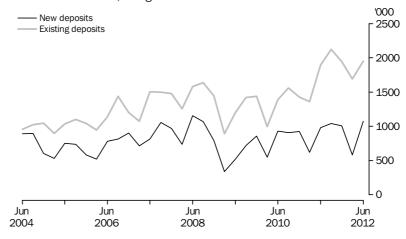
The seasonally adjusted estimate for metres drilled fell 1.1% in the June quarter 2012.

METRES DRILLED, Seasonally Adjusted and trend series



In original terms, metres drilled rose 33.1%. Drilling in areas of new deposits rose 83.7% and drilling in areas of existing deposits rose 15.6%.

METRES DRILLED, Original series



PETROLEUM EXPLORATION

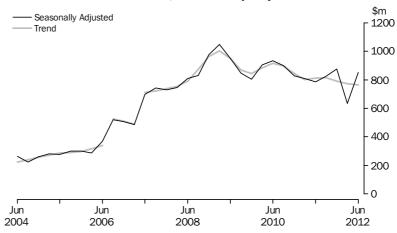
TOTAL EXPENDITURE

The trend estimate for total petroleum exploration expenditure fell 0.8% (or -\$6.2m) to \$764.5m in the June quarter 2012. Exploration expenditure on production leases rose 24.2% (or \$35.0m), while exploration expenditure on all other areas fell 5.9% (or -\$36.9m).

The seasonally adjusted estimate for total petroleum exploration expenditure rose 34.3% (or \$217.0m) to \$850.3m in the June quarter 2012. Exploration expenditure on production leases rose 119.5% (or \$122.8m) and exploration expenditure on all other areas rose 17.8% (or \$94.2m).

The largest contributor to the fall in the trend estimate was Western Australia (down 2.8% or -\$14.1m) while the largest contributor to the rise in the seasonally adjusted estimate was Western Australia (up 39.9% or \$156.7m).

PETROLEUM EXPLORATION, Seasonally adjusted and trend

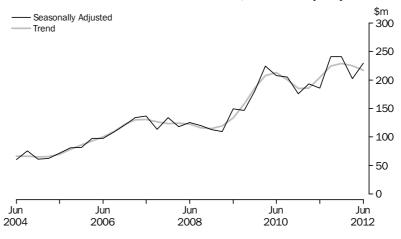


ONSHORE

The trend estimate for onshore petroleum exploration expenditure fell 3.3% (or -\$7.4m) to \$217.1m in the June quarter 2012. Expenditure on drilling fell 6.3% (or -\$9.8m), while other onshore petroleum exploration expenditure rose 2.9% (or \$2.0m).

The seasonally adjusted estimate for onshore petroleum exploration expenditure rose 13.2% (or \$26.7m) to \$229.3m in the June quarter 2012. Expenditure on drilling fell 1.7% (or -\$2.5m), while other onshore petroleum exploration rose \$29.2m (or 54.5%).

PETROLEUM EXPLORATION: ONSHORE, Seasonally adjusted and trend

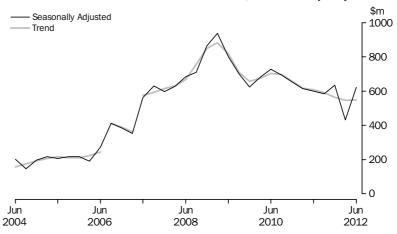


OFFSHORE

The trend estimate for offshore petroleum exploration expenditure rose 0.3% (or \$1.9m) to \$548.0m in the June quarter 2012. Expenditure on drilling fell 1.1% (or –\$4.2m), while other offshore petroleum exploration expenditure rose 3.8% (or \$6.1m).

The seasonally adjusted estimate for offshore petroleum exploration expenditure rose 44.2% (or \$190.3m) to \$621.0m in the June quarter 2012. Expenditure on drilling rose 74.1% (or \$194.5m), while other offshore petroleum exploration expenditure fell 2.5% (or -\$4.2m).

PETROLEUM EXPLORATION: OFFSHORE, Seasonally adjusted and trend





PRIVATE EXPLORATION, ACTUAL AND EXPECTED EXPENDITURE

	MINERAL EX						EUM ONSHOF			M 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	%
• • • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • • • •	• • • • • • •	• • • • • • •
2009-10 2010-11 2011-12 2010-2011	2 232.5 2 951.3 3 951.1	1 925.8 2 406.7 3 267.0	115.9 122.6 120.9	2 256.0 2 799.5 3 771.6	99.0 105.4 104.8	748.6 756.5 919.8	834.0 782.2 1 200.2	89.8 96.7 76.6	2 745.6 2 559.0 2 277.3	2 658.0 2 512.7 2 017.1	103.3 101.8 112.9
Jun half	1 557.5	1 277.1	122.0	1 441.6	108.0	339.5	403.7	84.1	1 275.8	1 183.7	107.8
Dec half Jun half 2012–2013	2 013.9 1 937.2	1 596.9 1 670.1	126.1 116.0	1 893.0 1 878.6	106.4 103.1	527.0 392.8	457.4 742.8	115.2 52.9	1 150.4 1 126.9	1 106.9 910.2	103.9 123.8
Dec half	nya	1 681.5	nya	1 989.9	nya	nya	1 377.6	nya	nya	611.5	nya

nya not yet available



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

	EXPENDITU	RE				METRES DE	RILLED			••••••
	New deposits	Existing deposits	Total	Seasonally Adjusted Total	Trend Total	New deposits	Existing deposits	Total	Seasonally Adjusted Total	Trend Total
Period	\$m	\$m	\$m	\$m	\$m	'000	'000	'000	'000	'000
• • • • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • •
2009–10 2010–11 2011–12	853.4 1 037.5 1 243.0	1 379.1 1 913.8 2 710.0	2 232.5 2 951.3 3 953.0			3 054 3 436 3 700	5 244 6 263 7 709	8 299 9 699 11 409		
2010–11 September December March June 2011–12 September December March June	240.9 289.5 215.0 292.1 313.1 323.6 248.6 357.7	428.5 434.9 435.1 615.3 670.3 708.8 627.5 703.4	669.4 724.4 650.1 907.4 983.4 1 032.4 876.1 1 061.1	623.9 677.1 797.0 870.1 918.3 964.6 1 071.4 1 018.5	632.8 696.9 781.2 859.6 927.9 981.7 1 024.8 1 056.4	907 933 617 979 1 038 1 008 583 1 071	1 556 1 449 1 362 1 896 2 120 1 947 1 689 1 952	2 463 2 382 1 979 2 875 3 158 2 956 2 272 3 024	2 187 2 276 2 537 2 746 2 803 2 824 2 916 2 885	2 196 2 338 2 519 2 701 2 810 2 851 2 881 2 903

^{..} not applicable

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

	New South Wales	Victoria	Queensland	South Australia	Western Australia	Tasmania	Northern Territory	Australia
Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
• • • • • • • • •	• • • • • •	• • • • • •	NE'	W DEPOSI	TS	• • • • • • • •	• • • • • • • •	• • • • • • •
2009–10	44.1	25.8	99.1	99.6	483.3	13.5	88.0	853.4
2010-11	33.9	27.3	172.3	131.5	566.4	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								
September	6.5	5.7	31.1	28.6	135.4	3.5	30.1	240.9
December	9.3	6.9	46.6	32.4	166.0	5.7	22.5	289.5
March	8.1	6.4	29.8	29.3	119.0	4.1	18.2	215.0
June 2011–12	9.9	8.2	64.8	41.2	146.0	3.7	18.3	292.1
September	12.7	12.1	78.7	35.9	144.8	3.7	25.3	313.1
December	12.6	8.2	82.3	38.0	152.2	4.6	25.8	323.6
March	9.7	8.2	57.7	32.9	126.5	3.7	10.0	248.6
June	12.2	5.5	72.9	37.4	213.5	4.6	11.6	357.7
			EXIST	ING DEPO	SITS			
2009–10	86.3	57.5	337.5	68.3	760.7	7.2	61.5	1 379.1
2010–11	119.3	30.2	491.2	123.1	1 023.7	20.3	106.0	1 913.8
2011–12	195.1	24.5	675.9	184.2	1 469.9	22.7	137.7	2 710.0
2010-11								
September	25.0	6.7	98.7	18.8	249.2	4.5	25.7	428.5
December	27.6	5.6	115.1	27.1	227.7	4.5	27.2	434.9
March	30.9	6.7	99.3	33.3	243.2	5.3	16.4	435.1
June	35.8	11.2	178.1	43.9	303.6	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 March	50.8 49.1	4.9 5.0	174.2 141.4	52.3	379.7	5.5 6.3	41.3	708.8
June	44.3	7.4	175.9	40.5 52.6	363.6 389.7	5.0	21.6 28.5	627.5 703.4
34110			1.0.0	02.0	000	0.0	20.0	
• • • • • • • • • •	• • • • • •	• • • • • •	• • • • • • • • •	TOTAL	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •
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								
September	31.5	12.4	129.8	47.4	384.6	8.0	55.8	669.4
December	36.9	12.5	161.8	59.5	393.7	10.2	49.8	724.4
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

	New							
	South			South	Western	_	Northern	
	Wales	Victoria	Queensland	Australia	Australia	Tasmania	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								
September	31.5	12.4	129.8	47.4	384.6	8.0	55.8	669.4
December	36.9	12.5	161.8	59.5	393.7	10.2	49.8	724.4
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
• • • • • • • • • •	• • • • • •	• • • • • •		• • • • • • •		• • • • • • •	• • • • • • • •	• • • • • • •
			SEASON	ALLY ADJ	USTED			
2010-11								
September	31.0	12.4	122.3	47.7	358.0	8.1	44.5	623.9
December	34.9	12.5	147.8	56.4	371.5	10.1	43.7	677.1
March	40.0	13.1	170.5	73.3	437.8	9.3	52.9	797.0
June	48.3	19.4	224.0	77.3	432.6	9.9	58.7	870.1
2011–12								
September	62.0	19.4	246.9	75.6	448.6	9.7	56.2	918.3
December	60.1	13.1	234.4	85.5	502.7	9.8	59.0	964.6
March	60.6	13.2	263.2	85.8	590.3	9.9	48.4	1 071.4
June	59.7	12.8	230.1	81.6	581.0	9.9	43.4	1 018.5
• • • • • • • • • •	• • • • • •	• • • • • •	• • • • • • • • •	TDEND	• • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • •
				TREND				
2010-11								
September	32.4	14.3	125.1	49.1	361.1	8.4	42.2	632.8
December	34.4	12.4	146.4	59.2	388.4	9.4	46.8	696.9
March	41.0	14.7	180.5	69.2	414.0	9.7	52.1	781.2
June	50.1	17.6	214.8	76.1	434.5	9.8	56.8	859.6
2011–12								
September	57.8	17.6	239.8	80.2	464.2	9.7	58.6	927.9
December	61.0	15.3	247.8	82.6	510.0	9.8	55.2	981.7
March	60.9	13.1	246.2	84.3	560.4	9.9	50.0	1 024.8
June	59.9	12.1	242.2	84.3	601.9	9.9	46.0	1 056.4



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					
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							·	·		·		
September	5.3	np	np	7.9	12.0	np	np	_	8.7	np	1.9	31.5
December	7.8	np	np	11.0	12.1	np	np	np	11.0	np	2.1	36.9
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
						VICTORI	IA					
2009–10	3.5	nn	nn	5.5	63.1	nn	nn		nn		0.8	83.3
2010-11	np	np np	np np	np	40.4	np np	np np	_	np 0.8	_	2.0	57.5
2011-12	np	np	np	np	25.7	np	np	_	1.1	_	4.0	58.4
	119	пр	II P	116	20.1	116	116				1.0	00.1
2010–11	0.0			0.5	44.4							40.4
September	0.3	np	np	0.5	11.1	np	np	_	np	_	np	12.4
December March	np	np	np	np	9.1 8.4	np	np	_	np	_	np	12.5 13.1
June	np np	np np	np np	np np	11.9	np	np np	_	np 0.3		np 0.6	19.4
2011–12	ΠÞ	пр	пр	пр	11.9	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
					0	UEENSLA	AND					
0000 10				-								
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
2010–11												
September	22.4	np	np	27.5	12.1	np	np	np	74.8	np	7.7	129.8
December	21.9	np	np	26.3	13.0	np	np	np	107.2	np	9.9	161.8
March	20.3	np	np	23.7	6.7	np	np	np	90.1	np	5.5	129.1
June	31.5	np	np	33.6	12.6	np	np	4.1	184.4	np	7.3	242.8
2011–12	20.0	nr	nr	41 G	12.0	nn	nn	nn	104.2	nn	0.4	262.0
September December	39.9 39.6	np	np	41.6 42.6	12.9 14.3	np	np	np	194.3 185.0	np	9.4 9.9	263.0 256.6
March	39.6	np 1.2	np 0.7	34.7	14.3 np	np 0.2	np np	3.6 2.1	148.6	np np	9.9 5.2	256.6 199.1
June	35.6	2.1	0.4	38.1	np	0.2	np	np	190.4	np	6.5	248.8
340	30.0		0.1	55.1		J. <u>T</u>	114	114	200. 1	114	0.0	2 1010

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

		Silver,										Total
	Copper	lead, zinc	Nickel, cobalt	Total	Gold	Iron ore	Mineral sands	Uranium	Coal	Diamonds	Other(a)	Mineral Exploration
Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
• • • • • • • • • • •	• • • • •	• • • • •	• • • • • •	• • • • • •	• • • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • • •	• • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •
					S0	UTH AUS	TRALIA					
2009–10	61.9	np	np	67.6	18.9	16.2	np	52.7	2.3	np	1.6	167.9
2010-11	101.5	7.0	1.7	110.3	9.0	48.0	np	53.7	4.4	np	np	254.6
2011-12	146.2	10.3	3.1	159.6	9.8	78.3	np	33.1	np	np	36.0	328.4
2010-11												
September	18.6	np	np	20.2	np	7.0	np	13.4	0.7	np	1.0	47.4
December	23.6	1.2	0.1	24.9	np	9.8	np	17.5	np	np	np	59.5
March	25.1	2.2	0.6	27.9	1.7	13.9	np	9.3	np	np	np	62.6
June	34.1	np	np	37.2	2.7	17.3	np	13.5	np	np	11.4	85.2
2011–12												
September	29.6	np	np	32.1	np	14.3	np	11.8	np	np	np	74.7
December	41.1	2.1	0.6	43.8	1.5	18.0	np	10.3	np	np	np	90.3
March	32.3	np	np	35.8	1.8	19.2	np	6.2	np	np	np	73.4
June	43.1	np	np	47.9	np	26.7	np	4.8	np	np	2.4	90.0
• • • • • • • • • • •	• • • • •	• • • • •			• • • • • • • • •	• • • • • • •			• • • • •			• • • • • • • •
					WES	TERN AU	STRALIA					
2009-10	45.9	21.5	194.7	262.1	348.5	497.1	11.8	55.4	3.9	0.2	65.2	1 244.1
2010-11	78.7	25.4	261.0	365.1	452.5	585.0	10.8	100.7	np	np	68.9	1 590.1
2011–12	92.1	19.4	256.8	368.3	557.4	1 025.9	12.7	78.2	np	np	57.6	2 106.8
2010-11												
September	19.2	7.2	67.4	93.8	105.3	136.2	2.1	26.8	np	np	18.8	384.6
December	22.9	7.7	59.8	90.4	116.0	134.5	2.4	31.1	np	np	16.7	393.7
March	15.6	5.4	65.1	86.0	108.9	124.4	2.6	22.6	np	np	16.2	362.2
June	21.0	5.1	68.8	94.9	122.3	189.9	3.7	20.2	np	np	17.1	449.6
2011-12												
September	20.8	5.0	71.5	97.3	126.7	208.8	2.8	25.9	np	np	18.1	481.6
December	20.4	3.8	46.6	70.8	141.1	279.3	2.6	21.3	np	np	14.7	531.9
March	22.1	5.2	62.2	89.5	128.4	240.4	3.1	17.7	np	np	10.4	490.1
June	28.8	5.4	76.6	110.8	161.2	297.4	4.2	13.4	np	np	14.4	603.2
• • • • • • • • • • • •	• • • • • •	• • • • •			• • • • • • • • •	• • • • • • •			• • • • • •			• • • • • • • • •
						TASMAN	IA					
2009-10	np	np	0.8	5.0	5.8	np	np	np	np	_	6.2	20.7
2010-11	np	np	2.1	np	9.1	2.6	_	np	np	_	np	37.3
2011-12	np	np	np	np	np	np	np	np	_	_	20.8	39.3
2010-11												
September	0.6	np	np	2.0	np	0.6	_	np	np	_	np	8.0
December	np	1.2	np	np	np	np	_		np	_	4.4	10.2
March	np	np	0.5	np	2.3	1.0	_	_	np	_	np	9.4
June	np	1.0	np	np	1.9	np	_	_	np	_	5.0	9.6
2011–12												
September	np	np	0.3	np	np	0.5	_	np	_	_	5.6	9.6
December	np	1.2	np	np	1.9	np	np	_	_	_	5.3	10.1
March	np	np	np	np	np	2.5	_	_	_	_	4.5	10.0
June	np	0.6	np	np	np	np	_	_	_	_	5.4	9.7

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.



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
												• • • • • • • •
					NORT	HERN TE	RRITORY					
2009-10	np	np	3.6	15.5	44.4	np	np	38.7	np	np	33.4	149.5
2010-11	11.9	5.3	1.5	18.7	53.4	24.5	np	41.9	np	np	48.5	195.2
2011–12	13.6	np	np	20.3	77.6	np	np	28.9	np	np	35.8	210.4
2010-11												
September	2.5	np	np	5.3	15.4	6.4	np	12.3	np	np	15.0	55.8
December	3.9	np	np	5.5	12.0	8.5	np	12.1	np	np	10.0	49.8
March	1.0	1.0	0.2	2.2	10.0	4.5	np	8.7	np	np	7.3	34.7
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	71.6
December	3.4	np	np	6.6	24.8	12.2	np	10.5	np	np	9.1	67.1
March	1.6	np	np	2.1	13.8	np	np	3.3	np	np	5.8	31.6
June	2.7	np	np	3.8	15.9	10.4	np	3.1	np	_	5.8	40.1
						AUSTRAI	LIA					
2009-10	201.6	51.6	203.9	457.2	575.4	524.1	28.3	169.0	321.1	10.3	147.1	2 232.5
2010-11	323.0	75.5	270.9	669.4	652.1	664.9	26.1	213.9	519.7	8.9	196.3	2 951.3
2011-12	442.7	87.4	265.4	795.5	768.0	1 150.7	42.3	153.7	834.3	9.2	199.3	3 953.0
2010-11												
September	68.9	19.0	69.3	157.2	160.3	152.0	np	58.6	85.1	np	48.4	669.4
December	81.8	18.7	62.4	162.8	167.3	154.2	np	65.3	122.3	np	44.2	724.4
March	70.9	18.0	67.6	156.5	146.4	144.1	6.2	43.4	109.6	0.6	43.4	650.1
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							•			·		
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	22.9	49.3	186.8	200.0	311.8	11.0	45.6	217.7	2.2	57.2	1 032.4
March	98.7	21.2	64.1	184.0	168.8	267.9	9.3	29.3	177.5	1.1	38.2	876.1
June	120.4	21.4	78.4	220.2	215.0	336.2	np	24.7	211.7	np	41.1	1 061.1

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.

Period		ONSHORE			OFFSHOR	E		TOTAL EXPE	TOTAL EXPENDITURE			
Companies		Drilling	Other	Total	Drilling	Other	Total	production	other	Total		
2009-10	Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m		
2009-10	• • • • • • • • • •	• • • • •		• • • • • •	• • • • • • • •	• • • • •	• • • • • • •	• • • • • • • • •	• • • • • • •	• • • • • •		
March 163.5 756.5 2118.3 440.7 2559.0 818.4 2497.1 3315.4					ORIO	GINAL						
Page	2009–10	564.3	184.3	748.6	2 181.0	564.6	2 745.6	849.2	2 645.0	3 494.1		
September 178.4 28.0 206.4 521.1 122.1 643.2 267.4 582.2 849.6 March 126.7 26.5 153.2 519.3 93.6 612.9 142.6 623.5 766.1 June 143.8 42.5 186.4 525.7 137.2 662.9 134.9 714.4 849.3 September 180.1 68.5 248.6 415.8 115.9 531.6 144.7 635.5 780.2 March 116.1 47.0 163.1 270.3 162.5 432.9 73.3 522.7 596.0 June 140.9 88.8 229.7 510.8 183.3 694.1 235.7 688.0 923.8 September 180.1 68.5 248.6 415.8 115.9 531.6 144.7 635.5 780.2 March 116.1 47.0 163.1 270.3 162.5 432.9 73.3 522.7 596.0 June 140.9 88.8 229.7 510.8 183.3 694.1 235.7 688.0 923.8 September 183.7 757.8 2156.4 576.5 2732.9 840.3 2650.5 3490.7 2010-11 263.6 279.5 913.1 1649.8 619.9 2269.6 577.9 2604.8 3182.7 2011-12 633.6 279.5 913.1 1649.8 619.9 2269.6 577.9 2604.8 3182.7 2010-11 September 168.4 36.8 205.1 590.0 104.3 694.3 235.8 663.6 899.5 December 149.7 26.1 175.8 542.7 110.5 653.2 253.1 575.9 829.0 March 163.7 29.4 193.2 514.9 100.3 615.3 194.9 613.5 808.4 June 145.7 39.9 185.5 476.2 122.5 598.7 129.7 654.6 784.2 2011-12 September 149.0 53.6 202.6 262.4 168.3 430.7 102.8 530.5 633.3 June 146.5 82.8 229.3 456.9 164.1 621.0 225.6 624.7 850.3 2009-10 573.2 190.5 763.7 2152.0 590.5 2742.4 845.5 2660.6 3506.1 2011-12 September 166.8 635.5 894.1 162.8 618.5 259.2 817.9 2537.0 3354.9 2011-12 September 167.3 36.5 202.6 262.4 168.3 430.7 102.8 530.5 633.3 June 146.5 36.5 202.6 262.4 168.3 430.7 102.8 530.5 633.3 June 146.5 36.5 202.6 262.4 168.3 430.7 102.8 530.5 633.3 September 163.7 36.5 202.6 590.5 368.5 242.9 558.8 2585.6 314.9 September 1	2010-11	624.0	132.5	756.5	2 118.3	440.7	2 559.0	818.4	2 497.1	3 315.4		
September 175.1 35.5 210.5 552.2 87.7 639.9 273.4 577.0 850.4	2011-12	636.9	282.8	919.7	1 652.4	624.9	2 277.3	590.4	2 606.6	3 197.0		
December 178.4 28.0 206.4 521.1 122.1 643.2 267.4 582.2 849.6 March 126.7 26.5 153.2 519.3 93.6 642.9 142.6 623.5 766.1 June 143.8 42.5 186.4 525.7 137.2 662.9 134.9 714.4 849.3 2011-12	2010-11											
March 126.7 26.5 153.2 519.3 93.6 612.9 142.6 623.5 766.1 June 143.8 42.5 186.4 525.7 137.2 662.9 134.9 714.4 849.3 2011-12 September 180.1 68.5 248.6 415.8 115.9 531.6 144.7 635.5 780.2 December 199.8 78.5 778.3 455.6 163.2 618.7 136.7 760.4 897.0 March 116.1 47.0 163.1 270.3 162.5 432.9 73.3 522.7 596.0 June 140.9 88.8 229.7 510.8 183.3 694.1 235.7 688.0 923.8 SEASONALLY ADJUSTED SEASONALLY ADJUSTED SEASONALLY ADJUSTED SEASONALLY ADJUSTED 2009-10 574.1 183.7 757.8 2156.4 576.5 2732.9 840.3 2650.5 3490.7 2010-11 627.5 132.2 759.7 2123.9 437.6 2561.5 813.6 2507.6 3321.1 2011-12 633.6 279.5 913.1 1649.8 619.9 269.6 577.9 2604.8 3182.7 2010-11 September 168.4 36.8 205.1 590.0 104.3 694.3 235.8 663.6 899.5 December 149.7 26.1 175.8 542.7 110.5 653.2 253.1 575.9 829.0 March 163.7 29.4 193.2 514.9 100.3 615.3 194.9 613.5 804.4 June 145.7 39.9 185.5 476.2 122.5 598.7 129.7 664.6 784.2 2011-12 September 171.4 69.3 240.7 445.8 137.4 583.3 121.7 702.3 824.0 December 166.8 73.7 240.5 484.6 150.0 634.6 127.8 747.3 875.1 March 149.0 53.6 202.6 262.4 168.3 430.7 102.8 530.5 633.3 June 146.5 82.8 229.3 456.9 164.1 621.0 225.6 624.7 850.3 2011-12 625.6 268.5 849.1 162.5 618.5 2246.9 588.8 2585.0 3346.9 2011-12 September 163.7 36.5 200.2 590.4 105.9 696.3 241.4 655.1 896.5 2009-10 158.5 30.6 185.7 507.9 108.7 616.6 193.2 609.1 802.3 June 158.5 30.6 185.7 507.9 108.7 616.6 193.2 609.1 802.3 June 158.5 60.5 223.9 453.1 136.4 589.5 115.2 684.6 630.0 777.0 September 167.3 28.0 185.3 553.3 104.4 657.7 234.3 608.7 840.0	September	175.1	35.5	210.5	552.2	87.7	639.9	273.4	577.0	850.4		
Multiple Multiple	December	178.4	28.0	206.4	521.1	122.1	643.2	267.4	582.2	849.6		
September 180.1 68.5 248.6 415.8 115.9 531.6 144.7 635.5 780.2	March	126.7	26.5	153.2	519.3	93.6	612.9	142.6	623.5	766.1		
September December 199.8 180.1 68.5 248.6 415.8 115.9 531.6 144.7 635.5 780.2 December 199.8 78.5 278.3 455.6 163.2 618.7 136.7 760.4 897.0 March June 140.9 88.8 229.7 510.8 183.3 694.1 235.7 688.0 923.8 SEASONALLY ADJUSTED SEASONALLY ADJUSTED 2009-10 574.1 183.7 757.8 2 156.4 576.5 2 732.9 840.3 2 650.5 3 490.7 2010-11 627.5 132.2 757.8 2 156.4 576.5 2 732.9 840.3 2 650.5 3 490.7 2010-11 September 166.8 36.8 205.1 590.0 104.3 694.3 235.8 663.6 899.5 December 149.7 26.1 175.8 542.7 110.5 653.2 253.1 575.9 829.0 March 163.7 29.4	June	143.8	42.5	186.4	525.7	137.2	662.9	134.9	714.4	849.3		
December 199.8 78.5 278.3 455.6 163.2 618.7 136.7 760.4 897.0	2011–12											
March June 116.1 47.0 163.1 270.3 162.5 432.9 73.3 522.7 596.0 923.8	•											
June 140.9 88.8 229.7 510.8 183.3 694.1 235.7 688.0 923.8												
SEASONALLY ADJUSTED												
2009-10 574.1 183.7 757.8 2 156.4 576.5 2 732.9 840.3 2 650.5 3 490.7 2010-11 627.5 132.2 759.7 2 123.9 437.6 2 561.5 813.6 2 507.6 3 321.1 2011-12 633.6 279.5 913.1 1 649.8 619.9 2 269.6 577.9 2 604.8 3 182.7 2010-11 September 168.4 36.8 205.1 590.0 104.3 694.3 235.8 663.6 899.5 December 149.7 26.1 175.8 542.7 110.5 653.2 253.1 575.9 829.0 March 163.7 29.4 193.2 514.9 100.3 615.3 194.9 613.5 808.4 June 145.7 39.9 185.5 476.2 122.5 598.7 129.7 654.6 784.2 2011-12 502.0 171.4 69.3 240.7 445.8 137.4 583.3 121.7 702.3	June	140.9	88.8	229.7	510.8	183.3	694.1	235.7	688.0	923.8		
2009-10 574.1 183.7 757.8 2 156.4 576.5 2 732.9 840.3 2 650.5 3 490.7 2010-11 627.5 132.2 759.7 2 123.9 437.6 2 561.5 813.6 2 507.6 3 321.1 2011-12 633.6 279.5 913.1 1 649.8 619.9 2 269.6 577.9 2 604.8 3 182.7 2010-11 September 168.4 36.8 205.1 590.0 104.3 694.3 235.8 663.6 899.5 December 149.7 26.1 175.8 542.7 110.5 653.2 253.1 575.9 829.0 March 163.7 29.4 193.2 514.9 100.3 615.3 194.9 613.5 808.4 June 145.7 39.9 185.5 476.2 122.5 598.7 129.7 654.6 784.2 2011-12 502.0 171.4 69.3 240.7 445.8 137.4 583.3 121.7 702.3	• • • • • • • • • •	• • • • •	• • • • • •	• • • • • •	• • • • • • • •	• • • • •	• • • • • • •	• • • • • • • • • •	• • • • • • •	• • • • • •		
2010-11 627.5 132.2 759.7 2 123.9 437.6 2 561.5 813.6 2 507.6 3 321.1 2011-12 633.6 279.5 913.1 1 649.8 619.9 2 269.6 577.9 2 604.8 3 182.7 2010-11 September 168.4 36.8 205.1 590.0 104.3 694.3 235.8 663.6 899.5 December 149.7 26.1 175.8 542.7 110.5 653.2 253.1 575.9 829.0 March 163.7 29.4 193.2 514.9 100.3 615.3 194.9 613.5 808.4 June 145.7 39.9 185.5 476.2 122.5 598.7 129.7 654.6 784.2 2011-12 September 171.4 69.3 240.7 445.8 137.4 583.3 121.7 702.3 824.0 December 166.8 73.7 240.5 484.6 150.0 634.6 127.8 747.3				S	EASONALL	Y ADJ	USTED					
2010-11 627.5 132.2 759.7 2 123.9 437.6 2 561.5 813.6 2 507.6 3 321.1 2011-12 633.6 279.5 913.1 1 649.8 619.9 2 269.6 577.9 2 604.8 3 182.7 2010-11 September 168.4 36.8 205.1 590.0 104.3 694.3 235.8 663.6 899.5 December 149.7 26.1 175.8 542.7 110.5 653.2 253.1 575.9 829.0 March 163.7 29.4 193.2 514.9 100.3 615.3 194.9 613.5 808.4 June 145.7 39.9 185.5 476.2 122.5 598.7 129.7 654.6 784.2 2011-12 September 171.4 69.3 240.7 445.8 137.4 583.3 121.7 702.3 824.0 December 166.8 73.7 240.5 484.6 150.0 634.6 127.8 747.3	2009-10	574.1	183.7	757.8	2 156.4	576.5	2 732.9	840.3	2 650.5	3 490.7		
2011-12 (2010-11) 633.6 279.5 913.1 1 649.8 619.9 2 269.6 577.9 2 604.8 3 182.7 2010-11 Septembler 168.4 36.8 205.1 590.0 104.3 694.3 235.8 663.6 899.5 December 149.7 26.1 175.8 542.7 110.5 653.2 253.1 575.9 829.0 March 163.7 29.4 193.2 514.9 100.3 615.3 194.9 613.5 808.4 June 145.7 39.9 185.5 476.2 122.5 598.7 129.7 654.6 784.2 2011-12 September 171.4 69.3 240.7 445.8 137.4 583.3 121.7 702.3 824.0 December 166.8 73.7 240.5 484.6 150.0 634.6 127.8 747.3 875.1 March 149.0 53.6 202.6 262.4 168.3 430.7 102.8 530.5	2010-11	627.5	132.2	759.7				813.6		3 321.1		
September 168.4 36.8 205.1 590.0 104.3 694.3 235.8 663.6 899.5 December 149.7 26.1 175.8 542.7 110.5 653.2 253.1 575.9 829.0 March 163.7 29.4 193.2 514.9 100.3 615.3 194.9 613.5 808.4 June 145.7 39.9 185.5 476.2 122.5 598.7 129.7 654.6 784.2 2011-12 September 171.4 69.3 240.7 445.8 137.4 583.3 121.7 702.3 824.0 December 166.8 73.7 240.5 484.6 150.0 634.6 127.8 747.3 875.1 March 149.0 53.6 202.6 262.4 168.3 430.7 102.8 530.5 633.3 June 146.5 82.8 229.3 456.9 164.1 621.0 225.6 624.7	2011-12	633.6	279.5	913.1	1 649.8	619.9	2 269.6	577.9	2 604.8			
December 149.7 26.1 175.8 542.7 110.5 653.2 253.1 575.9 829.0 March 163.7 29.4 193.2 514.9 100.3 615.3 194.9 613.5 808.4 June 145.7 39.9 185.5 476.2 122.5 598.7 129.7 654.6 784.2 Zol1-12 September 171.4 69.3 240.7 445.8 137.4 583.3 121.7 702.3 824.0 December 166.8 73.7 240.5 484.6 150.0 634.6 127.8 747.3 875.1 March 149.0 53.6 202.6 262.4 168.3 430.7 102.8 530.5 633.3 June 146.5 82.8 229.3 456.9 164.1 621.0 225.6 624.7 850.3 TEND TREND 2009-10 573.2 190.5 763.7 <t< td=""><td>2010-11</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></t<>	2010-11											
March June 163.7 by 185.5 29.4 by 185.5 146.2 by 193.2 by 185.5 100.3 by 195.5 by 198.7 194.9 by 195.6 by 198.7 654.6 by 198.4 by 198.2 by 198.5 by 198.7 2011-12 September December 166.8 by 171.4 by 185.5 by 171.4 by 185.5 by 171.4 by 185.5 by 171.4 by 185.5 by 185.	September	168.4	36.8	205.1	590.0	104.3	694.3	235.8	663.6	899.5		
June 145.7 39.9 185.5 476.2 122.5 598.7 129.7 654.6 784.2 2011-12 September 171.4 69.3 240.7 445.8 137.4 583.3 121.7 702.3 824.0 December 166.8 73.7 240.5 484.6 150.0 634.6 127.8 747.3 875.1 March 149.0 53.6 202.6 262.4 168.3 430.7 102.8 530.5 633.3 June 146.5 82.8 229.3 456.9 164.1 621.0 225.6 624.7 850.3 TEX ND	December	149.7	26.1	175.8	542.7	110.5	653.2	253.1	575.9	829.0		
2011-12 September 171.4 69.3 240.7 445.8 137.4 583.3 121.7 702.3 824.0 December 166.8 73.7 240.5 484.6 150.0 634.6 127.8 747.3 875.1 March 149.0 53.6 202.6 262.4 168.3 430.7 102.8 530.5 633.3 June 146.5 82.8 229.3 456.9 164.1 621.0 225.6 624.7 850.3 TREND TREND 2009-10 573.2 190.5 763.7 2 152.0 590.5 2 742.4 845.5 2 660.6 3 506.1 2010-11 634.5 141.2 775.7 2 140.5 438.7 2 579.2 817.9 2 537.0 3 354.9 2011-12 625.6 268.5 894.1 1 628.5 618.5 2 246.9 558.8 2 585.6 3 140.6 2010-11 57.3	March	163.7	29.4	193.2	514.9	100.3	615.3	194.9	613.5	808.4		
September December December December 166.8 171.4 69.3 240.7 445.8 137.4 583.3 121.7 702.3 824.0 December 166.8 73.7 240.5 484.6 150.0 634.6 127.8 747.3 875.1 March 149.0 53.6 202.6 262.4 168.3 430.7 102.8 530.5 633.3 June 146.5 82.8 229.3 456.9 164.1 621.0 225.6 624.7 850.3 TREND TREND 2009-10 573.2 190.5 763.7 2 152.0 590.5 2 742.4 845.5 2 660.6 3 506.1 2010-11 634.5 141.2 775.7 2 140.5 438.7 2 579.2 817.9 2 537.0 3 354.9 2011-12 625.6 268.5 894.1 1 628.5 618.5 2 246.9 558.8 2 585.6 3 140.6 2010-11 2010-1 2010-1 2010-1	June	145.7	39.9	185.5	476.2	122.5	598.7	129.7	654.6	784.2		
December March March March March March 149.0 166.8 202.6 262.4 262.4 168.3 430.7 102.8 530.5 633.3 200.6 262.4 166.1 621.0 225.6 624.7 850.3 TREND TRUD 2009-10 573.2 190.5 763.7 2152.0 590.5 2742.4 845.5 2660.6 3506.1 2010-11 634.5 141.2 775.7 2140.5 438.7 2579.2 817.9 2537.0 3354.9 2011-12 625.6 268.5 894.1 1628.5 618.5 2246.9 558.8 2585.6 3140.6 2010-11 September 163.7 36.5 200.2 590.4 105.9 696.3 241.4 655.1 896.5 December 157.3 28.0 185.3 553.3 104.4 657.7 234.3 608.7 843.0 March 155.1 30.6 185.7 507.9 108.7 616.6 193.2 609.1 802.3 June 158.5 46.0 204.5 488.9 119.6 608.6 149.0 664.1 813.1 2011-12 September 163.7 67.0 228.5 411.4 151.9 563.3 118.8 673.0 791.9 March 155.1 69.5 224.5 384.1 162.0 546.1 144.9 625.7 770.7												
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2010-11 September December 163.7 36.5 200.2 590.4 105.9 696.3 241.4 655.1 896.5 December 157.3 28.0 185.3 553.3 104.4 657.7 234.3 608.7 843.0 March 155.1 30.6 185.7 507.9 108.7 616.6 193.2 609.1 802.3 June 158.5 46.0 204.5 488.9 119.6 608.6 149.0 664.1 813.1 2011-12 September 163.5 60.5 223.9 453.1 136.4 589.5 115.2 698.2 813.4 December 161.7 67.0 228.5 411.4 151.9 563.3 118.8 673.0 791.9 March 155.1 69.5 224.5 384.1 162.0 546.1 144.9 625.7 770.7										3 354.9		
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December 157.3 28.0 185.3 553.3 104.4 657.7 234.3 608.7 843.0 March 155.1 30.6 185.7 507.9 108.7 616.6 193.2 609.1 802.3 June 158.5 46.0 204.5 488.9 119.6 608.6 149.0 664.1 813.1 September 163.5 60.5 223.9 453.1 136.4 589.5 115.2 698.2 813.4 December 161.7 67.0 228.5 411.4 151.9 563.3 118.8 673.0 791.9 March 155.1 69.5 224.5 384.1 162.0 546.1 144.9 625.7 770.7	2010-11											
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June 158.5 46.0 204.5 488.9 119.6 608.6 149.0 664.1 813.1 2011-12 September 163.5 60.5 223.9 453.1 136.4 589.5 115.2 698.2 813.4 December 161.7 67.0 228.5 411.4 151.9 563.3 118.8 673.0 791.9 March 155.1 69.5 224.5 384.1 162.0 546.1 144.9 625.7 770.7	December		28.0		553.3		657.7					
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December 161.7 67.0 228.5 411.4 151.9 563.3 118.8 673.0 791.9 March 155.1 69.5 224.5 384.1 162.0 546.1 144.9 625.7 770.7												
March 155.1 69.5 224.5 384.1 162.0 546.1 144.9 625.7 770.7												
June 145.3 71.5 217.1 379.9 168.1 548.0 179.9 588.8 764.5												
	June	145.3	71.5	217.1	379.9	168.1	548.0	179.9	588.8	764.5		

⁽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								
September	20.9	np	145.1	np	597.1	np	25.7	850.4
December	54.0	np	125.3	15.1	559.2	np	22.5	849.6
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		0.7	444.0	25.0	407.0			700.0
September December	np	0.7	141.8 140.5	35.8 39.1	487.9 611.9	np	np 53.3	780.2 897.0
March	np 23.1	np	85.4	40.1	393.2	np	47.9	596.0
June	23.1 np	np np	100.0	59.3	624.2	np np	70.6	923.8
Julie	пр	пр	100.0	39.3	024.2	пр	70.0	923.0
• • • • • • • • • • •	• • • • • •	• • • • • • •	• • • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • • •	• • • • • • • • •
			SEASO	NALLY AD.	JUSTED			
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 2010–11	145.6	np	463.1	175.0	2 107.3	np	np	3 182.7
September	25.2	np	135.7	np	651.2	np	25.7	899.5
December	42.6	np	104.7	14.0	584.9	np	22.5	829.0
March	25.9	np	109.8	38.0	603.5	np	6.0	808.4
June	29.1	np	113.5	32.9	566.6	np	33.7	784.2
2011–12								
September	np	np	130.8	34.9	536.3	np	np	824.0
December	np	np	115.7	36.9	627.9	np	52.6	875.1
March	25.4	np	108.1	52.2	393.2	np	48.0	633.3
June	np	np	108.5	51.0	549.9	np	70.5	850.3
• • • • • • • • • •	• • • • • •	• • • • • • •	• • • • • • • • •	TREND	• • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • •
0000 10	405.0		400.0		0.504.6			0.500 :
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 2010–11	137.0	np	457.7	176.8	2 098.2	np	np	3 140.6
September	36.2	np	127.8	np	629.6	np	24.5	896.5
December	31.6	np	114.3	21.8	610.2	np	16.0	843.0
March	31.3	np	110.2	29.2	583.6	np	19.9	802.3
June	34.7	np	116.1	33.9	578.4	np	37.5	813.1
2011–12			220.2	30.0	3.3.1	۲	33	010.1
September	np	np	121.6	36.4	564.0	np	np	813.4
December	np	np	118.0	40.4	533.8	np	58.9	791.9
March	33.3	np	111.6	47.2	507.2	np	58.1	770.7
June	np	np	106.5	52.9	493.1	np	59.4	764.5

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

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.
- 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

SEASONAL ADJUSTMENT

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

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
FLEC	TPON	ICALLY

- **19** Current publications and other products released by the ABS are available from the Statistics View. The ABS also issues a daily *Release Advice* 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 *Oil and Gas Resources of Australia* 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

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.

FOR MORE INFORMATION

INTERNET

www.abs.gov.au the ABS website is the best place for data from our publications and information about the ABS.

INFORMATION AND REFERRAL SERVICE

Our consultants can help you access the full range of information published by the ABS that is available free of charge from our website. Information tailored to your needs can also be requested as a 'user pays' service. Specialists are on hand to help you with analytical or

methodological advice.

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