

AUSTRALIA

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INQUIRIES

Australian

Bureau of Statistics

For further information about these and related statistics, contact the National Information and Referral Service on 1300 135 070 or Heather Jackson on Sydney (02) 9268 4357.

NOTES

FORTHCOMING ISSUES	ISSUE (Quarter)	RELEASE DATE
	September 2006	13 December 2006
	December 2006	14 March 2007
	March 2007	13 June 2007
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CHANGES TO THIS ISSUE	There are no changes in t	his issue.
ABBREVIATIONS	ABS Australian Bure	eau of Statistics
	GST goods and serv	vices tax
	JPDA Joint Petroleur	n Development Area
	UNTAET United Nations	s Transitional Administration in East Timor
	WST wholesale sale	s tax
	ZOC Zone of Coope	eration

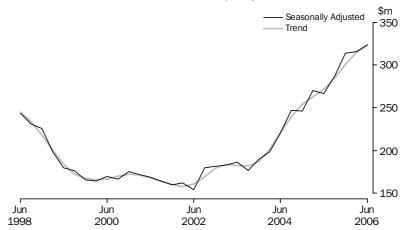
Susan Linacre Acting Australian Statistician

MINERAL EXPLORATION (OTHER THAN FOR PETROLEUM)

TREND ESTIMATES

The trend estimate for total mineral exploration expenditure increased by 2.4% to \$322.6m in the June quarter 2006. The estimate has risen in the past eleven quarters and is now 18.7% higher than the June quarter 2005 estimate.

MINERAL EXPLORATION, Seasonally adjusted and trend series



The largest contributions to the increase this quarter were in South Australia (up \$4.4m or 11.1%) and Queensland (up \$1.8m or 3.1%). Most states showed increasing expenditure levels this quarter, with only Western Australia showing a decrease (0.6m or 0.4%).

The trend estimate for metres drilled increased by 0.6% this quarter. The current estimate is now 5.5% higher than the June quarter 2005 estimate.

MINERAL EXPLORATION (OTHER THAN FOR PETROLEUM)

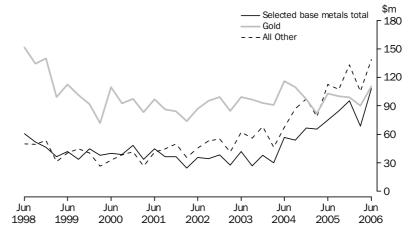
EXPLORATION EXPENDITURE

The seasonally adjusted estimate of mineral exploration expenditure increased by \$8.2m (2.6%) to \$323.8m in the June quarter 2006. South Australia had the largest increase (\$9.9m or 26.9%), while Queensland had the largest decrease (\$2.4m or 4.0%).

In original terms, mineral exploration expenditure increased by \$93.7m (35.5%). Exploration on areas of new deposits increased by \$25.2m (24.1%), while expenditure on areas of existing deposits increased by \$68.4m (42.9%).

In original terms, the largest increase in expenditure by minerals sought came from copper exploration (up \$22.1m or 89.8%), with the largest increase occurring in South Australia. The next largest increase came from expenditure on gold exploration (up \$20.5m or 22.8%).





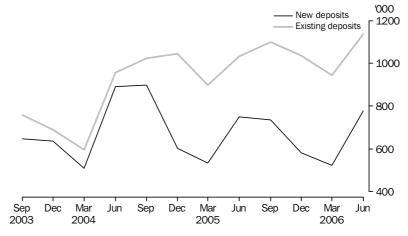
MINERAL EXPLORATION (OTHER THAN FOR PETROLEUM)

METRES DRILLED

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In seasonally adjusted terms, total metres drilled decreased by 1.8% in the June quarter 2006. In original terms total metres drilled increased by 30.6%. Drilling in areas of existing deposits increased by 20.6% and drilling in areas of new deposits increased by 48.8%.





PETROLEUM EXPLORATION

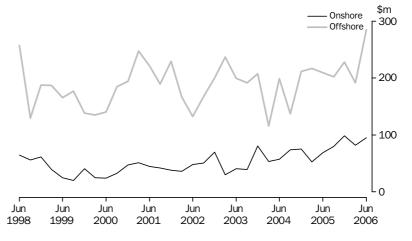
OVERVIEW

Expenditure on petroleum exploration for the June quarter 2006 increased by \$106.3m (38.9%) to \$379.9m.

Expenditure on exploration on production leases increased (by \$24.9m or 29.5%), while exploration on all other areas increased (by \$81.3m or 43.0%) this quarter.

There was an increase of \$92.8m (48.4%) in offshore exploration, while onshore exploration expenditure increased by \$13.4m (16.3%).

PETROLEUM EXPLORATION, Original series



REGIONAL DATA

All states showed increases in petroleum exploration expenditure in the June quarter 2006. Northern Territory had the largest increase (\$60.5m or 112.5%), followed by Western Australia with an increase of \$31.7m (23.1%).

TABLE1. PRIVATE EXPLORATION, ACTUAL AND EXPECTED EXPENDITURE

	• •	• •		•		•	• •		•	• •				•	•					•	• •		•	•	• •		•	•		•		•	• •		•	•	•	•				•	•	•						•	• •		•	•	•	6
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		XPLORATION					EUM ONSHOP			EUM OFFSH	
	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	9
	• • • • • • • •	• • • • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • • • • • •	• • • • • • • • • •		• • • • • • • • • •	••••		• • • • • • •
2003–04	786.7	606.2	129.8	773.8	101.7	230.5	243.1	94.8	713.5	722.8	98.7
2004–05	1 028.3	839.9	122.4	1 034.6	99.4	270.1	409.1	66.0	774.6	754.1	102.7
2005–06	1 240.7	927.6	133.7	1 146.6	108.2	355.8	514.3	69.2	906.1	816.7	111.0
2004–05											
Jun half	516.5	412.1	125.3	497.3	103.9	121.3	240.0	50.5	426.3	395.2	107.9
2005–06											
Dec half	619.6	413.4	149.9	522.5	118.6	178.4	270.7	65.9	430.1	506.7	84.9
Jun half	621.1	514.2	120.8	624.1	99.5	177.4	243.6	72.8	476.1	(b)369.9	(b)128.7
2006–07											
Dec half	nya	626.9	nya	743.1	nya	nya	249.9	nya	nya	624.6	nya

nya not yet available

(a) Refer to Explanatory Notes paragraphs 13-15.

(b) Petroleum offshore expected expenditure revised due to further information

received.



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

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• • • • • • • • • •

	EXPENDITU					METRES DI	RILLED			
	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
	• • • • • • • •		• • • • • • • • •		•••••		• • • • • • • • • •			
2003–04	311.2	475.6	786.7			2 681	3 001	5 681		
2004–05	404.6	623.8	1 028.3			2 783	4 001	6 784		
2005–06	457.5	783.4	1 240.7			2 618	4 219	6 837		
2004–05										
September	98.1	153.0	251.1	247.3	239.4	898	1 024	1 922	1 753	1 720
December	107.5	153.3	260.8	246.4	254.0	603	1 046	1 648	1 722	1 745
March	83.8	142.0	225.8	270.2	262.5	533	899	1 431	1 718	1 689
June	115.2	175.5	290.7	266.6	271.7	750	1 033	1 783	1 602	1 651
2005–06										
September	105.5	186.6	292.0	287.3	285.3	735	1 100	1 835	1 672	1 660
December	117.8	209.8	327.6	314.1	300.8	582	1 037	1 619	1 695	1 698
March	104.5	159.3	263.7	315.6	315.0	523	944	1 467	1 756	1 731
June	129.7	227.7	357.4	323.8	322.6	778	1 138	1 916	1 724	1 742

.. not applicable

.

	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			
2003–04	np	18.6	39.5	np	195.7	np	13.3	311.2
2004–05	19.5	9.8	47.9	22.3	283.3	3.5	18.2	404.6
2005–06	28.6	30.3	61.4	38.4	268.6	9.7	20.4	457.5
2004–05								
September	3.4	1.9	9.1	6.9	68.1	0.5	8.1	98.1
December	5.9	1.7	12.5	6.4	74.7	0.8	5.5	107.5
March	4.4	2.4	11.1	2.6	60.2	1.0	2.0	83.8
June 2005–06	5.8	3.8	15.2	6.4	80.2	1.2	2.6	115.2
September	4.8	6.3	14.4	8.1	64.2	1.2	6.6	105.5
December	5.0	8.5	15.5	10.9	70.8	1.4	5.7	117.8
March	10.4	6.7	13.0	8.1	60.4	3.2	2.7	104.5
June	8.4	8.9	18.5	11.2	73.2	3.9	5.5	129.7
			EXIST	ING DEPO	SITS			
2003–04	np	35.0	85.7	np	270.1	np	29.2	475.6
2004–05	54.1	41.7	118.5	44.6	322.7	4.8	37.4	623.8
2005–06	85.4	43.8	157.4	108.1	321.6	12.8	54.4	783.4
2004–05								
September	13.8	12.6	31.8	8.6	79.8	0.8	5.7	153.0
December	11.4	6.2	32.7	10.8	82.0	0.8	9.4	153.3
March	13.6	11.4	22.3	11.4	74.2	1.5	7.6	142.0
June	15.4	11.5	31.7	13.7	86.8	1.7	14.7	175.5
2005–06 September	17.9	9.4	31.5	17.7	90.2	2.3	17.5	186.6
December	24.4	12.2	43.2	28.6	87.2	2.4	11.9	209.8
March	19.3	11.1	36.1	16.5	61.1	5.2	10.0	159.3
June	23.7	11.1	46.6	45.2	83.1	3.0	15.0	227.7
				TOTAL				
2003–04	50.5	53.5	125.2	41.7	465.8	7.5	42.5	786.7
2004–05	73.6	51.5	166.4	66.9	606.0	8.3	55.6	1 028.3
2005–06	114.0	74.1	218.8	146.5	590.2	22.6	74.7	1 240.7
2004–05								
September	17.2	14.5	40.9	15.5	147.9	1.3	13.8	251.1
December	17.2	7.9	45.2	17.2	156.7	1.6	14.9	260.8
March	18.0	13.8	33.4	14.0	134.4	2.5	9.6	225.8
June 2005–06	21.2	15.3	46.9	20.1	167.0	2.9	17.3	290.7
September	22.7	15.7	45.9	25.8	154.4	3.6	24.1	292.0
December	29.4	20.7	58.7	39.5	158.0	3.7	17.6	327.6
March	29.8	17.8	49.0	24.7	121.5	8.4	12.6	263.7
June	32.2	20.0	65.2	56.5	156.3	6.9	20.5	357.4
								• • • • • • • •

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

	New South			South	Western		Northern	
	Wales	Victoria	Queensland	Australia	Australia	Tasmania	Territory	Australia
Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
• • • • • • • • • • •	• • • • • • • •		•••••		• • • • • • • • •	• • • • • • • • •		• • • • • • • •
				ORIGINAL				
2003–04	50.5	53.5	125.2	41.7	465.8	7.5	42.5	786.7
2004–05	73.6	51.5	166.4	66.9	606.0	8.3	55.6	1 028.3
2005–06	114.0	74.1	218.8	146.5	590.2	22.6	74.7	1 240.7
2004–05								
September	17.2	14.5	40.9	15.5	147.9	1.3	13.8	251.1
December March	17.2 18.0	7.9 13.8	45.2 33.4	17.2 14.0	156.7 134.4	1.6 2.5	14.9 9.6	260.8 225.8
June	21.2	15.3	46.9	20.1	167.0	2.5	9.0 17.3	225.8
2005-06	21.2	10.0	40.5	20.1	101.0	2.5	11.5	200.1
September	22.7	15.7	45.9	25.8	154.4	3.6	24.1	292.0
December	29.4	20.7	58.7	39.5	158.0	3.7	17.6	327.6
March	29.8	17.8	49.0	24.7	121.5	8.4	12.6	263.7
June	32.2	20.0	65.2	56.5	156.3	6.9	20.5	357.4
			SEASO	NALLY ADJ	USTED			
2004–05								
September	17.5	14.4	42.7	15.1	144.1	1.3	12.2	247.3
December	16.9	10.1	41.3	15.8	146.4	1.9	14.0	246.4
March	19.3	12.9	41.3	20.8	159.4	2.2	14.3	270.2
June	20.0	13.4	41.3	16.6	157.3	2.8	15.2	266.6
2005-06		4 = 0		05.4	150.0		o	007.0
September December	23.1	15.6	47.7	25.1 36.2	150.6	3.7 4.6	21.5	287.3
March	28.8 31.8	26.6 16.5	53.7 60.3	36.2 36.8	147.6 144.4	4.6 7.3	16.6 18.5	314.1 315.6
June	30.4	10.5	57.9	46.7	144.4	6.4	18.5	323.8
June	00.1	11.0	0110	1011	110.0	0.1	10.0	020.0
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				TREND				
2004–05								
September	16.0	12.3	40.7	15.0	141.1	1.7	12.6	239.4
December	17.7	11.7	41.6	16.8	151.0	1.8	13.4	254.0
March	18.7	12.3	41.3	17.6	155.9	2.2	14.5	262.5
June 2005–06	20.5	13.6	42.7	20.4	156.3	2.7	15.5	271.7
September	24.1	15.4	47.7	25.6	152.3	3.7	16.5	285.3
December	27.9	16.3	53.6	32.8	147.8	5.1	17.3	300.8
March	30.6	16.9	57.8	39.7	145.8	6.3	17.9	315.0
June	31.4	17.3	59.6	44.1	145.2	6.9	18.1	322.6

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

	•••••	•••••	•••••	•••••								
	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					
2003–04	4.3	np	np	9.4	20.5	_	4.7	np	13.6	np	1.9	50.5
2004–05	8.4	5.5	0.4	14.3	24.8	—	3.1	np	28.1	0.7	np	73.6
2005–06	19.5	6.7	0.9	27.1	22.1	_	4.2	_	56.0	1.0	3.5	114.0
2004–05												
September	2.0	1.0	0.1	3.1	7.6	—	np	np	5.5	np	0.3	17.2
December	2.1	1.4	0.1	3.6	6.3	—	np	np	6.0	np	np	17.2
March	1.8	1.8	0.1	3.8	4.7	_	np	—	7.8	np	0.6	18.0
June	2.5	1.4	0.1	3.9	6.2	—	np	np	8.9	np	1.2	21.2
2005-06	1.8		22	3.2	5.7				11.8	22	0.6	22.7
September December	1.8 5.6	np	np	3.2 7.1	5.7	_	np	_	11.8 15.2	np	0.6	22.7
March	5.0 7.3	np np	np np	9.2	4.7	_	np np	np	13.2	np np	0.8 1.2	29.4
June	4.8	np	np	7.6	6.6	_	np	np	15.3	np	1.1	32.2
Sano	1.0	np	пр	1.0	0.0		ΠÞ	ΠÞ	10.0	ΠÞ		02.2
• • • • • • • • • • •	• • • • • • •	••••	• • • • • • •	• • • • • • •		• • • • • • • •		•••••	• • • • • • •	• • • • • • • • •	• • • • • • • •	
						VICTORI	A					
2003–04	np	np	np	0.1	42.2	_	3.6	_	6.1	np	np	53.5
2004–05	np	—	np	np	37.1	_	3.1	_	8.8	—	2.4	51.5
2005–06	0.8	0.1	0.2	1.1	53.6	—	1.8	—	11.9	—	5.6	74.1
2004–05												
September	_	_	np	_	11.1	_	np	_	np	_	np	14.5
December	np	_	np	np	6.1	np	np	_	np	np	np	7.9
March	—	—	_	—	9.7	—	np	—	np	np	np	13.8
June	_	_	_	np	10.3	np	np	—	np	np	0.5	15.3
2005-06												
September	np	_	_	np	11.7	_	np	_	np	np	np	15.7
December	np	_	_	np	13.5	_	np	_	3.7	np	np	20.7
March	np	np	np	np	13.5 15.0	—	np	—	2.1	np	np	17.8
June	np	np	np	np	15.0	_	np	_	np	np	np	20.0
• • • • • • • • • • •	• • • • • • •	• • • • •	• • • • • • •	• • • • • • •			• • • • • • • •	• • • • • • • • •	• • • • • • •	• • • • • • • • •	• • • • • • • •	• • • • • • • • • •
					QL	JEENSLA	AND					
2003–04	15.0	13.7	0.8	29.5	26.0	np	0.1	0.2	60.6	np	np	125.2
2004–05	24.8	np	np	39.5	32.3	np	np	0.4	88.1	0.1	5.9	166.4
2005–06	37.9	31.5	11.0	80.4	33.9	1.0	—	4.6	94.0	0.2	4.7	218.8
2004–05												
September	4.9	np	np	9.7	8.7	np	np	_	20.7	0.1	1.7	40.9
December	5.7	np	np	10.1	8.1	np	np	np	24.8	np	1.8	45.2
March	5.7	1.9	0.2	7.7	6.1	np	—	np	18.3	—	1.1	33.4
June	8.6	2.5	0.8	11.9	9.4	np	np	np	24.2	np	1.3	46.9
2005-06												
September	11.7	7.3	0.3	19.3	8.1	_	np	np	17.3	np	0.7	45.9
December	9.9	np F O	np	20.8	9.2		np	np	26.7	—	0.9	58.7
March June	5.4	5.9	3.2	14.5 25.7	7.8	np	—	np	23.6 26 5		1.4	49.0
Julie	10.8	np	np	25.7	8.7	np	_	np	26.5	np	1.6	65.2

SELECTED BASE METALS

— nil or rounded to zero (including null cells)

(a) From September quarter 2000 Publication (8412.0) tin, tungsten, scheelite, wolfram and construction materials were added to this category.

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



continued

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SELECTED BASE METALS

	Copper	zinc	Nickel, cobalt	Total	Gold	Iron ore	Mineral sands	Uranium	Coal	Diamonds	Other(a)	Minera Exploration
Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$r
			• • • • • •					• • • • • • • • • •		• • • • • • • • •		• • • • • • • •
					SOL	ITH AUST	RALIA					
2003–04	13.7	2.6	5.6	21.9	9.2	_	2.9	5.3	0.1	np	np	41.
2004–05	32.7	np	np	37.0	9.0	np	5.1	np	0.2	1.8	0.5	66.9
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.
2004–05												
September	7.9	0.9	0.3	9.0	np	np	np	3.4	np	np	0.2	15.
December	8.3	np	np	9.3	np	_	np	np	np	np	0.1	17.:
March	6.9	np	np	7.6	np	np	np	2.5	np	np	0.1	14.
June	9.6	1.2	0.3	11.1	np	np	np	4.4	np	0.3	0.1	20.
2005–06												
September	12.4	1.1	1.8	15.3	2.5	np	np	5.3	np	np	np	25.
December	17.1	1.8	2.4	21.3	5.7	0.2	np	9.0	np	0.2	np	39.
March	8.9	2.4	0.7	12.0	5.6	np	np	5.5	np	0.3	np	24.
June	27.6	3.7	0.7	32.1	8.6	np	np	10.5	np	np	np	56.
								• • • • • • • • • •		• • • • • • • •		
					WEST	ERN AUS	STRALIA					
2003–04	np	np	70.6	80.0	276.7	np	10.6	0.2	np	17.0	16.8	465.
2004–05	4.7	4.8	148.7	158.2	259.6	136.9	14.8	0.3	1.6	15.9	18.7	606.
2005–06	9.3	13.9	115.0	138.2	240.3	155.6	12.9	2.2	np	np	26.0	590.2
2004–05												
September	np	np	28.7	30.0	73.9	29.6	np	np	0.4	4.6	4.9	147.9
December	1.9	0.6	38.0	40.5	67.5	35.0	np	0.1	np	5.3	5.0	156.
March	np	np	40.9	43.4	54.1	27.3	3.6	—	np	2.2	3.3	134.
June	1.4	1.8	41.1	44.3	64.1	45.1	3.6	0.1	0.3	3.8	5.6	167.
2005–06												
September	2.3	1.7	36.5	40.5	62.0	35.9	3.1	0.2	0.2	4.0	8.4	154.
December	2.2	4.4	33.7	40.3	61.1	41.4	3.6	np	np	4.6	6.5	158.
March	2.0	2.1	19.7	23.7	53.7	31.0	2.9	np	0.5	np	6.8	121.
June	2.9	5.8	25.0	33.7	63.5	47.4	3.2	np	np	2.5	4.3	156.
• • • • • • • • • • • •	• • • • • • •				•••••			• • • • • • • • • •		• • • • • • • • •	• • • • • • • •	• • • • • • • •
						TASMAN						
2003–04	0.2	1.5	3.0	4.7	2.5	np	—	—	—	—	np	7.
2004–05	_	3.7	1.6	5.3	2.0	_	np	—		—	np	8.
2005–06	1.1	8.5	5.3	14.9	4.9	0.2	—	—	1.6	_	1.0	22.0
2004–05												
September	np	np	np	0.9	np	_	np	—	—	—	0.1	1.3
December	—	np	np	np	np	np	—	—	—	—	0.4	1.
March	np	np	np	1.6	np	np	—	—	_	—	np	2.
June	—	1.5	np	np	np	np	—	—	—	_	0.2	2.9
2005–06				2.0	0 5							~
September December	np	np	np	2.8 2.8	0.5 0.8			_		np 	np	3.
March	np	np 2.5	np	2.8 5.6	0.8 1.1	np	np	_	np	—	np 0.1	3. 8.
June	np np	2.5 2.6	np np	5.6 3.7	2.6	np	np	_	np np	_	np	8.4 6.9

nil or rounded to zero (including null cells)

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

(a) From September quarter 2000 Publication (8412.0) tin, tungsten, scheelite, wolfram and construction materials were added to this category.



continued

SELECTED BASE METALS

	Copper	Silver, lead, zinc	Nickel, cobalt	Total	Gold	lron ore	Mineral sands	Uranium	Coal	Diamonds	Other(a)	Total Mineral Exploration
Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
	• • • • • • •				• • • • • • • • • •				• • • • • • •			
					NORIF	IERN IE	RRITORY					
2003–04	1.5	0.9	3.9	6.3	20.0	np	2.0	4.8	_	6.6	np	42.5
2004–05	np	1.1	5.0	np	26.7	0.9	1.6	6.9	np	5.2	np	55.6
2005–06	4.9	1.4	8.0	14.3	22.4	3.6	3.5	19.1	_	6.8	5.2	74.7
2004–05												
September	0.1	0.2	1.1	1.4	6.8	np	np	np	—	1.6	np	13.8
December	np	0.4	1.6	np	5.4	np	np	np	—	1.5	3.9	14.9
March	—	0.1	1.2	1.3	4.3	np	0.5	np	np	0.9	1.9	9.6
June	0.3	0.3	1.2	1.8	10.2	np	np	2.2	—	1.2	0.8	17.3
2005–06												
September	np	np	0.5	np	9.5	np	np	np	_	1.8	1.8	24.1
December	1.6	0.7	np	np	3.6	np	0.8	np	_	2.4	np	17.6
March	0.2	np	np	np	3.7	np	np	2.8	np	1.4	0.7	12.6
June	np	np	np	np	5.6	np	0.9	4.8	—	1.2	1.8	20.5
• • • • • • • • • • •	• • • • • • •				• • • • • • • • •	AUSTRAL	_ I A		• • • • • • •	• • • • • • • •		
2003–04	37.8	29.7	84.2	151.8	397.1	63.7	23.8	10.5	81.5	25.8	32.5	786.7
2003-04	57.8 71.3	29.7 31.2	04.2 158.6	261.1	391.7	138.0	23.8 27.6	20.7	126.8	23.8	32.5 38.7	1 028.3
2004-05	139.5	71.1	138.0 145.9	356.6	399.7	161.2	29.2	56.1	166.4	23.7	49.0	1 240.7
2004–05	10010		11010	00010		10112	2012	0011	10011	22.0		
September	15.5	7.8	30.8	54.1	109.9	29.8	8.0	6.1	27.4	6.9	8.8	251.1
December	18.3	7.9	40.4	66.5	96.8	29.8 35.1	5.9	4.6	32.0	0.9 7.6	12.2	260.8
March	15.2	7.0	43.3	65.4	81.9	27.3	6.7	3.2	29.8	3.6	7.8	200.8
June	22.4	8.6	43.3 44.1	75.1	103.1	45.7	7.0	5.2 6.8	29.8 37.6	5.6	9.8	225.8
2005-06	22.4	0.0	T	10.1	100.1		1.0	0.0	51.0	5.0	5.0	200.1
September	31.5	13.1	40.0	84.5	100.0	36.3	8.1	11.9	32.2	6.3	12.7	292.0
December	36.7	17.8	40.7	95.2	99.1	42.9	8.3	15.8	46.0	7.3	12.9	327.6
March	24.6	14.8	29.3	68.7	90.0	32.4	5.6	10.1	41.5	4.4	11.2	263.7
June	46.7	25.5	36.0	108.2	110.5	49.7	7.2	18.3	46.7	4.6	12.3	357.4

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 (8412.0) tin, tungsten, scheelite, wolfram and construction materials were added to this category.

PETROLEUM EXPLORATION EXPENDITURE

	ONSHORE			OFFSHO	OFFSHORE			TOTAL EXPENDITURE		
	Drilling	Other	Total	Drilling	Other	Total	On production leases(a)	On all other areas(a)	Total	
Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	
• • • • • • • • • • •			• • • • • • •	• • • • • • •	• • • • • •	• • • • • • • •	• • • • • • • • • •		• • • • • • •	
2003–04 2004–05 2005–06	124.5 152.5 229.3	106.0 117.6 126.6	230.5 270.1 355.8	np 511.4 492.2	np 263.2 413.9	713.5 774.6 906.1	143.7 222.7 455.2	800.2 822.0 806.7	944.0 1 044.7 1 262.0	
2004–05 September December March June 2005–06 September December March June	40.4 50.6 30.8 30.7 51.8 67.4 45.6 64.5	33.3 24.5 21.7 38.1 28.0 31.2 36.3 31.0	73.7 75.1 52.5 68.8 79.8 98.6 82.0 95.4	67.7 141.7 139.6 162.4 125.7 123.3 111.1 132.1	69.0 69.8 77.1 47.3 76.5 104.6 80.5 152.3	136.7 211.5 216.7 209.7 202.2 227.9 191.6 284.4	59.4 55.4 34.3 73.7 87.2 174.2 84.4 109.3	151.1 231.2 234.9 204.8 194.7 152.2 189.2 270.5	210.5 286.6 269.2 278.5 282.0 326.5 273.6 379.9	

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

(a) Refer to Glossary for definition.



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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
	• • • • • • •				• • • • • • • • •			
2003–04	17.7	66.9	95.5	53.3	670.5	6.3	33.8	944.0
2004–05	26.9	162.5	104.0	80.8	526.5	44.9	99.2	1 044.7
2005–06	10.0	69.8	135.1	132.3	593.6	22.0	299.2	1 262.0
2004–05								
September	9.1	12.9	22.0	23.7	129.7	4.6	8.5	210.5
December	np	61.9	30.3	33.2	113.1	np	15.8	286.6
March	np	48.7	23.9	9.8	154.3	np	17.9	269.2
June	np	39.0	27.8	14.1	129.4	np	56.9	278.5
2005-06								
September	4.0	22.7	23.9	29.6	135.1	2.0	64.7	282.0
December	np	29.1	30.2	40.3	152.8	np	66.4	326.5
March	np	8.9	38.4	29.4	137.0	np	53.8	273.6
June	np	9.0	42.6	33.0	168.7	np	114.3	379.9
nn not available for publication but included in totals where (a). Also contains some additional areas. See paragraphs 5								

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

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

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EXPLANATORY NOTES

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

EXPLANATORY NOTES *continued*

TREND ESTIMATES	10 The smoothing of seasonally adjusted series to create trend estimates reduces the impact of the irregular component of the seasonally adjusted series.
	11 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.
	12 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 <timeseries@abs.gov.au>.</timeseries@abs.gov.au>
EXPECTED EXPLORATION EXPENDITURE	13 Expected expenditure is collected in June and December quarter each year. Businesses are asked to report their expected expenditure for the next six months.
	14 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.
	15 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	16 ABS publications draw extensively on information provided freely by individuals, businesses, government and other organisations. Their continued cooperation is appreciated: without it a wide range of statistics published by the ABS would not be available. Information received by the ABS is treated in strict confidence as required by the <i>Census and Statistics Act 1905</i> .
RELATED PUBLICATIONS	 17 Users may also wish to refer to the following publications which are for sale and available on request: 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	18 All ABS publications (html and pdf) can be downloaded free of charge from the ABS web site. See the back page for more details.
	19 Current publications produced by the ABS are listed in the <i>Catalogue of Publications and Products</i> (cat. no. 1101.0), which is available from any ABS office. The ABS also issues a <i>Release Advice</i> 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="">.</http:>

EXPLANATORY NOTES continued

ABS DATA AVAILABLE ELECTRONICALLY continued **20** Publications showing the details of wells and metres drilled in petroleum exploration are available from the Petroleum Resources Program of Geoscience Australia.

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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 <i>Petroleum (Submerged Lands) Act 1967.</i>
Onshore	Includes all Australian territorial lands to the low water mark.
Petroleum	Is a naturally occurring hydrocarbon or mixture of hydrocarbons. As oil or gas in solution (e.g. Liquid Petroleum Gas), it is widespread in Australian sedimentary rocks.
Retention licence	Is an intermediate form of tenure between the exploration licence and mining licence allowing the holder of the exploration licence to retain title to the area for a limited time. It is designed to ensure the retention of rights pending the transition of a project from the exploration phase to the commercial mining phase.
Selected base metals	Are made up of the following minerals: copper, silver, lead-zinc, nickel and cobalt.

GLOSSARY continued

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

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