

MINERAL AND PETROLEUM EXPLORATION

AUSTRALIA

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5 Mineral exploration, (other than for petroleum), expenditure by state and

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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 2006 14 March 2007 March 2007 13 June 2007

June 2007 12 September 2007

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

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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

Dennis Trewin

Australian Statistician

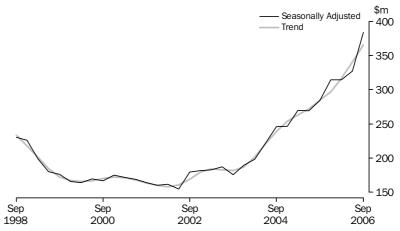
SUMMARY OF FINDINGS

MINERAL EXPLORATION (OTHER THAN FOR PETROLEUM)

TREND ESTIMATES

The trend estimate for total mineral exploration expenditure increased by 7.2% in the September quarter 2006. The estimate is now 28.4% higher than the September quarter 2005 estimate.

MINERAL EXPLORATION, Seasonally adjusted and trend series



The largest contributions to the increase this quarter were in Western Australia (up 14.4m or 9.2%) and South Australia (up 3.7m or 8.2%). All states showed increasing expenditure levels this quarter.

The trend estimate for metres drilled increased by 5.3% this quarter. The current estimate is now 16.3% higher than the September quarter estimate for last year.

MINERAL EXPLORATION (OTHER THAN FOR PETROLEUM)

EXPLORATION EXPENDITURE

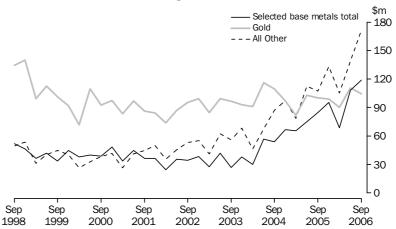
The seasonally adjusted estimate of mineral exploration expenditure increased by \$56.4m (17.2%) to \$383.9m in the September quarter 2006. The largest increases this quarter were in Western Australia with an increase of \$34.5m or 23.2%, and Queensland with an increase of \$7.1m or 12.1%.

In original terms, mineral exploration expenditure increased by \$37.2m (10.4%). Western Australia had the largest increase of \$33.9m (21.7%), while South Australia had the largest decrease of \$5.4m (9.6%).

In original terms, exploration on areas of new deposits increased by 8.8m (6.8%), while expenditure on areas of existing deposits increased by 28.4m (12.5%).

In original terms, the largest increase by minerals sought came from expenditure on iron ore exploration (up \$20.4m or 41.0%), with the largest increase occurring in Western Australia. The next largest increase came from expenditure on uranium exploration (up \$6.4m or 35.0%). The largest decrease came from expenditure on gold exploration (down \$6.2m or 5.6%).

MINERAL EXPLORATION, Original series

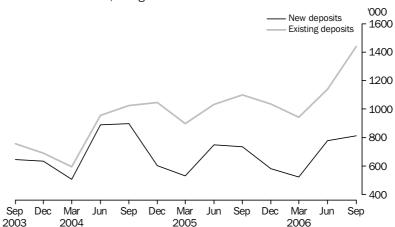


MINERAL EXPLORATION (OTHER THAN FOR PETROLEUM)

METRES DRILLED

In seasonally adjusted terms, total metres drilled increased by 15.5% in the September quarter 2006. In original terms total metres drilled increased by 17.5%. Drilling in areas of new deposits increased by 4.4% and drilling in areas of existing deposits increased by 26.4%.

METRES DRILLED, Original series



PETROLEUM EXPLORATION

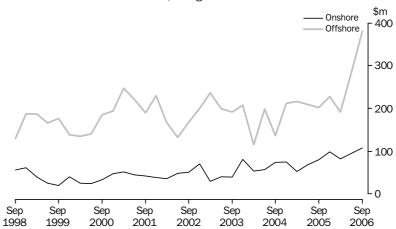
OVERVIEW

Expenditure on petroleum exploration for the September quarter 2006 increased by $$108.7m\ (28.6\%)$ to \$488.6m.

Expenditure on exploration on production leases increased (by 22.0m or 20.1%), while exploration on all other areas increased (by 86.8m or 32.1%) this quarter.

There was an increase of \$96.4m (33.9%) in offshore exploration, while onshore exploration expenditure increased by \$12.4m (13.0%).

PETROLEUM EXPLORATION, Original series



REGIONAL DATA

In the September quarter 2006, Western Australia had the largest increase in petroleum exploration expenditure of \$121.2m (71.8%), followed by South Australia with an increase of \$8.1m (24.5%). Northern Territory had the largest decrease of \$12.9m (11.3%).



PRIVATE EXPLORATION, ACTUAL AND EXPECTED EXPENDITURE

							EUM ONSHOR			EUM OFFSHO	
	Actual	Expected	proportion	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	%
• • • • • • • •	• • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • •
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	369.9	128.7
2006–07											
Dec half	nya	626.9	nya	743.1	nya	nya	249.9	nya	nya	624.6	nya



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

	EXPENDITU	IRE				METRES DE	RILLED			
	New deposits	Existing deposits	Total	Seasonally Adjusted	Trend	New deposits	Existing deposits	Total	Seasonally Adjusted	Trend
	ueposits	ueposits	TOtal	Aujusteu	rrena	ueposits	ueposits	Total	Aujusteu	Henu
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										
December	107.5	153.3	260.8	246.5	253.7	603	1 046	1 648	1 721	1 744
March	83.8	142.0	225.8	269.6	262.9	533	899	1 431	1 718	1 692
June	115.2	175.5	290.7	269.4	272.0	750	1 033	1 783	1 621	1 653
2005-06										
September	105.5	186.6	292.0	284.0	284.6	735	1 100	1 835	1 649	1 655
December	117.8	209.8	327.6	314.7	296.9	582	1 037	1 619	1 696	1 679
March	104.5	159.3	263.7	314.7	316.7	523	944	1 467	1 758	1 742
June	129.7	227.7	357.4	327.5	340.8	778	1 138	1 916	1 747	1 828
2006-07										
September	138.5	256.1	394.6	383.9	365.3	812	1 439	2 251	2 017	1 925

not applicable

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

	New South			South	Western		Northern	
	Wales	Victoria	Queensland	Australia	Australia	Tasmania	Territory	Australia
Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
• • • • • • • • • •	• • • • • •	• • • • • • •	NE	W DEPOSI	ITS	• • • • • • •	• • • • • • •	• • • • • • • •
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								
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
2006–07								
September	9.0	6.6	18.9	14.6	77.1	4.1	8.2	138.5
• • • • • • • • • •	• • • • • • •	• • • • • • •	EXIST	ING DEPO		• • • • • • • •	• • • • • • • •	• • • • • • • •
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								
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	90.2 87.2	2.3	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
2006-07								
September	26.3	15.7	45.3	36.5	113.1	2.5	16.8	256.1
• • • • • • • • • •	• • • • • •	• • • • • • •	• • • • • • • •	TOTAL	• • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • • •
2003-04	50.5	53.5	125.2	41.7	465.8	7.5	42.5	786.7
2003-04	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								
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	21.2	15.3	46.9	20.1	167.0	2.9	17.3	290.7
2005–06 September	22.7	15.7	45.9	25.8	154.4	3.6	24.1	292.0
December	22.7 29.4	20.7	45.9 58.7	25.8 39.5	154.4	3.6	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
2006–07								
September	35.3	22.3	64.2	51.1	190.2	6.6	25.0	394.6

 $^{{\}sf np} \quad \text{ not available for publication but included in totals where applicable, unless otherwise indicated} \\$

	New							
	South			South	Western		Northern	
	Wales	Victoria	Queensland	Australia	Australia	Tasmania	Territory	Australia
Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
• • • • • • • • •	• • • • • •	• • • • • • •	• • • • • • • •	00101111	• • • • • • • •	• • • • • • •	• • • • • • • •	• • • • • • •
				ORIGINAL				
2003-04	50.5	53.5	125.2	41.7	465.8	7.5	42.5	786.7
2004–05 2005–06	73.6 114.0	51.5 74.1	166.4 218.8	66.9 146.5	606.0 590.2	8.3 22.6	55.6 74.7	1 028.3 1 240.7
	114.0	14.1	216.6	140.5	590.2	22.0	14.1	1 240.7
2004–05 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		2.5		200.8
					134.4		9.6	
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
2006–07								
September	35.3	22.3	64.2	51.1	190.2	6.6	25.0	394.6
• • • • • • • • • •	• • • • • •	• • • • • • •	• • • • • • • • •	• • • • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • • •	• • • • • • •
			SEASO	NALLY ADJ	USTED			
2004–05								
December	16.9	10.2	41.3	15.9	146.4	1.9	13.9	246.5
March	19.3	12.6	41.1	20.6	159.6	2.1	14.3	269.6
June	20.2	13.7	41.7	16.7	158.8	2.8	15.5	269.4
2005–06	00.7	45.0	47.0	05.0	1.10.0	2.0	04.4	004.0
September	22.7	15.3	47.3	25.0	148.8	3.8	21.1	284.0
December	28.9 31.9	27.0 16.1	53.8 59.8	36.4 36.5	147.6 144.7	4.5 7.2	16.5 18.5	314.7 314.7
March June	30.7	18.1	59.8 58.5	36.5 46.9	144.7	6.4	18.4	314.7
2006–07	30.7	10.1	56.5	46.9	140.3	0.4	10.4	321.3
September	35.2	21.8	65.6	49.4	183.0	7.1	21.8	383.9
• • • • • • • • • •			• • • • • • • • •	• • • • • • •		• • • • • • •		
				TREND				
2004-05								
December	17.7	11.7	41.5	16.7	150.9	1.8	13.4	253.7
March	18.7	12.3	41.3	17.6	156.2	2.2	14.6	262.9
June	20.5	13.7	42.7	20.3	156.5	2.8	15.5	272.0
2005-06								
September	24.0	15.3	47.6	25.6	151.9	3.8	16.4	284.6
December	27.7	16.0	53.3	32.7	145.0	5.1	17.1	296.9
March	30.8	17.0	57.9	39.7	147.1	6.2	18.0	316.7
June	32.7	18.6	61.2	45.0	157.1	6.8	19.4	340.8
2006–07 September	33.6	20.4	63.5	48.7	171.5	7.1	20.5	365.3
ochtennel	55.0	20.4	03.5	+0.1	111.0	1.1	20.5	303.3



SELECTED BASE METALS

	Copper	Silver, lead, zinc	Nickel, cobalt	Total	Gold	Iron ore	Mineral sands	Uranium	Coal	Diamonds	Other(a)	Tota Minera Exploratio
Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$1
• • • • • • • • •		• • • • •			• • • • • • • •			• • • • • • • •				
					NEW	SOUTH	WALES					
2003–04	4.3	np	np	9.4	20.5	_	4.7	np	13.6	np	1.9	50.
2004–05	8.4	5.5	0.4	14.3	24.8	_	3.1	np	28.1	0.7	np	73.
2005–06	19.5	6.7	0.9	27.1	22.1	_	4.2	_	56.0	1.0	3.5	114.
2004–05												
December	2.1	1.4	0.1	3.6	6.3	_	np	np	6.0	np	np	17.
March	1.8	1.8	0.1	3.8	4.7	_	np	_	7.8	np	0.6	18.
June	2.5	1.4	0.1	3.9	6.2	_	np	np	8.9	np	1.2	21.
2005–06												
September	1.8	np	np	3.2	5.7	_	np	_	11.8	np	0.6	22.
December	5.6	np	np	7.1	5.3	_	np	_	15.2	np	0.6	29.
March	7.3	np	np	9.2	4.7	_	np	np	13.8	np	1.2	29.
June	4.8	np	np	7.6	6.6	_	np	np	15.3	np	1.1	32.
2006-07 September	6.7	np	np	9.5	4.5	_	np	_	18.3	np	1.1	35.
						VICTORI	Α					
2003–04	np	np	np	0.1	42.2	_	3.6	_	6.1	np	np	53.
2004–05	np		np	np	37.1	_	3.1	_	8.8	<u>.</u>	2.4	51.
2005–06	0.8	0.1	0.2	1.1	53.6	_	1.8	_	11.9	_	5.6	74.
2004–05												
December	np	_	np	np	6.1	np	np	_	np	np	np	7.
March	_	_	_	_	9.7	_	np	_	np	np	np	13.
June	_	_	_	np	10.3	np	np	_	np	np	0.5	15.
2005–06												
September	np	_	_	np	11.7	_	np	_	np	np	np	15.
December	np	_	_	np	13.5	_	np	_	3.7	np	np	20.
March	np	np	np	np	13.5	_	np	_	2.1	np	np	17.
June	np	np	np	np	15.0	_	np	_	np	np	np	20.
2006–07												
September	np	np	np	_	13.3	_	0.3	_	np	np	np	22.
• • • • • • • • • •	• • • • • •	• • • • •	• • • • • •	• • • • • • •				• • • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • •
						JEENSLA						
2003–04	15.0	13.7	0.8	29.5	26.0	np	0.1	0.2	60.6	np	np	125.
2004–05	24.8	np	np	39.5	32.3	np	np	0.4	88.1	0.1	5.9	166.
2005–06	37.9	31.5	11.0	80.4	33.9	1.0	_	4.6	94.0	0.2	4.7	218.
2004–05												
December	5.7	np	np	10.1	8.1	np	np	np	24.8	np	1.8	45.
March	5.7	1.9	0.2	7.7	6.1	np	_	np	18.3	_	1.1	33.
June	8.6	2.5	0.8	11.9	9.4	np	np	np	24.2	np	1.3	46.
2005–06												
September	11.7	7.3	0.3	19.3	8.1	_	np	np	17.3	np	0.7	45.
December	9.9	np	np	20.8	9.2	_	np	np	26.7	_	0.9	58.
March	5.4	5.9	3.2	14.5	7.8	np	_	np	23.6	_	1.4	49.
June	10.8	np	np	25.7	8.7	np	_	np	26.5	np	1.6	65.
2006–07	45.4			00.5	2.4			4.0	04.6		4.0	
September	15.4	np	np	28.5	8.1	np	np	1.9	24.0	_	1.2	64.

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	

SOUTH AUSTRALIA 2003-04		Copper	Silver, lead, zinc	Nickel, cobalt	Total	Gold	Iron ore	Mineral sands	Uranium	Coal	Diamonds	Other(a)	Total Mineral Exploration
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 68. 2004-05	Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
2004-05	• • • • • • • • • •	• • • • • •	• • • • •	• • • • • •	• • • • • • •	SOU	TH AUS	ΓRALIA	• • • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • • •
2004-06 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	2003-04	13.7	2.6	5.6	21.9	9.2	_	2.9	5.3	0.1	np	np	41.7
December 8.3 np np np 7.6 np np np np np np np n	2004-05	32.7	np	np	37.0	9.0	np	5.1	np	0.2	1.8	0.5	66.9
December 8.3 np np 9.3 np np np np np np np n	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
March 6.9 np np 0, 7.6 np np np 0, 1.1 14. June 9.6 1.2 0.3 11.1 np 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 np 5.3 np np 0,2 np 25. December 17.1 1.8 2.4 21.3 5.7 0.2 np np 0,5 np 0.2 np 39. March 8.9 2.4 0.7 12.0 5.6 np np np 10.5 np np 0.3 np 24. June 27.6 3.7 0.7 32.1 8.6 np np np 10.5 np np np np p 55. Np np np np 10.5 np np np np 55. September 23.3 2.7 0.2 26.2 6.0 np 1.6 14.2 np np np np np 55. Np np np np 10.5 np np np 10.5 np np np 10.5 np np np np 10.5 np np np 10.5 np np np np np 10.5 np np np np 10.5 np np 10.5 np np np np 10.5 np	2004–05												
June 9.6 1.2 0.3 11.1 np np np np np 1,0 4.4 np 0.3 0.1 20. 2005-06 September 12.4 1.1 1.8 15.3 2.5 np np np 5.3 np np np 0.2 np 39. December 17.1 1.8 2.4 2.1 3 5.7 0.2 np np 5.3 np np np 0.2 np 39. March 8.9 2.4 0.7 12.0 5.6 np np p 5.5 np 0.3 np np np np 56. June 27.6 3.7 0.7 32.1 8.6 np np np 10.5 np np np np np np p 56. WESTERN AUSTRALIA WESTERN AUSTRALIA 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. 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. 2004-05 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 13.4 June 1.4 1.8 14.1 44.3 64.1 45.1 3.6 0.1 0.3 3.8 5.6 167. 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 2.4 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 np 2.5 4.3 156. September 2.5 4.4 33.7 63.5 40.5 66.4 3.8 1.7 np 4.6 6.5 158. March 2.0 2.1 19.7 23.7 53.7 31.0 2.9 np np 2.5 4.3 156. September 4.5 8.7 31.3 44.5 64.7 66.4 3.8 1.7 np 4.7 np 130.6 22. 2004-05 September 4.5 8.7 31.3 44.5 64.7 66.4 3.8 1.7 np 7. 0.5 np 6.8 121. June 2.9 5.8 25.0 33.7 63.5 20 — np — — — — np 2.5 4.3 156. 2006-07 September — np	December	8.3	np	np	9.3	np	_	np	np	np	np	0.1	17.2
2005-06 September 12.4	March	6.9	np	np	7.6	np	np	np	2.5	np	np	0.1	14.0
September 124 1.1 1.8 15.3 2.5 np np 5.3 np np np 2.5	June	9.6	1.2	0.3	11.1	np	np	np	4.4	np	0.3	0.1	20.1
December 17.1 1.8 2.4 21.3 5.7 0.2 np 9.0 np 0.2 np 3.9	2005–06												
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 10.5 np np np 56. 2006-07 September 23.3 2.7 0.2 26.2 6.0 np 1.6 14.2 np np np 55. np np np 56. 2006-07 WESTERN AUSTRALIA 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 13.9 115.0 138.2 240.3 156.6 12.9 2.2 np np 25. 3 3.3 134. 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 22. 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. 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 2.4 4 33.7 40.3 61.1 41.4 3.6 np 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. 2006-07 September 4.5 8.7 31.3 44.5 64.7 66.4 3.8 1.7 np 4.7 np 190. TASMANIA 2003-04	•												25.8
June 27.6 3.7 0.7 32.1 8.6 np np 10.5 np np np 56. 2008-07 September 23.3 2.7 0.2 26.2 6.0 np 1.6 14.2 np np np 51. WESTERN AUSTRALIA WESTERN AUSTRALIA WESTERN AUSTRALIA 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. 2004-06 9.3 13.9 115.0 138.2 240.3 155.6 12.9 2.2 np np 26.0 890. 2004-05 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 56 127. 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. 2003-04 0.2 1.5 3.0 4.7 2.5 np — — — — np 7. 2005-06 September 4.5 8.7 31.3 44.5 64.7 66.4 3.8 1.7 np 4.7 np 190. **TASMANIA** **TASMANIA								•				np	39.5
September 23.3 2.7 0.2 26.2 6.0 np 1.6 14.2 np np np 51.													24.7
Western Australia West		27.6	3.7	0.7	32.1	8.6	np	np	10.5	np	np	np	56.5
WESTERN AUSTRALIA 2003-04									44.0				
2003-04	September	23.3	2.7	0.2	26.2	6.0	np	1.6	14.2	np	np	np	51.1
2004-05	• • • • • • • • • •	• • • • • •	• • • • •	• • • • • •	• • • • • • •	WEST	ERN AUS	STRALIA	• • • • • • • •	• • • • • •	• • • • • • •	• • • • • • •	• • • • • • • •
2004-05	2003-04	nn	nn	70.6	80 O	276.7	nn	10.6	0.2	nn	17.0	16.8	465.8
2005-06 9.3 13.9 115.0 138.2 240.3 155.6 12.9 2.2 np np 26.0 590. 2004-05 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 0.5 np 6.8 121. 2006-07 September 4.5 8.7 31.3 44.5 64.7 66.4 3.8 1.7 np 4.7 np 190. TASMANIA 2003-04 0.2 1.5 3.0 4.7 2.5 np — — — — np 4.7 np 190. 2004-05 — 3.7 1.6 5.3 2.0 — np — — — np 4.7 np 8. 2005-06 1.1 8.5 5.3 14.9 4.9 0.2 — 1.6 — 1.0 22. 2004-05 December — np													606.0
December 1.9	2005–06												590.2
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 0.5 np 6.8 121. June 2.9 5.8 7 31.3 44.5 64.7 66.4 3.8 1.7 np 4.7 np 190. TASMANIA 2003-04 0.2 1.5 3.0 4.7 2.5 np — — — — np 4.7 np 190. TASMANIA 2004-05 — 3.7 1.6 5.3 2.0 — np — — — np 8. 2004-05 December — np	2004–05												
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 0.5 np 6.8 121. June 2.9 5.8 3.3 44.5 64.7 66.4 3.8 1.7 np 4.7 np 190. **TASMANIA** **TAS		1.9	0.6	38.0	40.5	67.5	35.0	np	0.1	np	5.3	5.0	156.7
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 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. 2006-07 September 4.5 8.7 31.3 44.5 64.7 66.4 3.8 1.7 np 4.7 np 190. **TASMANIA** **TASMANIA**	March	np	np	40.9					_		2.2		134.4
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 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. 2006-07 TASMANIA TASMANIA <	June	1.4		41.1	44.3	64.1	45.1	3.6	0.1	0.3	3.8	5.6	167.0
December 2.2 4.4 33.7 40.3 61.1 41.4 3.6 np np 4.6 6.5 158.	2005–06												
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. 2006-07 September 4.5 8.7 31.3 44.5 64.7 66.4 3.8 1.7 np 4.7 np 190. TASMANIA 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 — — — 1.6 — 1.0 22. 2004-05 December — np np np np np np np np np — — — — 0.4 1. March np — — — —	September	2.3	1.7	36.5	40.5	62.0	35.9	3.1	0.2	0.2	4.0	8.4	154.4
June 2.9 5.8 25.0 33.7 63.5 47.4 3.2 np np np 2.5 4.3 156. 2006-07 September 4.5 8.7 31.3 44.5 64.7 66.4 3.8 1.7 np 4.7 np 190. **TASMANIA** **TASMANIA**		2.2	4.4	33.7	40.3		41.4		np	np	4.6	6.5	158.0
TASMANIA									np	0.5	np	6.8	121.5
September 4.5 8.7 31.3 44.5 64.7 66.4 3.8 1.7 np 4.7 np 190.		2.9	5.8	25.0	33.7	63.5	47.4	3.2	np	np	2.5	4.3	156.3
TASMANIA 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. 2004-05 December — np — — — —		4 5	0.7	21.2	44 5	64.7	66.4	20	1.7	nn	17	nn	100.2
2003-04	September	4.0	0.1	31.3	44.5	04.7	00.4	3.0	1.1	пр	4.1	пр	190.2
2004-05							TASMAN	IA					
2004-05	2003–04	0.2	1.5	3.0	4.7	2.5	np	_	_	_	_	np	7.5
2005-06 1.1 8.5 5.3 14.9 4.9 0.2 — — 1.6 — 1.0 22. 2004-05 December — np np np np np np np np — — — — 0.4 1. March np — — — —	2004–05	_	3.7	1.6	5.3	2.0	_	np	_	_	_		8.3
December — np np np np np np np —	2005–06	1.1	8.5	5.3	14.9	4.9	0.2		_	1.6	_		22.6
March np np np 1.6 np np np - - - - - np 2.2 June - 1.5 np np np np np - - - - - - - 0.2 2.2 2005-06 September np np np - - - - np np 3. December np np np np - np - np - np - np - np np - np - np - np - np - np - np - np - np np - np - np	2004–05												
June — 1.5 np np np np — — — — — — 0.2 2.2 2005-06 September np np np 0.5 — — — — — np np 3. December np np np np — np — np — np — np 3. March np 2.5 np 5.6 1.1 — — — np — np — np — np 6. 2006-07		_	np	np		np	np	_	_	_	_	0.4	1.6
2005-06 September np np np 0.5 — — — — np np 3. December np np np np — np — np — np 3. March np 2.5 np 5.6 1.1 — — np 6. 2006-07 - - - - - - - np - np - np 6.		np	np	np	1.6	np	np	_	_	_	_	np	2.5
September np np np 2.8 0.5 — — — — — np 3. December np np np np — np — np — np 3. March np 2.5 np 5.6 1.1 — — np 6. 2006-07 - - - - - - np - np - np 6.		_	1.5	np	np	np	np	_	_	_	_	0.2	2.9
December np np np 2.8 0.8 np np — np — np 3. March np 2.5 np 5.6 1.1 — — np — np — 0.1 8. June np 2.6 np np np — np — np 6. 2006-07		nn	nn	nn	2.8	0.5	_	_	_	_	_	nn	3.6
March np 2.5 np 5.6 1.1 — — np — 0.1 8. June np 2.6 np 3.7 2.6 np np — np — np 6. 2006–07	•												3.7
June np 2.6 np 3.7 2.6 np np — np — np 6. 2006–07													8.4
2006–07													6.9
September np 2.6 np 5.3 1.0 np np — — 0.3 6.	2006–07							· In					
	September	np	2.6	np	5.3	1.0	np	np	_	_	_	0.3	6.6

 [—] 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	IERN TE	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												
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
2006–07				4 7	0.0			7.0		0.4	0.0	25.0
September	np	np	np	4.7	6.8	np	np	7.0	_	2.1	2.2	25.0
• • • • • • • • • •	• • • • • •	• • • • •	• • • • • •		• • • • • • • • • •	• • • • • •	• • • • • • •	• • • • • • • •	• • • • • •	• • • • • • • •	• • • • • • •	• • • • • • • •
					,	AUSTRAL	-IA					
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
2004-05	71.3	31.2	158.6	261.1	391.7	138.0	27.6	20.7	126.8	23.7	38.7	1 028.3
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
2004-05												
December	18.3	7.9	40.4	66.5	96.8	35.1	5.9	4.6	32.0	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	225.8
June	22.4	8.6	44.1	75.1	103.1	45.7	7.0	6.8	37.6	5.6	9.8	290.7
2005-06												
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
2006–07												
September	52.7	26.3	39.8	118.8	104.3	70.1	7.7	24.7	50.5	8.6	9.9	394.6

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

	ONSHOR	RE		0FFSH0	RE		TOTAL EXPE	NDITURE	
	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									
December	50.6	24.5	75.1	141.7	69.8	211.5	55.4	231.2	286.6
March	30.8	21.7	52.5	139.6	77.1	216.7	34.3	234.9	269.2
June	30.7	38.1	68.8	162.4	47.3	209.7	73.7	204.8	278.5
2005–06									
September	51.8	28.0	79.8	125.7	76.5	202.2	87.2	194.7	282.0
December	67.4	31.2	98.6	123.3	104.6	227.9	174.2	152.2	326.5
March	45.6	36.3	82.0	111.1	80.5	191.6	84.4	189.2	273.6
June	64.5	31.0	95.4	132.1	152.3	284.4	109.3	270.5	379.9
2006–07									
September	64.8	43.0	107.8	240.8	140.0	380.8	131.3	357.3	488.6

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



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								
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
2006-07								
September	np	np	36.2	41.1	289.9	2.4	101.4	488.6

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

⁽a) Refer to Glossary for definition.

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. 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>.

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.
- 25 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 *Census and Statistics Act 1905*.

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 *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.

EXPLANATORY NOTES continued

ABS DATA AVAILABLE
ELECTRONICALLY continued

EFFECTS OF ROUNDING

- **20** Publications showing the details of wells and metres drilled in petroleum exploration are available from the Petroleum Resources Program of Geoscience Australia.
- **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.

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