

**ACTUAL AND EXPECTED PRIVATE MINERAL EXPLORATION, AUSTRALIA
JUNE QUARTER 1994**

MAIN FEATURES

Mineral exploration (other than for petroleum)

Exploration expenditure for the June quarter 1994 totalled \$220.6 million, an increase of 27.3 per cent compared to the June quarter 1993 and an increase of 25.6 per cent compared to the March quarter 1994. Expenditure on production leases for the June quarter 1994 increased 70.7 per cent from the June quarter 1993, and increased 56.2 per cent from the March quarter 1994. Expenditure on all other areas increased 16.1 per cent from June quarter 1993 and increased 17.0 from the March quarter 1994.

Expenditure for most minerals increased in the June quarter 1994 compared to June quarter 1993. The largest absolute increase was \$42.3 million (46.4%) for gold exploration.

Total metres drilled increased in the June quarter 1994 by 19.1 per cent compared to June quarter 1993. Drilling on production leases increased 75.4 per cent and on all other areas 2.3 per cent.

Petroleum exploration

Total expenditure on petroleum exploration in the June quarter 1994 was \$124.2 million, a decrease of 19.7 per cent compared to June quarter 1993, but an increase of 10.2 per cent compared to March quarter 1994.

Expenditure on production leases increased by 53.0 per cent compared to June quarter 1993. Expenditure on all other areas decreased by 26.4 per cent over the same period.

Total onshore exploration expenditure increased by 72.3 per cent compared to June quarter 1993 and total offshore exploration decreased by 38.9 per cent.

**MINERAL EXPLORATION (OTHER THAN FOR PETROLEUM)
EXPENDITURE BY TYPE OF MINERAL SOUGHT BY STATE, 1993-94
(\$ million)**

	<i>Copper, lead, zinc, silver, nickel and cobalt</i>	<i>Gold</i>	<i>Iron ore</i>	<i>Mineral sands</i>	<i>Tin, tungsten, scheelite, wolfram</i>	<i>Uranium</i>	<i>Coal</i>	<i>Con- struction materials</i>	<i>Diamonds</i>	<i>Other</i>	<i>Total</i>
New South Wales	24.8	27.5	n.p.	0.9	n.p.	-	9.4	0.5	1.1	9.3	73.7
Victoria	3.1	16.1	-	n.p.	n.p.	-	-	-	n.p.	1.5	20.7
Queensland	66.9	48.0	n.p.	1.9	0.4	1.6	16.7	0.1	n.p.	4.0	139.9
South Australia	13.5	7.1	0.5	n.p.	0.1	0.4	n.p.	n.p.	1.4	1.6	24.7
Western Australia	63.3	310.2	18.0	5.4	0.4	2.2	1.1	0.2	46.6	6.2	453.7
Tasmania	7.0	1.7	n.p.	n.p.	0.1	-	n.p.	0.4	0.7	0.1	10.1
Northern Territory	12.9	43.3	n.p.	0.3	0.1	3.3	0.3	n.p.	8.9	0.7	69.8
Australia	191.6	453.8	18.7	8.5	1.1	7.6	27.7	1.3	58.7	23.5	792.6

INQUIRIES

- for further information about statistics in this publication and the availability of related unpublished statistics contact Nicole Pikos on Darwin (089) 432 171 or any ABS office
- for information about other ABS statistics and services please contact Information Services on Canberra (06) 252 6007 or any ABS State office.

TABLE 1. PRIVATE EXPLORATION: ACTUAL AND EXPECTED EXPENDITURE

Period	Mineral (other than petroleum)			Petroleum onshore			Petroleum offshore		
	Expenditure		Actual as a percentage of expected	Expenditure		Actual as a percentage of expected	Expenditure		Actual as a percentage of expected
	Actual	Expected (a)		Actual	Expected (a)		Actual	Expected (a)	
	\$m	\$m	per cent	\$m	\$m	per cent	\$m	\$m	per cent
1988-89	697.6	578.8	120.5	233.6	301.1	77.6	405.7	404.9	100.2
1989-90 (b)	607.5	539.1	112.7	143.2	216.1	66.3	439.4	413.8	106.2
1990-91	601.7	452.6	132.9	217.1	165.8	130.9	365.4	326.8	111.8
1991-92	604.0	466.5	129.5	135.3	191.3	70.7	338.8	344.0	98.5
1992-93	631.8	532.8	118.6	115.2	131.1	87.9	496.7	438.5	113.3
1993-94	792.6	553.0	143.3	144.5	100.1	144.4	362.1	459.2	78.9
<i>Six months ended</i>									
June 1993	296.3	275.8	107.4	46.6	60.8	76.6	238.5	206.6	115.4
December 1993	396.4	233.6	169.3	66.1	59.9	110.3	203.6	224.1	90.9
June 1994	396.2	319.4	124.1	78.4	41.3	189.8	158.5	235.1	67.4
December 1994	n.y.a.	349.2	..	n.y.a.	58.8	..	n.y.a.	336.3	..

a) As reported in a previous census. See Explanatory Notes, paragraph 9. (b) See Explanatory Notes, paragraph 4.

TABLE 2. MINERAL EXPLORATION (OTHER THAN FOR PETROLEUM) EXPENDITURE AND METRES DRILLED

Period	Expenditure (\$ million)			Metres drilled ('000 metres)		
	On production leases	On all other areas	Total	On production leases	On all other areas	Total
1988-89	111.9	585.7	697.6	1,812	4,765	6,577
1989-90 (a)	90.3	517.3	607.5	1,598	4,735	6,332
1990-91	115.4	486.3	601.7	1,760	4,452	6,212
1991-92	130.9	473.1	604.0	1,626	4,253	5,877
1992-93	148.4	483.4	631.8	1,944	5,049	6,993
1993-94	184.4	608.1	792.6	2,770	6,810	9,580
<i>1992-93 —</i>						
March quarter	38.5	84.5	123.0	446	822	1,268
June quarter	35.5	137.8	173.3	480	1,606	2,086
<i>1993-94 —</i>						
September quarter	43.6	143.8	187.5	617	1,892	2,509
December quarter	41.4	167.5	208.9	714	1,829	2,544
March quarter	38.8	136.8	175.6	596	1,446	2,042
June quarter	60.6	160.0	220.6	842	1,643	2,485

(a) See Explanatory Notes, paragraph 4.

TABLE 3. MINERAL EXPLORATION (OTHER THAN FOR PETROLEUM): EXPENDITURE BY STATE (\$ million)

Period	NSW	Vic.	Qld	SA	WA	Tas.	NT	Australia
1988-89	50.6	21.7	139.8	16.6	387.2	13.1	68.6	697.6
1989-90 (a)	55.1	21.0	128.4	13.2	315.4	11.8	62.6	607.5
1990-91	60.6	12.7	124.1	15.5	324.8	9.9	53.9	601.7
1991-92	63.3	12.6	109.9	19.7	332.8	7.9	57.8	604.0
1992-93	60.9	12.2	117.9	21.3	348.1	7.8	63.5	631.8
1993-94	73.6	20.7	139.9	24.7	453.7	10.2	69.8	792.6
<i>1992-93 —</i>								
March quarter	9.1	2.8	20.2	3.8	74.2	2.2	10.6	123.0
June quarter	16.1	3.0	30.2	6.1	95.8	2.8	19.3	173.3
<i>1993-94 —</i>								
September quarter	14.4	3.5	33.1	5.6	110.4	1.7	18.9	187.5
December quarter	18.4	4.6	39.6	6.4	119.0	2.0	18.9	208.9
March quarter	15.8	6.3	30.2	6.9	100.9	3.4	12.1	175.6
June quarter	25.0	6.3	37.0	5.8	123.4	3.1	19.9	220.6

(a) See Explanatory Notes, paragraph 4.

TABLE 4. MINERAL EXPLORATION (OTHER THAN FOR PETROLEUM)
EXPENDITURE BY TYPE OF MINERAL SOUGHT BY STATE, JUNE QUARTER 1994
(\$ million)

	<i>Copper, lead, zinc, silver, nickel and cobalt</i>	<i>Gold</i>	<i>Iron ore</i>	<i>Mineral sands</i>	<i>Tin, tungsten, scheelite, wolfram</i>	<i>Uranium</i>	<i>Coal</i>	<i>Con- struction materials</i>	<i>Diamonds</i>	<i>Other</i>	<i>Total</i>
New South Wales	7.2	11.0	n.p.	n.p.	n.p.	-	3.3	n.p.	0.5	2.8	25.0
Victoria	0.8	5.0	-	-	n.p.	-	-	-	n.p.	n.p.	6.3
Queensland	17.4	14.0	n.p.	0.5	n.p.	n.p.	3.8	n.p.	n.p.	0.9	37.0
South Australia	3.1	0.9	n.p.	-	n.p.	n.p.	n.p.	-	0.6	0.6	5.8
Western Australia	15.9	90.2	0.7	1.5	-	n.p.	n.p.	n.p.	12.6	1.7	123.4
Tasmania	2.5	0.2	-	n.p.	n.p.	-	-	n.p.	-	n.p.	3.1
Northern Territory	3.7	12.1	n.p.	-	n.p.	0.6	-	n.p.	3.2	0.3	19.9
Australia	50.6	133.4	1.2	2.2	0.2	1.4	7.4	0.4	16.9	6.8	220.6

TABLE 5. MINERAL EXPLORATION (OTHER THAN FOR PETROLEUM)
EXPENDITURE BY TYPE OF MINERAL SOUGHT, AUSTRALIA
(\$ million)

<i>Period</i>	<i>Copper, lead, zinc, silver, nickel and cobalt</i>	<i>Gold</i>	<i>Iron ore</i>	<i>Mineral sands</i>	<i>Tin, tungsten, scheelite, wolfram</i>	<i>Uranium</i>	<i>Coal</i>	<i>Con- struction materials</i>	<i>Diamonds</i>	<i>Other</i>	<i>Total</i>
1988-89	100.4	448.5	7.0	16.5	1.4	28.3	29.0	1.1	32.6	32.7	697.6
1989-90 (a)	118.0	341.3	11.3	19.3	2.8	18.8	33.4	2.8	37.2	22.8	607.5
1990-91	171.8	300.8	11.2	19.2	2.4	12.8	23.1	2.7	39.0	18.5	601.7
1991-92	144.9	304.7	36.9	13.9	1.7	12.8	27.5	1.6	35.7	24.3	604.0
1992-93	183.4	320.1	24.0	9.8	0.5	8.8	24.2	1.1	38.1	21.9	631.8
1993-94	191.6	453.7	18.8	8.5	1.1	7.6	27.7	1.3	58.7	23.5	792.6
<i>1992-93 —</i>											
March quarter	32.5	69.7	2.8	2.7	—	1.3	3.8	0.3	5.8	4.2	123.0
June quarter	49.4	91.1	4.5	2.6	0.1	1.9	6.2	0.1	11.7	5.7	173.3
<i>1993-94 —</i>											
September quarter	48.0	100.1	6.1	2.4	0.1	2.6	6.4	0.3	15.8	5.7	187.5
December quarter	52.7	111.6	9.0	2.4	0.1	2.2	7.0	0.2	16.7	7.0	208.9
March quarter	40.2	108.8	2.5	1.5	0.7	1.4	6.8	0.3	9.3	4.1	175.6
June quarter	50.6	133.4	1.2	2.2	0.2	1.4	7.4	0.4	16.9	6.8	220.6

(a) See Explanatory Notes, paragraph 4.

TABLE 6. PETROLEUM EXPLORATION EXPENDITURE
(\$ million)

<i>Period</i>	<i>Onshore</i>						<i>Offshore</i>			<i>Total expenditure</i>	
	<i>Drilling</i>		<i>Other</i>	<i>Total</i>	<i>Drilling</i>		<i>Other</i>	<i>Total</i>	<i>On production leases</i>	<i>On all other areas</i>	<i>Total</i>
	<i>Drilling</i>	<i>Other</i>			<i>Drilling</i>	<i>Other</i>					
1988-89	136.1	97.5	233.6	299.4	106.2	405.7	130.1	509.2	639.3		
1989-90	73.8	69.5	143.2	349.8	89.6	439.4	65.5	517.2	582.6		
1990-91	128.8	88.3	217.1	257.1	108.4	365.4	131.2	451.4	582.6		
1991-92	60.5	75.0	135.3	142.2	196.4	338.8	70.4	403.6	473.9		
1992-93	62.8	52.4	115.2	283.7	213.1	496.7	69.1	542.9	611.9		
1993-94	84.4	60.0	144.5	208.0	154.2	362.2	70.1	436.5	506.7		
<i>1992-93 —</i>											
March quarter	11.7	8.2	19.9	58.6	52.0	110.6	13.0	117.4	130.4		
June quarter	14.0	12.7	26.7	91.0	36.9	127.9	13.2	141.5	154.7		
<i>1993-94 —</i>											
September quarter	23.5	11.2	34.8	68.3	35.5	103.7	15.7	122.8	138.5		
December quarter	17.1	14.2	31.3	58.5	41.4	99.9	19.3	111.9	131.2		
March quarter	14.5	17.9	32.4	40.0	40.4	80.3	15.0	97.7	112.7		
June quarter	29.3	16.7	46.0	41.2	37.0	78.2	20.2	104.1	124.2		

EXPLANATORY NOTES

Introduction

This publication contains annual and quarterly statistics of private sector exploration for minerals (other than oil shale) in Australia.

Source

2. Data are collected and compiled from the exploration censuses conducted by the Australian Bureau of Statistics (ABS).

Scope and Coverage

3. All exploration activity is included, regardless of the main activity of the explorer. Details of exploration are collected from all private enterprises known to be engaged in exploration.

4. From September quarter 1989, details of mineral explorers reporting less than \$5,000 per quarter have been excluded from the Tables, resulting in a small break in the series from 1989-90. Data linking the two collection methodologies for Tables 2, 3 and 5 are contained in the September quarter 1990 issue.

Classification

5. The following categories are used:

- (a) *Production lease/Other*, where a production lease is an area on which production or development is actually taking place.
- (b) *Onshore/Offshore*, where offshore includes all operations in a marine area under the *Petroleum (Submerged Lands) Act 1967* or under any Acts administered by State governments.
- (c) *Drilling/Other*, where *drilling expenditure* includes cost of access (roads, vessel hire, etc.) to the drilling site and site preparation etc., and *other expenditure* includes costs of surveys, report writing, map preparation and all other activities attributable to exploration.

Definitions

6. *Minerals*. In the broad sense these comprise metallic minerals, construction materials, gemstones, other non-metallic minerals and petroleum (oil or gas).

7. *Exploration*. This includes the search for new ore occurrences or undiscovered oil or gas, and/or appraisal intended to delineate or greatly extend the limits of known deposits of minerals or oil or gas reservoirs by geological, geophysical, geochemical, drilling or other methods. This includes construction of shafts and adits primarily for exploration purposes but excludes activity of a developmental or production nature. Exploration for water is excluded.

8. *Exploration expenditure*. This covers all expenditure on exploration activity in Australia. It includes expenditure on aerial surveys (including landsat photographs), general surveys, report writing, map preparation and other activities indirectly attributable to exploration. Cash bids for offshore petroleum exploration permits are also included.

9. *Expected expenditure*. This refers to expected expenditure on exploration as reported by private enterprise explorers who were included in the previous census.

Events such as new discoveries, unexpected weather conditions, government policy changes and unforeseen changes in economic conditions may cause actual expenditures to differ from those previously expected. The differences between actual and expected expenditure can be seen in Table 1.

Related publications

10. Current publications produced by the ABS are listed in the *Catalogue of Publications and Products, Australia* (1101.0). The ABS also issues on Tuesdays and Fridays, a *Publications Advice* (1105.0) which lists publications to be released in the next few days. The Catalogue and Publications Advice are available from any ABS office.

11. Publications showing details of wells and metres drilled in petroleum exploration are available from the Petroleum Resource Assessment Branch of the Bureau of Resource Sciences (formerly the BMR).

Symbols and other usages

n.y.a.	not yet available
n.p.	not available for separate publication but included in totals
n.a.	not available
..	not applicable
—	nil or rounded to zero
r	figures revised since previous issue

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

13. Percentage changes shown in this publication have been calculated on actual figures as reported by explorers.

Electronic services

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