

# ACTUAL AND EXPECTED PRIVATE MINERAL EXPLORATION AUSTRALIA

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 For further information about these and related statistics, contact Sandra Lowry on Darwin 08 8943 2171, or any ABS office shown on the back cover of this publication.

# NOTES

FORTHCOMING ISSUES	ISSUE (Quarter)	RELEASE DATE	
	March 1999	21 June 1999	
	June 1999	20 September 1999	
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CHANGES IN THIS ISSUE This issue contains some revisions to the September quarter 1998 data.			
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W. McLennan Australian Statistician

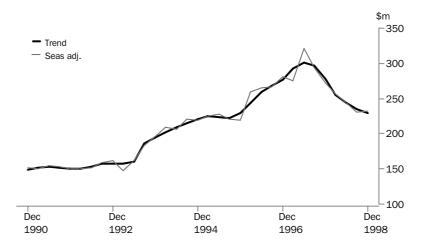
### MINERAL EXPLORATION EXPENDITURE (OTHER THAN FOR PETROLEUM)

### TREND ESTIMATES

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The trend estimate for mineral exploration expenditure has declined for the sixth consecutive quarter in the December quarter 1998.

Between the September and December quarters of 1998 the trend estimate fell \$5m to \$229m.



STATES AND TERRITORIES	With the exception of New South Wales, the trend estimate of expenditure declined in all States and the Northern Territory in the December quarter 1998.
	The trend estimate for New South Wales rose by 5% to \$17m however this was 33% (\$8m) lower than the estimate for the December quarter 1997.
METRES DRILLED	The trend estimate for total metres drilled in the December quarter 1998 was marginally lower than for the September quarter 1998 (a fall of less than 1%) and 19% lower than for the December quarter 1997. This decline is consistent with the fall in trend estimate for total expenditure.

### DECEMBER QUARTER

In seasonally adjusted terms, total mineral exploration expenditure rose by 2% (\$4m) to \$233m in the December quarter 1998.

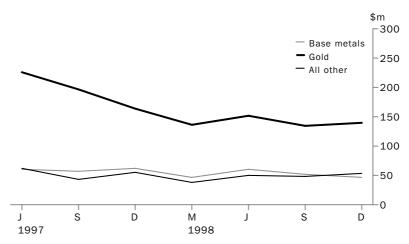
In original terms, mineral exploration expenditure reported for the December quarter 1998 was up 2% (\$4m) to \$240m. This was 15% (\$42m) lower than for the corresponding December quarter of 1997.

Exploration expenditure on production leases rose by 17% (\$9m) while exploration expenditure on all other areas fell 2% (\$5m) in the December quarter 1998.

Gold continued to be the predominant mineral sought, representing 58% (\$140m) of the total mineral exploration expenditure reported for the December quarter 1998. However, the total expenditure on gold exploration was 15% lower than the corresponding December quarter 1997.

Exploration expenditure for copper, silver-lead-zinc, nickel and cobalt decreased by 11%, from \$52m in the September quarter 1998 to \$46m in the December quarter 1998.

MINERAL EXPLORATION EXPENDITURE, Original Series



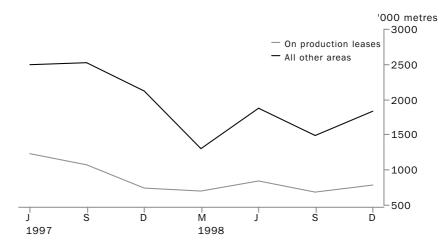
### METRES DRILLED

The seasonally adjusted estimate of 2.5 million metres drilled for the December quarter 1998 was 24% higher than the estimate for the September quarter 1998 and 9% less than for the December quarter 1997.

In original terms, 2.6 million metres were drilled for the December quarter 1998. This was 20% higher than the September quarter 1998 and 9% lower than the December quarter 1997.

The number of metres drilled increased on both production leases and all other areas, up 14% and 23% respectively from the September quarter 1998. However, compared to the corresponding December quarter 1997, the number of metres drilled on all other areas has fallen 14%.





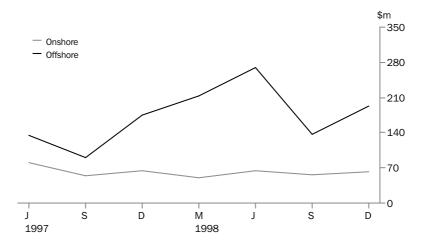
### PETROLEUM EXPLORATION EXPENDITURE

OVERVIEW

Expenditure on petroleum exploration was \$255m in the December quarter 1998, 32% higher than for the September quarter 1998. December quarter's expenditure was 7% higher than for the corresponding December quarter 1997.

All quarters of 1998 have shown increased expenditure from the corresponding quarters of 1997, with the total of the four quarters of 1998 showing an increase of 35% from the 1997 calendar year. Expenditure increased for exploration on production leases (up 44%) and all other areas (up 30%) between the September and December quarters 1998.

Offshore exploration expenditure increased by 41% (\$56m) between the September and December quarters 1998, to \$193m. This was 11% (\$18m) higher than the December quarter 1997. Expenditure on offshore drilling increased 51% (\$41m) to \$123m between the September and December quarters 1998.



### **REGIONAL DATA**

Regional data for petroleum exploration are available only for Queensland, Western Australia and Northern Territory and Ashmore Cartier Islands for the December quarter 1998. The most significant rise, in percentage terms, occurred in Western Australia, a rise of 63% (\$58m) followed by Queensland up 11% (\$2m).



### PRIVATE EXPLORATION, Actual and Expected Expenditure

### MINERAL EXPLORATION ... PETROLEUM ONSHORE .... PETROLEUM OFFSHORE .....

	Actual	Expected(a)	Actual as a proportion of expected	Actual	Expected(a)	Actual as a proportion of expected	Actual	Expected(a)	Actual as a proportion of expected
Period	\$m	\$m	%	\$m	\$m	%	\$m	\$m	%
•••••	• • • • • • •	•••••	•••••	•••••	• • • • • • • • •	•••••	••••	• • • • • • • •	•••••
1995-96	960.3	773.6	124.1	174.8	185.6	94.2	550.4	428.0	128.6
1996-97	1 148.6	808.9	142.0	251.9	206.2	122.2	601.0	446.6	134.6
1997-98	1 066.8	901.3	118.4	232.3	145.0	160.2	748.9	773.7	96.8
6 months ended December 1997	583.8	513.7	113.6	117.3	83.3	140.7	265.4	345.8	76.8
6 months ended June 1998	483.1	387.6	124.6	115.0	61.7	186.6	483.5	427.9	113.0
6 months ended December 1998	475.2	299.5	158.7	117.5	71.6	164.2	330.7	246.5	134.1
6 months ended June 1999	n.y.a.	303.4	n.y.a.	n.y.a.	72.6	n.y.a.	n.y.a.	293.6	n.y.a.
	n.y.a. not	yet available				s reported in prev agraph 13.	ious collectio	ns. Refer to E	xplanatory Note



# MINERAL EXPLORATION (Other than for Petroleum), Expenditure and Metres Drilled

EXPENDITURE..... METRES DRILLED..... On On all On On all production other Seasonally Trend production other Seasonally Trend leases areas Total adjusted estimate leases areas Total adjusted estimate Period \$m '000 m '000 m '000 m '000 m '000 m \$m \$m \$m \$m . 1995-96 208.8 751.5 960.3 3 520 6 995 10 514 . . . . . . . . 1996-97 306.1 842.4 1 148.6 4 4 5 3 8 378 • • . . 12 831 . . • • 1997-98 253.2 813.6 1 066.8 3 365 7 843 11 209 . . . . . . . . 1997 March 57.6 178.0 235.6 275.7 292.4 1 021 1 746 2 768 3 370 3 340 June 107.4 239.7 347.2 301.8 1 232 2 497 3 729 3 592 3 456 321.4 September 83.3 218.5 301.8 294.6 296.4 1 072 2 524 3 596 3 302 3 237 December 64.6 217.4 282.0 272.1 277.7 751 2 127 2 878 2 739 2 867 1998 220.4 March 52.0 168.4 256.8 255.6 699 1 308 2 007 2 445 2 537 June 53.3 209.3 262.6 243.4 242.8 843 1 885 2 728 2 6 1 9 2 380 September 184.3 235.9 233.9 1 494 2 183 2 317 51.5 229.2 690 2 006 2 496 December 60.0 179.7 239.6 229.0 786 1 833 2 619 2 309 232.7 



# MINERAL EXPLORATION (other than for Petroleum), Expenditure by State and Territory

	New South			South	Western		Northern	
	Wales	Victoria	Queensland	Australia	Australia	Tasmania	Territory	Australia
Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
•••••	• • • • • • • •		•••••		• • • • • • • • •	• • • • • • • • • •	• • • • • • • • •	• • • • • • • • • •
				ORIGINAL				
1995-96	80.4	42.6	181.0	24.1	519.5	18.8	93.8	960.3
1996-97	94.1	51.8	160.7	35.1	691.7	26.0	88.9	1 148.6
1997-98	88.2	43.1	133.2	45.0	660.4	20.7	75.9	1 066.8
1997								
March	22.0	9.6	31.6	7.2	144.2	6.0	14.8	235.6
June	30.4	13.2	45.7	14.5	211.6	10.1	21.6	347.2
September	23.3	9.5	41.9	12.5	182.7	9.7	22.1	301.8
December	26.1	13.4	41.7	11.4	162.3	3.8	23.4	282.0
1998								
March	20.8	10.6	21.5	9.2	142.0	3.7	12.6	220.4
June	18.0	9.6	28.2	12.0	173.4	3.5	17.8	262.6
September	14.2	9.0	r 22.2	r12.6	r154.0	2.4	21.2	235.9
December	18.4	11.0	25.0	8.9	157.3	3.0	16.0	239.6
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			SEASO	NALLY ADJU	STED			
1997								
March	23.7	10.1	41.4	8.8	164.5	5.9	21.3	275.7
June	26.6	13.2	42.6	12.4	197.9	9.0	19.6	321.4
September	23.9	10.1	41.0	13.2	176.0	11.0	19.5	294.6
December	27.3	12.0	36.5	10.6	159.9	3.8	21.9	272.1
1998								
March	22.4	11.3	28.3	11.2	161.6	3.8	18.2	256.8
June	15.7	9.6	26.2	10.3	162.2	3.1	16.2	243.4
September	14.6	9.6	21.8	13.3	148.4	2.7	18.7	229.2
December	19.4	9.8	22.0	8.4	155.2	3.0	15.0	232.7
•••••	••••	••••	• • • • • • • • • • •		• • • • • • • • • •	•••••	•••••	•••••
1997				TREND				
March	23.8	11.9	40.5	9.6	178.1	7.2	21.3	292.4
June	25.3	11.2	42.4	11.7	182.3	8.7	20.2	301.8
September	26.2	11.5	40.4	12.3	177.4	8.3	20.2	296.4
December	25.1	11.4	35.7	11.5	167.9	6.1	19.8	277.7
1998								
March	21.4	10.8	30.0	11.1	159.6	3.7	18.9	255.6
June	17.8	10.3	25.4	11.2	157.5	2.9	17.6	242.8
September	16.1	9.7	22.7	11.0	154.7	2.9	16.7	233.9
December	16.9	9.5	21.5	10.2	151.7	2.8	16.3	229.0
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# MINERAL EXPLORATION (other than for Petroleum), Expenditure by Mineral Sought

	Copper, silver-lead- zinc, nickel and cobalt	Gold	lron ore	Mineral sands	Tin, tungsten, scheelite and wolfram	Uranium	Coal	Construction materials	Diamonds	Other	Total
	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
•••••		• • • • • • • •	• • • • • • •		•••••		• • • • • • •		• • • • • • • •	• • • • • • •	• • • • • • • •
				DECEN	IBER QUART	ER 1998					
New South Wales	5.5	6.5	_	1.0	_	_	4.8	_	_	0.7	18.4
Victoria	n.p.	6.7	n.p.	1.8	_	_	_	_	n.p.	n.p.	11.0
Queensland	7.9	10.1	_	_	—	n.p.	4.7	n.p.	—	1.8	25.0
South Australia	4.0	4.1	n.p.	—	—	0.2	_	—	n.p.	0.6	8.9
Western Australia	24.2	102.0	13.3	2.9	—	n.p.	—	n.p.	12.4	1.2	157.3
Tasmania	n.p.	1.0	—	—	—	—	_	_	—	n.p.	3.0
Northern Territory	1.8	9.4	n.p.	—	—	1.9	—	—	2.5	n.p.	16.0
Australia	46.4	139.8	13.7	5.8	_	3.6	9.4	0.2	15.3	5.5	239.6
• • • • • • • • • • • • • •	• • • • • • • • • •	•••••	•••••	• • • • • • • •	AUSTRALIA	•••••	•••••	• • • • • • • • • •	•••••	• • • • • • •	•••••
					AUSTRALIA	L .					
1995–96	251.8	547.1	14.1	9.3	0.5	7.4	52.7	0.7	52.9	24.0	960.3
1996–97	206.8	728.3	25.8	13.9	0.6	13.0	70.5	0.9	59.3	29.4	1 148.6
1997–98	227.1	648.4	30.0	14.0	0.1	22.2	64.8	0.4	42.8	13.1	1 066.8
March 1997	41.8	150.1	6.6	3.4	_	2.2	15.7	0.1	11.7	4.0	235.6
June 1997	59.7	225.9	9.3	3.5	0.4	5.1	22.5	0.2	15.6	5.0	347.2
September 1997	57.6	196.7	4.0	3.2	_	4.9	19.1	n.p.	12.4	n.p.	301.8
December 1997	62.7	163.9	6.3	2.9	0.1	6.2	21.3	0.3	13.1	5.3	282.0
March 1998	45.9	136.1	7.1	3.5	n.p.	5.1	12.5	n.p.	7.4	2.8	220.4
June 1998	60.9	151.7	12.6	4.5	n.p.	6.0	11.9	n.p.	9.9	5.1	262.6
September 1998	52.0	r134.3	r12.6	3.6	n.p.	7.4	9.6	n.p.	13.1	3.0	235.9
December 1998	46.4	139.8	13.7	5.8	_	3.6	9.4	0.2	15.3	5.5	239.6
	n.p. not pub	lished									
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### PETROLEUM EXPLORATION EXPENDITURE

	ONSHORE			OFFSHO	OFFSHORE			TOTAL EXPENDITURE		
	Drilling	Other	Total	Drilling	Other	Total	On production leases	On all other leases	Total	
Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	
• • • • • • • • • • •	• • • • • • • •	•••••	• • • • • • • • •	• • • • • • • • • •	• • • • • • • •	• • • • • • • • • •	•••••	• • • • • • •		
1995-96	95.5	79.4	174.8	367.1	183.2	550.4	78.8	646.5	725.1	
1996-97	179.6	72.3	251.9	412.0	189.1	601.0	137.7	715.3	853.0	
1997-98	174.1	58.2	232.3	501.2	247.6	748.9	68.8	912.4	981.2	
1997										
March	22.3	8.4	30.7	96.3	50.2	146.5	17.2	160.1	177.3	
June	54.5	25.2	79.7	74.2	61.2	135.4	31.1	184.0	215.1	
September	38.4	15.2	53.6	64.3	26.2	90.6	10.8	133.4	144.2	
December	48.0	15.6	63.6	90.1	84.8	174.9	8.2	230.3	238.5	
1998										
March	38.4	11.9	50.3	139.4	74.6	214.0	22.5	241.8	264.3	
June	49.2	15.5	64.8	207.5	62.0	269.5	27.3	306.9	334.2	
September	34.3	21.7	56.0	81.6	55.7	137.3	24.3	169.0	193.3	
December	44.7	16.9	61.6	123.0	70.4	193.3	35.1	219.8	254.9	

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### ABS $\cdot$ private mineral exploration $\cdot$ 8412.0 $\cdot$ december quarter 1998 11



### PETROLEUM EXPLORATION, By Region

	New South Wales	Victoria	Queensland	South Australia	Western Australia(a)	Tasmania	Northern Territory/ Ashmore and Cartier Islands	Zone of Cooperation Area A(b)	Total
Period	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m	\$m
1995-96	n.p.	n.p.	106.5	55.1	319.1	n.p.	96.2	89.3	725.1
1996-97	n.p.	45.8	134.5	n.p.	444.1	n.p.	41.5	n.p.	853.0
1997-98	n.p.	34.5	107.1	n.p.	464.0	n.p.	n.p.	n.p.	981.2
1997									
March	n.p.	n.p.	12.5	n.p.	78.5	_	n.p.	30.1	177.3
June	n.p.	6.7	45.0	n.p.	101.5	n.p.	15.8	35.0	215.1
September	n.p.	6.0	46.4	n.p.	46.8	n.p.	7.4	n.p.	144.2
December	n.p.	8.3	29.0	n.p.	106.9	n.p.	28.0	45.7	238.5
1998									
March	0.1	10.4	11.9	n.p.	165.0	n.p.	n.p.	n.p.	264.3
June	n.p.	9.9	19.8	n.p.	145.2	n.p.	n.p.	n.p.	334.2
September	n.p.	4.0	17.2	n.p.	90.9	n.p.	n.p.	n.p.	193.3
December	n.p.	n.p.	19.1	n.p.	148.5	n.p.	36.7	n.p.	254.9
		s expenditure on ion Area B.	Western Australian	leases in the 2			ry Notes paragraph 1 ero, including null cell		

n.p. not available for publication

nil or rounded to zero, including null cells

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### EXPLANATORY NOTES

INTRODUCTION	<b>1</b> This publication contains annual and quarterly statistics of private sector exploration for minerals (other than oil shale) and petroleum in Australia.
SOURCE	<b>2</b> Data are collected and compiled from exploration censuses conducted by the Australian Bureau of Statistics (ABS).
SCOPE AND COVERAGE	<b>3</b> 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, in Australia (including Australian waters) and incurring expenditure of more than \$20,000 per year.
SEASONAL ADJUSTMENT	<b>4</b> 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.
	<b>5</b> Seasonal adjustment does not remove from the series the effect of irregular or non-seasonal influences. Particular care should be taken in interpreting quarterly movements in the adjusted figures in this publication.
	<b>6</b> Irregular influences that are highly volatile can make it difficult to interpret the series even after adjustment for seasonal variation.
	<b>7</b> Seasonal factors are reviewed and revised annually to take account of each additional year's original data. The nature of the seasonal adjustment process is such that the magnitude of some revisions resulting from the re-analysis may be quite significant, especially for data for more recent quarters. For this reason, additional care should be exercised when interpreting movements in seasonally adjusted data for recent quarters.
TREND ESTIMATES	<b>8</b> The trend estimates are derived by applying a 7-term Henderson moving average to the seasonally adjusted series. The 7-term Henderson average (like all Henderson averages) 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. For further information, see <i>Information Paper: A Guide to Interpreting Time Series</i> — <i>Monitoring Trends, an Overview</i> (Cat. no. 1348.0) or contact the Assistant Director, Time Series Analysis on Canberra (02) 6252 6345.
CLASSIFICATIONS	<ul> <li>9 The following categories are used:</li> <li>Production lease/Other, where a production lease is an area on which production or development is actually taking place.</li> <li>Onshore/Offshore, where offshore includes all operations in a marine area under the <i>Petroleum (Submerged Lands) Act 1967</i> or under any Acts administered by State and Territory Governments.</li> <li>Drilling/Other, where <i>drilling expenditure</i> includes cost of access (roads, vessel hire, etc.) to the drilling site and site preparation etc., and <i>other expenditure</i> includes costs of surveys, report writing, map preparation and all other activities attributable to exploration.</li> </ul>

### EXPLANATORY NOTES

DEFINITIONS

MINERALS	<b>10</b> In the broad sense these comprise metallic minerals, construction materials, gemstones, other non-metallic minerals and petroleum (oil or gas).
EXPLORATION	<b>11</b> 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.
EXPLORATION EXPENDITURE	<b>12</b> 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.
EXPECTED EXPENDITURE	<b>13</b> 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.
ZONE OF COOPERATION (ZOC)	<b>14</b> Is an agreement between Australia and the Republic of Indonesia on an area between the Indonesian Province of East Timor and Northern Australia. The ZOC is divided into three areas: A, B and C. Area A is controlled by a joint authority and all petroleum operations in this area are carried out through production sharing contracts. Area B is controlled by Australian authorities but the Republic of Indonesia must be notified of any changes to tenements in the area and be paid 10% of gross Resource Rent Tax collected by Australia from corporations producing petroleum. Area C is controlled by the Republic of Indonesia but Australia must be notified of any changes to tenements in the area and be paid 10% of Contractors Income Tax collected by the Republic of Indonesia from corporations producing petroleum.
ASHMORE AND CARTIER ISLANDS	<b>15</b> 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 Northern Territory data.

### EXPLANATORY NOTES

RELATED PUBLICATIONS	<b>16</b> Users may also wish to refer to the following priced publications which are available on request:						
	Australian Business Expectations (Cat. no. 5250.0)						
	<ul> <li>Australian Mining Industry (Cat. no. 8414.0)</li> </ul>						
	<ul> <li>Private New Capital Expenditure and Expected Expenditure, Australia (Cat. no. 5625.0)</li> </ul>						
	<b>17</b> Current publications produced by the ABS are listed in the <i>Catalogue of</i>						
	<i>Publications and Products</i> (Cat. no. 1101.0). The ABS also issues, on Tuesdays and Fridays, a <i>Release Advice</i> (Cat. no. 1105.0) which lists publications to be released in the next few days. The Catalogue and Release Advice are available from any ABS office.						
	<b>18</b> Publications showing the details of wells and metres drilled in petroleum exploration are available from the Petroleum Resources Program of the Australian Geological Survey Organisation.						
EFFECTS OF ROUNDING	<b>19</b> Where figures have been rounded, discrepancies may occur between the sums of the component items and their totals.						
SYMBOLS AND OTHER USAGES	n.a. not available						
	n.p. not available for publication but included in totals where applicable						
	n.y.a. not yet available						
	r figure or series revised since previous issue						
	not applicable						
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