

Resources production statistics for period ended 31 December 1999

REPORT BOOK 2000/00022

Sue Watson
Deputy Mining Registrar
Mineral Registration Branch

MAY 2000



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AND RESOURCES SA**

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**PRIMARY INDUSTRIES AND RESOURCES
SOUTH AUSTRALIA**

REPORT BOOK 2000/00022

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**PRIMARY INDUSTRIES AND RESOURCES
SOUTH AUSTRALIA**

REPORT BOOK 2000/00022

DME 80/0406

RESOURCES PRODUCTION STATISTICS FOR THE SIX MONTHLY PERIOD ENDED 31 DECEMBER 1999

Sue Watson
Deputy Mining Registrar
Mineral Registration Branch

INTRODUCTION

This report presents a detailed statistical record of the State's output and sales values for petroleum, minerals and materials during the six monthly period ended 31 December 1999.

The first part of the report details the production sales figures for the latest six monthly period and compares them with the previous period. Aggregate resources production for the 12 monthly period ended 31 December 1999 is listed by commodity on page 10. The Appendices in the second part of the report contain the State's quarry production figures for the latest six monthly period in categories considered most useful to the industry.

Individual product values are not included in the tables on page 6 (B) Dolomite/Limestone and page 7 (C) Quartzite/Sandstone because value data for the products have not been provided in sufficient detail by some producers.

Please note that these latest six monthly figures may be subject to amendment due to late submissions and any necessary adjustments.

Any amendments will be included in the next issue of Resources Production Statistics. For the record, no adjustments were necessary to the figures recorded in Report Book 1999 Resources Production Statistics for the six monthly period ended 30 June 1999.

Table 1 Mineral Products

	6 Months Period Ended June 1999		6 Months Period Ended December 1999	
Mineral Products - Refined	Quantity (t)	Value (\$)	Quantity (t)	Value (\$)
Copper	48 745	104 546 541	88 473	226 259 768
Gold (kg)	594	8 429 212	395	5 359 710
Silver (kg)	4 326	1 133 957	3 371	857 184
Uranium Oxide	1 004	46 910 509	2 179	95 573 968
Mineral Ores and Concentrates				
Iron Ore *	1 356 412	12 207 699	1 385 034	12 465 306
Lead Ore	0	0	0	0
Zinc Ore	1 877	1 392 993	3 107 410	2 534 439
Coal				
Black Coal	1 283 003	21 195 210	1 387 223	21 668 423
TOTAL		\$195 816 121		\$364 718 798

* Iron ore figures include production and value of iron-ore, pellets and fines.

Table 2 Petroleum Products

	6 Month Period Ended June 1999		6 Month Period Ended December 1999	
	Quantity	Value (\$)	Quantity	Value (\$)
Natural Gas (Gm ³)	1.835	195 270 884	2.116	207 453 109
Caroline CO ₂ #1 Well (t)	13 170	1 962 333	13 169	1 962 221
Ethane (t)	9 430	1 202 184	13 149	1 692 262
Port Bonython Condensate (kL)	190 244	29 914 072	202 417	47 544 240
Crude Oil (kL)	249 457	36 231 193	198 381	45 800 833
LPG (t)	171 602	39 983 229	167 883	65 941 269
TOTAL		\$304 563 895		\$370 393 934

Table 3 *Industrial Minerals*

Mineral Product	6 Months Period Ending June 1999		6 Months Period Ending December 1999	
	Quantity (t)	Value (\$)	Quantity (t)	Value (\$)
Barite	5 895	311 996	8 466	362 388
Cement Shale	4 005	32 040	5 559	44 472
Dolomite	469 570	4 753 292	437 459	4 568 070
Feldspar	887	28 620	911	36 443
Foundry Sand	27 558	588 827	22 344	655 639
Gypsum	912 318	3 020 511	871 229	2 028 172
Jade (kg)	37	184	720	3 600
Kaolin	1 239	124 482	1 523	155 014
Limesand	24 982	261 385	5 476	56 487
Limestone				
Agricultural	35 557	477 573	8 147	142 789
Cement	814 502	6 384 342	871 303	6 860 861
Chemical	300 419	5 756 000	329 859	6 320 798
Fines	1 377	41 310	189	5 690
Whiting	0	0	1 633	81 660
Magnesite	573	20 792	336	8 506
Mica (Damourite)	540	71 432	476	61 394
Micaceous Hematite	80	32 000	0	0
Peat	2 670	109 470	0	0
Phosphate	700	2 000	550	1 650
Salt	277 186	2 367 788	290 108	2 420 412
Semi-Precious and Ornamental Stones (kg)	10	20	8	15
Silica	63 458	1 567 592	60 114	1 451 856
Sillimanite	17	1 158	257	8 417
Talc	5 722	521 351	4 568	348 178
TOTAL	2 949 302	\$26 474 165	2 921 235	\$25 622 511

Table 4 *Opal Production*

	6 Months Period Ending June 1999	6 Months Period Ending December 1999
Opal (estimated value)	18 270 640	19 351 300
TOTAL	\$18 270 640	\$19 351 300

Table 5 Construction Materials**A. Dimension Stone (Building Stone, etc)**

Mineral Product	6 Months Period Ending June 1999		6 Months Period Ending December 1999	
	Quantity (t)	Value (\$)	Quantity (t)	Value (\$)
Basalt	0	0	0	0
Bluestone	691	103 283	938	128 067
Dolomite/Limestone*	6 069	212 657	7 683	228 235
Granite	8 183	762 459	15 699	848 934
Marble	0	0		
Quartzite/Sandstone*	1 133	53 470	2 592	84 542
Slate	3 129	949 828	2 498	862 744
TOTAL	19 205	\$2 081 697	29 410	\$2 152 522

* Please note that Dolomite/Limestone and Quartzite/Sandstone unit values may appear to be inconsistent across periods. This is due to varying quantities of high and low grade dimension stone being produced in any one period.

B. Dolomite/Limestone

Mineral Product	6 Months Period Ending June 1999		6 Months Period Ending December 1999	
	Quantity (t)	Value (\$)	Quantity (t)	Value (\$)
Crushed Rock	284 232		240 428	
Decorative Stone	461		384	
Filling	159 996		171 729	
Gravels	0			
Rail Ballast	16 288		47 531	
Rip Rap and Spalls	15 728		18 100	
Rubble	1 933 372		1 826 716	
Screenings	770 598		705 549	
Specification Sand	183 798		219 156	
Washed Sand	0		92	
TOTAL	3 364 473	\$24 777 846	3 229 685	\$23 437 738

C. Quartzite/Sandstone

	6 Months Period Ending June 1999		6 Months Period Ending December 1999	
Mineral Product	Quantity (t)	Value (\$)	Quantity (t)	Value (\$)
Crushed Rock	98 452		126 254	
Decorative Stone	397		438	
Filling	107 367		211 983	
Rail Ballast	14 645		47 958	
Rip Rap and Spalls	11 751		100 398	
Rubble	600 106		523 054	
Screenings	169 412		136 961	
Specification Sand	120 603		107 711	
Washed Sand	13 928		2 098	
TOTAL	1 136 661	\$9 276 773	1 256 855	\$9 268 025

D. Other Rock Types

	6 Months Period Ended June 1999		6 Months Period Ending December 1999	
Mineral Product	Quantity (t)	Value (\$)	Quantity (t)	Value (\$)
Basalt	122 628	1 527 217	100 526	1 260 304
Clay	105 550	211 000	147 150	358 000
Epidote	104	2 600	10	250
Feldspar	0	0		
Granite	130 837	1 422 557	106 979	1 068 357
Gravel	48 619	112 875	140 631	809 405
Gypsum	0	0		
Ironstone	78 840	165 093	45 862	89 265
Marble	2 250	19 665	8 380	67 650
River Gravel	36 156	152 454	440	6 060
Shale	20 927	146 585	45 548	120 120
Slate	17	100	5	1 250
TOTAL	545 928	\$3 760 146	595 531	\$3 780 661

**Construction Materials
(Tables A–D)**

TOTAL	5 066 267	\$39 896 462	5 111 481	\$38 638 946
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Table 6 *Natural Sand Products*

	6 Months Period Ending June 1999		6 Months Period Ending December 1999	
	Quantity (t)	Value (\$)	Quantity (t)	Value (\$)
Mineral Product				
Bitumen Sand	6 204	48 471	5 116	40 928
Bricklaying Sand	52 975	516 839	71 123	915 691
Concrete Sand	689 083	5 566 301	729 683	6 388 667
Filter Sand	3 970	50 816	5 465	68 312
Garden Sand or Loam	80 241	402 496	88 560	576 312
Gravel	20 077	146 876	15 193	153 557
Packing/Filling Sand	359 969	2 027 853	417 741	1 996 250
Plastering Sand	7 105	168 752	31 792	407 490
Shellgrit	6 562	35 190	7 339	34 987
TOTAL	1 226 186	\$8 963 594	1 372 012	\$10 582 194

Table 7 *Natural Clay Products*

	6 Months Period Ending June 1999		6 Months Period Ending December 1999	
	Quantity (t)	Value (\$)	Quantity (t)	Value (\$)
Mineral Product				
Clay - Brick	0	0	3503	14388
Clay - Fire	50	400	6	48
Clay - Red Plastic	9 618	41 590	16 314	36 310
Clay - White Plastic	31 948	206 250	15 032	67 671
Fine Tailings	58 522	228 573	7 573	21 024
Shale - Cement	69 326	554 608	82 139	657 112
Shale - Coloured	37 213	131 547	59 592	190 187
Shale - White	17 820	109 358	22 858	126 946
TOTAL	224 497	\$1 272 326	207 017	\$1 113 686

Table 8 Resources Summary for 6 Month Period Ended 31 December 1999

Mineral Product	6 Months Period Ended June 1999		6 Months Period Ended December 1999	
	Quantity (t)	Value (\$)	Quantity (t)	Value (\$)
Mineral Products		195 816 121		364 718 798
Industrial Minerals	2 949 302	26 474 165	2 921 235	25 622 511
Construction Materials	5 066 267	39 896 462	5 111 481	38 638 946
Natural Sand Products	1 226 186	8 963 594	1 372 012	10 582 194
Clay Products	224 497	1 272 326	207 017	1 113 686
Natural Gas (Gm ³)	1.835	195 270 884	2	207 453 109
Caroline CO ₂ #1 Well (t)	13 170	1 962 333	13 169	1 962 221
Ethane (t)	9 430	1 202 184	13 149	1 692 262
Port Bonython				
Condensate (kL)	190 244	29 914 072	202 417	47 544 240
Crude Oil (kL)	249 457	36 231 193	198 381	45 800 833
LPG (t)	171 602	39 983 229	167 883	65 941 269
Opal Production Estimate		18 270 640		19 351 300
TOTAL		\$595 257 203		\$830 421 369

Table 9 Resources Production for 12 Months Ended 31 December 1999

PETROLEUM PRODUCTS	Quantity (t)	Value (\$)	12 Month Total
Natural Gas (Gm ³)	3.951	402 723 993	
Caroline CO ₂ #1 Well (t)	26 339	3 924 554	
Ethane (t)	22 579	2 894 446	
Condensate (kL)	392 661	77 458 312	
Crude Oil (kL)	447 838	82 032 026	
LPG (t)	339 485	105 924 498	674 957 829
MINERAL PRODUCTS - REFINED			
Copper	137 329	330 806 309	
Gold (kg)	989	13 788 922	
Silver (kg)	7 697	1 991 141	
Uranium Oxide	3 183	142 484 477	489 070 849
MINERAL ORES & CONCENTRATES			
Iron Ore	2 741 446	24 673 005	
Lead Ore	0	0	
Zinc Ore	4 985	3 927 432	28 600 437
COAL			
Black Coal	2 670 226	42 863 633	42 863 633
INDUSTRIAL MINERALS			
Barite	14 361	674 384	
Cement Shale	9 564	76 512	
Dolomite	907 029	9 321 362	
Feldspar	1 798	65 063	
Foundry Sand	49 902	1 244 466	
Gypsum	1 783 547	5 048 683	
Jade (kg)	757	3 784	
Kaolin	2 762	279 496	
Limesand	30 458	317 872	
Limestone	43 704	620 362	
Agricultural			
Cement	1 685 805	13 245 203	
Chemical	630 278	12 076 798	
Fines	1 566	47 000	
Whiting	1 633	81 660	
Magnesite	909	29 298	
Mica (Damourite)	1 016	132 826	
Micaceous Hematite	80	32 000	
Peat	2 670	109 470	
Phosphate	1 250	3 650	
Salt	567 294	4 788 200	
Semi Precious & Ornamental Stones (kg)	18	35	
Silica	123 572	3 019 448	
Sillimanite	274	9 575	
Talc	10 290	869 529	52 096 676
CONSTRUCTION MATERIALS	10 177 748	78 535 408	78 535 408
NATURAL SAND PRODUCTS	2 598 198	19 545 788	19 545 788
CLAY PRODUCTS	431 514	2 386 012	2 386 012
OPAL PRODUCTION ESTIMATE		37 621 940	37 621 940
TOTAL MINERAL VALUE			\$1 425 678 572

Appendix I

Dolomite/Limestone Metropolitan Quarry Products
Six Monthly period ended 31 December 1999

Quarry Product	Quantity (t)
Crushed Rock	70 439
Filling	135 617
Rail Ballast	41 005
Rip Rap and Spalls	11 425
Rubble	392 768
Screenings	545 265
Specification Sand	164 167
Washed Sand	92
TOTAL (t)	1 360 778

Quartzite/Sandstone Metropolitan Quarry Products
Six Monthly period ended 31 December 1999

Quarry Product	Quantity (t)
Crushed Rock	51 521
Decorative Stone	438
Filling	199 142
Rail Ballast	31 710
Rip Rap and Spalls	100 093
Rubble	349 951
Screenings	97 603
Specification Sand	92 738
Washed Sand	2 098
TOTAL (t)	925 294

Appendix II

Quarry Products – Country
Six Monthly period ended 31 December 1999

Rock Type	Crushed Rock	Decorative Stone	Filling	Rail Ballast	Rip Rap and Spalls	Rubble	Screenings	Specification Sand	TOTAL(t)
Basalt	8 891		31 536		117	6 303		2 284	49 131
Dolomite/ Limestone	107 733	384	35 611	6 526	5 079	428 906	160 284	54 989	799 512
Epidote		10							10
Feldspar		5							5
Granite	1 651	20	130	14 117	26	33 655	37 912	19 468	106 979
Gravels	76 000					16 731	51 041		143 772
Marble		2 500				4 380			6 880
Quartzite/ Sandstone	72 580		12 841	16 248	305	73 668	39 358	14 973	229 973
River Gravel		45				45	350		440
Shale						5 198			5 198
TOTAL (t)	266 855	2 964	80 118	36 891	5 527	568 886	288 945	91 714	1 341 900

Quarry Products - Metropolitan
Six Monthly period ended 31 December 1999

Rock Type	Crushed Rock	Decorative Stone	Filling	Gravel	Rail Ballast	Rip Rap & Spalls	Rubble	Screening	Specification Sand	TOTAL(t)
Dolomite/ Limestone	73 339		135 617		41 005	11 425	396 320	545 266	164 259	1 367 231
Quartzite/ Sandstone	48 078	438	199 142	3 443	31 710	100 093	349 951	97 603	94 836	925 294
Ironstone							38 000			
Marble		1 500								
TOTAL(t)	121 417	1 938	334 759	3 443	72 715	111 518	784 271	642 869	259 095	2 332 025

Quarry Products - Government
Six Monthly period ended 31 December 1999

Rock Type	Crushed Rock	Filling	Rip Rap and Spalls	Rubble	TOTAL (t)
Basalt				354	354
Clay		32 000		115 150	147 150
Dolomite/Limestone	59 356	501		1 001 490	1 062 943
Ironstone				7 862	7 862
Quartzite/Sandstone	5 596			95 492	101 088
Gravel				47 900	47 900
Shale				40 350	40 350
TOTAL (t)	64 952	32 501	1 596	1 308 598	1 407 647

Appendix III

Natural Sand Products – Metropolitan
Six Monthly period ended 31 December 1999

Sand Type	Washed	Dry Screened	Untreated	TOTAL (t)
Bricklaying Sand	4 462	62 310		66 772
Concrete Block Sand	7 642			7 642
Concrete Sand	312 135			312 135
Garden Sand or Loam	9 712	16 937	4 719	31 368
Gravels	5 321			5 321
Packing/Filling	195 801	30 846	53 463	280 110
Plastering Sand	1 134	28 486		29 620
TOTAL (t)	536 207	138 579	58 182	732 968

Natural Sand Products – Country
Six Monthly period ended 31 December 1999

Sand Type	Washed	Dry Screened	Untreated	TOTAL (t)
Bitumen Sand			5 116	5 116
Bricklaying Sand		3 340	1 011	4 351
Concrete Block Sand	43 151	15 628		58 779
Concrete Sand	80 798	261 607	8 722	351 127
Filter Sand			5 465	5 465
Garden Sand or Loam	1 701	21 501	33 990	57 192
Gravels	5 388	399	4 085	9 872
Packing/Filling	4 330	16 513	103 988	124 831
Plastering Sand	1 220	599	353	2 172
Shellgrit	21		7 318	7 339
TOTAL (t)	136 609	319 587	170 048	626 244

Natural Sand Products – Government
Six Monthly period ended 31 December 1999

Sand Type	Washed	Dry Screened	Untreated	TOTAL (t)
Packing/Filling Sand			12 800	12 800
TOTAL (t)			12 800	12 800

Appendix IV

Clay Products – Metropolitan
Six Monthly period ended 31 December 1999

Clay Type	Quantity (t)	Value (\$)
Shale Cement	67 139	537 112
Shale Coloured	59 560	177 387
Shale White	22 446	125 346
Clay Red Plastic	14 981	31 085
Clay White Plastic	15 032	67 071
Fine Tailings	7 573	21 024
TOTAL	186 731	\$959 025

Clay Products – Country
Six Monthly period ended 31 December 1999

Clay Type	Quantity (t)	Value (\$)
Shale Cement	15 000	120 000
Shale Coloured	32	12 800
Shale White	412	1 600
Clay Brick	3 505	14 388
Clay Fire	6	48
Clay Red Plastic	1 333	5 225
TOTAL	20 288	\$154 061