SOUTH AUSTRALIAN DEPARTMENT OF MINES REVIEW OF MINERAL PRODUCTION - 1954.

The nominal value of mineral production in South Australia during the year 1954 was £8,557,486.

This sharp increase in production value was in some measure attributable to an adjustment in the production value of some minerals. Based on the 1953 basis of valuation the production value was $\pounds7,035,688$, which still represents a 13 per cent increase in production over the previous year's production value of $\pounds6,203,162$.

Production of iron ore increased by 11 per cent to 2,867,060 tons, to meet the demand created by increased steel making capacity at Pt. Kembla.

Output of limestone flux, and refractory dolomite, for the steel industry, collectively remained constant and did not reflect a similar increase in production.

Production of other metallic minerals, gold, silver, copper and lead remained insignificant.

Coal output increased from 448,484 tons in 1953 to 495,106 tons. The increase, mainly in the latter half of the year, was to supply the demand of the new Port Augus ta regional power station, which came on load in July, 1954. A marked increase in output to supply power demands may be expected in 1955.

Production of gypsum increased from 181,640 tons to 194,772. Output of seed gypsum was increased considerably to meet the expanded production of Portland Cement manufacture at both the Angaston and Birkenhead cement plants. At Stenhouse Bay, where 70 per cent of the gypsum is produced for plaster manufacture, plans for a considerable increase in output are nearing completion, and will reflect in the 1955 output.

The most notable output increase of any particular mineral is that of salt, which rose from 239,285 tons in 1953, to 303,893 tons, an increase in output of 27 per cent. The increase again was principally from the I.C.I. solar evaporation plant at Osborne where salt is produced solely for the chemical industry. Elsewhere the salt harvest was above average.

Plans for substantial increase in production at Whyalla and Stenhouse Bay have not yet reached completion, but will come into effect during/1955 harvest.

Production of salt from the works under construction near Port Augusta is not anticipated before the 1956 harvest season.

Production and demand for barytes remained much at the same level, but talc production increased from 6,652 tons to 9,088 tons, mainly to fulfil a wider spread in general demand.

High grade limestone for industrial purposes, particularly for cement and chemical manufacture, showed marked increases in output, reflecting the recent expansion in these two industries.

Clay and shale utilized in the brick, cement, and ceramic industries rose from an output of 343,188 tons in 1953 to a 1954 output of 392,467 tons. This increase reflects a direct rise of 14 per cent in the availability of basic building materials. Also included in this category is sand for construction purposes which rose in output from 684,000 to 1,145,000 tons.

Aggregate for road/building construction purposes showed a noteworthy increase in production from 3,200,000 to 3,900,000 tons in 1954.

In all branches of the industry, production rate has either been maintained, or in most cases substantially increased.

Developments worthy of note associated with the mineral industry, have been the expansion of the Portland coment plants at Angaston and Birkenhead, consuming greater quantities of high grade limestone, shale and gypsum; expansion of the heavy chemical industry at Osborne, consuming increased quantities of limestone and salt, full scale mining and treatment operations at Radium Hill for the production of uranium concentrates, which will be further treated for the chemical extraction of uranium salts at the Port Pirie plant now almost complete, and rapid pro-gress on the sulphuric acid manufacturing project to utilize pyrite mined and concentrated

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at Nairne, in a modern acid plant under construction at Birkenhead.

The accompanying tabulation shows details of the South Australian Mineral Production during 1954:-

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Construction materials	Quantity disposed of (tons)	Value of output (£)
<u>Building Stone</u>		
Granite Limestone Marble Sandstone Slate	350 27,202 3,619 18,724 3,316	4,050 38,782 9,376 28,264 20,692
Roadstone	-	
Basalt Dolomite GraveL Granite Ironstone Limestone Quartzite Sand Sandstone Slate and Shale	42,364 89,459 675,914 500 630 1,590,977 1,375,027 1,145,746 15,185 77,593	42,174 73,458 257,561 250 315 882,986 869,139 397,896 6,074 23,278
TOTAL		2,654,295

TOTAL VALUE OF MINERALS DISPOSED OF IN 1954.

Metallic mineral s	£3,299,500	
Non-metallic mine rals	£2,603,691	
Construction materials	£2,654,295	
TOTAL	£8,557,486	

	Quantity		
Mineral	Ore (tons)	Mineral Obtained after Treatment	Value of Output (£)
Metallic Minerals Copper Gold Iron Lead Silver	3 2,867,060 55	1 ton 54 fine oz. 14 tons 625 oz.	73 836 3,297,119 1,231 241
TOTAL			3,299,500
Non-metallic minerals Barite Clay = Ball and Kaolin - Brick - Cement - Fire - Pottery Coal (sub-bituminous) Damourite Felspar Dolomite Flint Pebbles Gypsum Limestone = Agricultural - Burned for lime - Cement - Chemical - Flux - Whiting Magnesite Opals Phosphate rock Salt Silica Silimanite (incl. Kyanite and Fibrolite) Talc and scapstone	3,828 3,325 301,543 20,548 24,861 42,190 495,106 514 3,620 118,612 117 194,772 4,487 21,550 313,580 161,684 438,313 10,588 235 6,120 303,893 17,942 967 16,870	140 tons 3,038 tons 9,088 tons	31,106 9,807 155,772 12,842 24,861 63,285 650,321 2,982 15,089 76,639 1,735 182,210 3,369 10,775 199,619 152,042 274,152 17,116 705 44,815 6,076 607,786 12,170 6,012 42,405
TOTAL			2,603,691