



ANNUAL REPORT
OF THE DIRECTOR OF THE SOUTH AFRICAN MINT
FOR THE YEAR 1 APRIL 1980 TO 31 MARCH 1981

REPUBLIC OF SOUTH AFRICA

SOUTH AFRICAN MINT

The Director General: Finance
Union Buildings
PRETORIA.

ANNUAL REPORT OF THE DIRECTOR OF
THE SOUTH AFRICAN MINT FOR 1980/81.

I wish to submit the following report on the activities of the South African Mint during the financial year 1st April, 1980, to 31st March, 1981.

INTRODUCTION

Total coinage production for the year amounted to 136 million as against 169 million for the previous year. This very low production was planned in order to reduce the abnormally high stocks of coins held by the Mint as a result of the low demand for coins which followed on the considerable overordering by the commercial banks during previous years.

Sales of circulation coins however increased to R20 735 600 as against R4 333 028 for the previous year reflecting the increase in demand for coins.

Due to the marked increase in the price of gold during early 1980 the demand for collectors' coins, mainly gold coins, was stimulated and sales increased to R15 487 816 from R7 965 134 for the previous year.

Sales of miscellaneous Mint products were normal, the high value of sales of R47 825 371 reflecting the increase in the price of gold.

The total sales of all Mint products amounted to R84 million for the year yielding a nett profit of R21,8 million.

The number of Krugerrands minted for the Chamber of Mines of South Africa decreased to 3,2 million from 4,5 million during the previous year. The introduction of the 1/2, 1/4 and 1/10-Krugerrand during the year however resulted in a total of 5,8 million gold coins being minted for the Chamber. Production of the smaller Krugerrands called for additional planning and a new minting press was ordered for the purpose.

During the year I had the privilege of attending the 11th Mint Directors' Conference held at Utrecht, Netherlands.

The financial statements and the activities of the various departments are set out in the following chapters.

A handwritten signature in dark ink, appearing to read 'J.J. Groenewald', with a stylized flourish at the end.

J.J. GROENEWALD
DIRECTOR: S.A. MINT

CHAPTER I - FINANCE.
COMBINED MANUFACTURING- OPERATING- AND PROFIT AND LOSS ACCOUNT
FOR THE YEAR ENDED 31 MARCH 1981

<u>1979/80</u>		<u>1980/81</u>
R	R	R
	EXPENDITURE:	
252 656	Work in progress on 1 April 1980	279 099
6 626 423	Coin stocks on hand at cost on 1 April 1980	8 929 731
	Operating costs for the year:	61 866 835
53 133 075	Bullion costs	60 472 649
1 312 930	Conversion costs	1 394 186
341 069	Selling expenses	385 851
Nil	Non-vote expenditure credited in the manufacture of bronze coin for foreign governments	19 701
61 666 153	SUBTOTAL	71 481 217
	Less:	
335	Value of coin issued in replacement of old coin withdrawn from circulation, at cost.	Nil
8 929 731	Coin stocks on hand at cost on 31 March 1981	8 699 444
279 099	Work in progress on 31 March 1981	543 312
52 456 988	Cost of sales	9 242 756
	RECEIPTS:	
64 802 808	Sales	84 048 787
52 456 988	Less: Cost of sales	62 238 461
12 345 820	Net profit for the year	21 810 326

BALANCE SHEET AS AT 31 MARCH 1981

R		R	R
	LIABILITIES :		
	MINT CAPITAL		
4 967 621	Balance on 1 April 1980	4 731 985	
7 282	Additions for the year	116 401	
4 974 903		4 848 386	
242 918	Less: Sales, depreciation and write-offs	202 515	
4 731 985	Balance on 31 March 1981		4 645 871
2 426 139	OPERATING CAPITAL		2 143 608
1 782 518	SUNDRY CREDITORS		398 277
10 214 556	S.A. RESERVEBANK for gold deposited		5 641 995
28 990 000	THE TREASURY - advances for the purchase of bullion		30 000 000
82 192	ADVANCE PAYMENTS by clients		272 344
48 227 390			43 102 095
	ASSETS :		
4 190 990	BUILDINGS at cost	4 190 990	
Nil	Additions during the year	Nil	
4 190 990		4 190 990	
815 765	Less: Accumulated depreciation	849 518	
3 375 225	Value on 31 March 1981		3 341 472
4 647 689	MACHINERY AND EQUIPMENT at cost	4 654 971	
7 282	Additions during the year	116 401	
4 654 971	Less: Sales, accumulated depreciation and write-offs	4 771 372	
3 316 211		3 484 973	
1 338 760	Value on 31 March 1981		1 286 399
18 000	LAND		18 000
74 127	STORES at cost		55 566
447 660	SUNDRY DEBTORS		417 646
	BULLION (including bullion in coin stocks)		33 609 570
26 030 482	Gold	24 300 696	
13 168 031	Other	9 308 874	
1 975 730	COIN STOCKS at cost (excluding bullion's content)		1 650 890
279 099	WORK IN PROGRESS at cost		184 579
93 315	OPERATING SUSPENSE ACCOUNTS		248 704
3 868	MINT MUSEUM STOCK at cost price		3 868
1 423 093	CASH with Paymaster General		2 285 401
48 227 390			43 102 095

1. Comparative Statement of Sales

	<u>1980/81</u>	<u>1979/1980</u>	<u>1978/1979</u>
	R	R	R
a) Circulation coin	20 735 600	4 333 028	23 449 205
b) Proof and collectors coin	15 487 816	7 965 134	5 460 902
c) Gold and silver for industrial purposes	46 789 789	45 785 083	22 155 462
d) Die and medal products, laboratory and sundry services	308 954	6 177 728	177 697
e) Manufacture of gold coin for the Chamber of Mines	583 989	521 316	495 048
f) Manufacture of coin for foreign governments	125 500	-	-
g) Rand Refinery (bullion sales)	17 139	20 519	17 594
Totals	84 048 787	64 802 808	51 755 908

The increase in total sales in 1980/81 of 29,70% over 1979/80 is due largely to the increase in demand for circulation coin. The decrease in sales under item 1 d) is due to a non-recurrent transaction involving the sale of old silver in 1979/80 for the amount of R6 080 948.

2. Comparative Statement of Conversion and Sales Costs

Conversion costs	1 413 585	1 312 741	1 273 772
Selling costs	386 154	341 069	321 106
Totals	1 799 739	1 653 810	1 594 878

3. Operating Results

a) <u>Combined</u>			
Sales	84 048 787	64 802 808	51 755 908
Net profit	21 810 326	12 345 820	23 673 873
% Profit on sales	25,95	19,05	45,74
b) <u>Circulation coin</u>			
Sales	20 735 600	4 333 028	23 449 205
Net profit	15 737 483	2 691 997	21 295 486
% Profit on sales	75,90	62,13	90,81
c) <u>Proof and collectors coin</u>			
Sales	15 487 816	7 965 134	5 460 902
Net profit	5 496 850	3 418 115	1 881 283
% Profit on sales	35,49	42,91	34,45
d) <u>Sundry (other) accounts</u>			
Sales	47 825 371	52 504 646	22 845 801
Net profit	575 993	6 235 708	497 104
% Profit on sales	1,20	11,88	2,18

The high percentage profit under 3 d) above for 1979/80 is due to the sale of old silver (coins) at a most advantageous price.

4. Comparative Statement of Capital Additions

	<u>1980/81</u>	<u>1979/80</u>	<u>1978/79</u>
	R	R	R
Buildings	-	-	23 866
Machinery and Equipment	116 401	7 282	148 407
	<u>116 401</u>	<u>7 282</u>	<u>172 273</u>

5. Circulation Coin Manufactured for Foreign Governments

Face value	125 500	-	-
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6. Gold Coins Delivered to Chamber of Mines

	<u>Number of pieces</u>		
Krugerrand	3 192 328	4 590 079	5 262 480
1/2-Krugerrand	543 063	-	-
1/4-Krugerrand	603 818	-	-
1/10-Krugerrand	1 456 355	-	-
R2	Nil	422 167	200 000
R1	92 445	200	-
	<u>5 888 009</u>	<u>5 012 446</u>	<u>5 462 480</u>

7. Comparative Statement of Stores Used

Direct purchases	105 564	85 232	86 207
Issued ex stores	138 433	155 912	148 789
	<u>243 997</u>	<u>241 144</u>	<u>234 996</u>

CHAPTER II - ADMINISTRATION

A. MINT OFFICE

The Mint Office is responsible for the purchase of all coinage metals, the issue thereof to the production sections and the issue of all coins, medals and products manufactured by the S.A. Mint.

1. GOLD

The average selling price of industrial gold was R444.84 per fine ounce, compared with R357.02 in the previous year. The selling price of gold sold for industrial purposes is determined in accordance with the average ruling prices on the free market on a weekly basis in respect of manufacturing jewellers and on a daily basis for buyers of gold bars from April 1980, as adjusted and approved by the South African Reserve Bank, plus a commission of 1%.

A total fine mass of 3 008,09 kg of gold was sold during the year whereas 4 316,09 kg was sold during the previous year.

Gold Coins:

A total of 36 000 gold proof coins (18 000 of R2 and 18 000 of R1) was struck for sale in 10 000 proofsets of 10 coins (R2 - $\frac{1}{2}$ c) and 8 000 proofsets of 2 coins (R2 - R1).

In addition to the above 12 041 prooflike R2 coins, 14 000 prooflike R1 coins and 12 000 proof Krugerrand coins were minted for sale as well as 3 192 328 Krugerrand coins and 92 445 R1 coins for the Chamber of Mines of South Africa. A further 15 000 uncirculated R1 coins were minted for members of the S.A. Manufacturing Jeweller's Association.

The fractional Krugerrands were introduced in September 1980. 60 Each of the $\frac{1}{2}$ -, $\frac{1}{4}$ - and $\frac{1}{10}$ -Krugerrands were struck in proof condition and 543 063 $\frac{1}{2}$ -Krugerrands, 603 818 $\frac{1}{4}$ -Krugerrands and 1 456 355 $\frac{1}{10}$ -Krugerrands were minted for the Chamber of Mines.

Gold Transactions:

There was a decrease in the total fine mass of the gold transacted as compared with the previous year as follows:-

	<u>1980/81</u>	<u>1979/80</u>
	kg	kg
Received from the Rand Refinery Ltd.	2 839,77	4 247,74
Granulated and dental gold sold	3 008,09	4 316,09
Medals, wire and sheet gold sold	22,70	15,79
Mass of R2, R1, Krugerrand	766,98	793,77
Transferred to Die & Medal Section	12,63	-
Transferred to Coinage Section ex Rand Refinery	879,86	880,67
	<u>7 530,03</u>	<u>10 254,06</u>

2. SILVER

Silver transactions by mass

	<u>1980/81</u>	<u>1979/80</u>
	kg	kg
Bought from Rand Refinery Ltd.	12 449,01	12 846,87
Granules and strip sold	11 837,90	12 721,80
Medals and other items sold	192,20	168,17
Coin received from Coinage Section	180,01	180,17
Issues for various alloys	76,11	124,82
	<u>24 735,23</u>	<u>26 041,83</u>

Purchase of Silver

12 449,01 kg of Silver was purchased from the Rand Refinery Ltd., mainly for sale in granulations.

Basic Selling Price of Silver

It was necessary for the Mint, with Treasury approval, to vary its basic selling price of Silver in conformity with the rise and fall in the overseas market price. Silver is sold at the daily cash price ruling on the London Metal Market. The average selling price was R13,73 per fine ounce compared with R27,76 in the previous year. The total fine mass sold during the year was 11 837,90 kg whereas 12 721,80 kg was sold during the previous year.

Withdrawal of 500 Std. and 800 Std. Silver Coin for Remelting

During the year no silver coins were withdrawn from circulation.

3. NICKEL

Nickel Transactions by mass in kg

	<u>1980/81</u>	<u>1979/80</u>
Blanks purchased for coinage	-	-
Mass of coins received	188 546,61	244 327,51
Transferred to Die & Medal Section	19,88	24,41
	<u>188 566,49</u>	<u>244 351,92</u>

4. BASE METALS

The following are the receipts of and the transactions in base metals. This involved mainly issues to the Coinage Section for the production of gold, silver and bronze coin as well as a small amount of copper for the alloying of the different grades of gold sold to industry.

Base metals transactions by mass

	kg.
Bronze issued to Coinage Section	295 741,10
Bronze coin received from Coinage Section	331 737,65
Metals for various alloys	64,02
Copper issued to Rand Refinery Ltd.	8 632,00
Bronze coin received from Coinage Section for Zimbabwe	40 212,96
Copper issued to Mechanic Shop	422,00
	<u>676 809,73</u>

Withdrawal of Bronze Coin

During the year coin to the value of R576,30 was withdrawn from circulation.

5. COIN RECEIVED AND ISSUED

The following is a comparative schedule in respect of gold, silver, nickel and bronze coins received from the Coinage Section and issued by the Mint Office:-

Denomination	Receipts from Coinage Section		Issued to Banks etc. during	
	1980/81	1979/80	1980/81	1979/80
<u>Gold</u>				
2 Rand	60 082,00	64 000,00	49 860,00	63 530,00
1 Rand	47 000,00	52 500,00	39 864,00	52 413,00
<u>Silver</u>				
1 Rand	15 000,00	15 000,00	16 696,00	620 275,00
<u>Nickel</u>				
R1	3 673 018,00	8 350 059,00	5 914 085,00	676 442,00
50c	3 355 493,50	2 312 411,00	3 210 380,00	542 548,00
20c	2 127 883,80	1 492 253,40	4 844 752,00	602 619,20
10c	3 500,00	1 007 826,10	1 992 876,00	318 309,60
5c	333 358,45	831 149,80	2 380 038,00	839 654,80
<u>Bronze</u>				
2c	1 066 700,00	1 064 680,00	1 525 531,50	767 081,92
1c	391 130,00	640 950,00	905 287,60	624 330,96
½c	75,00	175,00	686,73	149,71½
	11 073 240,75	15 831 004,30	20 880 056,83	5 107 354,19½

6. PROOFSETS

The Mint produced 10 000 ten-coin proofsets (R2 - ½c), 8 000 gold proofsets (R2 - R1) and 5 000 eight-coin proofsets (R1 - ½c). 12 000 Proof quality Krugerrands and 60 each of the fractional Krugerrands, 1/2-, 1/4- & 1/10 were minted.

7. COINS MANUFACTURED FOR OTHER COUNTRIES.

Zimbabwe - R100 000 1c pieces.

8. PACKING AND DESPATCH SECTION

The number of parcels despatched by post and by rail compared with the previous year was:-

	<u>1980/81</u>	<u>1979/80</u>
Parcels despatched by post	14 795	25 233
Parcels, other than coin, despatched by rail ..	1 (29 kg)	6 (280 kg)
Boxes of coin despatched by rail	6 603 (328, 308 kg)	2 730 (132, 850 kg)
Boxes of Krugerrand, etc.	6 318 (107 187, 93 kg)	9 181 (165 242, 63 kg)

B. PERSONNEL

1. SCHEDULE OF POSTS AND PERSONNEL EMPLOYED

The following comparative schedule shows the number of posts and the personnel employed at the end of the year as compared with the previous year:-

Categories	1981		1980	
	Posts	Personnel	Posts	Personnel
a. Administrative	9	9	9	9
b. Professional	4	2	4	2
c. Technical	19	11	13	10
d. Clerical	16	5	16	4
e. General Divisions A & B excluding items (g) to (i)	31	17	31	18
f. Temporary employees against posts under items (a) to (e)	-	10	-	12
g. Senior Special Craftsman	2	-	5	2
h. Special Craftsman	11	7	15	6
i. Foreman	5	3	5	2
j. Male Operators	22	13	22	14
k. Apprentices	4	3	4	2
l. Female Operators and Supervisors	49	37	49	39
m. Guards & Bossboys	17	17	17	16
n. Messengers, Cleaners & Labourers	128	105	128	109
Total	317	239	318	245

There was a decrease of 6 in the number of persons employed while the number of posts decreased by 1.

2. PERSONNEL TURNOVER

Appointments	89
Resignations	95

3. POST STRUCTURAL CHANGES

The number of authorised posts decreased by 1.

4. PERSONNEL CHANGES

a) The following employees retired on pension:-

- i) Mrs. S.G. Dicks, TN.5 Special Operator, on 1st May 1980 after 38 years of service.

- ii) Mrs. A.C.W. Swanepoel, TN.5 Special Operator, on 1st May 1980 after 20 years of service.
 - iii) Mrs. C.J. Rautenbach, TN.5 Machine Operator, on 1st May 1980 after 8 years of service on account of ill health.
 - iv) Mrs. A.A.W. Kirsten, TN.4 Special Operator, on 1st May 1980 after 18 years of service on account of ill health.
 - v) Miss J. Adams, TN.5 Supervisor, on 1st September 1980 after 40 years of service.
 - vi) Mrs. M.J.M. Meyer, TN.4 Manageress on 1st December 1980 after 15 years of service.
 - vii) Mrs. E.S. Brummer, TN.5 Supervisor, on 1st February 1981, after 5 years of service on account of ill health.
 - viii) Mrs. J.H. Erasmus, TN.5 Special Operator on 1st February 1981 after 29 years of service on account of ill health.
- b) Three workers died during the year:-
- i) Mrs. E.H. Rose, on 25th July 1980 after 27 years of service.
 - ii) Mr. J.C. van der Westhuizen, on 31st August 1980, after 3 years of service.
 - iii) Mr. Piet Thsonyana, on 5th July 1980, after 13 years of service.
- c) The following officers and employees were transferred to other Ranks:-
- i) Mrs. M.C. Bronkhorst, TN.6 Machine Operator, to TN.5 Machine Operator with effect from 1st May 1980.
 - ii) Mrs. J.M.M. Mans, TN.6 Machine Operator to TN.5 Special Operator with effect from 1st May 1980.
 - iii) Mrs. E.A. van Zweel, TN.6 Machine Operator to TN.5 Special Operator with effect from 1st May 1980.
 - iv) Mrs. A.C. Botha, TN.5 Special Operator to TN.4 Special Operator with effect from 1st September 1980.
 - v) Mrs. E.M.M. Enslin, TN.6 Machine Operator to TN.5 Supervisor with effect from 1st September 1980.
 - vi) Mr. A.W. Appel, Senior Operator to Artisan Foreman with effect from 1st November 1980.
 - vii) Mrs. B.M. Rutherford, TN.6 Machine Operator to TN.5 Special Operator with effect from 1st February, 1981.
 - viii) Mrs. S.M. van Staden, TN.6 Machine Operator to TN.5 Supervisor with effect from 1st March 1981.
 - ix) Mrs. M.A.S. Schroeder, TN.6 Machine Operator to TN.5 Special Operator with effect from 1st March, 1981.

d) The following officers were promoted:-

- i) Mr. W.S. van As, Assistant-director: Administration to the progression scale with effect from 1st April 1981.
- ii) Mr. J.D. Smook, Control Administrative Officer to the progression scale with effect from 1st April 1980.
- iii) Mr. W. Roux, Maintenance Superintendent to Chief Superintendent: Maintenance with effect from 1st January 1981.
- iv) Mr. J.P. Roux, Production Superintendent to Chief Superintendent: Processing with effect from 1st January 1981.
- v) Mr. L. Nel, Production Superintendent to Chief Superintendent: Coining with effect from 1st January 1981.
- vi) Mr. L.P. de Lange, Superintendent: Die and Medal to Chief Superintendent: Die and Medal with effect from 1st January, 1981.
- vii) Mr. A. Fedder, Senior Special Craftsman to Superintendent: Tool Making with effect from 1st January 1981.
- viii) Mr. A.L. Sutherland, Chief Die Sinker and Medallist to Superintendent: Die and Medal with effect from 1st January 1981.
- ix) Mrs. A. van Lier, Senior Typist to Private Secretary with effect from 1st April, 1980.
- x) Mrs. G.H. Grobler, Senior Clerical Assistant to Special Grade Clerical Assistant with effect from 1st March, 1981.

e) Merit advancement was awarded to:-

Mrs. F.J. Duvenhage.

- f) Miss A.A. Dempers, Technical Assistant, was transferred from the Department of Agriculture and Fisheries with effect from 9th June 1980.
- g) Mr. C.J. Dannhauser was appointed as Assistant-director: S.A. Mint with effect from 1st April 1980.
- h) Mr. H.C. de Kock, Works Manager, was transferred to the Department of Manpower Utilisation with effect from 1st October 1980.

C. MINT MUSEUM AND LIBRARY

A. Gifts

Gifts received:

Reserve Bank of Zimbabwe
Swiss Federal Mint

£5 Zimbabwe Bank Note.
5 Fr. Ferdinand Hodler 1980 proof
commemorative coin.

B. Visitors

2686 Visitors were received during the fiscal year.

C. Staff Changes

Mrs. E. van Rooyen who assumed duty as Liaison Officer on the 1st March 1980, left the Mint on the 30th September 1980.

CHAPTER III - PRODUCTION

1. MELTING SECTION

The following schedules show the activities of the section for the year:-

Gold

Fine Gold granules	467,295 kg
22ct Gold granules	302,597 kg
18ct Gold granules	201,821 kg
9ct Gold granules	65,426 kg
18ct Gold for Die & Medal	43,940 kg
9ct Gold for Die & Medal	25,038 kg
Total	<u>1 106,117 kg</u>

Silver

925 Std. Silver for Die & Medal	868,444 kg
Fine Silver granules	12 404,549 kg
Total	<u>13 272,993 kg</u>

Bronze

Coinage bronze	629 902,000 kg
Total	<u>629 902,000 kg</u>

2. ROLLING SECTION

The production in this section was as follows:-

a) Bars Rolled

Coinage bronze	668 046,000 kg
9ct Gold for Die & Medal	15,261 kg
18ct Gold for Die & Medal	64,342 kg
925 Std. Silver for Die & Medal	780,557 kg
Total	<u>668 906,160 kg</u>

b) Blanks annealed and cleaned

Proof Krugerrand	12 000 pieces
Proof Gold R2	30 041 pieces
Proof Gold R1	47 000 pieces
Proof 1/2-Krugerrand	69 pieces
Proof 1/4-Krugerrand	65 pieces
Proof 1/10-Krugerrand	95 pieces
Std. Krugerrand	3 200 000 pieces
Std. 1/2-Krugerrand	543 000 pieces
Std. 1/4-Krugerrand	604 000 pieces
Std. 1/10-Krugerrand	1 455 000 pieces
Std. Gold R1	92 700 pieces
800 Std. Silver R1	15 000 pieces
2c, 1c & 1/2c bronze	94 016 000 pieces
Rhodesian 1c bronze	10 000 000 pieces
Uncirculated (R1 - 1c)	160 000 pieces

Total	110 174 970 pieces
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Total Mass	506 072, 120 kg
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c) Blanks cleaned

R1 Nickel	3 700 000 pieces
50c Nickel	6 800 000 pieces
20c Nickel	11 000 000 pieces
10c Nickel	36 000 pieces
5c Nickel	5 600 000 pieces

Total	27 136 000 pieces
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Total Mass	189 144, 000 kg
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3. COINAGE SECTION

a) The number of coins minted during the year amounted to 136 180 872 pieces as reflected in the following schedule:-

Denominations	Bars Cast Kg.	Bars Rolled Kg.	Blanks Coined Kg.	Good Coin Produced	
				1980/1981 No. of pieces	1979/1980 No. of pieces
<u>Gold</u>					
Krugerrand			407,1681	12 000	11 800
R2			239,9329	30 041	32 000
R1			187,6876	47 000	52 500
1/2-Krugerrand			1,1194	69	
1/4-Krugerrand			0,5520	65	
1/10-Krugerrand			0,2035	95	
TOTAL			836,6635	89 270	96 300
<u>800 Std. Silver</u>					
R1			225,0100	15 000	15 000
TOTAL			225,0100	15 000	15 000
<u>Nickel</u>					
R1			44 076 216	3 673 018	8 350 059
50c			63 754 376	6 710 987	4 624 822
20c			63 836 514	10 639 419	7 461 267
10c			140 000	35 000	10 078 261
5c			16 667 922	6 667 169	16 622 996
TOTAL			188 475 028	27 725 593	47 137 405
<u>Bronze</u>					
2c)			213 420,00	53 335 000	53 234 000
1c)	457 326	485 018	117 339,00	39 113 000	64 095 000
1/2c)			30,00	15 000	35 000
TOTAL	457 326	485 018	330 789,00	92 463 000	117 364 000
<u>Bronze</u>					
Rhod. 1c	172 576	183 028	40 000,00	10 000 000	
TOTAL	172 576	183 028	40 000,00	10 000 000	
<u>Chamber of Mines</u>					
Krugerrand			108 318 881	3 192 328	4 590 079
1/2-Krugerrand			9 176 074	543 063	
1/4-Krugerrand			5 122 188	603 818	
1/10-Krugerrand			4 941 413	1 456 355	
R2					422 167
R1			369 225	92 445	
TOTAL	629 902	668 046	127 965 314	5 888 009	5 012 246
GRAND TOTAL	629 902	668 046	688 291 0155	136 180 872	169 624 951

b) Proof Coins

The following proof coins were minted and delivered to the Mint Office:-

South African:

a) Gold proofsets (R2 - R1)	8 000 sets
b) Long proofsets (R2 - R1 gold R1 - $\frac{1}{2}$ c)	10 000 sets
c) Short sets (R1 - $\frac{1}{2}$ c)	5 000 sets
d) Proof Krugerrand	12 000 pieces
e) Proof 1/2-Krugerrand	60 pieces
f) Proof 1/4-Krugerrand	60 pieces
g) Proof 1/10-Krugerrand	60 pieces

c) Uncirculated and prooflike pieces and sets

a) Prooflike R2 gold	12 041 pieces
b) Uncirculated and prooflike R1 gold	29 000 pieces
c) Uncirculated (R1 - 1c)	20 000 sets

4. DIE AND MEDAL SECTION

The following number of units produced in this section during the year amounted to:-

Coinage dies	4 931
Dies for medals	37
Medals and badges	16 245
Gold Jewellers' articles	53
Silver Jewellers' articles	47
Sundries Die and Medal items	14 542
Articles engraved (hand)	458
S.A. Police, S.A. Defence, Prisons and	
S.A. Railway Police medals stamped	3 200
Medals numbered by machine	5 128

The following medals were produced:-

1. National Republic Festival Medal

250 Numbered sets of 18ct gold, silver and bronze minted in 38 mm dia.
also 10 000 bronze and 1 000 silver was minted.

Obverse: Design competition won by Mr. G. le Grange with the theme
"Unity in Diversity" depicting a torch from which pigeons emerge.
Modelled by L.P. de Lange.

Reverse: Republic Coat of Arms. 1961 - 1981.

2. F.A.K. Paardekraal Commemoration Medal

Five 38 mm numbered sets in 18ct gold, silver and bronze. Also 25 silver and 150 bronze were minted.

Obverse: F.A.K. Emblem

Reverse: Depicting the Paardekraal Monument with wording:
"Paardekraal 1880 - 1980".
Modelled by A. Sutherland.

3. Chamber of Mines Literacy Medal

Ten 22ct gold Krugerrand dia. medals were minted.

Obverse: Depicting a person with pen and book.
Wording: "Bureau of Literacy and Literature - Buro vir Leeskunde en Lektuur".

Reverse: Wording: "Maida Whyte Award - Toekenning".
Modelled by A. Sutherland.

4. Department of External Affairs

One 38 mm dia. medal minted in 18ct gold.

Obverse: Republic Coat of Arms.

Reverse: Wording: "Presented to His Excellency Kgosi L.M. Mangope President of the Republic of Bophuthatswana".

5. F.A.K. Linguistic Medal

Ten 38 mm dia. medals minted in silver.

Obverse: F.A.K. Emblem.

Reverse: Wording: "Beste Taalgebruiker - Junior Rapportryer - Debat Kompetisie".

6. University of Pretoria 50 Years Commemoration Medal

One 38 mm dia. medal in 9ct gold, 20 silver and 500 bronze were minted for this occasion.

Obverse: University of Pretoria Emblem.
Modelled by L.P. de Lange.

Reverse: Symbolic "50" upon the letters 1930 - 1980 with six converging lines.
Modelled by L.P. de Lange.

7. S.A. Academy for the Advancement of Science

Obverse and Reverse reduced to 50 mm dia. medal.

CHAPTER IV - ENGINEERING

The function of the section is the installation and maintenance of machinery and plant in all sections of the Mint as well as the manufacture of tooling for production requirements.

By arrangement with the Department of Community Development the maintenance of the official Mint Residences is also undertaken by the section.

In the execution of the section's function the following special tasks were performed:-

1. A method of securing coining dies in the die holders on multiple strike minting presses using an epoxy resin was developed and is now standard practice. The production of die holding parts has been virtually eliminated.
2. Variable speed gearboxes on six Gräbener minting presses were replaced by fixed speed gearboxes.
3. The use of tungsten carbide has been extended to include milled collars produced by electric discharge machining with marked success.
4. Air conditioning units were installed in the Proof coinage and Gold coin production areas as well as the Tool Room and the Die and Medal Section. The ventilation in the remaining production areas was improved.
5. General maintenance of buildings included the complete repainting of the Mint roof.
6. One HME Coinmaster minting press was moved from the Minting Section to the Die and Medal Section for the striking of small pieces.

CHAPTER V - LABORATORY SERVICES

This section is responsible for process quality control and the assaying of metals for the manufacture of coins and medals.

Assaying is carried out for the South African Police, Diamond and Gold Branch, in connection with the combatting of illicit precious metal dealings, fraud and counterfeit coins. In this connection laboratory staff was subpoenaed to give evidence in four court cases during the year.

The S.A. Bureau of Standards submits various gold and silver samples for assay in connection with the use of the Bureau hallmark on gold and silver articles manufactured in the jewellery trade.

Assaying of minerals is also carried out for bonafide prospectors.

The following work was carried out in the section during the year:-

1. a) Precious Metal Assays:

Gold:	Mint Office	1 028 Samples	
	S.A. Bureau of Standards	104 Samples	1 132
Silver:	Mint Office	109 Samples	
	S.A. Bureau of Standards	57 Samples	247
			Total 1 379

b) Other Metal Assays:

Copper	282 Samples
Zinc	144 "
Tin	144 "
Phosphorus	144 "
Nickel	1 "

c) Illicit Gold Trade: S.A. Police

306 Exhibits in 171 cases were assayed.

In addition 115 samples of gold were prepared and assayed for trap purposes.

This represents an increase of 28,97%.

2. General Physical Testing.

Nickel coin blanks	100
Bronze coin blanks	7 270
Krugerrand blanks	2 554
Manufactured coins	11 050
Manufactured Krugerrand coins	1 318
Die inspection	4 916

3. Prospector's Samples

4 Samples were submitted during the year.