

P2001
Census of mining
1996

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Glossary

GOLD AND URANIUM MINES CONTRIBUTE 43,0% TO TOTAL VALUE OF MINING SALES IN 1996

According to the results of the 1996 mining census, including the former TBVC states, the total value of mining sales was R60 082,0 million, with the gold and uranium mines contributing R25 830,8 million or 43,0% and coal and lignite mines R12 669,9 million or 21,1% to the total value of mining sales.

Mines employed 563 253 workers in 1996, whereas the total value of salaries and wages paid was R17 982,1 million. The gold and uranium mines are the largest providers of employment in the mining sector with 345 797 workers, as on the last pay-day in June 1996.

The total net profit of the mining sector was R12 021,9 million for 1996. The largest contributor to the net profit of R12 021,9 million was the 'other' mines (R4 802,2 million or 39,9%), followed by gold and uranium mines (R4 243,6 million or 35,3%).

Total capital expenditure on new assets by the mining sector was R6 202,5 million in 1996, with gold and uranium mines spending R2 735,1 million or 44,1% on new assets.

EXPLANATORY NOTES

1. GENERAL

Stats SA periodically undertakes a census of mining. The last census which was undertaken was for the 1996 census year and this statistical news release contains principal statistics concerning this census.

The information shown in the tables is preliminary and relates to private establishments classified as mining concerns.

Detailed data will be published in a report (No. 20-01-01 (1996)) in due course and will be obtainable from the Government Printing Works, Pretoria or Cape Town.

2. SCOPE OF THE CENSUS

2.1 For purposes of the census, mining means -

- any activities regarding underground and surface mining, including stone, clay and sand quarries/pits, boreholes (except for water) and salt-pans, as well as all supplementary activities for the dressing and beneficiating of ores and other crude materials such as crushing, screening, washing, cleaning, grading, milling, flotation, melting, pelleting, topping and other preparations needed to render the material marketable;
- restoration, rehabilitation, reshaping, revegetating and reclaiming of areas affected by mining activities; and
- any administrative, clerical, sales, research or other activities directly related to the aforementioned activities.

2.2 The following activities are **excluded** -

- work performed on a **contract or fee basis** in the development and preparation of mining properties and sites such as drilling, shaft-sinking, tunnelling, cementation and mining construction work by outside contractors;
- the refining of gold and other minerals on a **contract or fee basis**; and
- exploration/prospecting on a **contract or fee basis**.

3. COMPARABILITY

As from 1996 the Census of Mining includes information of the former TBVC states and the results are therefore, not strictly comparable with the results of 1990 and 1993.

Information regarding employment and salaries and wages in this statistical release are obtained from a complete census of mines, whereas the information published in the statistical release Survey of Total Employment and Earnings - P0271 are based on a sample survey conducted by the Minerals Bureau.

4. CENSUS YEAR

Completed questionnaires were rendered by mining establishments in respect of their financial years which ended on any date between 1 January 1996 and 31 December 1996.

5. PARTICULARS

Details of employment were called for as at a specific day, namely the last pay-day in June 1996, while the rest of the data in this statistical news release refer to the financial year of the mining establishments.

6. ABBREVIATIONS AND SYMBOLS USED

R = rand

% = percentage

0 = nil or less than half the final figure shown

Glossary

Establishment The basic unit for the collection of information is the establishment (at a particular location). In the majority of cases, premises under the same ownership or management in which one type of mining activity is carried on, is regarded as an establishment. Premises under the same ownership or management in which two or more types of activities are carried on, are regarded as two or more establishments (branches), provided separate records are available. However, should one type of activity be relatively unimportant, it is classified under the main activity, even though separate accounting records may be available.

Enterprise An enterprise is a legal entity consisting of one or more establishments. They need not necessarily all be mining establishments, but some may be classifiable under other sectors of the economy, such as manufacturing and construction.

Employment Employment includes –

- Full-time and part-time employees.
- Permanent and temporary employees.
- Managerial and executive employees.
- Employees absent on paid or prepaid leave.
- Working proprietors and partners.

Employment excludes –

- Employees of outside contractors who are engaged in specific activities on the mine on a contract basis.
- Workers hired from an employment broker.
- Trainees and instructors of the training colleges of the Chamber of Mines.

Salaries and wages Salaries and wages include –

- Salaries of managing and working directors.
- Salaries and wages, production and incentive bonuses, overtime, commission and other allowances, as well as lump sum payments, e.g. Christmas, incentive and leave bonuses:
 - salaries and wages of employees concerned with staff auxiliary services and
 - fringe benefits paid in cash, such as housing, mortgage and rent subsidies and car allowances.
- Employers' contributions to staff funds.

Salaries and wages exclude –

- Drawings of working proprietors and partners in the case of establishments operated by private individuals and partnerships since such drawings are considered part of the establishment's profit.
- Fees paid to non-executive directors.
- Fees paid for part-time professional services.
- Payments in kind, such as meals, low interest loans, lodging and the use of company cars.
- Use of company car for own benefit.

Staff auxiliary Staff auxiliary services and payments in kind to employees include - **services**

- Use of company cars.
- Cost of services relating to hostels, cafeterias, passenger transport, sick-bays, first-aid stations (not registered hospitals), etc.
- Payments in kind, such as meals, housing, clothing (excluding protective clothing).
- Adult basic training.

Staff auxiliary services and payments in kind to employees exclude –

- Staff training.
- Use of company car for official business.

Stores consumed or Stores consumed or purchases and transfers in of materials, fuel, electricity, etc.

purchases and include - **transfers in**

- Steam, gas, water, packing materials, consumable and maintenance stores.

Income Income includes –

- Sales and transfers-out and charges for work done.
- Income from rent and hiring.
- Income from leasing.
- Mining leases.
- Royalties.
- Interest received.
- Dividends received.
- Bad debts recovered.
- Foreign exchange profit.
- Transfers from working costs reserve, abnormal costs reserve, replacement reserve and other reserves.
- Refund by the government of pumping costs.
- State assistance.
- Other income.

Sales and transfers - Sales and transfer-out and work done include -**out and work done**

- Sales of goods whether or not mined by this establishment.
- Export sales.
- Sales and transfers-out (even of partially completed goods) to related establishments and/or to overseas branches of this establishment.
- For long-term contracts include progress payments billed.
- Delivery and/or installation charges not separately invoiced to customers.

Sales and transfer-out and work done exclude –

- Value-added tax (VAT).
- Net profit/loss on sales of fixed assets.
- Export freight charges.
- Income from rent, leasing and hiring.
- Interest received.

Opening value of Opening value of fixed assets is the book value of fixed assets at the beginning of the **fixed assets** financial year.

Capital expen- Capital expenditure on new assets is expenditure on the erection of new buildings and works;

diture on new additions to and alterations of existing buildings and works; works in progress capitalised;

assets new plant and machinery and used plant and machinery, if imported by or on behalf of the establishment, and paid to outside contractors/concerns or which was done by the establishment itself.

Table 1 - Employment, salaries and wages according to type of mine

Type of mine	Employment			Salaries and wages		
	1990	1993	1996 ^{1/}	1990	1993	1996 ^{1/}
	Number			R million		
Coal and lignite	76,324	61,718	62,956	1,468.2	2,317.7	2,768.2
Gold and uranium	477,147	366,264	345,797	5,698.8	7,835.4	9,571.9
Chrome	8,363	4,575	6,291	108.8	125.7	196.0
Dimension stone	3,463	2,226	3,990	38.1	40.1	93.7
Limestone and lime works	2,874	2,810	3,255	59.5	99.7	152.7
Stone crushing	6,047	4,422	4,972	94.6	126.9	176.6
Other stone, clay and sand	2,205	3,375	3,862	29.1	62.3	120.0
Salt, other chemicals and fertilizers	4,496	3,245	2,915	99.1	122.2	111.3
Other mines	95,461	91,201	129,215	1,713.8	2,680.3	4,791.7
All mines	676,380	539,836	563,253	9,310.0	13,410.3	17,982.1

^{1/} Including information of the former TBVC states

Table 2 - Income and net profit according to type of mine

Type of mine	Total income			Net profit / loss		
	1990	1993	1996 ^{1/}	1990	1993	1996 ^{1/}
	R million			R million		
Coal and lignite	7,610.1	10,029.4	13,508.5	1,347.4	1,433.6	2,570.1
Gold and uranium	21,118.3	22,911.5	28,250.6	5,548.3	4,177.4	4,243.6
Chrome	533.0	578.5	871.7	75.8	-0.1	116.7
Dimension stone	230.0	237.3	554.6	6.9	-3.9	41.0
Limestone and lime works	386.7	533.4	751.6	59.8	79.7	92.9
Stone crushing	563.3	627.6	1,023.8	54.3	46.3	53.3
Other stone, clay and sand	169.0	281.5	606.9	9.5	16.2	77.0
Salt, other chemicals and fertilizers	922.6	791.8	1,119.1	182.9	-30.9	25.1
Other mines	10,523.0	11,650.0	23,360.1	3,398.1	1,999.0	4,802.2
All mines	42,056.0	47,641.0	70,046.9	10,683.0	7,717.3	12,021.9

^{1/} Including information of the former TBVC states

Table 3 - Stores consumed or purchases and transfers-in and sales, transfers-out and work done according to type of mine

Type of mine	Stores consumed or purchases and transfers-in of material, fuel ,electricity etc			Sales and transfers-out and work done		
	1990	1993	1996 ^{1/}	1990	1993	1996 ^{1/}
	R million			R million		
Coal and lignite	2,080.1	2,876.5	3,747.6	6,710.1	9,253.2	12,669.9
Gold and uranium	6,069.1	7,215.9	8,882.9	19,589.2	21,627.5	25,830.8
Chrome	112.4	106.1	183.3	464.7	403.5	778.0
Dimension stone	50.4	37.8	129.2	193.2	175.4	469.1
Limestone and lime works	167.0	184.3	266.8	340.9	461.6	668.5
Stone crushing	165.6	190.4	321.4	478.8	531.3	876.6
Other stone, clay and sand	33.6	75.8	130.2	143.1	242.3	534.6
Salt, other chemicals and fertilizers	123.2	181.9	281.5	696.4	588.0	706.6
Other mines	2,537.9	3,020.0	4,556.8	8,340.0	8,841.9	17,547.9
All mines	11,339.3	13,888.7	18,499.7	36,956.4	42,124.7	60,082.0

^{1/} Including information of the former TBVC states

Table 4 - Opening value of fixed assets and capital expenditure on new assets according to type of mine

Type of mine	Opening value of fixed assets			Capital expenditure on new assets		
	1990	1993	1996 ^{1/}	1990	1993	1996 ^{1/}
	R million			R million		
Coal and lignite	6,117.2	8,826.3	8,266.4	979.6	871.1	1,112.1
Gold and uranium	19,732.4	31,193.4	38,650.6	1,837.2	1,726.7	2,735.1
Chrome	217.5	395.0	285.9	43.6	13.9	257.2
Dimension stone	65.8	134.3	225.9	24.1	6.1	8.7
Limestone and lime works	303.6	810.4	675.4	48.6	29.3	97.8
Stone crushing	264.1	477.2	326.1	49.6	18.8	43.0
Other stone, clay and sand	80.4	152.7	216.5	5.1	13.3	53.5
Salt, other chemicals and fertilizers	320.3	374.2	343.1	70.8	12.2	71.3
Other mines	3,896.8	7,604.6	12,646.5	1,874.6	1,599.0	1,823.7
All mines	30,998.1	49,968.1	61,636.4	4,933.2	4,290.4	6,202.4

^{1/} Including information of the former TBVC states

Table 5 - Principal statistics 1984 to 1996

1996								
Years	Number of mines	Salaries and wages	Stores consumed or purchases and transfers-in	Income		Net profit / loss	Opening value of fixed assets	Capital expenditure on new assets
				Total income	Sales and transfers-out and work done			
R'000								
COAL AND LIGNITE								
1984	76	567,505	886,047	2,634,228	2,439,834	491,966	2,851,009	414,330
1987	98	906,315	1,730,101	5,087,234	4,668,589	750,261	4,563,135	573,321
1990	81	1,468,244	2,080,062	7,610,056	6,710,100	1,347,446	6,117,248	979,599
1993	77	2,317,695	2,876,459	10,029,375	9,253,208	1,433,566	8,826,337	871,193
1996 ^{1/}	64	2,768,221	3,747,581	13,508,566	12,669,940	2,570,160	8,266,368	1,112,146
GOLD AND URANIUM								
1984	71	2,845,716	3,027,879	12,247,062	11,061,187	4,557,519	10,000,472	1,726,836
1987	80	4,335,206	4,814,495	19,413,491	18,268,365	6,977,805	15,960,439	2,681,297
1990	80	5,698,830	6,069,142	21,146,375	19,589,241	5,548,335	19,732,364	1,837,151
1993	68	7,835,441	7,215,888	22,911,530	21,627,456	4,177,446	31,193,435	1,726,737
1996 ^{1/}	53	9,571,880	8,882,853	28,250,592	25,830,772	4,243,565	38,650,575	2,735,090
ALL OTHER MINES								
1984	588	716,155	1,009,695	4,163,052	3,277,160	637,482	2,784,239	375,515
1987	632	970,071	1,635,447	6,801,512	5,333,198	1,865,161	2,711,005	619,247
1990	763	2,143,087	3,190,126	13,327,403	10,657,105	3,787,191	5,148,550	2,116,440
1993	698	3,257,507	3,796,577	14,700,093	11,243,944	2,106,235	9,948,384	1,692,701
1996 ^{1/}	643	5,642,041	5,869,235	28,287,746	21,581,330	5,208,240	14,719,371	2,355,245
ALL MINES								
1984	735	4,129,376	4,923,621	19,044,342	16,778,181	5,686,967	15,635,720	2,516,681
1987	810	6,211,592	8,180,043	31,302,237	28,270,152	9,593,227	23,234,579	3,873,865
1990	924	9,310,161	11,339,330	42,083,834	36,956,446	10,682,972	30,998,162	4,933,190
1993	843	13,410,643	13,888,924	47,640,998	42,124,608	7,717,247	49,968,156	4,290,631
1996 ^{1/}	760	17,982,142	18,499,669	70,046,904	60,082,042	12,021,965	61,636,314	6,202,481

^{1/} Including information of the former TBVC states

**Table 6 - Employment and employees' remuneration according to type of mine
1996**

Type of mine	Number of completed questionnaires received	Employment			Employees' remuneration	
		Working proprietors and unpaid family assistants	Paid employees	Employees from outside contractors and/or employment brokers	Salaries and wages	Net expenditure on staff auxiliary services and payments in kind
		Number			R'000	
Coal and lignite	64	0	62,956	5,593	2,768,221	172,619
Gold and uranium	53	0	345,797	24,038	9,571,880	654,287
Iron	10	0	7,564	193	460,633	32,718
Chrome	14	0	6,291	318	195,999	17,803
Platinum	10	0	91,216	28	3,011,417	67,659
Other metals	14	0	11,093	53	516,548	12,867
Dimension stone	39	2	3,990	0	93,701	2,236
Limestone and lime works	35	0	3,255	30	152,734	9,607
Stone crushing	142	18	4,972	25	176,579	3,065
Other stone, clay and sand	187	48	3,862	53	120,048	1,126
Salt, other chemicals and fertilizers	54	12	2,915	17	111,287	13,926
Precious and semi-precious stones	13	10	41	2	165	0
Other minerals	19	1	2,305	0	52,747	4,213
Other non-metallic	106	28	16,996	1,256	750,183	66,917
All mines	760	119	563,253	31,606	17,982,142	1,059,043

**Table 7 - Selected income statement items according to type of mine : Debits - Working cost account
1996**

Type of mine	Value of opening stocks	Stores consumed or purchases and transfers in	Payments for work done	Salaries and wages	Rent paid	Interest paid	Depreciation	Balance (profit)	Total debits
R'000									
Coal and lignite	375,605	3,736,762	689,149	2,767,995	48,433	127,917	473,446	2,728,896	13,508,566
Gold and uranium	1,515,326	8,366,895	1,171,569	9,442,300	14,129	153,838	147,847	4,697,373	28,250,592
Iron	372,592	580,494	85,357	459,113	2,986	119,500	122,769	1,022,765	3,105,292
Chrome	65,583	183,349	51,850	195,999	1,113	3,734	23,374	118,379	871,696
Platinum	586,106	2,334,033	975,764	2,960,800	208,316	118,192	69,973	1,112,827	9,288,234
Other metals	462,968	853,434	292,296	516,143	4,109	18,848	106,917	1,001,054	4,243,855
Dimension stone	47,919	129,191	4,581	93,701	13,382	8,152	26,372	48,496	554,607
Limestone and lime works	46,025	266,815	4,142	152,734	1,476	6,924	41,317	99,935	751,634
Stone crushing	50,476	321,443	24,183	176,579	15,345	15,927	36,979	114,065	1,023,750
Other stone, clay and sand	21,579	130,193	28,362	119,268	11,171	12,778	42,845	94,953	606,888
Salt, other chemicals and fertilizers	421,878	281,466	31,159	111,287	3,299	37,960	37,102	28,137	1,119,114
Precious and semi-precious stones	60	44	156	165	0	40	6	358	1,050
Other minerals	21,561	38,937	1,509	52,331	370	2,607	3,286	6,879	184,770
Other non-metallic	1,632,610	534,849	201,350	730,754	5,546	8,284	93,468	1,924,434	6,536,856
All mines	5,620,288	17,757,905	3,561,427	17,779,169	329,675	634,701	1,225,701	12,998,551	70,046,904

**Table 8 - Selected income statement items according to type of mine : Debits - Capital account
1996**

Type of mine	Value of opening stocks	Stores consumed or purchases and transfers-in	Salaries and wages	Rent paid	Interest paid	Depreciation	Total debits
	R'000						
Coal and lignite	0	10,819	225	21,050	0	13,993	46,088
Gold and uranium	45,512	515,958	129,580	115,393	0	0	1,266,272
Iron	0	3,155	1,520	0	0	0	4,675
Chrome	0	0	0	0	0	0	0
Platinum	25,221	123,008	50,617	0	0	0	240,152
Other metals	0	4,842	405	20	0	0	14,143
Dimension stone	0	0	0	0	0	0	170
Limestone and lime works	0	0	0	0	0	0	31
Stone crushing	0	0	0	0	0	0	0
Other stone, clay and sand	0	0	780	130	0	0	1,076
Salt, other chemicals and fertilizers	0	0	0	0	0	0	0
Precious and semi-precious stones	0	0	0	0	0	0	0
Other minerals	0	844	415	0	0	0	1,602
Other non-metallic	0	83,138	19,429	272	0	0	134,537
All mines	70,733	741,764	202,971	136,865	0	13,993	1,708,746

Table 9 - Selected income statement items according to type of mine : Credits
1996

Type of mine	Value of closing stocks	Sales and transfers-out	Rent received	Interest received	Balance (loss)	Total credits
	R'000					
Coal and lignite	403,347	12,669,940	19,462	100,522	158,736	13,508,566
Gold and uranium	1,142,317	25,830,772	32,481	442,611	453,808	28,250,592
Iron	435,400	2,540,894	11,049	880	24,557	3,105,292
Chrome	74,556	777,968	881	4,762	1,637	871,696
Platinum	453,399	8,326,590	1,385	151,791	14,495	9,288,234
Other metals	528,768	3,180,334	1,738	39,227	164,815	4,243,855
Dimension stone	57,632	469,098	142	459	7,518	554,607
Limestone and lime works	56,882	668,528	839	10,042	7,032	751,634
Stone crushing	51,375	876,621	5,281	1,784	60,741	1,023,750
Other stone, clay and sand	18,240	534,636	657	1,675	17,972	606,888
Salt, other chemicals and fertilizers	400,787	706,627	2,409	2,526	3,021	1,119,114
Precious and semi-precious stones	77	930	0	0	29	1,050
Other minerals	22,469	132,003	428	7,508	7,672	184,770
Other non-metallic	2,016,991	3,367,101	13,784	19,402	54,554	6,536,856
All mines	5,662,240	60,082,042	90,536	783,189	976,587	70,046,904