

# Statistical release P4141

# Electricity generated and available for distribution (preliminary)

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# SUMMARY OF FINDINGS: ELECTRICITY GENERATED AND AVAILABLE FOR DISTRIBUTION (FEBRUARY 2007)

#### **Key findings**

#### Consumption of electricity increases

The estimated consumption of electricity in February 2007 increased by 5,1% (+887 Gigawatt-hours) compared with February 2006 while in 2006, the increase was reported at 1,3% for the same period (see tables 2 and 9a). The estimated volume of electricity consumed (available for distribution) for the three months ending February 2007 increased by 4,6% (+2 494 Gigawatt-hours) compared with the corresponding three months ending February 2006 (see table C). The estimated consumption of electricity for the first two months of 2007 increased by 5,1% (+1 827 Gigawatt-hours) compared with the same period of 2006 (see tables A and 9b). Electricity consumption after seasonal adjustment for February 2007 remained on a similar level as January 2007 (see tables A and 3).

#### **Production of electricity increases**

The estimated production of electricity in February 2007 increased by 3,5% (+665 Gigawatt-hours) compared with February 2006 (see table 9a). Electricity production by Eskom increased by 3,8% (+693 Gigawatt-hours) in February 2007 compared with February 2006 (see table 9a). The estimated production of electricity for the three months ending February 2007 increased by 3,5% (+2 073 Gigawatt-hours) compared with the corresponding three months ending February 2006 (see table C). Furthermore, the estimated production of electricity, after seasonal adjustment, decreased by 0,2% for February 2007 compared to the previous month (see table A).

#### Distribution of electricity by Eskom to the provinces increases

Consumption of electricity in the provinces do not all follow the same trend of increase as depicted for South Africa. Increases year on year were reported for the Eastern Cape (+24,2% or +295 Gigawatt-hours), Northern Cape (+19,1% or +139 Gigawatt-hours), Gauteng (+9,6% or +821 Gigawatt-hours), Mpumalanga (+8,4% or +418 Gigawatt-hours), and the Western Cape (+6,1% or +217 Gigawatt-hours). However, less electricity was distributed to KwaZulu-Natal (-2,2% or -154 Gigawatt-hours) and Limpopo province (-6,2% or -119 gigawatt-hours). (See table 10).

#### **Key figures**

Table A - Selected key figures regarding electricity generated and available for distribution for February 2007

Estimates	February 2007	% change between February 2006 and February 2007	% change between December 2005 to February 2006 and December 2006 to February 2007	% change between January to February 2006 and January to February 2007
Electricity available for distribution (Gigawatt-hours)	18 283	+5,1	+4,6	+5,1
Index of the physical volume of electricity production (2005=100)	97,2	+3,4	+3,4	+3,8

Seasonally adjusted estimates	February 2007	% change between January and February 2007	% change between September to November 2006 and December 2006 to February 2007
Electricity available for distribution (Gigawatt-hours)	19 811	-0,0	+1,8
Index of the physical volume of electricity production (2005=100)	106,1	-0,2	+1,7

Table B - Percentage change in the seasonally adjusted quantity of electricity generated and available for distribution between the current quarter and the previous quarter

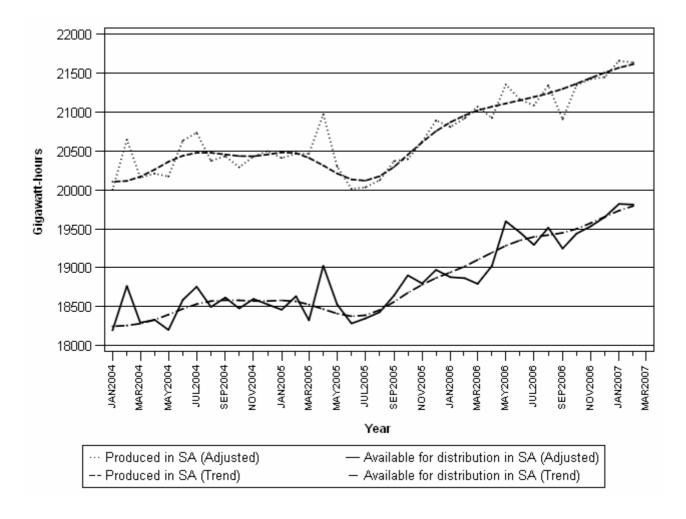
Gigawatt-hours	Seasonally adjusted quantity September to November 2006	Seasonally adjusted quantity December 2006 to February 2007	% change between September to November 2006 and December 2006 to February 2007	Quantity difference between September to November 2006 and December 2006 to February 2007
Electricity produced	+63 674	+64 738	+1,7	+1 064
Electricity available for distribution in South Africa	+58 216	+59 279	+1,8	+1 063

Table C - Percentage change between the current quarter and the corresponding quarter of the previous year

Gigawatt-hours	Actual quantity December 2005 to February 2006	Actual quantity December 2006 to February 2007	% change between December 2005 to February 2006 and December 2006 to February 2007	Quantity difference between December 2005 to February 2006 and December 2006 to February 2007
Electricity produced	59 583	61 656	+3,5	+2 073
Purchased outside South Africa (import)	2 355	2 990	+27,0	+635
Consumed in Power stations and auxiliary systems	4 447	4 602	+3,5	+155
Sold outside South Africa (export)	3 261	3 322	+1,9	+61
Electricity available for distribution in South Africa	54 229	56 723	+4,6	+2 494

Figure 1 below shows the seasonally adjusted and trend patterns for electricity produced and available for distribution in South Africa between January 2004 and February 2007. There was a gradual upward movement in the trend cycles from the beginning of the period until July 2004. From July 2004 up until February 2005 the trend cycles moved sideways, followed by a declining trend in electricity production between March and July of 2005. From August 2005 to February 2007 the trend moved upwards.

Figure 1 - Electricity produced and available for distribution in South Africa from 2004 to 2007



P J Lehohla Statistician-General

#### **Detailed results: Tables**

Table 1 - Total volume of electricity available for distribution in South Africa: 2002 to 2007

	2002	2003	2004	2005	2006	2007
January	16 191	17 095	17 850	18 149	18 603	19 543
February	15 215	16 168	17 277	17 169	17 396	1/ 18 283
March	16 552	17 655	18 476	18 487	18 982	
April	16 362	16 905	17 524	18 133	18 122	
Мау	17 852	18 159	18 909	19 224	20 312	
June	18 017	18 330	19 337	18 983	20 166	
July	18 956	19 183	20 156	19 657	20 632	
August	18 064	18 714	19 265	19 191	20 307	
September	17 125	17 526	18 362	18 384	18 987	
October	17 741	18 480	18 714	19 127	19 663	
November	17 233	17 790	18 314	18 523	19 244	
December	16 712	17 456	17 754	18 230	18 897	
Year	206 020	213 461	221 938	223 257	231 311	

<sup>1/</sup> Preliminary.

Table 2 - Percentage change in electricity available for distribution in South Africa: 2002 to 2007

		Percentage								
	2002	2003	2004	2005	2006	2007				
January	+0,8	+5,6	+4,4	+1,7	+2,5	+5,1				
February	+2,3	+6,3	+6,9	-0,6	+1,3	+5,1				
March	+1,4	+6,7	+4,7	+0,1	+2,7					
April	+5,5	+3,3	+3,7	+3,5	-0,1					
May	+5,5	+1,7	+4,1	+1,7	+5,7					
June	+7,3	+1,7	+5,5	-1,8	+6,2					
July	+5,2	+1,2	+5,1	-2,5	+5,0					
August	+4,4	+3,6	+2,9	-0,4	+5,8					
September	+5,2	+2,3	+4,8	+0,1	+3,3					
October	+5,6	+4,2	+1,3	+2,2	+2,8					
November	+8,0	+3,2	+2,9	+1,1	+3,9					
December	+9,8	+4,5	+1,7	+2,7	+3,7					
Year	+5,1	+3,6	+4,0	+0,6	+3,6					

Table 3 - Seasonally adjusted total volume of electricity available for distribution in South Africa: 2002 to 2007

		Gigawatt-hours								
	2002	2003	2004	2005	2006	2007	% change between current and previous month			
January	16 519	17 438	18 196	18 460	18 879	19 819	+0,9			
February	16 566	17 609	18 765	18 634	18 866	19 811	-0,0			
March	16 427	17 522	18 294	18 324	18 793					
April	17 066	17 677	18 331	19 025	19 023					
Мау	17 171	17 473	18 201	18 528	19 596					
June	17 310	17 604	18 586	18 284	19 452					
July	17 608	17 833	18 756	18 348	19 293					
August	17 290	17 944	18 496	18 429	19 514					
September	17 314	17 779	18 617	18 642	19 246					
October	17 463	18 239	18 477	18 902	19 437					
November	17 503	18 076	18 599	18 798	19 533					
December	17 617	18 325	18 530	18 972	19 649					

Table 4 - Indices of the physical volume of electricity production: 2002 to 2007

			Base	: 2005=100		
	2002	2003	2004	2005	2006	2007
January	84,7	89,6	95,5	97,6	99,8	103,9
February	79,0	84,7	92,2	91,7	94,0	1/ 97,2
March	85,7	92,9	98,7	100,2	103,3	
April	85,1	90,1	94,7	98,1	98,0	
Мау	94,1	97,2	102,4	102,9	108,1	
June	94,8	98,5	105,0	101,6	107,3	
July	99,4	102,5	109,5	105,5	110,8	
August	94,5	102,4	104,3	103,0	109,1	
September	90,3	97,0	99,5	99,1	101,8	
October	94,3	102,2	102,1	102,5	107,2	
November	91,5	96,4	98,5	99,4	103,3	
December	87,4	94,0	96,0	98,2	100,9	
Year	90,1	95,6	99,9	100,0	103,6	

<sup>1/</sup> Preliminary.

Table 5 - Percentage change in indices of the physical volume of electricity production: 2002 to 2007

	2002	2003	2004	2005	2006	2007
January	-0,1	+5,8	+6,6	+2,2	+2,3	+4,1
February	+1,9	+7,2	+8,9	-0,5	+2,5	+3,4
March	+1,2	+8,4	+6,2	+1,5	+3,1	
April	+5,7	+5,9	+5,1	+3,6	-0,1	
May	+6,2	+3,3	+5,3	+0,5	+5,1	
June	+9,0	+3,9	+6,6	-3,2	+5,6	
July	+4,0	+3,1	+6,8	-3,7	+5,0	
August	+1,7	+8,4	+1,9	-1,2	+5,9	
September	+4,5	+7,4	+2,6	-0,4	+2,7	
October	+6,7	+8,4	-0,1	+0,4	+4,6	
November	+9,2	+5,4	+2,2	+0,9	+3,9	
December	+10,4	+7,6	+2,1	+2,3	+2,7	
Year	+5,0	+6,2	+4,4	+0,1	+3,7	

The percentage change is the change in the index of the physical volume of electricity production of the relevant year compared with the index of the physical volume of electricity production of the previous year expressed as a percentage.

Table 6 - Seasonally adjusted indices of the physical volume of electricity production: 2002 to 2007

		Base : 2005=100									
	2002	2003	2004	2005	2006	2007	% change between current and previous month				
January	86,8	92,0	98,1	100,1	102,2	106,3	+1,1				
February	86,8	93,0	101,1	100,2	102,6	106,1	-0,2				
March	85,8	93,1	98,8	100,2	103,3						
April	89,3	94,4	99,1	102,8	102,8						
Мау	90,6	93,6	98,7	99,3	104,4						
June	90,9	94,5	100,9	97,8	103,3						
July	91,8	94,8	101,6	98,2	103,2						
August	90,1	97,9	99,7	98,6	104,4						
September	90,7	97,7	100,3	100,1	102,8						
October	91,6	99,4	99,4	99,9	104,5	_					
November	93,0	97,9	100,1	101,0	105,0	-					
December	92,6	99,0	100,5	102,4	105,1						

Table 7 - Total volume of electricity imported: 2002 to 2007

Month			Gigaw	att-hours		
	2002	2003	2004	2005	2006	2007
January	670	705	828	729	872	1 086
February	643	637	811	714	646	1/ 939
March	783	706	863	533	581	
April	733	547	641	598	587	
Мау	658	569	547	849	879	
June	704	518	560	813	881	
July	702	792	607	856	926	
August	721	424	618	883	930	
September	637	266	590	686	971	
October	454	272	536	836	682	
November	477	583	746	865	862	
December	691	720	679	837	965	
Year	7 873	6 739	8 026	9 199	9 782	

<sup>1/</sup> Preliminary.

Table 8 - Total volume of electricity exported: 2002 to 2007

Month	Gigawatt-hours									
	2002	2002 2003		2005	2006	2007				
January	558	578	1 037	1 030	1 056	1 133				
February	478	508	977	901	1 050	1/ 1 060				
March	529	607	1 027	968	1 129					
April	525	619	951	991	1 017					
May	578	805	944	1 083	1 046					
June	601	798	1 057	1 096	1 102					
July	614	944	1 140	1 102	1 239					
August	605	1 030	1 049	1 144	1 262					
September	628	1 051	1 048	1 134	1 239					
October	626	1 116	1 112	1 161	1 311					
November	600	1 025	1 082	1 119	1 186					
December	608	1 055	1 029	1 155	1 129					
Year	6 950	10 136	12 453	12 884	13 766					

<sup>1/</sup> Preliminary.

Table 9a - Electricity produced and consumed in power stations, purchased and sold outside South Africa and available for distribution in South Africa

		Gigawatt-hours							
		February 2006	January 2007	February 2007	% Change between February 2006 and February 2007	Difference between February 2006 and February 2007			
Total - All producers	Electricity produced	19 180	21 215	19 845	+3,5	+665			
	Purchased outside South Africa (import)	646	1 086	939	+45,4	+293			
	Consumed in power stations and auxiliary systems	1 380	1 625	1 442	+4,5	+62			
	Sold outside South Africa (export)	1 050	1 133	1 060	+1,0	+10			
	Electricity available for distribution in South Africa	17 396	19 543	18 283	+5,1	+887			
ESKOM	Electricity produced	18 446	20 413	19 139	+3,8	+693			
	Purchased outside South Africa (import)	646	1 086	939	+45,4	+293			
	Consumed in power stations and auxiliary systems	1 297	1 532	1 374	+5,9	+77			
	Sold outside South Africa (export)	1 050	1 133	1 060	+1,0	+10			
	Electricity available for distribution in South Africa	16 745	18 833	17 645	+5,4	+900			

Table 9b - Electricity produced and consumed in power stations, purchased and sold outside South Africa and available for distribution in South Africa (concluded)

		Gigawatt-hours						
		January to February 2006	January to February 2007	% Change between January to February 2006 and January to February 2007	Difference between January to February 2006 and January to February 2007			
Total - All	Electricity produced	39 543	41 060	+3,8	+1 517			
producers	Purchased outside South Africa (import)	1 518	2 025	+33,4	+507			
	Consumed in power stations and auxiliary systems	2 955	3 067	+3,8	+112			
	Sold outside South Africa (export)	2 106	2 193	+4,1	+87			
	Electricity available for distribution in South Africa	35 999	37 826	+5,1	+1 827			
ESKOM	Electricity produced	37 961	39 552	+4,2	+1 591			
	Purchased outside South Africa (import)	1 518	2 025	+33,4	+507			
	Consumed in power stations and auxiliary systems	2 793	2 906	+4,0	+113			
	Sold outside South Africa (export)	2 106	2 193	+4,1	+87			
	Electricity available for distribution in South Africa	34 580	36 478	+5,5	+1 898			

Table 10 - Electricity distributed by Eskom by province for 2006 and 2007 1/

		Gigawatt-hours										
		Western Cape	Eastern Cape	Northern Cape	Free State	KwaZulu- Natal	North West	Gauteng	Mpuma- langa	Limpopo	Total South Africa	
2006	January	1 852	626	388	712	3 611	2 073	4 442	2 635	904	17 242	
	February	1 703	595	339	721	3 410	1 934	4 129	2 343	1 023	16 197	
	March	1 879	639	394	740	3 747	2 019	4 690	2 684	890	17 682	
	April	1 809	591	357	730	3 572	1 904	4 514	2 550	874	16 901	
	Мау	1 906	665	374	809	3 826	2 082	5 525	2 784	955	18 925	
	June	1 832	670	363	732	3 870	2 093	5 476	2 648	964	18 647	
	July	1 946	788	399	810	3 657	2 151	5 707	2 661	998	19 116	
	August	1 939	780	391	826	3 563	2 103	5 605	2 560	1 000	18 767	
	September	1 828	753	409	736	3 456	1 963	4 963	2 487	993	17 588	
	October	1 909	769	435	786	3 590	2 079	5 045	2 644	1 037	18 294	
	November	1 867	745	439	762	3 443	1 982	4 965	2 687	958	17 848	
	December	1 912	640	439	777	3 429	2 036	4 667	2 705	924	17 529	
	Year	22 382	8 261	4 727	9 141	43 174	24 419	59 728	31 388	11 520	214 736	
2007	January	1 955	770	456	780	3 541	2 168	4 809	2 835	930	18 244	
	February 2/	1 817	746	410	718	3 326	2 074	4 583	2 561	878	17 113	
	Year to date	3 772	1 516	866	1 498	6 867	4 242	9 392	5 396	1 808	35 357	

 $<sup>\</sup>ensuremath{\text{1/}}$  Wholesale energy as delivered by Eskom to the various provinces.

<sup>2/</sup> Preliminary.

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#### **Explanatory notes**

1

#### Introduction

Statistics South Africa (Stats SA) conducts a monthly sample survey of the electricity industry covering electricity undertakings and establishments (branches). This statistical release contains information regarding the number of electricity units generated and available for distribution in South Africa, the number of units purchased and sold outside South Africa and the number of units distributed by Eskom by province on a monthly basis. Both actual and seasonally adjusted figures are published.

- This statistical release reflects indices of the physical volume of electricity production on the basis of 2005=100. In accordance with international practice, the indices have to be rebased every five years to a new base year.
- In order to improve timeliness of the publication, some information for the current month may have been estimated due to late submission by respondents. These estimates will be revised in the next statistical release(s) as soon as actual information is available.

# Purpose of the 4 survey

The results of the monthly electricity generated and available for distribution survey are used to compile estimates of the Gross Domestic Product (GDP) and its components, which are used in monitoring the state of the economy and formulation of economic policy.

# Scope of the 5 survey

This survey covers electricity undertakings and establishments conducting activities concerned with the generation or transmission and distribution of electricity, including electrical power installations, which, as subsidiary divisions of undertakings, produce electricity for regular use by these undertakings.

#### Classification 6

The 1993 edition of the *Standard Industrial Classification of all Economic Activities* (*SIC*), Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 *International Standard Industrial Classification of all Economic Activities* (*ISIC*) with suitable adaptations for local conditions. Each statistical unit is classified to an industry, which reflects the predominant activity of the electricity undertaking or establishment.

#### Response rate 7

The response rate for the survey on electricity generated and available for distribution for February 2007 was 99%.

#### Statistical unit 8

9

The basic statistical unit for the collection of information is the electricity undertaking or establishment. The electricity undertaking or establishment is the smallest economic unit that functions as a separate entity. Each statistical unit is classified to an industry (see paragraph 5).

#### Survey methodology and design

All statistical units are stratified by type of economic activity according to the *Standard Industrial Classification of all Economic Activities (SIC)* and measure of size, where measure of size is the volume of electricity generated by the electricity undertaking or establishment. All large undertakings or establishments (size category one cases) are completely enumerated. A sample is drawn from medium and small size undertakings and establishments by systematically selecting undertakings or establishments within each size category. An electricity undertaking or establishment with a total generating capacity of less than 500 kilowatt is excluded from the sample.

The survey is conducted by mail each month collecting information from a sample of 22 electricity undertakings or establishments.

# Monthly production indices

11

The calculation of the monthly production indices is based on the number of electricity units produced.

#### Benchmarking 12

The index of physical volume of electricity production should provide an accurate reflection of the trend of activities of the relevant industry. The level of activities as measured by the monthly electricity generated and available for distribution survey is based on information received from a sample of electricity undertakings and establishments, which are weighted according to the original sample, designed in order to represent the population of electricity undertakings and establishments. It is necessary to adjust the level of activities as measured by the monthly sample survey to the level of activities as measured periodically by the Census of electricity, gas and steam. This procedure, whereby the latest results of an economic census are used to compile more accurate level estimates for a certain year, is known as benchmarking.

The results of the 1995 Census of electricity, gas and steam served as benchmarks to verify or adjust the level of the monthly physical volume of electricity production indices collected through the monthly sample survey. The level adjustments were done on the volume indices for July of the relevant census year (the 1995 census year covered the period 1 January 1995 to 31 December 1995 and therefore, the benchmarking was done using the index of July 1995 as reference point).

# Seasonal adjustment

14

Seasonally adjusted estimates of all items are generated each month, using the X-11 Seasonal Adjustment Program developed by US Bureau of the Census Economic Research and Analyses Division, 1968. Seasonal adjustment is a means of removing the estimated effects of normal seasonal variation from the series so that the effects of other influences on the series can be more clearly recognised. Seasonal adjustment does not aim to remove irregular or non-seasonal influences, which may be present in any particular month. Influences that are volatile or unsystematic can still make it difficult to interpret the movement of the series even after adjustment for seasonal variations. This means the month-to-month movements of seasonally adjusted estimates may not be reliable indicators of trend behavior.

#### Trend cycle

15

The trend is the long-term pattern or movement of a time series. The X-11 Seasonal Adjustment Program is used for smoothing seasonally adjusted estimates.

# Related publications

16

Users may also wish to refer to the following publications which are available from Stats SA -

- Bulletin of Statistics.
- SA Statistics.

# Unpublished statistics

17

In some cases Stats SA can also make available statistics, which are not published. The statistics can be made available as computer printouts, on diskette or CD. Generally a charge is made for providing unpublished statistics.

# Rounding-off figures

18

The figures in the tables have, where necessary, been rounded off to the nearest digit shown. There may, therefore, be slight discrepancies between the sums of the constituent items and the totals shown.

# Pre-release policy

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Stats SA pre-release policy may be inspected at its website, www.statssa.gov.za.

#### **Glossary**

**Electricity undertaking** 

An electricity undertaking is an undertaking concerned with the generation or transmission and distribution of electricity, including electrical power installations, which as subsidiary divisions of undertakings produce electricity for regular use by these undertakings.

Index of physical volume of electricity production

A statistical measure of the change in the volume of production of electricity in a given period and the volume of production of electricity in the base period. The base period is 2005. The production in the base period is set at 100.

Industry

An industry consists of a group of undertakings or establishments engaged in the same or similar kinds of economic activity. Industries are defined in the 1993 System of National Accounts (1993 SNA) in the same way as in the Standard Industrial Classification of all Economic Activities (SIC), Fifth Edition, Report No. 09-90-02.

Unit of electricity

One gigawatt-hour of electricity is equal to one million kilowatt-hours. A kilowatt-hour is the basic unit of electrical energy equal to one kilowatt of power supplied to or taken from an electric circuit steadily for one hour. One kilowatt-hour equals one thousand watt-hours.

Symbols and abbreviations

GDP Gross Domestic Product

ISIC International Standard Industrial Classification

SIC Standard Industrial Classification of all Economic Activities

Stats SA Statistics South Africa
\* Revised figures

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#### General information

Stats SA publishes approximately 300 different statistical releases each year. It is not economically viable to produce them in more than one of South Africa's eleven official languages. Since the releases are used extensively, not only locally but also by international economic and social-scientific communities, Stats SA releases are published in English only.

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A complete set of Stats SA publications is available at the Stats SA Library and the following libraries:

National Library of South Africa, Pretoria Division National Library of South Africa, Cape Town Division Natal Society Library, Pietermaritzburg Library of Parliament, Cape Town Bloemfontein Public Library Johannesburg Public Library Eastern Cape Library Services, King William's Town Central Regional Library, Polokwane Central Reference Library, Nelspruit Central Reference Collection, Kimberley Central Reference Library, Mmabatho

Stats SA also provides a subscription service.

#### **Electronic services**

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#### **General enquiries**

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email: gerdab@statssa.gov.za (technical enquiries)

nicolaic@statssa.gov.za (technical enquiries) info@statssa.gov.za (user information services)

distribution@statssa.gov.za (orders)

Postal address: Private Bag X44, Pretoria, 0001

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