

# Statistical release

# Electricity generated and available for distribution (Preliminary)

March 2010

Embargoed until: 6 May 2010 13:00

Forthcoming issue:	Expected release date:
April 2010	3 June 2010

Statistics South Africa • Mbalo-mbalo ya Afrika Tshipembe • Tinhlayo-tiko ta Afrika-Dzonga • Dipalopalo tsa Afrika Borwa • Ubalo lwaseMzantsi Afrika • Telubalo eNingizimu Afrika • iNanimbalo leSewula Afrika • Statistiek Suid-Afrika

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## SUMMARY OF FINDINGS: ELECTRICITY GENERATED AND AVAILABLE FOR DISTRIBUTION (MARCH 2010)

#### **Key figures**

Table A – Selected key figures regarding electricity generated and available for distribution for March 2010

Actual estimates	March 2010 1/	% change between March 2009 and March 2010	% change between January to March 2009 and January to March 2010	
Electricity available for distribution (Gigawatt-hours)	20 186	8,0	8,2	
Index of the physical volume of electricity production (2005=100)	107,4	8,1	8,7	

#### 1/ Preliminary.

Seasonally adjusted estimates	March 2010	% change between February and March 2010	% change between October to December 2009 and January to March 2010
Electricity available for distribution			
(Gigawatt-hours)	20 169	1,5	1,5
Index of the physical volume of electricity			
production (2005=100)	107,3	1,2	2,3

#### **Key findings**

#### Consumption of electricity

The actual estimated volume of electricity consumed in March 2010 increased by 8,0% (1 492 Gigawatt-hours) compared with March 2009 (see Tables A, 2 and 9a). Electricity consumption for the first quarter of 2010 increased by 8,2% (4 393 Gigawatt-hours) compared with the first quarter of 2009 (see Tables A and C). Electricity consumption, after seasonal adjustment, for the first quarter of 2010 increased by 1,5% compared with the fourth quarter of 2009 (see Tables A and B).

#### **Production of electricity**

The actual estimated production of electricity in March 2010 increased by 8,1% (1 644 Gigawatt-hours) compared with March 2009 (see Tables A, 5 and 9a). The estimated production of electricity for the first quarter of 2010 increased by 8,7% (5 008 Gigawatt-hours) compared with the first quarter of 2009 (see Tables A and C). Electricity production, after seasonal adjustment, for the first quarter of 2010 increased by 2,3% compared with the fourth quarter of 2009 (see Tables A and B). The seasonally adjusted production for March 2010 was the highest since October 2008 (see Table 6).

#### Electricity delivered by Eskom to the provinces

Electricity delivered to the provinces for the first quarter of 2010 increased by 9,8% (4 865 Gigawatt-hours) compared with the first quarter of 2009. Increases were reported for all the nine provinces ranging from 1,1% for Northern Cape to 22,9% for Mpumalanga.

#### International trade in electricity

The volume of electricity purchased from outside South African borders decreased from 3 165 Gigawatt-hours in the first quarter of 2009 to 3 157 Gigawatt-hours in the first quarter of 2010, representing a decrease of 0,3% (-8 Gigawatt-hours). The volume of electricity sold to neighbouring countries in the first quarter of 2010 increased by 13,3% (422 Gigawatt-hours) compared with the first quarter of 2009 (see Table C).

Table B – Comparison of the seasonally adjusted volume of electricity generated and available for distribution between the first quarter of 2010 and the previous quarter

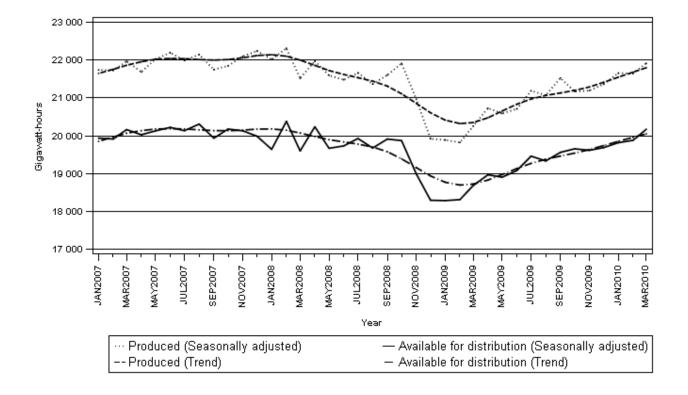
Gigawatt-hours	Seasonally adjusted quantity October to December 2009	Seasonally adjusted quantity January to March 2010	% change between October to December 2009 and January to March 2010	Quantity difference between October to December 2009 and January to March 2010
Electricity produced	63 716	65 205	2,3	1 489
Electricity available for distribution in South Africa	58 952	59 861	1,5	909

Table C – Comparison of actual estimates between the first quarter of 2010 and the first quarter of 2009

Gigawatt-hours	Actual volume January to March 2009	Actual volume January to March 2010	% change between January to March 2009 and January to March 2010	Quantity difference between January to March 2009 and January to March 2010
Electricity produced	57 724	62 732	8,7	5 008
Purchased outside South Africa (import)	3 165	3 157	-0,3	-8
Consumed in power stations and auxiliary systems	4 345	4 529	4,2	184
Sold outside South Africa (export)	3 175	3 597	13,3	422
Electricity available for distribution in South Africa	53 370	57 763	8,2	4 393

Figure 1 below shows the seasonally adjusted and trend patterns for electricity produced and available for distribution in South Africa from January 2007 to March 2010.

Figure 1 - Electricity produced and available for distribution in South Africa from 2007 to 2010



P J Lehohla Statistician-General

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

Table 1 – Total volume of electricity available for distribution in South Africa: 2005 – 2010

Month			Gigawatt-	hours		
MOIIIII	2005	2006	2007	2008	2009	2010
January	18 149	18 603	19 561	19 256	17 919	19 396
February	17 169	17 396	18 301	18 668	16 757	18 181
March	18 487	18 982	20 160	19 603	18 694	1/ 20 186
April	18 132	18 122	18 982	19 127	17 934	
May	19 224	20 312	20 901	20 365	19 548	
June	18 983	20 166	21 020	20 515	19 819	
July	19 657	20 632	21 780	21 610	21 151	
August	19 191	20 307	21 353	20 736	20 398	
September	18 383	18 987	19 732	19 725	19 382	
October	19 127	19 663	20 435	20 138	19 899	
November	18 523	19 244	19 785	18 640	19 248	
December	18 230	18 909	19 160	17 541	18 850	
Year	223 255	231 323	241 170	235 924	229 599	

<sup>1/</sup> Preliminary.

Table 2 – Annual percentage change in electricity available for distribution in South Africa: 2005 – 2010

Month			Percentage change 2/						
	2005	2006	2007	2008	2009	2010			
January	1,7	2,5	5,1	-1,6	-6,9	8,2			
February	-0,6	1,3	5,2	2,0	-10,2	8,5			
March	0,1	2,7	6,2	-2,8	-4,6	8,0			
April	3,5	-0,1	4,7	0,8	-6,2				
May	1,7	5,7	2,9	-2,6	-4,0				
June	-1,8	6,2	4,2	-2,4	-3,4				
July	-2,5	5,0	5,6	-0,8	-2,1				
August	-0,4	5,8	5,2	-2,9	-1,6				
September	0,1	3,3	3,9	-0,0	-1,7				
October	2,2	2,8	3,9	-1,5	-1,2				
November	1,1	3,9	2,8	-5,8	3,3				
December	2,7	3,7	1,3	-8,4	7,5				
Year	0,6	3,6	4,3	-2,2	-2,7				

<sup>2/</sup> The annual percentage change is the change in the volume of electricity available for distribution of the relevant month of the current year compared with the corresponding month of the previous year expressed as a percentage.

Table 3 – Seasonally adjusted total volume of electricity available for distribution in South Africa: 2005 – 2010

		Gigawatt-hours						
Month	2005	2006	2007	2008	2009	2010	% change between current and previous month	
January	18 495	18 947	19 935	19 639	18 287	19 815	0,7	
February	18 641	18 900	19 912	20 380	18 312	19 877	0,3	
March	18 453	18 952	20 161	19 599	18 684	20 169	1,5	
April	19 078	19 112	20 025	20 235	18 967			
May	18 468	19 545	20 127	19 667	18 904			
June	18 255	19 414	20 219	19 730	19 079			
July	18 279	19 156	20 132	19 926	19 459			
August	18 352	19 370	20 306	19 674	19 333			
September	18 631	19 213	19 933	19 911	19 561			
October	18 867	19 402	20 175	19 869	19 653			
November	18 816	19 562	20 129	18 991	19 614			
December	18 995	19 692	19 987	18 295	19 685			

Table 4 - Indices of the physical volume of electricity production: 2005 - 2010

Month			Base : 200	5=100		
	2005	2006	2007	2008	2009	2010
January	97,6	99,8	103,9	105,3	95,0	103,4
February	91,7	94,0	97,2	99,7	88,5	96,5
March	100,2	103,3	107,8	105,6	99,3	1/ 107,4
April	98,1	98,0	100,9	102,0	96,1	
May	102,9	108,1	111,9	109,6	104,5	
June	101,6	107,3	112,5	108,8	104,8	
July	105,5	110,8	116,6	115,1	112,8	
August	103,0	109,1	114,1	110,3	108,8	
September	99,1	101,8	105,5	104,8	104,4	
October	102,5	107,2	109,1	109,4	105,6	
November	99,4	103,3	106,9	101,4	102,6	
December	98,2	100,9	104,6	93,6	100,3	
Year	100,0	103,6	107,6	105,5	101,9	

<sup>1/</sup> Preliminary.

Table 5 – Annual percentage change in indices of the physical volume of electricity production: 2005 – 2010

Month		Percentage change 2/					
	2005	2006	2007	2008	2009	2010	
January	2,2	2,3	4,1	1,3	-9,8	8,8	
February	-0,5	2,5	3,4	2,6	-11,2	9,0	
March	1,5	3,1	4,4	-2,0	-6,0	8,1	
April	3,6	-0,1	3,0	1,1	-5,8		
May	0,5	5,1	3,5	-2,1	-4,7		
June	-3,2	5,6	4,8	-3,3	-3,7		
July	-3,7	5,0	5,2	-1,3	-2,0		
August	-1,2	5,9	4,6	-3,3	-1,4		
September	-0,4	2,7	3,6	-0,7	-0,4		
October	0,4	4,6	1,8	0,3	-3,5		
November	0,9	3,9	3,5	-5,1	1,2		
December	2,3	2,7	3,7	-10,5	7,2		
Year	0,1	3,7	3,8	-2,0	-3,4		

<sup>2/</sup> The annual percentage change is the change in the index of the physical volume of electricity production of the relevant month of the current year compared with the corresponding month of the previous year expressed as a percentage.

Table 6 – Seasonally adjusted indices of the physical volume of electricity production: 2005 – 2010

	Base : 2005=100									
Month	2005	2005 2006		2008	2009	2010	% change between current and previous month			
January	100,1	102,2	106,5	107,8	97,4	106,0	1,3			
February	100,3	102,7	106,4	109,2	97,1	106,0	0,0			
March	100,1	103,0	107,6	105,4	99,2	107,3	1,2			
April	103,0	103,0	106,2	107,6	101,5					
May	99,0	104,1	107,8	105,7	100,8					
June	97,9	103,5	108,7	105,2	101,4					
July	97,8	102,7	107,7	106,1	103,7					
August	98,3	104,0	108,4	104,6	103,2					
September	100,1	102,8	106,5	105,8	105,4					
October	100,1	104,9	107,0	107,3	103,6					
November	100,9	104,7	108,2	102,7	103,8					
December	102,3	105,1	108,9	97,5	104,6					

Table 7 – Total volume of electricity imported: 2005 – 2010

Month		Gigawatt-hours									
Wonth	2005	2006 2007		2008	2009	2010					
January	729	872	1 088	638	1 102	1 122					
February	714	646	942	885	999	995					
March	533	581	973	802	1 064	1/ 1 040					
April	598	587	1 055	844	906						
May	849	879	900	761	937						
June	813	881	880	1 002	1 088						
July	856	926	984	1 089	1 040						
August	883	930	1 045	1 076	1 072						
September	686	971	1 026	1 044	920						
October	836	682	1 040	645	1 115						
November	865	862	796	711	940	•					
December	837	965	619	1 075	1 112						
Year	9 199	9 782	11 348	10 572	12 295	•					

<sup>1/</sup> Preliminary.

Table 8 – Total volume of electricity exported: 2005 – 2010

Month		Gigawatt-hours									
WOITH	2005	2006	2007	2008	2009	2010					
January	1 030	1 056	1 134	1 280	1 096	1 217					
February	901	1 050	1 060	1 101	979	1 128					
March	968	1 129	1 231	1 136	1 100	1/ 1 252					
April	991	1 017	1 132	998	1 086						
May	1 083	1 046	1 203	1 120	1 109						
June	1 096	1 102	1 256	1 162	1 175						
July	1 102	1 239	1 301	1 249	1 223						
August	1 144	1 262	1 252	1 220	1 235						
September	1 134	1 239	1 186	1 203	1 285						
October	1 161	1 311	1 252	1 258	1 288						
November	1 119	1 186	1 256	1 252	1 213						
December	1 155	1 129	1 233	1 189	1 263						
Year	12 884	13 766	14 496	14 168	14 052						

<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 (monthly figures)

				Gigaw	att-hours	
		March 2009	February 2010	March 2010 1/	% change between March 2009 and March 2010	Difference between March 2009 and March 2010
Total - All	Electricity produced	20 273	19 702	21 917	8,1	1 644
producers	Purchased outside South Africa (import)	1 064	995	1 040	-2,3	-24
	Consumed in power stations and auxiliary systems	1 543	1 388	1 519	-1,6	-24
	Sold outside South Africa (export)	1 100	1 128	1 252	13,8	152
	Electricity available for distribution in South Africa	18 694	18 181	20 186	8,0	1 492
ESKOM	Electricity produced	19 540	19 151	21 298	9,0	1 758
	Purchased outside South Africa (import)	1 064	995	1 040	-2,3	-24
	Consumed in power stations and auxiliary systems	1 463	1 325	1 453	-0,7	-10
	Sold outside South Africa (export)	1 100	1 128	1 252	13,8	152
	Electricity available for distribution in South Africa	18 042	17 693	19 633	8,8	1 591

<sup>1/</sup> Preliminary.

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

			Gi	igawatt-hours	
		January to March 2009	January to March 2010 1/	% change between January to March 2009 and January to March 2010	Difference between January to March 2009 and January to March 2010
Total - All producers	Electricity produced	57 724	62 732	8,7	5 008
producers	Purchased outside South Africa (import)	3 165	3 157	-0,3	-8
	Consumed in power stations and auxiliary systems	4 345	4 529	4,2	184
	Sold outside South Africa (export)	3 175	3 597	13,3	422
	Electricity available for distribution in South Africa	53 370	57 763	8,2	4 393
ESKOM	Electricity produced	55 567	60 990	9,8	5 423
	Purchased outside South Africa (import)	3 165	3 157	-0,3	-8
	Consumed in power stations and auxiliary systems	4 114	4 345	5,6	231
	Sold outside South Africa (export)	3 175	3 597	13,3	422
	Electricity available for distribution in South Africa	51 444	56 206	9,3	4 762

<sup>1/</sup> Preliminary.

Table 10 - Total volume of electricity delivered by Eskom to provinces for 2009 and 2010 1/

		Gigawatt-hours									
	Period	Western Cape	Eastern Cape	Northern Cape	Free State	KwaZulu- Natal	North West	Gauteng	Mpuma- langa	Limpopo	Total South Africa
2009	January	1 886	733	408	748	3 368	1 833	4 502	2 265	849	16 592
	February	1 779	625	367	661	3 196	1 721	4 272	2 154	752	15 527
	March	1 995	691	404	739	3 553	1 936	4 716	2 442	875	17 351
	April	1 812	713	350	673	3 410	1 852	4 499	2 476	860	16 645
	May	1 852	799	361	735	3 583	2 009	5 270	2 736	935	18 280
	June	1 891	744	368	763	3 529	2 033	5 552	2 711	924	18 515
	July	1 942	789	398	825	3 689	2 188	6 059	2 841	975	19 706
	August	1 982	761	370	776	3 620	2 095	5 600	2 810	993	19 007
	September	1 889	769	383	658	3 515	2 055	4 923	2 762	1 045	17 999
	October	1 878	752	398	704	3 629	2 276	5 005	2 885	1 000	18 527
	November	1 837	761	402	739	3 490	2 221	4 916	2 717	942	18 025
	December	1 840	736	420	719	3 499	2 170	4 651	2 725	947	17 707
	Year	22 583	8 873	4 629	8 740	42 081	24 389	59 965	31 524	11 097	213 881
	Year to date	5 660	2 049	1 179	2 148	10 117	5 490	13 490	6 861	2 476	49 470
2010	January	1 932	780	404	751	3 540	2 182	4 806	2 845	991	18 231
	February	1 842	719	383	706	3 281	2 029	4 592	2 658	917	17 127
	March 2/	2 037	809	405	780	3 629	2 273	5 086	2 926	1 032	18 977
	Year to date	5 811	2 308	1 192	2 237	10 450	6 484	14 484	8 429	2 940	54 335

 $<sup>\</sup>ensuremath{\mathrm{1/\,Wholesale}}$  energy as delivered by Eskom to the various provinces.  $\ensuremath{\mathrm{2/\,Preliminary}}.$ 

#### **Explanatory Notes**

#### Introduction

1

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 volume of electricity units generated and available for distribution in South Africa, the volume of units purchased and sold outside South Africa and the volume 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. It includes 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 March 2010 was 99%.

#### Statistical unit 8

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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, email and telephone. Information is collected from a sample of 22 electricity undertakings or establishments.

## Monthly production indices

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

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#### 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. These levels are weighted according to the original sample and designed 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 a benchmark 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 August 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 August 1995 as reference point).

## Seasonal adjustment

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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 recognized. 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 behaviour.

#### 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

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

- Bulletin of Statistics.
- SA Statistics.

## Unpublished 17 statistics

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

## Rounding-off of figures

Where necessary, the figures in the tables have 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

 ${\it Stats SA pre-release policy may be inspected at its website, www.statssa.gov.za.}\\$ 

#### **Glossary**

Consumption of electricity

For purposes of this release the term 'consumption of electricity' is used

interchangeably with the term 'electricity available for distribution'.

**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

#### **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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#### Advanced release calendar

An advanced release calendar is disseminated on www.statssa.gov.za

#### Stats SA products

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**

A large range of data is available via on-line services, diskette, CD and computer printouts.

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#### **General enquiries**

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