

Statistical release P4141

Electricity generated and available for distribution (Preliminary)

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Summary of findings: Electricity generated and available for distribution

Key figures

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

Actual estimates	August 2010 1/	% change between August 2009 and August 2010	% change between June to August 2009 and June to August 2010	% change between January to August 2009 and January to August 2010
Electricity available for distribution				
(Gigawatt-hours)	20 542	0,7	2,0	5,1
Index of the physical volume of electricity production (2005=100)	109,4	0,5	1,8	5,0

1/ Preliminary.

Seasonally adjusted estimates	August 2010	% change between July and August 2010	% change between March to May 2010 and June to August 2010
Electricity available for distribution (Gigawatt-hours)	19 476	-0,2	-2,2
Index of the physical volume of electricity production (2005=100)	103,7	0,2	-2,0

Key findings

Consumption of electricity

The actual estimated volume of electricity consumed in August 2010 increased by 0,7% (144 Gigawatt-hours) compared with August 2009 (see Tables A, 2 and 9a). Electricity consumption for the first eight months of 2010 increased by 5,1% (7 710 Gigawatt-hours) compared with the first eight months of 2009 (see Tables A and 9b). However, electricity consumption, after seasonal adjustment, for the three months ended August 2010 decreased by 2,2% compared with the three months ended May 2010 (see Tables A and B).

Production of electricity

The actual estimated production of electricity in August 2010 increased by 0,5% (116 Gigawatt-hours) compared with August 2009 (see Tables A, 5 and 9a). The estimated production of electricity for the first eight months of 2010 increased by 5,0% (8 247 Gigawatt-hours) compared with the first eight months of 2009 (see Tables A and 9b). However, electricity production, after seasonal adjustment, for the three months ended August 2010 decreased by 2,0% compared with the three months ended May 2010 (see Tables A and B).

Electricity delivered by Eskom to the provinces

Electricity delivered to the provinces for the first eight months of 2010 increased by 5,8% (8 246 Gigawatt-hours) compared with the first eight months of 2009. Increases were reported for all the nine provinces ranging from 0,7% for KwaZulu-Natal to 12,9% for Mpumalanga.

International trade in electricity

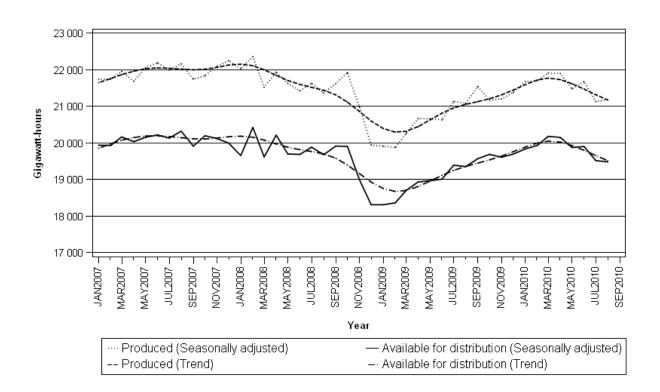
The volume of electricity purchased from outside South African borders increased from 8 208 Gigawatt-hours in the first eight months of 2009 to 8 407 Gigawatt-hours in the first eight months of 2010, representing an increase of 2,4% (199 Gigawatt-hours). The volume of electricity sold to neighbouring countries in the first eight months of 2010 increased by 6,4% (577 Gigawatt-hours) compared with the first eight months of 2009 (see Table 9b).

Table B – Comparison of the seasonally adjusted volume of electricity generated and available for distribution between the three months ended August 2010 and the previous three months

Gigawatt-hours	Seasonally adjusted quantity March to May 2010	Seasonally adjusted quantity June to August 2010	adjusted quantity March to N June to And	
Electricity produced	65 274	63 972	-2,0	-1 302
Electricity available for distribution in South Africa	60 188	58 887	-2,2	-1 301

Table C – Comparison of actual estimates between the three months ended August 2010 and the three months ended August 2009

Gigawatt-hours	Actual volume June to August 2009	Actual volume June to August 2010	% change between June to August 2009 and June to August 2010	Quantity difference between June to August 2009 and June to August 2010
Electricity produced	66 620	67 849	1,8	1 229
Purchased outside South Africa (import)	3 200	3 245	1,4	45
Consumed in power stations and auxiliary systems	4 819	4 831	0,2	12
Sold outside South Africa (export)	3 633	3 647	0,4	14
Electricity available for distribution in South Africa	61 368	62 616	2,0	1 248





P J Lehohla Statistician-General

Detailed results

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

Month		Gigawatt-hours								
MOILI	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	20 186				
April	18 132	18 122	18 982	19 127	17 934	19 110				
Мау	19 224	20 312	20 901	20 365	19 548	20 441				
June	18 983	20 166	21 020	20 515	19 819	20 758				
July	19 657	20 632	21 780	21 610	21 151	21 316				
August	19 191	20 307	21 353	20 736	20 398	1/ 20 542				
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					

1/ Preliminary.

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

Month	Percentage change 2/									
WOITH	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	6,6				
Мау	1,7	5,7	2,9	-2,6	-4,0	4,6				
June	-1,8	6,2	4,2	-2,4	-3,4	4,7				
July	-2,5	5,0	5,6	-0,8	-2,1	0,8				
August	-0,4	5,8	5,2	-2,9	-1,6	0,7				
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					

2/ 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	18 494	18 944	19 932	19 649	18 305	19 830	0,7				
February	18 640	18 908	19 926	20 419	18 357	19 928	0,5				
March	18 466	18 961	20 160	19 613	18 697	20 174	1,2				
April	19 079	19 114	20 029	20 207	18 929	20 146	-0,1				
Мау	18 467	19 542	20 149	19 692	18 961	19 868	-1,4				
June	18 256	19 413	20 213	19 681	19 005	19 898	0,2				
July	18 275	19 148	20 125	19 880	19 387	19 513	-1,9				
August	18 349	19 364	20 316	19 672	19 347	19 476	-0,2				
September	18 605	19 188	19 907	19 909	19 564						
October	18 888	19 426	20 192	19 900	19 682						
November	18 812	19 554	20 114	18 987	19 604						
December	18 994	19 690	19 989	18 305	19 690						

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

Month	Base : 2005=100									
Wonth	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	107,4				
April	98,1	98,0	100,9	102,0	96,1	102,0				
Мау	102,9	108,1	111,9	109,6	104,5	108,5				
June	101,6	107,3	112,5	108,8	104,8	110,1				
July	105,5	110,8	116,6	115,1	112,8	113,0				
August	103,0	109,1	114,1	110,3	108,8	1/ 109,4				
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					

1/ Preliminary.

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

Month	Percentage change 2/									
WORTH	2005	2006	2007	2008	2008	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	8,2				
April	3,6	-0,1	3,0	1,1	-5,8	6,1				
Мау	0,5	5,1	3,5	-2,1	-4,7	3,8				
June	-3,2	5,6	4,8	-3,3	-3,7	5,1				
July	-3,7	5,0	5,2	-1,3	-2,0	0,2				
August	-1,2	5,9	4,6	-3,3	-1,4	0,5				
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					

2/ 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	2006	2007	2008	2009	2010	% change between current and previous month				
January	100,1	102,2	106,4	107,9	97,5	106,1	1,3				
February	100,4	102,8	106,5	109,5	97,3	106,2	0,1				
March	100,1	103,0	107,5	105,4	99,2	107,3	1,0				
April	103,0	103,0	106,2	107,4	101,2	107,2	-0,1				
Мау	99,0	104,1	108,0	105,9	101,1	105,2	-1,9				
June	97,9	103,6	108,6	104,9	101,0	106,1	0,9				
July	97,8	102,7	107,7	105,9	103,5	103,5	-2,5				
August	98,2	103,9	108,5	104,6	103,2	103,7	0,2				
September	100,1	102,8	106,5	105,9	105,5						
October	100,1	104,9	106,9	107,3	103,7						
November	100,9	104,7	108,2	102,7	103,8						
December	102,3	105,0	108,9	97,6	104,7						

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

••		Gigawatt-hours									
Month	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	1 040					
April	598	587	1 055	844	906	931					
Мау	849	879	900	761	937	1 074					
June	813	881	880	1 002	1 088	1 019					
July	856	926	984	1 089	1 040	1 117					
August	883	930	1 045	1 076	1 072	1/ 1 109					
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						

1/ Preliminary.

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

Month	Gigawatt-hours								
MOITIN	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	1 252			
April	991	1 017	1 132	998	1 086	1 164			
Мау	1 083	1 046	1 203	1 120	1 109	1 172			
June	1 096	1 102	1 256	1 162	1 175	1 175			
July	1 102	1 239	1 301	1 249	1 223	1 197			
August	1 144	1 262	1 252	1 220	1 235	1/ 1 275			
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				

1/ 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)

		Gigawatt-hours					
		August 2009	July 2010	August 2010 1/	% change between August 2009 and August 2010	Difference between August 2009 and August 2010	
Total - All	Electricity produced	22 214	23 056	22 330	0,5	116	
producers	Purchased outside South Africa (import)	1 072	1 117	1 109	3,5	37	
	Consumed in power stations and auxiliary systems	1 653	1 660	1 622	-1,9	-31	
	Sold outside South Africa (export)	1 235	1 197	1 275	3,2	40	
	Electricity available for distribution in South Africa	20 398	21 316	20 542	0,7	144	
ESKOM	Electricity produced	21 431	22 352	21 325	-0,5	-106	
	Purchased outside South Africa (import)	1 072	1 117	1 109	3,5	37	
	Consumed in power stations and auxiliary systems	1 578	1 609	1 548	-1,9	-30	
	Sold outside South Africa (export)	1 235	1 197	1 275	3,2	40	
	Electricity available for distribution in South Africa	19 690	20 663	19 611	-0,4	-79	

1/ 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)

		Gigawatt-hours					
		January to August 2009	January to August 2010 1/	% change between January to August 2009 and January to August 2010	Difference between January to August 2009 and January to August 2010		
Total - All producers	Electricity produced	165 290	173 537	5,0	8 247		
producers	Purchased outside South Africa (import)	8 208	8 407	2,4	199		
	Consumed in power stations and auxiliary systems	12 278	12 433	1,3	155		
	Sold outside South Africa (export)	9 003	9 580	6,4	577		
	Electricity available for distribution in South Africa	152 220	159 930	5,1	7 710		
ESKOM	Electricity produced	159 416	168 296	5,6	8 880		
	Purchased outside South Africa (import)	8 208	8 407	2,4	199		
	Consumed in power stations and auxiliary systems	11 692	11 933	2,1	241		
	Sold outside South Africa (export)	9 003	9 580	6,4	577		
	Electricity available for distribution in South Africa	146 930	155 190	5,6	8 260		

1/ Preliminary.

						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
	Мау	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	15 139	5 855	3 026	5 920	27 948	15 667	40 470	20 435	7 163	141 623
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	2 037	809	405	780	3 629	2 273	5 086	2 926	1 032	18 977
-	April	1 873	750	362	735	3 432	2 106	4 929	2 813	983	17 982
	Мау	1 930	825	365	788	3 551	2 259	5 411	3 079	979	19 187
	June	1 946	797	378	814	3 527	2 175	5 784	3 011	991	19 424
	July	2 005	811	400	824	3 684	2 188	5 978	2 948	1 062	19 900
	August 2/	2 004	899	392	779	3 508	2 208	5 416	2 797	1 038	19 041
	Year to date	15 569	6 390	3 089	6 177	28 152	17 420	42 002	23 077	7 993	149 869

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

1/ Wholesale energy as delivered by Eskom to the various provinces.

2/ Preliminary.

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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 2 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. 3 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 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 survey components, which are used in monitoring the state of the economy and formulation of economic policy. Scope of the 5 This survey covers electricity undertakings and establishments conducting activities concerned with the generation or transmission and distribution of survey electricity. It includes electrical power installations, which, as subsidiary divisions of undertakings, produce electricity for regular use by these undertakings. Classification The 1993 edition of the Standard Industrial Classification of all Economic Activities 6 (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 August 2010 was 99%. Statistical unit 8 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). 9 All statistical units are stratified by type of economic activity according to the Survey Standard Industrial Classification of all Economic Activities (SIC) and measure of methodology size, where measure of size is the volume of electricity generated by the electricity and design 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. 10 The survey is conducted by mail, email and telephone. Information is collected from a sample of 22 electricity undertakings or establishments. Monthly 11 The calculation of the monthly production indices is based on the volume of electricity units produced. production indices

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.
	13	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	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 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	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 or on CD. Generally a charge is made for providing unpublished statistics.
Rounding-off of figures	18	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	19	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	GDPGross domestic productISICInternational Standard Industrial ClassificationSICStandard Industrial Classification of all Economic ActivitiesStats SAStatistics South Africa*Revised figures			

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Glossary

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

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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.

You can visit us on the Internet at: www.statssa.gov.za

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