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Wholesale trade sales (Preliminary)

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Table A - Key figures as at the end of December 2006

Estimates	December 2006 (R million)	% change between December 2005 and December 2006	% change between October to December 2005 and October to December 2006	% change between January to December 2005 and January to December 2006
Wholesale trade sales				
at current prices	61 341	+16,7	+16,8	+15,0
at constant 2000 prices	41 587	+6,1	+5,9	+6,7

Seasonally adjusted estimates	December 2006 (R million)	% change between November and December 2006	% change between July to September 2006 and October to December 2006
Wholesale trade sales			
at current prices	62 019	-0,1	+2,0
at constant 2000 prices	41 921	-0,1	-0,1

Key findings as at the end of December 2006

Wholesale trade sales increase in real terms

As indicated in table A, wholesale trade sales, at constant (2000) prices, for the fourth quarter of 2006 increased by 5,9% compared with the fourth quarter of 2005. Seasonally adjusted wholesale trade sales, at constant (2000) prices, for the fourth quarter of 2006 decreased by 0,1% compared with the third quarter of 2006.

Wholesale trade sales, at constant (2000) prices, for December 2006 increased by 6,1% compared with December 2005. This 6,1% is higher than the 1,2% growth for the corresponding period in 2005.

Wholesale trade sales at constant (2000) prices, for the year 2006, increased by 6,7% compared with the year 2005. The 6,7% increase is higher than the 3,0% growth reported for the year 2005.

Wholesale trade sales increase at current prices

Wholesale trade sales, at current prices, for the fourth quarter of 2006 increased by 16,8% compared with the fourth quarter of 2005. The 16,8% increase is higher than the 5,8% growth for the corresponding period in 2005.

Table B – Contribution of the type of dealers to the percentage change in wholesale trade sales at current prices

Type of wholesale dealer	Sales for the months of October to December 2005 (R million)	Weight ^{1/}	Sales for the months of October to December 2006 (R million)	Difference in sales between October to December 2005 and October to December 2006 (R million)	% change between October to December 2005 and October to December 2006	Contribution (percentage points) to the % change in total sales ^{2/}
Contract or fee basis	10 102	5,9	9 203	-899	-8,9	-0,5
Agricultural raw materials and livestock	6 334	3,7	8 842	2 508	39,6	1,5
Food, beverages and tobacco	32 509	19,1	37 241	4 732	14,6	2,8
Textiles, clothing and footwear	5 642	3,3	7 087	1 445	25,6	0,8
Other household goods except precious stones	19 372	11,4	22 800	3 428	17,7	2,0
Precious stones, jewellery and silverware	5 252	3,1	6 067	815	15,5	0,5
Solid, liquid and gaseous fuels and related products	29 461	17,3	31 532	2 071	7,0	1,2
Metals and metal ores	5 439	3,2	7 306	1 867	34,3	1,1
Construction and building materials	8 982	5,3	11 357	2 375	26,4	1,4
Other intermediate products, waste and scrap	6 008	3,5	7 308	1 300	21,6	0,8
Machinery, equipment and supplies	28 328	16,7	36 232	7 904	27,9	4,6
Other goods	12 622	7,4	13 598	976	7,7	0,6
Total 3/	170 051	100,0	198 573	28 522	16,8	16,8

1/ Weight is the percentage contribution of each type of dealer to the total wholesale trade sales for the three months up to the current month of the previous year

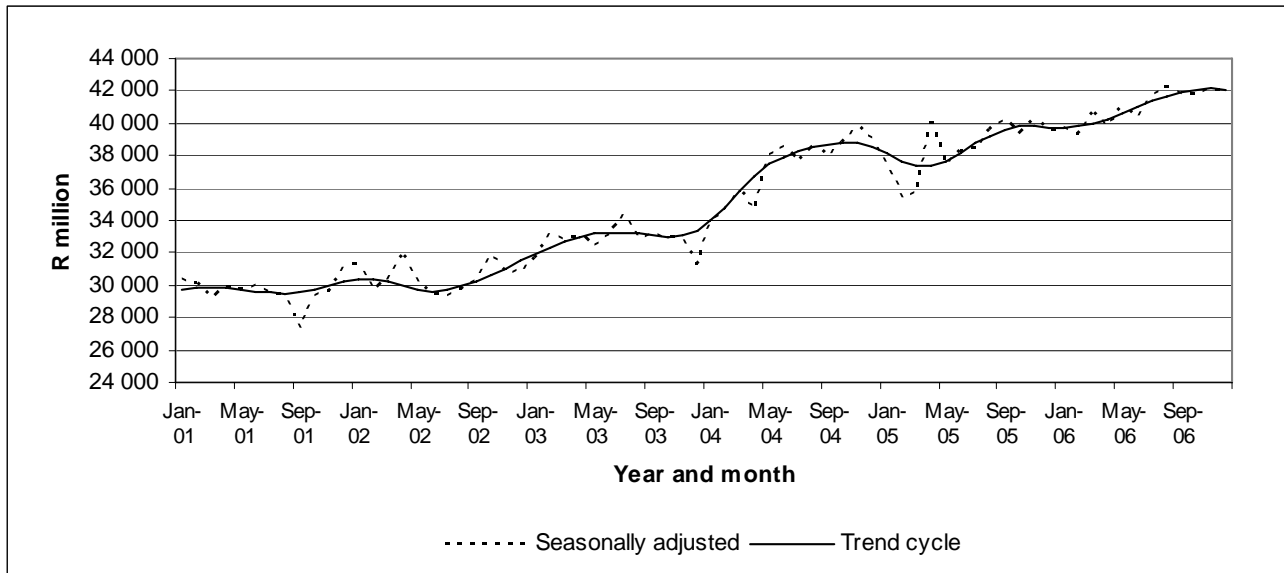
2/ The contribution to the percentage change is calculated by multiplying the percentage change of each type of dealer with its corresponding weight

3/ The figures have been rounded off. Therefore, discrepancies may occur between the sums of the component items and the totals

Table B above shows that the major contributors to the 16,8% increase in wholesale trade sales at current prices for the fourth quarter of 2006 compared with the fourth quarter of 2005 were dealers in machinery, equipment and supplies (contributing +4,6 percentage points), dealers in food, beverages and tobacco (contributing +2,8 percentage points) and dealers in other household goods except precious stones (contributing +2,0 percentage points).

Figure 1 below shows the seasonally adjusted and trend patterns for wholesale trade sales at constant (2000) prices between January 2001 and December 2006. The trend cycle showed a gradual upward trend from January 2001 until the beginning of 2004. Thereafter, the trend cycle started to increase sharply until October 2004. It then showed a decline to the beginning of 2005. It resumed an upward trend from the middle of 2005 and has been increasing until November 2006. It then levelled off in December 2006.

Figure 1 – Wholesale trade sales (at constant 2000 prices)



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Notes

- Purpose of the survey** The results of the monthly wholesale trade sales 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. These statistics are also used in the analysis of comparative business and industry performance.
- Response rate** The preliminary response rate for the survey on wholesale trade sales for December 2006 was 88,2%.

Detailed results

Outlined below in table 1 are wholesale trade sales according to type of dealer.

Table 1 - Total wholesale trade sales according to type of dealer at current prices (R million)

Year	Month 1/	Type A	Type B	Type C	Type D	Type E	Type F	Type G	Type H	Type I	Type J	Type K	Type L	Total 2/
2005	January	1 687	2 142	8 299	1 087	3 901	1 356	6 309	1 495	2 284	1 658	7 679	3 585	41 481
	February	1 943	2 070	8 487	1 478	3 966	744	6 822	1 738	2 532	1 573	8 777	3 289	43 419
	March	2 074	1 712	8 793	1 619	4 604	1 633	7 474	1 676	2 598	1 741	8 764	3 680	46 368
	April	2 047	1 716	9 198	1 590	4 680	1 619	7 961	1 725	2 788	1 644	9 084	3 632	47 685
	May	2 668	1 694	9 486	1 461	4 823	1 864	8 042	1 878	2 915	1 746	9 298	3 718	49 593
	June	3 073	1 873	9 404	1 359	4 881	1 678	9 581	1 794	2 849	2 005	9 279	3 644	51 422
	July	3 353	1 715	9 936	1 490	5 022	886	9 386	1 858	3 116	1 799	8 830	3 885	51 277
	August	3 112	1 799	8 970	1 769	5 345	1 264	10 100	1 955	3 127	1 884	9 467	4 030	52 822
	September	2 784	1 782	9 509	1 936	5 627	1 814	10 162	1 970	3 164	2 087	10 124	3 907	54 866
	October	3 176	1 860	10 133	2 042	6 237	1 862	10 344	1 945	3 224	2 141	9 754	3 986	56 705
	November	3 660	2 392	10 373	2 205	7 196	1 945	9 691	2 203	3 576	2 308	10 524	4 695	60 767
	December	3 266	2 082	12 003	1 395	5 939	1 445	9 426	1 291	2 182	1 559	8 050	3 941	52 579
		Total	32 843	22 837	114 591	19 431	62 221	18 110	105 298	21 528	34 355	22 145	109 630	45 992
2006	January	2 368	1 936	9 671	1 104	5 090	374	8 257	1 611	2 370	1 662	8 457	3 144	46 044
	February	2 518	1 806	9 428	1 528	5 902	1 242	8 389	2 005	2 850	1 854	9 134	3 840	50 496
	March	2 731	1 810	10 158	1 663	5 762	1 624	10 118	1 970	2 978	1 849	10 866	3 750	55 278
	April	1 827	1 576	10 162	1 725	5 786	1 270	9 211	1 678	2 839	1 470	8 556	3 405	49 506
	May	3 057	2 062	10 004	1 906	6 419	1 411	10 207	2 220	3 286	1 991	11 065	3 833	57 459
	June	2 151	2 190	10 502	1 758	6 281	1 767	9 782	2 284	3 345	1 865	12 065	4 156	58 146
	July	2 856	2 439	9 984	1 800	6 310	1 660	11 370	2 331	3 614	1 889	11 460	4 335	60 047
	August	2 914	2 536	10 650	2 251	6 805	1 919	10 582	2 481	3 673	2 428	12 370	3 747	62 358
	September	2 548	2 706	11 883	2 257	6 414	1 770	11 293	2 400	3 679	2 251	11 458	3 721	62 380
	October	2 871	2 600	11 688	2 690	7 484	2 064	10 672	2 775	4 222	2 683	12 522	4 182	66 452
	November	3 387	3 325	12 286	2 633	8 543	2 124	10 782	2 721	4 374	2 786	12 822	4 998	70 780
	December	2 946	2 917	13 267	1 764	6 773	1 879	10 078	1 810	2 761	1 839	10 888	4 418	61 341
		Total	32 174	27 903	129 683	23 079	77 569	19 104	120 741	26 286	39 991	24 567	131 663	47 529

1/ Preliminary.

2/ The figures have been rounded off. Therefore, discrepancies may occur between the sums of the component items and the totals.

Description of type of dealers included in indicated group types in table ^{1/}

Group type	Type of dealers included in group type
Type A	Wholesale trade on a fee or contract basis
Type B	Wholesale trade in agricultural raw materials and livestock
Type C	Wholesale trade in food, beverages and tobacco
Type D	Wholesale trade in textiles, clothing and footwear
Type E	Wholesale trade in other household goods except precious stones
Type F	Wholesale trade in precious stones, jewellery and silverware
Type G	Wholesale trade in solid, liquid and gaseous fuels and related products
Type H	Wholesale trade in metals and metal ores
Type I	Wholesale trade in construction and building materials
Type J	Wholesale trade in other intermediate products, waste and scrap
Type K	Wholesale trade in machinery, equipment and supplies
Type L	Wholesale trade in other goods

1/ See note 3 on page 11.

Tables 2 and 3 show wholesale trade sales values and percentage changes at current prices over the period January 1999 to December 2006. Table 4 shows seasonally adjusted wholesale trade sales at current prices over the same period.

Table 2 - Total wholesale trade sales at current prices (R million)

Month	1999	2000	2001	2002	2003	2004	2005	2006 1/
January	20 948	23 717	28 584	32 584	35 412	37 071	41 481	46 044
February	22 819	26 586	30 772	34 334	40 511	41 869	43 419	50 496
March	23 257	28 933	30 819	36 516	41 674	45 325	46 368	55 278
April	22 824	26 703	29 937	36 379	38 630	40 479	47 685	49 506
May	23 654	28 690	31 776	37 060	40 834	48 861	49 593	57 459
June	23 801	28 769	32 336	36 410	42 186	50 314	51 422	58 146
July	24 161	27 839	31 306	35 840	42 990	48 200	51 277	60 047
August	26 523	29 445	31 903	36 939	41 262	49 162	52 822	62 358
September	27 051	29 461	30 508	38 757	42 155	49 722	54 866	62 380
October	26 037	31 818	34 941	43 492	44 395	53 829	56 705	66 452
November	29 155	32 780	36 183	42 921	45 325	57 359	60 767	70 780
December	27 141	30 851	35 184	38 952	38 741	49 490	52 579	61 341
Total	297 371	345 592	384 249	450 184	494 115	571 681	608 984	700 287

1/ Preliminary.

Table 3 - Percentage change in total wholesale trade sales at current prices 1/

Month	1999	2000	2001	2002	2003	2004	2005	2006
January	5,6	13,2	20,5	14,0	8,7	4,7	11,9	11,0
February	6,0	16,5	15,7	11,6	18,0	3,4	3,7	16,3
March	3,5	24,4	6,5	18,5	14,1	8,8	2,3	19,2
April	4,8	17,0	12,1	21,5	6,2	4,8	17,8	3,8
May	7,0	21,3	10,8	16,6	10,2	19,7	1,5	15,9
June	5,0	20,9	12,4	12,6	15,9	19,3	2,2	13,1
July	3,6	15,2	12,5	14,5	19,9	12,1	6,4	17,1
August	12,2	11,0	8,3	15,8	11,7	19,1	7,4	18,1
September	10,0	8,9	3,6	27,0	8,8	18,0	10,3	13,7
October	4,0	22,2	9,8	24,5	2,1	21,3	5,3	17,2
November	18,2	12,4	10,4	18,6	5,6	26,6	5,9	16,5
December	18,0	13,7	14,0	10,7	-0,5	27,7	6,2	16,7
Total	8,3	16,2	11,2	17,2	9,8	15,7	6,5	15,0

1/ The percentage change is the difference between wholesale trade sales of the relevant year and those of the previous year expressed as a percentage.

Table 4 - Seasonally adjusted total wholesale trade sales at current prices (R million)

Month	1999	2000	2001	2002	2003	2004	2005	2006
January	23 140	26 160	31 638	36 321	39 923	42 366	48 038	53 719
February	23 387	27 193	31 520	35 201	41 836	43 505	45 514	53 151
March	23 162	28 789	30 602	36 259	41 369	45 051	46 142	55 127
April	23 837	27 986	31 592	38 706	41 557	43 975	52 285	54 522
May	23 793	28 760	31 697	36 867	40 533	48 557	49 256	57 060
June	23 937	28 849	32 256	36 075	41 626	49 533	50 568	57 071
July	24 665	28 451	31 994	36 488	43 484	48 358	51 196	59 830
August	26 276	29 303	31 902	37 008	41 223	48 795	52 092	61 329
September	26 586	28 968	30 061	38 122	41 361	48 522	53 451	60 758
October	24 302	29 634	32 428	40 287	40 989	49 652	52 319	61 475
November	26 947	30 213	33 149	38 952	40 672	50 909	53 476	62 069
December	26 962	30 670	35 099	38 954	38 943	49 886	53 127	62 019

Tables 5 and 6 show wholesale trade sales values and percentage changes at constant prices over the period January 1999 to December 2006. Table 7 shows seasonally adjusted wholesale trade sales at constant prices over the same period.

Table 5 - Total wholesale trade sales at constant 2000 prices (R million)

Month	1999	2000	2001	2002	2003	2004	2005	2006 1/
January	23 288	24 680	27 406	28 053	28 228	29 740	32 586	34 336
February	25 242	27 508	29 363	28 974	32 228	33 402	33 987	37 600
March	25 543	29 812	29 337	30 545	33 154	36 188	36 098	40 962
April	25 026	27 055	28 216	29 929	30 744	32 012	36 822	36 321
May	25 613	28 965	29 725	30 265	32 851	38 595	38 104	41 697
June	25 731	28 885	30 038	29 614	33 494	39 094	38 926	41 006
July	25 938	27 797	28 920	28 845	33 917	37 495	38 396	41 627
August	28 337	29 081	29 255	29 445	32 683	38 214	39 375	42 449
September	28 885	28 983	27 976	30 919	33 792	38 921	41 144	42 770
October	27 655	31 103	31 592	34 463	35 601	41 939	42 508	45 159
November	30 770	31 702	32 335	33 903	36 479	44 655	45 315	47 776
December	28 509	29 722	31 275	30 890	31 142	38 710	39 180	41 587
Total	320 537	345 293	355 438	365 845	394 313	448 965	462 441	493 290

1/ Preliminary

Table 6 - Percentage change in total wholesale trade sales at constant 2000 prices 1/

Month	1999	2000	2001	2002	2003	2004	2005	2006
January	0,9	6,0	11,0	2,4	0,6	5,4	9,6	5,4
February	0,6	9,0	6,7	-1,3	11,2	3,6	1,8	10,6
March	-2,5	16,7	-1,6	4,1	8,5	9,2	-0,2	13,5
April	-0,3	8,1	4,3	6,1	2,7	4,1	15,0	-1,4
May	1,0	13,1	2,6	1,8	8,5	17,5	-1,3	9,4
June	-1,0	12,3	4,0	-1,4	13,1	16,7	-0,4	5,3
July	-1,6	7,2	4,0	-0,3	17,6	10,5	2,4	8,4
August	7,4	2,6	0,6	0,6	11,0	16,9	3,0	7,8
September	5,7	0,3	-3,5	10,5	9,3	15,2	5,7	4,0
October	-1,0	12,5	1,6	9,1	3,3	17,8	1,4	6,2
November	11,9	3,0	2,0	4,8	7,6	22,4	1,5	5,4
December	10,8	4,3	5,2	-1,2	0,8	24,3	1,2	6,1
Total	2,7	7,7	2,9	2,9	7,8	13,9	3,0	6,7

1/ The percentage change is the difference between wholesale trade sales of the relevant year and those of the previous year expressed as a percentage.

Table 7 - Seasonally adjusted total wholesale trade sales at constant 2000 prices (R million)

Month	1999	2000	2001	2002	2003	2004	2005	2006
January	25 799	27 271	30 354	31 223	31 720	33 802	37 487	39 762
February	25 856	28 149	30 108	29 744	33 302	34 685	35 539	39 431
March	25 545	29 777	29 221	30 356	32 842	35 788	35 683	40 535
April	26 178	28 393	29 803	31 849	33 035	34 683	40 205	39 806
May	25 830	29 091	29 668	30 074	32 512	38 169	37 610	41 127
June	25 866	28 972	29 993	29 409	33 153	38 654	38 473	40 472
July	26 523	28 439	29 582	29 419	34 434	37 837	38 624	41 833
August	28 224	29 082	29 391	29 663	32 900	38 317	39 300	42 281
September	28 064	28 237	27 397	30 316	33 118	37 989	40 125	41 713
October	25 775	28 924	29 290	31 909	32 894	38 740	39 294	41 854
November	28 423	29 190	29 598	30 745	32 742	39 666	39 940	41 966
December	28 250	29 485	31 145	30 848	31 253	38 941	39 485	41 921

Outlined below in tables 8.1 and 8.2 are the percentage changes in wholesale trade sales at current prices, constant (2000) prices and seasonally adjusted estimates.

Table 8 – Estimates and percentage changes in total wholesale trade sales

Table 8.1 - Quarterly and cumulative estimates and percentage changes

Estimates	October to December 2005 (R million)	October to December 2006 (R million)	% change between October to December 2005 and October to December 2006	January to December 2005 (R million)	January to December 2006 (R million)	% change between January to December 2005 and January to December 2006
Wholesale trade sales at current prices	170 051	198 573	+16,8	608 984	700 287	+15,0
at constant 2000 prices	127 003	134 522	+5,9	462 441	493 290	+6,7

Table 8.2 - Seasonally adjusted estimates with monthly and quarterly percentage changes.

Seasonally adjusted estimates	November 2006 (R million)	December 2006 (R million)	% change between November and December 2006	July to September 2006 (R million)	October to December 2006 (R million)	% change between July to September 2006 and October to December 2006
Wholesale trade sales at current prices	62 069	62 019	-0,1	181 917	185 563	+2,0
at constant 2000 prices	41 966	41 921	-0,1	125 827	125 741	-0,1

Explanatory notes

- | | | |
|--------------------------------------|----------|--|
| Introduction | 1 | Statistics South Africa (Stats SA) conducts a monthly survey of the wholesale trade industry, covering wholesale enterprises (see 4 below). This survey is based on a sample drawn from the 2006 Business Sampling Frame (BSF) that contains businesses registered for value-added tax (VAT) and income tax. |
| | 2 | As is usual, information for the latest month has had to be estimated for respondents who have not reported by the cut-off date for production of results. These estimates will be revised in future statistical releases when their reported information becomes available. Published wholesale trade sales estimates exclude VAT. |
| Scope of the survey | 3 | <p>This survey covers wholesale enterprises according to the following types of dealer:</p> <ul style="list-style-type: none"> • Wholesale trade on a fee or contract basis • Sales by commission agents, commodity brokers, auctioneers and other wholesale trade on a fee or contract basis; • Wholesale trade in agricultural raw materials and livestock; • Wholesale trade in food, beverages and tobacco; • Wholesale trade in textiles, clothing and footwear; • Wholesale trade in other household goods except precious stones • Wholesale trade in household furniture, requisites and appliances, wholesale trade in books and stationery, wholesale trade in pharmaceuticals and toiletries and wholesale trade in other household goods not elsewhere classified; • Wholesale trade in precious stones, jewellery and silverware; • Wholesale trade in solid, liquid and gaseous fuels and related products; • Wholesale trade in metals and metal ores; • Wholesale trade in construction and building materials • Wholesale trade in construction materials, hardware, plumbing and heating equipment and supplies; • Wholesale trade in machinery, equipment and supplies; • Wholesale trade in other intermediate products, waste and scrap; and • Wholesale trade in other goods • General wholesale trade and other wholesale trade not elsewhere classified. |
| Classification | 4 | The 1993 edition of the <i>Standard Industrial Classification of all Economic Activities (SIC)</i> , Fifth Edition, Report No. 09-90-02, was used to classify the statistical units in the survey. The SIC is based on the 1990 <i>International Standard Industrial Classification of all Economic Activities (ISIC)</i> with suitable adaptations for local conditions. Statistics in this publication are presented at SIC division (four digit) level. Each enterprise is classified to the industry, which reflects its predominant activity. |
| Statistical unit | 5 | The statistical unit for which information is compiled and published is the enterprise, defined as a legal unit or a combination of legal units that includes and directly controls all functions necessary to carry out its sales activities. |
| Survey methodology and design | 6 | The survey is conducted monthly. Questionnaires are sent to a sample of about 1000 enterprises from a population of about 19 000 enterprises. Completed questionnaires are required to be returned to Stats SA within 10 days after the end of the reference month. Fax and telephone reminders are used to follow up non-respondents. |

- 7 The value of sales is obtained monthly from the sample of about 1000 enterprises (which was drawn in April 2006 at the SIC four-digit level) from a population then of about 19 000 wholesale enterprises. The wholesale industry is divided into four size groups. All large enterprises (size group one) are completely enumerated. Simple random sampling is applied to size groups two (medium sized), three and four (small) enterprises. The total value of sales of the large enterprises (size group one) is added to the weighted totals of size groups two, three and four to reflect the total value of sales.
- Weighting methodology** 8 For those strata not completely enumerated, the weights to produce estimates are the inverse ratio of the sampling fraction, modified to take account of non-response in the survey. Stratum estimates are calculated and then aggregated with the completely enumerated stratum to form division estimates. These procedures, which are in line with international best practice, are described in more detail on the Stats SA website at <http://www.statssa.gov.za/publications/publicationsearch.asp>.
- Constant prices** 9 The total sales at constant prices are calculated using a combination of the production price indices for consumption in South Africa and total output of South African industry groups from the Production Price Index (PPI) to deflate the sales at current prices. Sales by type of dealer will not be deflated until suitable deflators are found.
- Seasonal adjustment** 10 Seasonally adjusted estimates are generated each month, using the X-11 Seasonal Adjustment Program developed by the US Bureau of the Census, 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. Therefore the month-to-month movements of seasonally adjusted estimates may not be reliable indicators of trend behaviour.
- Trend cycle** 11 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 to estimates of the underlying trend cycle.
- Reliability of estimates** 12 Data presented in this publication are based on information obtained from a sample and are, therefore, subject to sampling variability; that is, they may differ from the figures that would have been produced if the data had been obtained from all enterprises in the wholesale industry in South Africa. Estimates are subject to sampling and non-sampling errors. Preliminary figures are indicated in the tables.
- 13 Inaccuracies may occur because of imperfections in reporting by enterprises and errors made in the collection and processing of the data. Inaccuracies of this kind are referred to as non-sampling errors. Every effort is made to minimise non-sampling errors by careful design of questionnaires, testing them in pilot studies, editing reported data and implementing efficient operating procedures. Fluctuations may occur in consecutive months as a result of seasonal and economic factors.
- Revised figures** 14 Revised figures are due to respondents reporting revisions or corrections to their figures and late submission of their data to Stats SA. Preliminary figures are indicated in the relevant tables. Data are edited at the enterprise level.

- Related publications** 15 Users may also wish to refer to the following publications available from Stats SA -
- *Bulletin of Statistics* issued quarterly.
 - *SA Statistics* issued annually.
- Rounding of figures** 16 Where figures have been rounded-off discrepancies may occur between sums of the component items and the totals.
- Pre-release policy** 17 Stats SA's pre-release policy may be inspected at its Website, www.statssa.gov.za.
- Symbols and abbreviations** 18
- | | |
|----------|---|
| BSF | Business sampling frame |
| GDP | Gross Domestic Product |
| ISIC | International Standard Industrial Classification |
| SIC | Standard Industrial Classification of all Economic Activities |
| SARS | South African Revenue Service |
| Stats SA | Statistics South Africa |
| VAT | Value-added tax |
| * | Revised |
| - | Figures not available |

Technical note

Neyman optimal allocation

Before drawing in each of the surveys the population of enterprises on the Business Sampling Frame (BSF) was stratified. Strata were formed using a combination of Standard Industrial Classification and the measure of size classes for enterprises. The Neyman optimal allocation formula given below was used to allocate samples to each stratum.

$$n_h = \frac{N_h S_h}{\sum N_h S_h}$$

where N_h and S_h are the stratum population size and the stratum variance, respectively.

Neyman allocation formula not only allocates sample sizes to each stratum but also calculates the relative precision for each stratum as well as the relative precision for all strata. The relative precision for these surveys did not exceed 6,4%.

Class limits

Enterprise size	Size Group	Lower limits	Upper limits
Very small	4	0	6 000 000
Small	3	6 000 001	32 000 000
Medium	2	32 000 001	64 000 000
Large	1	64 000 001	

Glossary

Enterprise	The enterprise is a legal entity or a combination of legal units that includes and directly controls all functions necessary to carry out its sales activities.
Industry	An industry is made up of enterprises engaged in the same or similar kinds of economic activity. Industries are defined in the <i>System of National Accounts (SNA)</i> in the same way as in the <i>Standard Industrial Classification of all Economic Activities, Fifth Edition, Report No. 09-90-02 of January 1993 (SIC)</i> .
Statistical unit	A statistical unit is a unit about which statistics are tabulated, compiled or published. The statistical units are derived from and linked to the South African Revenue Service (SARS) administrative data.
Wholesale trade	Wholesale trade includes the resale (sale without transformation) of new and used goods and products to other wholesalers, retailers, agricultural, industrial, commercial, institutional and professional users either directly or through agents on a fee or contract basis.
Wholesaler	A wholesaler is an enterprise deriving 50% or more of its turnover from sales of goods to other businesses and institutions.

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