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# Statistical release

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### Wholesale trade sales (Preliminary)

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(012) 310 8600 / 4892 / 8390

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## Summary of findings: Wholesale trade sales

Table A – Key figures for May 2010

Actual wholesale trade sales estimates	May 2010 (R million)	% change between May 2009 and May 2010	% change between March to May 2009 and March to May 2010	% change between January to May 2009 and January to May 2010
At current prices	88 543	10,1	6,5	2,3
At constant 2000 prices	46 774	3,1	1,2	-2,0

Seasonally adjusted wholesale trade estimates	May 2010 (R million)	% change between April and May 2010	% change between December 2009 to February 2010 and March to May 2010
At current prices	89 795	-0,5	3,3
At constant 2000 prices	47 381	-0,2	2,4

### Key findings for May 2010

#### Wholesale trade sales in real terms

**Wholesale trade sales, at constant 2000 prices, for the three months ended May 2010 increased by 1,2% compared with the three months ended May 2009, while sales for the same period in 2009 decreased by 11,8%. Seasonally adjusted wholesale trade sales for the three months ended May 2010 increased by 2,4% compared with the three months ended February 2010.**

Wholesale trade sales, at constant 2000 prices, for May 2010 increased by 3,1% compared with May 2009.

#### Wholesale trade sales in nominal terms

Wholesale trade sales, at current prices, for the three months ended May 2010 increased by 6,5% compared with the three months ended May 2009. The major contributor to this increase was dealers in 'Solid, liquid and gaseous fuels and related products' (29,7% and contributing 4,4 percentage points) – see Table B on page 3.

Wholesale trade sales, at current prices, for May 2010 increased by 10,1% compared with May 2009, while sales for the corresponding period in 2009 decreased by 15,9% – see Table 3 on page 7. Large year-on-year percentage increases were recorded for wholesale trade in 'Solid, liquid and gaseous fuels and related products' (37,6%) and 'Metals and metal ores' (24,2%) and on a 'Fee or contract basis' (23,3%) – see Table 1 on page 5.

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

Type of wholesale dealer	Sales March to May 2009 (R million)	Weight 1/	Sales March to May 2010 (R million)	Difference in sales between March to May 2009 and March to May 2010 (R million)	Percentage change between March to May 2009 and March to May 2010	Contribution (percentage points) to the percentage change in total sales 2/
<b>Fee or contract basis</b>	11 052	4,5	11 995	943	8,5	0,4
<b>Agricultural raw materials and livestock</b>	9 986	4,0	9 246	-740	-7,4	-0,3
<b>Food, beverages and tobacco</b>	51 048	20,7	51 746	698	1,4	0,3
<b>Textiles, clothing and footwear</b>	8 902	3,6	8 046	-856	-9,6	-0,3
<b>Other household goods except precious stones</b>	24 024	9,7	26 270	2 246	9,3	0,9
<b>Precious stones, jewellery and silverware</b>	4 386	1,8	3 981	-405	-9,2	-0,2
<b>Solid, liquid and gaseous fuels and related products</b>	36 746	14,9	47 669	10 923	29,7	4,4
<b>Metals and metal ores</b>	6 907	2,8	8 272	1 365	19,8	0,6
<b>Construction and building materials</b>	13 589	5,5	14 577	988	7,3	0,4
<b>Other intermediate products, waste and scrap</b>	8 086	3,3	9 575	1 489	18,4	0,6
<b>Machinery, equipment and supplies</b>	48 043	19,4	47 503	-540	-1,1	-0,2
<b>Other goods</b>	24 333	9,8	24 267	-66	-0,3	0,0
<b>Total 3/</b>	<b>247 103</b>	<b>100,0</b>	<b>263 146</b>	<b>16 043</b>	<b>6,5</b>	<b>6,5</b>

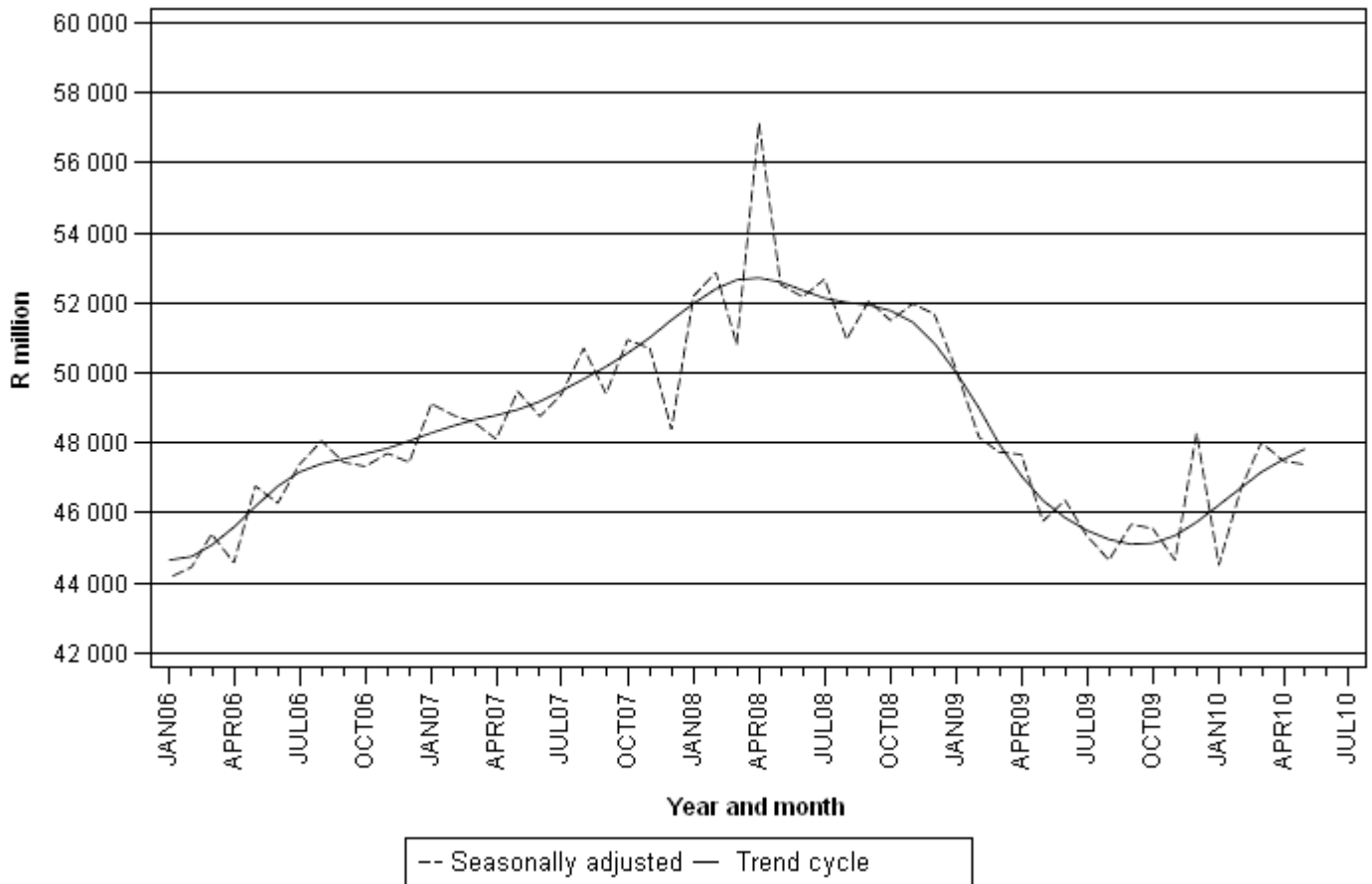
1/ Weight is the percentage contribution of each type of dealer to the total wholesale trade sales for the three months up to the current month of the previous year.

2/ The contribution to the percentage change is calculated by multiplying the percentage change of each type of dealer with its corresponding weight, divided by 100.

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

Figure 1 below shows the seasonally adjusted and trend patterns for wholesale trade sales at constant 2000 prices between January 2006 and May 2010.

**Figure 1 – Wholesale trade sales at constant 2000 prices**



**PJ Lehohla**  
**Statistician-General**

**Detailed results**

Outlined below in Table 1 are wholesale trade sales according to type of dealer (see description of type of dealer on page 6).

**Table 1 – Wholesale trade sales according to the type of dealer at current prices (R million)**

Year and 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/	
<b>2009</b>	<b>January</b>	3 451	3 504	17 232	1 786	7 397	395	14 918	2 559	3 660	3 069	15 822	7 272	81 065
	<b>February</b>	3 931	3 516	17 181	2 595	7 801	838	12 054	2 560	4 616	2 799	16 712	7 950	82 551
	<b>March</b>	4 238	3 452	17 430	3 125	8 314	1 410	12 955	2 456	4 860	2 811	18 260	8 090	87 401
	<b>April</b>	3 690	3 057	16 484	2 883	7 679	1 326	11 733	2 161	4 156	2 442	15 583	8 099	79 294
	<b>May</b>	3 124	3 477	17 134	2 894	8 031	1 650	12 058	2 290	4 573	2 833	14 200	8 144	80 408
	<b>June</b>	3 156	3 530	16 727	2 526	8 138	889	12 733	2 471	4 620	2 799	17 074	7 998	82 660
	<b>July</b>	4 005	3 743	16 375	2 436	8 216	713	14 540	2 604	4 826	2 975	14 879	8 152	83 465
	<b>August</b>	3 625	3 499	16 852	2 635	8 116	865	14 091	2 420	4 399	3 043	15 113	7 422	82 080
	<b>September</b>	3 719	3 531	17 648	2 890	8 527	818	13 151	2 540	4 580	3 305	14 996	7 748	83 452
	<b>October</b>	3 562	3 653	17 333	2 806	9 212	1 514	14 758	2 718	5 075	3 857	16 098	8 146	88 734
	<b>November</b>	3 935	3 926	19 207	3 017	9 392	854	14 495	2 657	5 139	3 959	15 880	8 727	91 187
	<b>December</b>	4 310	3 826	21 853	2 317	8 587	1 040	14 218	1 837	3 336	3 157	15 245	8 510	88 237
<b>Total</b>	<b>44 746</b>	<b>42 714</b>	<b>211 456</b>	<b>31 910</b>	<b>99 410</b>	<b>12 312</b>	<b>161 704</b>	<b>29 273</b>	<b>53 840</b>	<b>37 049</b>	<b>189 862</b>	<b>96 258</b>	<b>1 010 534</b>	
<b>2010</b>	<b>January</b>	3 645	2 855	16 395	1 974	7 012	481	13 964	2 223	3 550	2 777	12 382	6 956	74 215
	<b>February</b>	4 205	3 191	16 869	2 511	7 836	1 637	14 140	2 378	4 252	3 226	14 450	8 133	82 828
	<b>March</b>	4 556	3 167	17 116	2 910	8 765	1 259	15 960	2 708	5 070	3 449	17 287	8 918	91 164
	<b>April</b>	3 586	2 983	16 344	2 714	8 767	922	15 117	2 719	4 635	3 047	15 103	7 502	83 439
	<b>May</b>	3 853	3 096	18 286	2 422	8 738	1 800	16 592	2 845	4 872	3 079	15 113	7 847	88 543

1/ Figures are 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 dealer included in a specific group type as indicated in Table 1 <sup>1/</sup>**

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

1/ See note 4 on page 10 for more detailed specifications.

Tables 2 and 3 show total wholesale trade sales (actual values and annual percentage changes) at current prices over the period January 2003 – May 2010. 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	2003	2004	2005	2006	2007	2008	2009 <sup>1/</sup>	2010 <sup>1/</sup>
January	40 062	41 939	46 928	52 090	64 361	76 951	81 065	74 215
February	45 830	47 367	49 121	57 126	69 033	84 389	82 551	82 828
March	47 146	51 276	52 456	61 827	73 914	88 051	87 401	91 164
April	43 702	45 793	53 945	56 006	67 807	92 047	79 294	83 439
May	46 195	55 277	56 105	65 003	76 783	95 651	80 408	88 543
June	47 725	56 921	58 174	65 780	76 898	97 161	82 660	
July	48 634	54 529	58 010	67 931	78 594	100 818	83 465	
August	46 680	55 617	59 757	70 545	81 251	97 819	82 080	
September	47 690	56 250	62 070	70 571	80 308	98 971	83 452	
October	50 224	60 896	64 151	75 177	88 666	103 572	88 734	
November	51 276	64 891	68 746	80 073	92 720	107 541	91 187	
December	43 828	55 988	59 483	69 604	78 286	93 653	88 237	
<b>Total</b>	<b>558 992</b>	<b>646 744</b>	<b>688 946</b>	<b>791 733</b>	<b>928 621</b>	<b>1 136 624</b>	<b>1 010 534</b>	

1/ Preliminary

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

Month	2003	2004	2005	2006	2007	2008	2009	2010
January	8,7	4,7	11,9	11,0	23,6	19,6	5,3	-8,5
February	18,0	3,4	3,7	16,3	20,8	22,2	-2,2	0,3
March	14,1	8,8	2,3	17,9	19,5	19,1	-0,7	4,3
April	6,2	4,8	17,8	3,8	21,1	35,7	-13,9	5,2
May	10,2	19,7	1,5	15,9	18,1	24,6	-15,9	10,1
June	15,9	19,3	2,2	13,1	16,9	26,4	-14,9	
July	20,0	12,1	6,4	17,1	15,7	28,3	-17,2	
August	11,7	19,1	7,4	18,1	15,2	20,4	-16,1	
September	8,8	17,9	10,3	13,7	13,8	23,2	-15,7	
October	2,1	21,2	5,3	17,2	17,9	16,8	-14,3	
November	5,6	26,6	5,9	16,5	15,8	16,0	-15,2	
December	-0,5	27,7	6,2	17,0	12,5	19,6	-5,8	
<b>Total</b>	<b>9,8</b>	<b>15,7</b>	<b>6,5</b>	<b>14,9</b>	<b>17,3</b>	<b>22,4</b>	<b>-11,1</b>	

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

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

Month	2003	2004	2005	2006	2007	2008	2009	2010
January	45 085	47 704	53 821	59 844	73 767	87 803	92 273	84 390
February	47 408	49 383	51 712	60 597	73 612	90 027	87 968	88 253
March	46 917	51 192	52 470	61 982	73 969	87 739	86 727	90 368
April	46 854	49 555	58 826	61 275	74 146	100 226	85 985	90 277
May	45 859	54 894	55 635	64 643	76 712	96 140	81 218	89 795
June	47 032	55 999	57 247	64 838	76 051	96 490	82 205	
July	49 058	54 505	57 569	66 946	77 058	98 526	81 466	
August	46 632	55 120	58 785	69 068	79 436	95 733	80 433	
September	46 815	55 021	60 701	68 979	78 547	96 918	81 893	
October	46 381	56 191	59 207	69 501	81 973	95 705	81 920	
November	46 070	57 808	60 836	70 850	82 249	95 876	81 458	
December	44 170	56 703	60 364	70 576	79 306	94 819	89 255	



Tables 5 and 6 show total wholesale trade sales (actual values and annual percentage changes) at constant 2000 prices over the period January 2003 – May 2010. 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	2003	2004	2005	2006	2007	2008	2009 <sup>1/</sup>	2010 <sup>1/</sup>
January	31 935	33 645	36 864	38 844	43 517	46 665	45 036	40 138
February	36 460	37 788	38 451	42 536	46 550	50 472	46 015	44 627
March	37 507	40 939	40 838	45 815	49 161	51 613	48 664	48 960
April	34 781	36 214	41 656	41 090	44 376	52 870	44 249	44 148
May	37 164	43 663	43 108	47 172	49 633	52 354	45 377	46 774
June	37 892	44 228	44 038	46 389	48 654	51 819	45 948	
July	38 370	42 419	43 437	47 093	49 121	52 373	45 067	
August	36 974	43 231	44 545	48 022	50 514	50 552	44 177	
September	38 228	44 031	46 547	48 386	50 350	53 011	46 414	
October	40 276	47 445	48 089	51 089	55 055	55 744	49 379	
November	41 268	50 518	51 265	54 049	57 394	58 637	50 324	
December	35 232	43 792	44 324	47 189	48 280	51 656	48 349	
<b>Total</b>	<b>446 087</b>	<b>507 913</b>	<b>523 162</b>	<b>557 674</b>	<b>592 605</b>	<b>627 766</b>	<b>558 999</b>	

1/ Preliminary

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

Month	2003	2004	2005	2006	2007	2008	2009	2010
January	0,6	5,4	9,6	5,4	12,0	7,2	-3,5	-10,9
February	11,2	3,6	1,8	10,6	9,4	8,4	-8,8	-3,0
March	8,5	9,2	-0,2	12,2	7,3	5,0	-5,7	0,6
April	2,7	4,1	15,0	-1,4	8,0	19,1	-16,3	-0,2
May	8,5	17,5	-1,3	9,4	5,2	5,5	-13,3	3,1
June	13,1	16,7	-0,4	5,3	4,9	6,5	-11,3	
July	17,6	10,6	2,4	8,4	4,3	6,6	-13,9	
August	11,0	16,9	3,0	7,8	5,2	0,1	-12,6	
September	9,3	15,2	5,7	4,0	4,1	5,3	-12,4	
October	3,3	17,8	1,4	6,2	7,8	1,3	-11,4	
November	7,6	22,4	1,5	5,4	6,2	2,2	-14,2	
December	0,8	24,3	1,2	6,5	2,3	7,0	-6,4	
<b>Total</b>	<b>7,8</b>	<b>13,9</b>	<b>3,0</b>	<b>6,6</b>	<b>6,3</b>	<b>5,9</b>	<b>-11,0</b>	

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

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

Month	2003	2004	2005	2006	2007	2008	2009	2010
January	35 864	38 091	41 958	44 144	49 112	52 196	50 055	44 503
February	37 617	39 160	40 054	44 444	48 781	52 866	48 161	46 706
March	37 187	40 575	40 446	45 391	48 590	50 806	47 733	48 006
April	37 149	38 967	45 077	44 570	48 104	57 134	47 668	47 475
May	36 788	43 190	42 583	46 763	49 472	52 516	45 759	47 381
June	37 517	43 821	43 761	46 270	48 753	52 171	46 357	
July	38 991	42 877	43 778	47 377	49 387	52 677	45 346	
August	37 250	43 379	44 568	48 054	50 706	50 962	44 649	
September	37 501	43 115	45 636	47 440	49 400	52 060	45 668	
October	37 244	43 884	44 512	47 327	50 945	51 491	45 549	
November	37 071	44 992	45 325	47 698	50 697	51 975	44 649	
December	35 449	44 197	44 699	47 442	48 384	51 674	48 286	

**Estimates and percentage changes in total wholesale trade sales**

Outlined below in Tables 8.1 and 8.2 are the percentage changes in the actual and seasonally adjusted wholesale trade sales at current prices and at constant 2000 prices.

**Table 8.1 – Three-monthly and annual cumulative estimates and percentage changes**

Actual wholesale trade sales estimates	March to May 2009 (R million)	March to May 2010 (R million)	% change between March to May 2009 and March to May 2010	January to May 2009 (R million)	January to May 2010 (R million)	% change between January to May 2009 and January to May 2010
<b>At current prices</b>	247 103	263 146	6,5	410 719	420 189	2,3
<b>At constant 2000 prices</b>	138 290	139 882	1,2	229 341	224 647	-2,0

**Table 8.2 – Seasonally adjusted monthly and three-monthly estimates and percentage changes**

Seasonally adjusted wholesale trade sales estimates	April 2010 (R million)	May 2010 (R million)	% change between April and May 2010	December 2009 to February 2010 (R million)	March to May 2010 (R million)	% change between December 2009 to February 2010 and March to May 2010
<b>At current prices</b>	90 277	89 795	-0,5	261 898	270 440	3,3
<b>At constant 2000 prices</b>	47 475	47 381	-0,2	139 495	142 862	2,4

## Explanatory notes

<b>Introduction</b>	<b>1</b>	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 2009 Business Sampling Frame (BSF) that contains businesses registered for value added tax (VAT).
	<b>2</b>	As is usual, information for the latest month 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.
<b>Purpose of the survey</b>	<b>3</b>	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.
<b>Scope of the survey</b>	<b>4</b>	This survey covers wholesale enterprises according to the following types of dealer: <ul style="list-style-type: none"> <li>• Wholesale trade on a fee or contract basis</li> <li>• Sales by commission agents, commodity brokers, auctioneers and other wholesale trade on a fee or contract basis;</li> <li>• Wholesale trade in agricultural raw materials and livestock;</li> <li>• Wholesale trade in food, beverages and tobacco;</li> <li>• Wholesale trade in textiles, clothing and footwear;</li> <li>• Wholesale trade in other household goods except precious stones</li> <li>• 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;</li> <li>• Wholesale trade in precious stones, jewellery and silverware;</li> <li>• Wholesale trade in solid, liquid and gaseous fuels and related products;</li> <li>• Wholesale trade in metals and metal ores;</li> <li>• Wholesale trade in construction and building materials</li> <li>• Wholesale trade in construction materials, hardware, plumbing and heating equipment and supplies;</li> <li>• Wholesale trade in machinery, equipment and supplies;</li> <li>• Wholesale trade in other intermediate products, waste and scrap;</li> <li>• Wholesale trade in other goods; and</li> <li>• General wholesale trade and other wholesale trade not classified elsewhere.</li> </ul>
<b>Classification</b>	<b>5</b>	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. Each enterprise is classified to the industry which reflects its predominant activity. Statistics in this publication are presented at SIC group (four digit) level.
<b>Response rate</b>	<b>6</b>	The preliminary response rate for the survey on wholesale trade sales for May 2010 was 85,5%. The improved response rate for the survey on wholesale trade sales for April 2010 was 93,3%.
<b>Statistical unit</b>	<b>7</b>	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.
<b>Survey methodology and design</b>	<b>8</b>	The survey is conducted monthly. Questionnaires are sent to a sample of about 1 000 enterprises from a population of about 20 000 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.

- 9 The value of sales is obtained monthly from the sample of about 1 000 enterprises (which was drawn in April 2009 at the SIC four-digit level) from a population of about 20 000 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 the remaining size groups (medium, small and very small size 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** 10 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 group 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** 11 The total sales at constant prices are calculated using a combination of the Production Price Indices (PPI) for consumption in South Africa and for total output of South African industry groups to deflate the sales at current prices. However, with the discontinuation of the PPI for consumption in South Africa in January 2008, total sales at constant prices are calculated using the total output of South African industry groups from the PPI to deflate the sales at current prices.
- Seasonal adjustment** 12 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** 13 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** 14 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.
- 15 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** 16 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** 17 Users may also wish to refer to the following publications available from Stats SA:
- *Bulletin of Statistics* issued quarterly
  - *SA Statistics* issued annually
- Rounding-off of figures** 18 Where figures have been rounded off discrepancies may occur between sums of the component items and the totals.

**Pre-release policy**      **19**      Stats SA's pre-release policy may be inspected at its website, [www.statssa.gov.za](http://www.statssa.gov.za).

**Symbols and abbreviations**      **20**

BR	Business Register
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**

A stratified random sample was drawn from the population of enterprises on Stats SA’s Business Sampling Frame (BSF). 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.

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

$N_h$  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 strata did not exceed 5,6%.

**Class limits**

Enterprise size	Size group	Lower limits	Upper limits
Very small	4	0	24 000 000
Small	3	24 000 001	128 000 000
Medium	2	128 000 001	256 000 000
Large	1	256 000 001	

**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 *System of National Accounts (SNA)* in the same way as in the *Standard Industrial Classification of all Economic Activities, Fifth Edition, Report No. 09-90-02 of January 1993 (SIC)*.

**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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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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### Enquiries

Telephone number: (012) 310 8600/8390/8351/4892/8496/8095 (user information services)  
(012) 310 8930 (technical enquiries)  
(012) 310 8358 (orders)  
(012) 310 4883/8018/4885 (library)

Fax number: (012) 310 8332 (technical enquiries)

Email address: [Nthabisengs@statssa.gov.za](mailto:Nthabisengs@statssa.gov.za) (technical enquiries)  
[Info@statssa.gov.za](mailto:Info@statssa.gov.za) (user information services)  
[magdaj@statssa.gov.za](mailto:magdaj@statssa.gov.za) (orders)

Postal address: Private Bag X44, Pretoria, 0001

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