## Statistical release

# Wholesale trade sales <br> (Preliminary) 

## June 2013

This is the first statistical release presenting seasonally adjusted wholesale trade sales using the X-12-ARIMA seasonal adjustment program.

## Embargoed until: <br> 15 August 2013 <br> 10:00

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## Sales at constant 2012 prices: results for June 2013

Table A - Key growth rates in wholesale trade sales at constant 2012 prices

|  | Jan-13 | Feb-13 | Mar-13 | Apr-13 | May-13 | Jun-13 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Year-on-year \% change, unadjusted | 6,7 | 2,2 | $-0,5$ | 8,4 | 7,5 | 7,5 |
| Month-on-month \% change, seasonally adjusted | 1,1 | 1,2 | $-1,0$ | 0,0 | 2,8 | $-0,2$ |
| 3-month \% change, seasonally adjusted 1/ | 2,3 | 1,8 | 1,3 | 1,0 | 1,1 | 1,6 |

1/ Percentage change between the previous 3 months and the 3 months ending in the month indicated.
Measured in real terms (constant 2012 prices), wholesale trade sales increased by 7,5\% year-on-year in June 2013. Seasonally adjusted wholesale trade sales decreased by $0,2 \%$ in June 2013 compared with May 2013. This followed month-on-month changes of 2,8\% in May 2013 and 0,0\% in April 2013.

Seasonally adjusted wholesale trade sales increased by $1,6 \%$ in the second quarter of 2013 compared with the previous quarter.

Figure 1 - Wholesale trade sales at constant 2012 prices


## Sales at current prices: results for June 2013

Table B - Key growth rates in wholesale trade sales at current prices

|  | Jan-13 | Feb-13 | Mar-13 | Apr-13 | May-13 | Jun-13 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Year-on-year \% change, unadjusted | 12,9 | 7,6 | 5,1 | 14,0 | 12,1 | 13,1 |
| Month-on-month \% change, seasonally adjusted | 1,8 | 1,1 | $-0,2$ | 0,1 | 3,6 | 0,0 |
| 3-month \% change, seasonally adjusted 1/ | 3,4 | 2,1 | 1,4 | 1,6 | 2,4 | 2,7 |

1/ Percentage change between the previous 3 months and the 3 months ending in the month indicated,

Measured in nominal terms (current prices), wholesale trade sales increased by 13,1\% in June 2013 compared with June 2012. The major contributors to this increase were dealers in:

- solid, liquid and gaseous fuels and related products (20,0\% and contributing 4,7 percentage points);
- food, beverages and tobacco (21,4\% and contributing 3,1 percentage points); and
- 'other' households goods except precious stones (16,9\% and contributing 2,0 percentage points) - see Tables 8 and 9.

Table C - Wholesale trade sales at current prices for the latest three months by type of dealer

| Type of dealer | Apr - Jun $2012$ <br> ( R million) | Weight | Apr - Jun 2013 <br> (R million) | \% change between Apr - Jun 2012 and <br> Apr - Jun 2013 | Contribution (\% points) to the total \% change |
| :---: | :---: | :---: | :---: | :---: | :---: |
| Fee or contract basis | 16728 | 5,3 | 18678 | 11,7 | 0,6 |
| Agricultural raw materials and livestock | 17080 | 5,4 | 22516 | 31,8 | 1,7 |
| Food, beverages and tobacco | 47912 | 15,1 | 55336 | 15,5 | 2,3 |
| Textiles, clothing and footwear | 7059 | 2,2 | 7600 | 7,7 | 0,2 |
| Other household goods except precious stones | 35514 | 11,2 | 42860 | 20,7 | 2,3 |
| Precious stones, jewellery and silverware | 3452 | 1,1 | 4283 | 24,1 | 0,3 |
| Solid, liquid and gaseous fuels and related products | 77586 | 24,4 | 86246 | 11,2 | 2,7 |
| Metal and metal ores | 10565 | 3,3 | 11575 | 9,6 | 0,3 |
| Construction and building materials | 15709 | 4,9 | 16746 | 6,6 | 0,3 |
| Other intermediate products, waste and scrap | 11747 | 3,7 | 13256 | 12,8 | 0,5 |
| Machinery, equipment and supplies | 42702 | 13,4 | 44625 | 4,5 | 0,6 |
| Other goods | 31623 | 10,0 | 35355 | 11,8 | 1,2 |
| Total | 317678 | 100,0 | 359073 | 13,0 | 13,0 |

Wholesale trade sales increased by $13,0 \%$ in the second quarter of 2013 compared with the second quarter of 2012. The major contributors to this increase were dealers in:

- solid, liquid and gaseous fuels and related products ( $11,2 \%$ and contributing 2,7 percentage points);
- 'other' household goods except precious stones (20,7\% and contributing 2,3 percentage points); and
- food, beverages and tobacco (15,5\% and contributing 2,3 percentage points) - see Table C.


## PJ Lehohla <br> Statistician-General

## Tables

Table 1 - Wholesale trade sales at constant 2012 prices (R million)

| Month | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 1/ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Jan | 84717 | 91639 | 89233 | 80307 | 85357 | 96439 | 102909 |
| Feb | 90313 | 99060 | 91282 | 89365 | 92713 | 107211 | 109542 |
| Mar | 95198 | 101062 | 96540 | 97944 | 103615 | 111334 | 110827 |
| Apr | 85974 | 103726 | 87716 | 89216 | 92885 | 102389 | 110993 |
| May | 96066 | 102417 | 89996 | 94581 | 99406 | 110269 | 118493 |
| Jun | 95281 | 103191 | 93322 | 95917 | 103399 | 106579 | 114616 |
| Jul | 96794 | 105852 | 93676 | 96314 | 99413 | 107887 |  |
| Aug | 99660 | 102199 | 91973 | 98091 | 106110 | 113527 |  |
| Sep | 98275 | 105021 | 93911 | 100065 | 109402 | 109119 |  |
| Oct | 107289 | 110161 | 99163 | 99849 | 110507 | 121889 |  |
| Nov | 111779 | 116023 | 100978 | 110793 | 117696 | 128825 |  |
| Dec | 94092 | 102352 | 96920 | 102963 | 109823 | 113462 |  |
| Total | 1155438 | 1242703 | 1124710 | 1155405 | 1230326 | 1328930 |  |

1/ Latest month is preliminary.

Table 2 - Year-on-year percentage change in wholesale trade sales at constant 2012 prices

| Month | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | $\begin{gathered} 2013 \\ \text { year-to-date } \end{gathered}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Jan | 8,2 | -2,6 | -10,0 | 6,3 | 13,0 | 6,7 | 6,7 |
| Feb | 9,7 | -7,9 | -2,1 | 3,7 | 15,6 | 2,2 | 4,3 |
| Mar | 6,2 | -4,5 | 1,5 | 5,8 | 7,4 | -0,5 | 2,6 |
| Apr | 20,6 | -15,4 | 1,7 | 4,1 | 10,2 | 8,4 | 4,0 |
| May | 6,6 | -12,1 | 5,1 | 5,1 | 10,9 | 7,5 | 4,8 |
| Jun | 8,3 | -9,6 | 2,8 | 7,8 | 3,1 | 7,5 | 5,2 |
| Jul | 9,4 | -11,5 | 2,8 | 3,2 | 8,5 |  |  |
| Aug | 2,5 | -10,0 | 6,7 | 8,2 | 7,0 |  |  |
| Sep | 6,9 | -10,6 | 6,6 | 9,3 | -0,3 |  |  |
| Oct | 2,7 | -10,0 | 0,7 | 10,7 | 10,3 |  |  |
| Nov | 3,8 | -13,0 | 9,7 | 6,2 | 9,5 |  |  |
| Dec | 8,8 | -5,3 | 6,2 | 6,7 | 3,3 |  |  |
| Total | 7,6 | -9,5 | 2,7 | 6,5 | 8,0 |  |  |

Table 3 - Seasonally adjusted wholesale trade sales at constant 2012 prices

| Month | R million |  |  |  | Month-on-month \% change |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ |
| Jan | 92246 | 97464 | 109110 | 114266 | $-2,2$ | $-2,8$ | 0,7 | 1,1 |
| Feb | 94721 | 98137 | 108605 | 115601 | 2,7 | 0,7 | $-0,5$ | 1,2 |
| Mar | 96509 | 99588 | 109510 | 114500 | 1,9 | 1,5 | 0,8 | $-1,0$ |
| Apr | 94087 | 101284 | 110669 | 114554 | $-2,5$ | 1,7 | 1,1 | 0,0 |
| May | 96601 | 100462 | 109304 | 117793 | 2,7 | $-0,8$ | $-1,2$ | 2,8 |
| Jun | 95529 | 102860 | 108304 | 117546 | $-1,1$ | 2,4 | $-0,9$ | $-0,2$ |
| Jul | 96903 | 101980 | 109295 |  | 1,4 | $-0,9$ | 0,9 |  |
| Aug | 97251 | 103433 | 111009 |  | 0,4 | 1,4 | 1,6 |  |
| Sep | 97652 | 107866 | 109940 |  | 0,4 | 4,3 | $-1,0$ |  |
| Oct | 95347 | 104949 | 112828 |  | $-2,4$ | $-2,7$ | 2,6 |  |
| Nov | 98076 | 103760 | 114059 |  | 2,9 | $-1,1$ | 1,1 |  |
| Dec | 100270 | 108357 | 113037 |  | 2,2 | 4,4 | $-0,9$ |  |

Table 4 - Wholesale trade sales at current prices ( R million)

| Month | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 1/ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Jan | 61041 | 72982 | 76883 | 70387 | 77968 | 93702 | 105804 |
| Feb | 65472 | 80035 | 78293 | 78555 | 86046 | 105026 | 113002 |
| Mar | 70100 | 83509 | 82893 | 86462 | 97154 | 109686 | 115318 |
| Apr | 64309 | 87299 | 75203 | 79638 | 87184 | 101455 | 115610 |
| May | 72823 | 90717 | 76261 | 84446 | 93566 | 110073 | 123365 |
| Jun | 72931 | 92148 | 78396 | 86151 | 97631 | 106150 | 120098 |
| Jul | 74540 | 95617 | 79160 | 86119 | 94831 | 107517 |  |
| Aug | 77060 | 92773 | 77847 | 87981 | 102293 | 113859 |  |
| Sep | 76166 | 93866 | 79148 | 89383 | 106566 | 109756 |  |
| Oct | 84092 | 98229 | 84156 | 89210 | 107989 | 123658 |  |
| Nov | 87938 | 101994 | 86484 | 99690 | 115430 | 131874 |  |
| Dec | 74247 | 88822 | 83685 | 92928 | 107644 | 116175 |  |
| Total | 880719 | 1077991 | 958409 | 1030950 | 1174302 | 1328931 |  |

1 / Latest month is preliminary.

Table 5 - Year-on-year percentage change in wholesale trade sales at current prices

| Month | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 3}$ <br> year-to-date |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Jan | $\mathbf{1 9 , 6}$ | 5,3 | $-8,4$ | 10,8 | 20,2 | $\mathbf{1 2 , 9}$ | $\mathbf{1 2 , 9}$ |
| Feb | 22,2 | $-2,2$ | 0,3 | 9,5 | 22,1 | $\mathbf{7 , 6}$ | $\mathbf{1 0 , 1}$ |
| Mar | 19,1 | $-0,7$ | 4,3 | 12,4 | 12,9 | 5,1 | 8,3 |
| Apr | 35,7 | $-13,9$ | 5,9 | 9,5 | 16,4 | 14,0 | 9,7 |
| May | 24,6 | $-15,9$ | 10,7 | 10,8 | 17,6 | 12,1 | 10,2 |
| Jun | 26,3 | $-14,9$ | 9,9 | 13,3 | 8,7 | 13,1 | 10,7 |
| Jul | 28,3 | $-17,2$ | 8,8 | 10,1 | 13,4 |  |  |
| Aug | 20,4 | $-16,1$ | 13,0 | 16,3 | 11,3 |  |  |
| Sep | 23,2 | $-15,7$ | 12,9 | 19,2 | 3,0 |  |  |
| Oct | 16,8 | $-14,3$ | 6,0 | 21,1 | 14,5 |  |  |
| Nov | 16,0 | $-15,2$ | 15,3 | 15,8 | 14,2 |  |  |
| Dec | 19,6 | $-5,8$ | 11,0 | 15,8 | 7,9 |  |  |
| Total | $\mathbf{2 2 , 4}$ | $\mathbf{- 1 1 , 1}$ | $\mathbf{7 , 6}$ | $\mathbf{1 3 , 9}$ | $\mathbf{1 3 , 2}$ |  |  |

Table 6 - Seasonally adjusted wholesale trade sales at current prices

| Month | R million |  |  |  | Month-on-month \% change |  |  |  |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ | $\mathbf{2 0 1 3}$ |
| Jan | 80418 | 88995 | 105197 | 117218 | $-3,1$ | $\mathbf{- 3 , 2}$ | $\mathbf{- 1 , 2}$ | 1,8 |
| Feb | 82646 | 90492 | 109328 | 118555 | 2,8 | 1,7 | 3,9 | 1,1 |
| Mar | 85028 | 93610 | 106491 | 118300 | 2,9 | 3,4 | $-2,6$ | $-0,2$ |
| Apr | 83633 | 94004 | 108710 | 118406 | $-1,6$ | 0,4 | 2,1 | 0,1 |
| May | 85839 | 93846 | 109284 | 122617 | 2,6 | $-0,2$ | 0,5 | 3,6 |
| Jun | 86359 | 97374 | 107372 | 122620 | 0,6 | 3,8 | $-1,7$ | 0,0 |
| Jul | 86180 | 96975 | 109065 |  | $-0,2$ | $-0,4$ | 1,6 |  |
| Aug | 86701 | 100463 | 111271 |  | 0,6 | 3,6 | 2,0 |  |
| Sep | 87375 | 103806 | 110037 |  | 0,8 | 3,3 | $-1,1$ |  |
| Oct | 85019 | 103079 | 116695 |  | $-2,7$ | $-0,7$ | 6,1 |  |
| Nov | 88744 | 103782 | 117152 |  | 4,4 | 0,7 | 0,4 |  |
| Dec | 91947 | 106433 | 115186 |  | 3,6 | 2,6 | $-1,7$ |  |

Table 7 - Wholesale trade sales at current prices by type of dealer (R million)

| Type of dealer | Jan-13 | Feb-13 | Mar-13 | Apr-13 | May-13 | Jun-13 1/ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: |
| Fee or contract basis | 5051 | 4692 | 4973 | 6125 | 6429 | 6124 |
| Agricultural raw materials and livestock | 6387 | 6525 | 5969 | 7081 | 7877 | 7558 |
| Food, beverages and tobacco | 15461 | 16899 | 19220 | 17322 | 19373 | 18641 |
| Textiles, clothing and footwear | 1901 | 2348 | 2644 | 2901 | 2466 | 2233 |
| Other household goods except precious stones | 11556 | 12463 | 13196 | 13513 | 14893 | 14454 |
| Precious stones, jewellery and silverware | 780 | 1380 | 1933 | 1471 | 1603 | 1209 |
| Solid, liquid and gaseous fuels and related products | 27452 | 27687 | 29435 | 27456 | 28552 | 30238 |
| Metals and metal ores | 3065 | 3726 | 3500 | 3922 | 3888 | 3765 |
| Construction and building materials | 4485 | 5323 | 5450 | 5640 | 5760 | 5346 |
| Other intermediate products, waste and scrap | 3787 | 4282 | 3809 | 4169 | 4722 | 4365 |
| Machinery, equipment and supplies | 14668 | 15787 | 14156 | 14343 | 15401 | 14881 |
| Other goods | 11210 | 11890 | 11032 | 11666 | 12403 | 11286 |
| Total | $\mathbf{1 0 5 8 0 4}$ | $\mathbf{1 1 3 0 0 2}$ | $\mathbf{1 1 5 3 1 8}$ | $\mathbf{1 1 5 6 1 0}$ | $\mathbf{1 2 3} \mathbf{3 6 5}$ | $\mathbf{1 2 0} \mathbf{0 9 8}$ |

1/ Preliminary.

Table 8 - Year-on-year percentage change in wholesale trade sales at current prices by type of dealer

| Type of dealer | Jan-13 | Feb-13 | Mar-13 | Apr-13 | May-13 | Jun-13 |
| :--- | ---: | ---: | ---: | ---: | ---: | :---: |
| Fee or contract basis | $-3,2$ | $-11,0$ | $-18,2$ | 9,0 | 11,0 | 15,1 |
| Agricultural raw materials and livestock | 22,5 | 18,4 | 15,9 | 45,5 | 40,4 | 14,5 |
| Food, beverages and tobacco | 6,5 | 14,6 | 15,8 | 15,3 | 10,5 | 21,4 |
| Textiles, clothing and footwear | $-12,2$ | $-0,6$ | $-0,9$ | 17,8 | $-1,2$ | 6,2 |
| Other household goods except precious stones | 18,5 | 13,8 | 6,1 | 21,4 | 23,9 | 16,9 |
| Precious stones, jewellery and silverware | $-1,0$ | 21,7 | 98,5 | 28,1 | 37,1 | 6,5 |
| Solid, liquid and gaseous fuels and related products | 23,6 | 1,7 | 16,2 | 5,2 | 8,6 | 20,0 |
| Metals and metal ores | 4,6 | $-1,6$ | $-6,1$ | 23,6 | 3,1 | 4,0 |
| Construction and building materials | 7,3 | 5,7 | $-2,5$ | 19,2 | 1,4 | 0,9 |
| Other intermediate products, waste and scrap | $-13,5$ | $-4,6$ | $-9,9$ | 17,9 | 12,1 | 9,2 |
| Machinery, equipment and supplies | 30,0 | 9,1 | $-14,7$ | 4,4 | 5,8 | 3,3 |
| Other goods | 1,4 | 18,2 | 7,1 | 17,5 | 13,3 | 5,0 |
| Total | $\mathbf{1 2 , 9}$ | $\mathbf{7 , 6}$ | $\mathbf{5 , 1}$ | $\mathbf{1 4 , 0}$ | $\mathbf{1 2 , 1}$ | $\mathbf{1 3 , 1}$ |

Table 9 - Contribution of type of dealer to the year-on-year percentage change in wholesale trade sales at current prices

| Type of dealer | Jan-13 | Feb-13 | Mar-13 | Apr-13 | May-13 | Jun-13 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: |
| Fee or contract basis | $-0,2$ | $-0,6$ | $-1,0$ | 0,5 | 0,6 | 0,8 |
| Agricultural raw materials and livestock | 1,3 | 1,0 | 0,7 | 2,2 | 2,1 | 0,9 |
| Food, beverages and tobacco | 1,0 | 2,0 | 2,4 | 2,3 | 1,7 | 3,1 |
| Textiles, clothing and footwear | $-0,3$ | 0,0 | 0,0 | 0,4 | 0,0 | 0,1 |
| Other household goods except precious stones | 1,9 | 1,4 | 0,7 | 2,4 | 2,6 | 2,0 |
| Precious stones, jewellery and silverware | 0,0 | 0,2 | 0,9 | 0,3 | 0,4 | 0,1 |
| Solid, liquid and gaseous fuels and related products | 5,6 | 0,4 | 3,7 | 1,3 | 2,1 | 4,7 |
| Metals and metal ores | 0,1 | $-0,1$ | $-0,2$ | 0,7 | 0,1 | 0,1 |
| Construction and building materials | 0,3 | 0,3 | $-0,1$ | 0,9 | 0,1 | 0,0 |
| Other intermediate products, waste and scrap | $-0,6$ | $-0,2$ | $-0,4$ | 0,6 | 0,5 | 0,3 |
| Machinery, equipment and supplies | 3,6 | 1,3 | $-2,2$ | 0,6 | 0,8 | 0,4 |
| Other goods | 0,2 | 1,7 | 0,7 | 1,7 | $\mathbf{1 , 3}$ | $\mathbf{0 , 5}$ |
| Total | $\mathbf{1 2 , 9}$ | $\mathbf{7 , 6}$ | $\mathbf{5 , 1}$ | $\mathbf{1 4 , 0}$ | $\mathbf{1 2 , 1}$ | $\mathbf{1 3 , 1}$ |

## Survey information

## Introduction

## Purpose of the survey

## Scope of the survey

Collection rate
5 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 enterprise is classified to the industry which reflects its predominant activity. Statistics in this publication are presented at SIC four digit level.

The preliminary collection rate for the survey on wholesale trade sales for June 2013 was 87,0\%. The improved collection rate for May 2013 was 91,4\%.

## Statistical unit

## Revised figures

Related publications

## Rounding-off of figures

Historical data

## Past publications

Changes in the next publication

7 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. The statistical units are derived from and linked to the South African Revenue Service (SARS) administrative data.

8 Revised figures are mainly due to late submission of data to Stats SA, or respondents reporting revisions or corrections to their figures. Preliminary figures, as indicated in the relevant tables, are subject to change and when revised will not be indicated as such.

9 Users may also refer to the following publications available from Stats SA:

- Bulletin of Statistics issued quarterly; and
- SA Statistics issued annually.

10 Where figures have been rounded off, discrepancies may occur between sums of the component items and the totals.

11 Historical wholesale trade sales data are available on the Stats SA webpage. To access the data electronically, use the following link: http://www.statssa.gov.za/timeseriesdata/timeseriesdata.asp

12 Past wholesale trade sales releases are available on the Stats SA webpage. To access the releases electronically, use the following link: http://www.statssa.gov.za/publications/statspastfuture.asp?PPN=P6141, 2\&SCH=

13 The results published in the next publication (July 2013) will be based on a new sample drawn in April 2013. The periodic introduction of a new sample is part of Stats SA's strategic approach in improving the basis from which surveys are conducted.

## Technical notes

## Survey methodology and design

## Class limits

## Sample weighting

1 The survey is conducted monthly. Questionnaires are sent to a sample of about 1000 enterprises from a population of about 19600 enterprises. Completed questionnaires are required to be returned to Stats SA within 10 days after the end of the reference month. Email, fax and telephone reminders are used to follow up on non-respondents.

2 A stratified random sample was drawn at the SIC four-digit level in April 2012 from 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 (see point 3 below).

The Neyman optimal allocation formula given below was used to allocate samples to each stratum:

$$
\mathrm{n}_{\mathrm{h}}=\frac{\mathrm{N}_{\mathrm{h}} \mathrm{~S}_{\mathrm{h}}}{\sum \mathrm{~N}_{\mathrm{h}} \mathrm{~S}_{\mathrm{h}}}
$$

$N_{h}$ 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 $5,6 \%$.

3 The wholesale sampling frame 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). The total value of sales of the large enterprises (size group one) is added to the weighted totals of size group two, three and four to reflect the total value of sales.

Measure of size classes (Rand)

| Enterprise size | Size group | Lower limits | Upper limits |
| :--- | :---: | ---: | ---: |
| Very small | 4 | 0 | 24000000 |
| Small | 3 | 24000001 | 128000000 |
| Medium | 2 | 128000001 | 256000000 |
| Large | 1 | 256000001 |  |

4 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 are consistent with international best practice.

## Seasonal adjustment

## Trend cycle

## Constant prices

## Reliability of estimates

## Month-on-month <br> percentage change

## Year-on-year percentage change

5 Seasonally adjusted estimates are generated each month using the X-12-ARIMA 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. The X-12-ARIMA procedure for wholesale trade sales is described in more detail on the Stats SA website:
http://www.statssa.gov.za/Publications/P61412/Seasonal adjustment w holesale Jun13.pdf

6 The trend is the long-term pattern or movement of a time series. The X-12-ARIMA Seasonal Adjustment Program is used for smoothing seasonally adjusted estimates to estimates of the underlying trend cycle.

7 Stats SA compiles its monthly estimates of wholesale trade sales at current prices from a survey of wholesalers in the formal sector. For January 1998 to December 2011 wholesale trade sales at constant prices were calculated using the "all groups" PPI for domestic output, but excluding electricity and other utilities.

From January 2012, wholesale trade sales at constant prices are compiled in three stages:
(1) Deflate sales of dealers in agricultural raw materials and livestock using the PPI for agriculture.
(2) Deflate sales of dealers in food, beverages and tobacco using the PPI for food products, beverages and tobacco.
(3) Deflate the remaining wholesale trade sales with the headline PPI (final manufacturing) excluding the PPIs for food products, beverages and tobacco; and transport equipment.
Total wholesale trade sales at constant prices is obtained by aggregating (1), (2) and (3).

8 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.

9 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.

10 The month-on-month percentage change in a variable for any given month is the change between that month and the previous month, expressed as a percentage of the latter.

11 The year-on-year percentage change in a variable for any given period is the change between that period and the corresponding period of the previous year, expressed as a percentage of the latter.

## Contribution (percentage points)

12 The contribution (percentage points) to the year-on-year percentage change is calculated by multiplying the percentage change of each type of wholesaler by its corresponding weight, divided by 100 . The weight is the percentage contribution of each type of wholesaler to total wholesale trade sales in the corresponding period of the previous year.

| Glossary |  |
| :---: | :---: |
| Enterprise | An 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). |
| Symbols and abbreviations | 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 |
| 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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