# Statistical release 

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# Motor trade sales (Preliminary) 

July 2012

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## Results for July 2012

Table A - Key figures for motor trade sales

| Actual estimates | July 2012 <br> (R million) | \% change between <br> July 2011 and July 2012 | ```% change between May to July }201 and May to July }201``` | \% change between January to July 2011 and January to July 2012 |
| :---: | :---: | :---: | :---: | :---: |
| Motor trade sales | 40024 | 12,1 | 13,5 | 12,3 |


| Seasonally adjusted estimates | July 2012 <br> (R million) | \% change between June and July 2012 | \% change between February to <br> April 2012 and May to <br> July 2012 |
| :---: | :---: | :---: | :---: |
| Motor trade sales | 39385 | -1,4 | 3,2 |

Motor trade sales increased by 13,5\% in the three months ended July 2012 compared with the three months ended July 2011. Sales for the corresponding period in 2011 increased by 12,5\%.

The major contributors to the increase of $13,5 \%$ were:

- new vehicle sales ( $21,8 \%$ and contributing 5,8 percentage points);
- fuel sales (10,3\% and contributing 3,0 percentage points); and
- sales of accessories ( $12,5 \%$ and contributing 2,1 percentage points) - see Table B.

Motor trade sales rose by $12,1 \%$ year-on-year in July 2012. The highest annual growth rate was recorded for new vehicle sales ( $17,8 \%$ ), followed by workshop income ( $13,4 \%$ ) and convenience store sales $(12,2 \%)$ - see Table 5.

Seasonally adjusted motor trade sales decreased by 1,4\% month-on-month in July 2012, following month-on-month changes of $-1,8 \%$ in June 2012 and $3,6 \%$ in May 2012. Seasonally adjusted motor trade sales increased by $3,2 \%$ in the three months ended July 2012 compared with the previous three months.

Table B - Contribution of each type of activity to the percentage change in motor trade sales

| Type of activity | $\begin{gathered} \text { May } \\ \text { to } \\ \text { July } 2011 \\ \text { (R million) } \end{gathered}$ | Weight 1/ | $\begin{gathered} \text { May } \\ \text { to } \\ \text { July } 2012 \\ \text { (R million) } \end{gathered}$ | Difference in sales between May to July 2011 and May to July 2012 (R million) | \% change between May to July 2011 and May to July 2012 | Contribution (\% points) to the \% change in total sales 21 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| New vehicle sales | 28346 | 26,8 | 34524 | 6178 | 21,8 | 5,8 |
| Used vehicle sales | 17635 | 16,7 | 19130 | 1495 | 8,5 | 1,4 |
| Workshop income | 6583 | 6,2 | 7424 | 841 | 12,8 | 0,8 |
| Income from the sales of accessories | 17498 | 16,5 | 19693 | 2195 | 12,5 | 2,1 |
| Income from fuel sales | 31205 | 29,5 | 34419 | 3214 | 10,3 | 3,0 |
| Income from convenience store sales 3/ | 4625 | 4,4 | 5037 | 412 | 8,9 | 0,4 |
| Total 4I | 105892 | 100,0 | 120227 | 14335 | 13,5 | 13,5 |

$1 /$ Weight is the percentage contribution of each type of activity to the total motor 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 activity with the corresponding weight, divided by 100 .
3 / Includes other sales and trading income.
4/ The figures have been rounded off. Therefore discrepancies may occur between the sums of the component items and totals.

Figure 1 - Total motor trade sales

R million


## PJ Lehohla

Statistician-General

## Article: Changes to the monthly current indicator survey and the impact on the statistical series

## Business register and samples

Today Statistics South Africa (Stats SA) publishes results for the monthly survey of motor trade sales from a new sample drawn in April 2012, which replaces the previous sample that was drawn in April 2011. The sample was drawn from a business register of enterprises with an annual turnover of at least R1 000000 and that are required to register with the South African Revenue Service (SARS) for value added tax.

Owing to the evolving nature of business, the business register is maintained on a continuous basis. The maintenance process is aimed, amongst other things, at capturing changes related to new businesses, ceased businesses, merged businesses and classification changes. In addition, Stats SA undertakes quality improvement surveys related to the business register, the primary objective of which is to capture up-to-date information about the structures and activities of large and complex businesses. This process enables Stats SA to review classification codes for these businesses. These changes are an essential part of the statistical architecture.

## Comparison of total sales between the previous and new samples of the motor trade industry

The reported level of total sales for the monthly survey of the motor trade industry for the months April to June 2012 based on the new sample was $1,3 \%$ higher than the level of total sales recorded for the previous sample (see Table C and Figure 2). The previous sample was drawn in April 2011 and was operational for the last half of 2011 and the first half of 2012.

Table C - Total sales for previous and new samples for the motor trade sales industry: April to June 2012

| Motor trade industry | Previous sample <br> (R million) | New sample <br> (R million) | Difference <br> (R million) | Difference <br> (\%) |
| :---: | ---: | ---: | ---: | ---: |
|  | 115312 | 116865 | 1553 |  |

Figure 2 - Total value of motor trade sales: monthly levels of previous and new samples for April to June 2012


## Comparison of sales between the previous and new samples by type of activity

The differences in sales between the previous and new samples by type of activity are shown in Table D.
Table D - Motor trade sales for the previous and new samples by type of activity: April to June 2012

| Type of activity | Previous sample ( R million) | New sample (R million) | Difference ( R million) | Difference $\text { (\%) }{ }^{1 i}$ |
| :---: | :---: | :---: | :---: | :---: |
| New vehicle sales | 33246 | 33398 | 152 | 0,5 |
| Used vehicle sales | 17995 | 18040 | 45 | 0,3 |
| Workshop income | 7796 | 7088 | -708 | -9,1 |
| Income from the sales of accessories | 19321 | 19008 | -313 | -1,6 |
| Income from fuel sales | 32690 | 34324 | 1634 | 5,0 |
| Income from convenience store sales 2/ | 4265 | 5008 | 743 | 17,4 |
| Total 3/ | 115312 | 116865 | 1553 | 1,3 |

1/ The percentage difference is the difference between the April to June 2012 sales as recorded in the new sample and the April to June 2012 sales as recorded in the previous sample, expressed as a percentage.
2 / Includes other sales and trading income.
$3 /$ The figures have been rounded off. Therefore discrepancies may occur between the sums of the component items and totals.
The largest percentage differences were in the following types of activities:

- income from convenience store sales (17,4\% or R743 million higher in the new sample);
- income from fuel sales (5,0\% or R1 634 million higher in the new sample); and
- workshop income (9,1\% or R708 million lower in the new sample).

Various data quality improvements account for these differences, for example the reclassification of enterprises from one industry to another.

## Backcasting

In order to assist users of time series, the levels of the previous sample have been adjusted from January 1998 up to March 2012, using the ratio between the new and previous sample estimates for April to June 2012.

## Tables

Table 1 -Total motor trade sales ( R million)

| Month | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | $2011{ }^{1 /}$ | $2012{ }^{1 /}$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 20409 | 23698 | 28142 | 29596 | 25150 | 27674 | 32482 | 36046 |
| February | 20470 | 24649 | 28305 | 30508 | 25936 | 29126 | 33465 | 37869 |
| March | 21415 | 25907 | 30247 | 30667 | 28002 | 31857 | 37020 | 40141 |
| April | 21851 | 23805 | 26088 | 30789 | 24431 | 29300 | 32309 | 36662 |
| May | 23303 | 26595 | 30351 | 30707 | 25727 | 31234 | 34543 | 40596 |
| June | 23040 | 25832 | 28072 | 29800 | 26854 | 30446 | 35641 | 39607 |
| July | 24555 | 28727 | 30138 | 32801 | 29102 | 32485 | 35708 | 40024 |
| August | 25059 | 28803 | 30925 | 31333 | 26542 | 33125 | 37510 |  |
| September | 24851 | 28661 | 28326 | 30127 | 27477 | 31372 | 38082 |  |
| October | 24611 | 28431 | 31235 | 31575 | 28486 | 32010 | 36682 |  |
| November | 26001 | 28989 | 31688 | 29464 | 29407 | 34273 | 39254 |  |
| December | 24234 | 27196 | 27953 | 28186 | 29984 | 33898 | 36769 |  |
| Total | 279799 | 321293 | 351470 | 365553 | 327098 | 376800 | 429465 |  |

1/ Preliminary.
Table 2 - Percentage change in total motor trade sales 1/

| Month | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| January | 9,1 | 16,1 | 18,8 | 5,2 | -15,0 | 10,0 | 17,4 | 11,0 |
| February | 15,5 | 20,4 | 14,8 | 7,8 | -15,0 | 12,3 | 14,9 | 13,2 |
| March | 19,2 | 21,0 | 16,8 | 1,4 | -8,7 | 13,8 | 16,2 | 8,4 |
| April | 30,2 | 8,9 | 9,6 | 18,0 | -20,7 | 19,9 | 10,3 | 13,5 |
| May | 12,9 | 14,1 | 14,1 | 1,2 | -16,2 | 21,4 | 10,6 | 17,5 |
| June | 15,5 | 12,1 | 8,7 | 6,2 | -9,9 | 13,4 | 17,1 | 11,1 |
| July | 16,0 | 17,0 | 4,9 | 8,8 | -11,3 | 11,6 | 9,9 | 12,1 |
| August | 18,9 | 14,9 | 7,4 | 1,3 | -15,3 | 24,8 | 13,2 |  |
| September | 15,2 | 15,3 | -1,2 | 6,4 | -8,8 | 14,2 | 21,4 |  |
| October | 15,8 | 15,5 | 9,9 | 1,1 | -9,8 | 12,4 | 14,6 |  |
| November | 17,9 | 11,5 | 9,3 | -7,0 | -0,2 | 16,5 | 14,5 |  |
| December | 9,0 | 12,2 | 2,8 | 0,8 | 6,4 | 13,1 | 8,5 |  |
| Total | 16,0 | 14,8 | 9,4 | 4,0 | -10,5 | 15,2 | 14,0 |  |

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

Table 3 - Seasonally adjusted total motor trade sales ( R million)

| Month | $\mathbf{2 0 0 5}$ | $\mathbf{2 0 0 6}$ | $\mathbf{2 0 0 7}$ | $\mathbf{2 0 0 8}$ | $\mathbf{2 0 0 9}$ | $\mathbf{2 0 1 0}$ | $\mathbf{2 0 1 1}$ | $\mathbf{2 0 1 2}$ |
| :--- | ---: | ---: | ---: | ---: | ---: | ---: | ---: | ---: |
| January | 20959 | 24558 | 29467 | 31190 | 26573 | 29294 | $\mathbf{3 4} 427$ | 38186 |
| February | 21157 | 25510 | 29232 | 31410 | 26628 | 29879 | 34295 | 38826 |
| March | 21700 | 25909 | 29839 | 29788 | 26974 | 30483 | 35342 | 38248 |
| April | 23630 | 25811 | 28283 | 33339 | 26371 | 31503 | 34618 | 39260 |
| May | 22976 | 26283 | 30106 | 30642 | 25774 | 31361 | 34658 | 40691 |
| June | 23526 | 26400 | 28742 | 30449 | 27361 | 30813 | 35968 | 39960 |
| July | 23521 | 27394 | 28655 | 31300 | 27977 | 31508 | 34911 | 39385 |
| August | 24083 | 27619 | 29611 | 30031 | 25491 | 31913 | 36170 |  |
| September | 24328 | 28206 | 28053 | 30036 | 27436 | 31320 | 37978 |  |
| October | 24023 | 27743 | 30558 | 31003 | 28111 | 31793 | 36585 |  |
| November | 24877 | 27834 | 30555 | 28440 | 28370 | 33011 | 37791 |  |
| December | 24752 | 27676 | 28305 | 28346 | 29960 | 33750 | 36526 |  |

Table 4 - Motor trade sales by type of activity ( R million) 1/

| Year and month 2/ |  | New vehicle sales | Used vehicle sales | Workshop income | Income from the sales of accessories | Income from fuel sales | Income from convenience store sales 3/ | Total 4I |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2010 | January | 7052 | 4930 | 1921 | 4839 | 7535 | 1396 | 27674 |
|  | February | 8028 | 5314 | 2052 | 5043 | 7270 | 1419 | 29126 |
|  | March | 9229 | 5500 | 2219 | 5658 | 7728 | 1523 | 31857 |
|  | April | 7715 | 4790 | 2008 | 5034 | 8344 | 1410 | 29300 |
|  | May | 8359 | 5327 | 2261 | 5407 | 8420 | 1461 | 31234 |
|  | June | 8049 | 5076 | 2065 | 5436 | 8293 | 1526 | 30446 |
|  | July | 8673 | 5768 | 2201 | 5731 | 8574 | 1537 | 32485 |
|  | August | 9479 | 5998 | 2153 | 5486 | 8523 | 1486 | 33125 |
|  | September | 8066 | 5959 | 2128 | 5553 | 8203 | 1463 | 31372 |
|  | October | 8203 | 5905 | 2245 | 5672 | 8459 | 1526 | 32010 |
|  | November | 9328 | 6222 | 2307 | 6169 | 8723 | 1525 | 34273 |
|  | December | 9363 | 5628 | 2020 | 5287 | 9826 | 1773 | 33898 |
|  | Total | 101544 | 66417 | 25580 | 65315 | 99898 | 18045 | 376800 |
| 2011 | January | 8749 | 5961 | 1942 | 5312 | 8978 | 1539 | 32482 |
|  | February | 9696 | 6026 | 2034 | 5614 | 8667 | 1428 | 33465 |
|  | March | 10873 | 6198 | 2323 | 6206 | 9800 | 1620 | 37020 |
|  | April | 8487 | 5009 | 1884 | 5180 | 10215 | 1534 | 32309 |
|  | May | 9319 | 5583 | 2116 | 5659 | 10344 | 1522 | 34543 |
|  | June | 9475 | 6069 | 2275 | 5982 | 10255 | 1584 | 35641 |
|  | July | 9552 | 5983 | 2192 | 5857 | 10606 | 1519 | 35708 |
|  | August | 10419 | 6341 | 2363 | 6184 | 10624 | 1579 | 37510 |
|  | September | 10557 | 6442 | 2328 | 6527 | 10643 | 1585 | 38082 |
|  | October | 9958 | 5915 | 2302 | 6252 | 10573 | 1682 | 36682 |
|  | November | 10801 | 6604 | 2463 | 6768 | 10962 | 1656 | 39254 |
|  | December | 9771 | 5597 | 2164 | 5852 | 11516 | 1868 | 36769 |
|  | Total | 117657 | 71728 | 26386 | 71393 | 123183 | 19116 | 429465 |
| 2012 | January | 9920 | 5813 | 2172 | 5837 | 10598 | 1705 | 36046 |
|  | February | 10925 | 6185 | 2343 | 6401 | 10374 | 1642 | 37869 |
|  | March | 11872 | 6103 | 2365 | 6726 | 11338 | 1738 | 40141 |
|  | April | 10122 | 5521 | 2149 | 5803 | 11392 | 1676 | 36662 |
|  | May | 11439 | 6366 | 2586 | 6891 | 11661 | 1653 | 40596 |
|  | June | 11837 | 6153 | 2353 | 6314 | 11271 | 1679 | 39607 |
|  | July | 11248 | 6611 | 2485 | 6488 | 11487 | 1705 | 40024 |

1/The types of activities in motor trade refer to the enterprises classified within the motor trade industry and engaged in the activities mentioned above.
2/ 2011 and 2012 figures are preliminary.
3 / Includes other sales and trading income.
4/ The figures have been rounded off. Therefore discrepancies may occur between the sums of the component items and totals.

Table 5 - Year-on-year percentage change in motor trade sales by type of activity $\mathbf{1 /}$

| Year and month |  | New vehicle sales | Used vehicle sales | Workshop income | Income from the sales of accessories | Income from fuel sales | Income from convenience store sales $2 /$ | Total |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2010 | January | 16,0 | 8,2 | 8,8 | -2,0 | 17,4 | 0,1 | 10,0 |
|  | February | 24,7 | 5,3 | 0,9 | 2,1 | 16,1 | 16,6 | 12,3 |
|  | March | 31,1 | 4,0 | 7,5 | 10,1 | 10,3 | 4,0 | 13,8 |
|  | April | 58,0 | 7,0 | 0,0 | 7,2 | 20,6 | -2,4 | 19,9 |
|  | May | 58,7 | 3,7 | 16,7 | 7,5 | 19,9 | 9,4 | 21,4 |
|  | June | 28,9 | 0,4 | 3,8 | 5,2 | 17,1 | 16,3 | 13,4 |
|  | July | 26,0 | 6,2 | 1,0 | 5,8 | 10,3 | 8,5 | 11,6 |
|  | August | 54,3 | 29,4 | 7,2 | 10,6 | 14,7 | 8,8 | 24,8 |
|  | September | 27,7 | 15,9 | 4,9 | 10,5 | 8,1 | 6,2 | 14,2 |
|  | October | 19,1 | 8,9 | 11,6 | 5,6 | 15,7 | 3,1 | 12,4 |
|  | November | 27,2 | 15,4 | 10,4 | 13,8 | 14,4 | -1,3 | 16,5 |
|  | December | 19,7 | 8,3 | 11,7 | 8,4 | 13,7 | 7,9 | 13,1 |
|  | Total | 31,3 | 9,3 | 6,9 | 7,1 | 14,7 | 6,2 | 15,2 |
| 2011 | January | 24,1 | 20,9 | 1,1 | 9,8 | 19,2 | 10,2 | 17,4 |
|  | February | 20,8 | 13,4 | -0,9 | 11,3 | 19,2 | 0,6 | 14,9 |
|  | March | 17,8 | 12,7 | 4,7 | 9,7 | 26,8 | 6,4 | 16,2 |
|  | April | 10,0 | 4,6 | -6,2 | 2,9 | 22,4 | 8,8 | 10,3 |
|  | May | 11,5 | 4,8 | -6,4 | 4,7 | 22,9 | 4,2 | 10,6 |
|  | June | 17,7 | 19,6 | 10,2 | 10,0 | 23,7 | 3,8 | 17,1 |
|  | July | 10,1 | 3,7 | -0,4 | 2,2 | 23,7 | -1,2 | 9,9 |
|  | August | 9,9 | 5,7 | 9,8 | 12,7 | 24,7 | 6,3 | 13,2 |
|  | September | 30,9 | 8,1 | 9,4 | 17,5 | 29,7 | 8,3 | 21,4 |
|  | October | 21,4 | 0,2 | 2,5 | 10,2 | 25,0 | 10,2 | 14,6 |
|  | November | 15,8 | 6,1 | 6,8 | 9,7 | 25,7 | 8,6 | 14,5 |
|  | December | 4,4 | -0,6 | 7,1 | 10,7 | 17,2 | 5,4 | 8,5 |
|  | Total | 15,9 | 8,0 | 3,2 | 9,3 | 23,3 | 5,9 | 14,0 |
| 2012 | January | 13,4 | -2,5 | 11,8 | 9,9 | 18,0 | 10,8 | 11,0 |
|  | February | 12,7 | 2,6 | 15,2 | 14,0 | 19,7 | 15,0 | 13,2 |
|  | March | 9,2 | -1,5 | 1,8 | 8,4 | 15,7 | 7,3 | 8,4 |
|  | April | 19,3 | 10,2 | 14,1 | 12,0 | 11,5 | 9,3 | 13,5 |
|  | May | 22,7 | 14,0 | 22,2 | 21,8 | 12,7 | 8,6 | 17,5 |
|  | June | 24,9 | 1,4 | 3,4 | 5,5 | 9,9 | 6,0 | 11,1 |
|  | July | 17,8 | 10,5 | 13,4 | 10,8 | 8,3 | 12,2 | 12,1 |

1/The year-on-year percentage change is the difference between the motor trade sales by type of activity of the relevant month of the current year and the corresponding month of the previous year expressed as a percentage. 2 / Includes other sales and trading income.

Table 6 - Three-monthly and annual cumulative estimates and percentage changes

| Actual estimates | May to July 2011 (R million) | $\begin{gathered} \text { May } \\ \text { to } \\ \text { July } 2012 \\ \text { (R million) } \end{gathered}$ | \% change between May to July 2011 and May to July 2012 | $\begin{gathered} \text { January } \\ \text { to } \\ \text { July } 2011 \\ \text { (R million) } \end{gathered}$ | $\begin{gathered} \text { January } \\ \text { to } \\ \text { July } 2012 \\ \text { (R million) } \end{gathered}$ | \% change between January to July 2011 and January to July 2012 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Motor trade sales | 105892 | 120227 | 13,5 | 241168 | 270945 | 12,3 |

Table 7 - Seasonally adjusted estimates with monthly and three-monthly percentage changes

|  |  |  |  |  | \% change <br> between <br> February <br> to |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Seasonally adjusted <br> estimates | June 2012 <br> (R million) | July 2012 <br> (R million) | \% change <br> between <br> June <br> and <br> July 2012 | February <br> to | April 2012 <br> (R million) | May <br> to <br> (R million) |
| April 2012 |  |  |  |  |  |  |
| and |  |  |  |  |  |  |
| May |  |  |  |  |  |  |
| to |  |  |  |  |  |  |

## Explanatory notes

Introduction 1 Statistics South Africa (Stats SA) conducts a monthly survey covering enterprises in the motor trade industry (see 4 below). This survey is based on a sample drawn from the 2012 business sampling frame (BSF), which contains businesses registered for value added tax (VAT).

2 Information for the latest month is 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. Motor trade sales estimates exclude value added tax (VAT).


Scope of the 4 The survey collects information from a sample of enterprises in South Africa that are survey

Classification 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 group (four digits) level.

Collection rate 6 The preliminary collection rate for the survey on motor trade sales for July 2012 was $76,6 \%$, accounting for $89,3 \%$ of the total estimate for motor trade sales.

Statistical unit 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 and service activities.

Survey methodology and design

8 The survey is conducted monthly. Questionnaires are sent to a sample of about 870 enterprises from a population of about 11000 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-responses.

9 The value of sales is obtained monthly from the sample of about 870 enterprises, which was drawn in April 2012 from a population then of about 11000 motor trade enterprises. The motor trade industry is divided into four size groups. The sample is drawn at the fourdigit SIC level. All large enterprises (size group one) are completely enumerated. Simple random sampling is applied to medium and small enterprises (size groups two, three and four). The total value of sales of the large enterprises (size group one) per classification group is added to the weighted totals of size groups two, three and four to reflect the total value of sales.

Revised figures

Related publications

Rounding-off of figures

Symbols and abbreviations
Weighting
methodology
Seasonal
adjustment

Trend cycle 12 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

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 are consistent with international best practice.

11 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.

13 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 motor trade industry in South Africa. Estimates are subject to sampling and non-sampling errors.

14 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.

15 Normally 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.

16 Users may also wish to refer to the following publications available from Stats SA

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

17 Where necessary, the figures in the tables have been rounded off to the nearest digit shown.

| 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 |

Changes in the
this publication periodic introduction of a new sample is part of Stats SA strategic approach in improving the basis on which surveys are conducted.

The new sample was conducted in parallel with the previous sample for April to June 2012. A comparison of total sales estimates between the new and previous samples shows a 1,3\% higher level of sales for the new sample.

## 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 $3,5 \%$.

## Class limits (Rand)

| Enterprise size | Size group | Lower limits | Upper limits |
| :--- | :---: | ---: | ---: |
| Very small | 4 | 0 | 18000000 |
| Small | 3 | 18000001 | 85500000 |
| Medium | 2 | 85500001 | 175500000 |
| Large | 1 | 175500001 |  |

## Glossary

## Enterprise

Industry

Statistical unit
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.

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).

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.

## 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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## Enquiries

| Telephone number: | (012) $3104837 / 8423$ (technical enquiries) <br> Fax number: <br> Email address: |
| :--- | :--- |
|  | (012) 3108600 (user information services) <br> (012) 3102119 (technical enquiries) |
| petermak@statssa.gov.za (technical enquiries) |  |
| keshneeg@statssa.gov.za (technical enquiries) |  |
| info@statssa.gov.za (user information services) |  |
| magdaj@statssa.gov.za (orders/subscription services) |  |

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