

## STATISTICAL RELEASE

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# Motor trade sales (Preliminary)

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ENQUIRIES:  
Keshnee Naidoo  
(012) 310 8423

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[www.statssa.gov.za](http://www.statssa.gov.za)  
[info@statssa.gov.za](mailto:info@statssa.gov.za)  
T +27 12 310 8911  
F +27 12 310 8500

Private Bag X44, Pretoria, 0001, South Africa  
ISibalo House, Koch Street, Salvokop, Pretoria, 0002

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## Sales at current prices: results for September 2018

**Table A – Key growth rates in motor trade sales at current prices**

|  | Apr-18 | May-18 | Jun-18 | Jul-18 | Aug-18 | Sep-18 |
|--|--------|--------|--------|--------|--------|--------|
| Year-on-year % change, unadjusted            | 5,8    | 4,4    | 4,7    | 7,5    | 6,6    | 1,5    |
| Month-on-month % change, seasonally adjusted | -8,8   | 4,1    | 1,4    | -0,9   | 2,2    | -0,5   |
| 3-month % change, seasonally adjusted 1/     | -0,6   | 0,0    | -2,4   | 0,3    | 1,1    | 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), motor trade sales increased by 1,5% year-on-year in September 2018. Positive annual growth rates were recorded for:

- fuel sales (19,1%); and
- convenience store sales (4,2%) – see Table 5.

Seasonally adjusted motor trade sales decreased by 0,5% in September 2018 compared with August 2018. This followed month-on-month changes of 2,2% in August 2018 and -0,9% in July 2018.

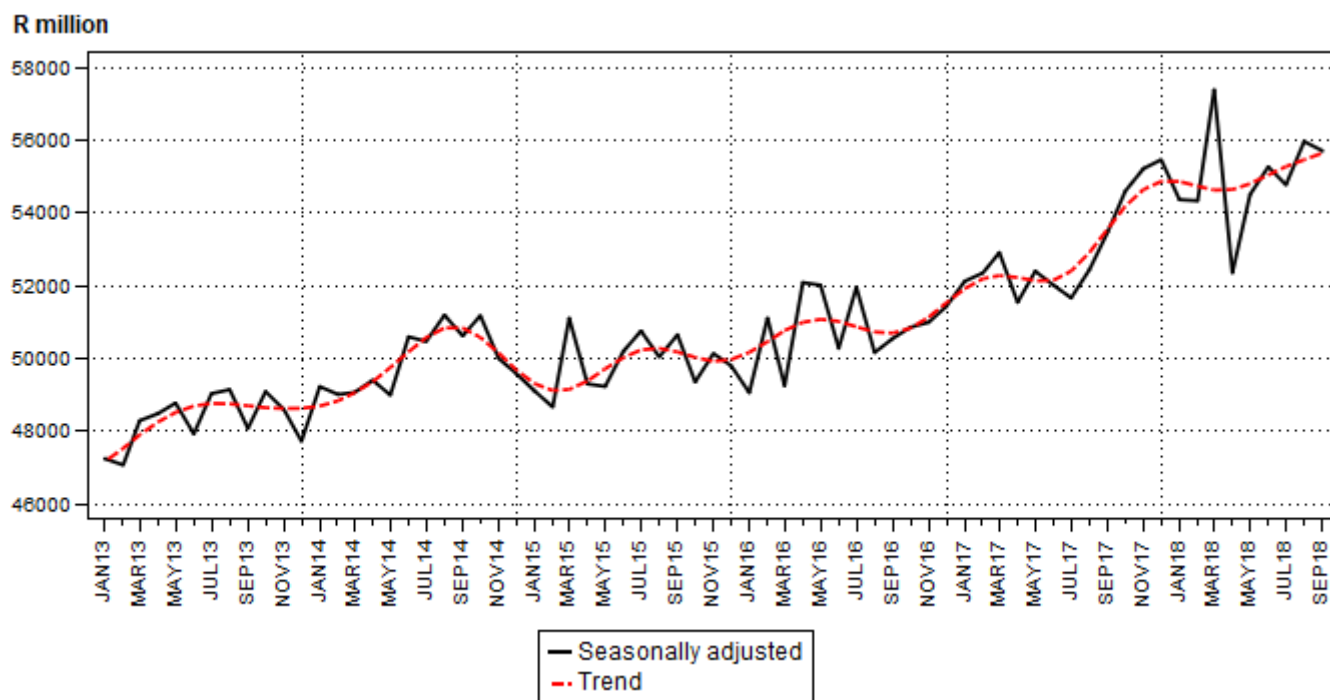
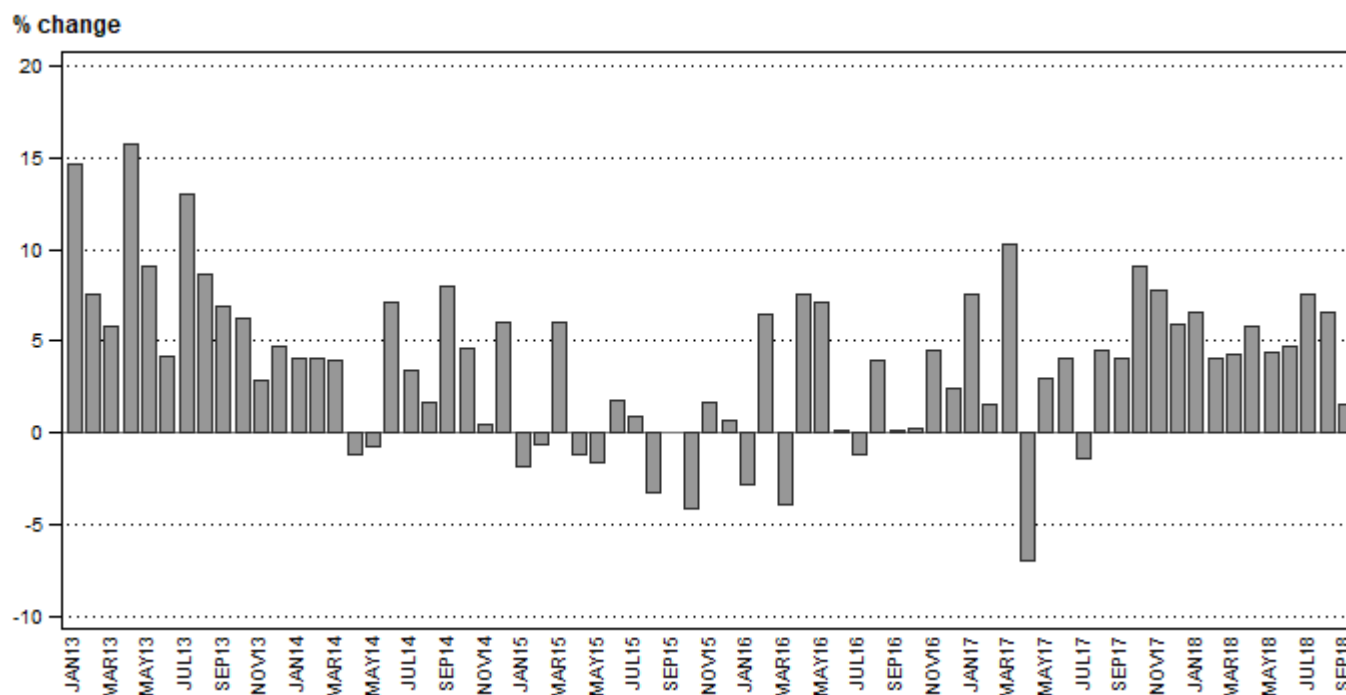
In the third quarter of 2018, seasonally adjusted motor trade sales increased by 2,7% compared with the previous quarter.

**Table B – Motor trade sales at current prices for the latest three months by type of activity**

| Type of activity                       | Jul – Sep 2017<br>(R million) | Weight       | Jul – Sep 2018<br>(R million) | % change between Jul – Sep 2017 and Jul – Sep 2018 | Contribution (% points) to the total % change |
|--|-------------------------------|--------------|-------------------------------|--|---|
| New vehicle sales                      | 42 009                        | 26,4         | 41 564                        | -1,1   | -0,3  |
| Used vehicle sales                     | 31 146                        | 19,6         | 30 565                        | -1,9   | -0,4  |
| Workshop income                        | 10 212                        | 6,4          | 9 856                         | -3,5   | -0,2  |
| Income from the sales of accessories   | 29 503                        | 18,6         | 29 689                        | 0,6  | 0,1   |
| Income from fuel sales                 | 40 723                        | 25,6         | 49 856                        | 22,4   | 5,7   |
| Income from convenience store sales 1/ | 5 275                         | 3,3          | 5 599                         | 6,1  | 0,2   |
| <b>Total</b>                           | <b>158 870</b>                | <b>100,0</b> | <b>167 132</b>                | <b>5,2</b>   | <b>5,2</b>                                    |

1/ Includes 'other' sales and trading income.

Motor trade sales increased by 5,2% in the third quarter of 2018 compared with the third quarter of 2017. The main contributor was fuel sales (22,4% and contributing 5,7 percentage points) – see Table B.

**Figure 1 – Motor trade sales at current prices****Figure 2 – Motor trade sales at current prices: year-on-year percentage change**

**Risenga Maluleke**  
**Statistician-General**

## Tables

**Table 1 – Motor trade sales at current prices (R million)**

| Month        | 2012           | 2013           | 2014           | 2015           | 2016           | 2017           | 2018 1/ |
|--------------|----------------|----------------|----------------|----------------|----------------|----------------|---------|
| Jan          | 40 459         | 46 389         | 48 254         | 47 356         | 46 014         | 49 527         | 52 789  |
| Feb          | 42 506         | 45 715         | 47 549         | 47 214         | 50 267         | 51 025         | 53 065  |
| Mar          | 45 057         | 47 692         | 49 543         | 52 526         | 50 474         | 55 680         | 58 072  |
| Apr          | 41 266         | 47 761         | 47 200         | 46 637         | 50 155         | 46 625         | 49 316  |
| May          | 45 502         | 49 644         | 49 262         | 48 474         | 51 893         | 53 465         | 55 832  |
| Jun          | 44 405         | 46 284         | 49 584         | 50 497         | 50 538         | 52 583         | 55 039  |
| Jul          | 45 347         | 51 244         | 52 988         | 53 475         | 52 846         | 52 124         | 56 036  |
| Aug          | 46 252         | 50 278         | 51 063         | 49 397         | 51 308         | 53 619         | 57 149  |
| Sep          | 44 155         | 47 221         | 50 985         | 50 975         | 51 029         | 53 127         | 53 947  |
| Oct          | 48 482         | 51 473         | 53 848         | 51 618         | 51 704         | 56 411         |         |
| Nov          | 49 003         | 50 445         | 50 668         | 51 509         | 53 843         | 58 029         |         |
| Dec          | 43 780         | 45 839         | 48 597         | 48 944         | 50 119         | 53 070         |         |
| <b>Total</b> | <b>536 214</b> | <b>579 985</b> | <b>599 541</b> | <b>598 622</b> | <b>610 190</b> | <b>635 285</b> |         |

1/ Figures for latest month are preliminary.

**Table 2 – Year-on-year percentage change in motor trade sales at current prices**

| Month        | 2013       | 2014       | 2015        | 2016       | 2017       | 2018 | 2018 year-to-date |
|--------------|------------|------------|-------------|------------|------------|------|-------------------|
| Jan          | 14,7       | 4,0        | -1,9        | -2,8       | 7,6        | 6,6  | 6,6               |
| Feb          | 7,5        | 4,0        | -0,7        | 6,5        | 1,5        | 4,0  | 5,3               |
| Mar          | 5,8        | 3,9        | 6,0         | -3,9       | 10,3       | 4,3  | 4,9               |
| Apr          | 15,7       | -1,2       | -1,2        | 7,5        | -7,0       | 5,8  | 5,1               |
| May          | 9,1        | -0,8       | -1,6        | 7,1        | 3,0        | 4,4  | 5,0               |
| Jun          | 4,2        | 7,1        | 1,8         | 0,1        | 4,0        | 4,7  | 4,9               |
| Jul          | 13,0       | 3,4        | 0,9         | -1,2       | -1,4       | 7,5  | 5,3               |
| Aug          | 8,7        | 1,6        | -3,3        | 3,9        | 4,5        | 6,6  | 5,5               |
| Sep          | 6,9        | 8,0        | 0,0         | 0,1        | 4,1        | 1,5  | 5,0               |
| Oct          | 6,2        | 4,6        | -4,1        | 0,2        | 9,1        |      |                   |
| Nov          | 2,9        | 0,4        | 1,7         | 4,5        | 7,8        |      |                   |
| Dec          | 4,7        | 6,0        | 0,7         | 2,4        | 5,9        |      |                   |
| <b>Total</b> | <b>8,2</b> | <b>3,4</b> | <b>-0,2</b> | <b>1,9</b> | <b>4,1</b> |      |                   |

**Table 3 – Seasonally adjusted motor trade sales at current prices**

| Month | R million |        |        |        | Month-on-month % change |      |      |      |
|-------|-----------|--------|--------|--------|-------------------------|------|------|------|
|       | 2015      | 2016   | 2017   | 2018   | 2015                    | 2016 | 2017 | 2018 |
| Jan   | 49 106    | 49 058 | 52 116 | 54 361 | -1,0                    | -1,5 | 1,3  | -2,0 |
| Feb   | 48 664    | 51 109 | 52 349 | 54 331 | -0,9                    | 4,2  | 0,4  | -0,1 |
| Mar   | 51 104    | 49 248 | 52 905 | 57 378 | 5,0                     | -3,6 | 1,1  | 5,6  |
| Apr   | 49 298    | 52 082 | 51 541 | 52 350 | -3,5                    | 5,8  | -2,6 | -8,8 |
| May   | 49 228    | 52 013 | 52 394 | 54 500 | -0,1                    | -0,1 | 1,7  | 4,1  |
| Jun   | 50 193    | 50 280 | 52 009 | 55 262 | 2,0                     | -3,3 | -0,7 | 1,4  |
| Jul   | 50 753    | 51 957 | 51 661 | 54 768 | 1,1                     | 3,3  | -0,7 | -0,9 |
| Aug   | 50 039    | 50 160 | 52 434 | 55 959 | -1,4                    | -3,5 | 1,5  | 2,2  |
| Sep   | 50 648    | 50 549 | 53 467 | 55 703 | 1,2                     | 0,8  | 2,0  | -0,5 |
| Oct   | 49 352    | 50 856 | 54 596 |        | -2,6                    | 0,6  | 2,1  |      |
| Nov   | 50 131    | 50 991 | 55 215 |        | 1,6                     | 0,3  | 1,1  |      |
| Dec   | 49 802    | 51 431 | 55 458 |        | -0,7                    | 0,9  | 0,4  |      |

**Table 4 – Motor trade sales at current prices by type of activity (R million)**

| Type of activity                       | Apr-18        | May-18        | Jun-18        | Jul-18        | Aug-18        | Sep-18 1/     |
|--|---------------|---------------|---------------|---------------|---------------|---------------|
| New vehicle sales                      | 11 815        | 14 382        | 14 146        | 14 012        | 14 138        | 13 414        |
| Used vehicle sales                     | 9 335         | 10 804        | 10 233        | 10 075        | 10 822        | 9 668         |
| Workshop income                        | 3 099         | 3 604         | 3 404         | 3 420         | 3 349         | 3 087         |
| Income from the sales of accessories   | 9 090         | 10 304        | 9 644         | 10 011        | 10 268        | 9 410         |
| Income from fuel sales                 | 14 149        | 14 934        | 15 815        | 16 633        | 16 733        | 16 490        |
| Income from convenience store sales 2/ | 1 827         | 1 802         | 1 797         | 1 885         | 1 837         | 1 877         |
| <b>Total</b>                           | <b>49 316</b> | <b>55 832</b> | <b>55 039</b> | <b>56 036</b> | <b>57 149</b> | <b>53 947</b> |

1/ Figures are preliminary.

2/ Includes 'other' sales and trading income.

**Table 5 – Year-on-year percentage change in motor trade sales at current prices by type of activity**

| Type of activity                       | Apr-18     | May-18     | Jun-18     | Jul-18     | Aug-18     | Sep-18     |
|--|------------|------------|------------|------------|------------|------------|
| New vehicle sales                      | 0,3        | 3,3        | -1,3       | 2,7        | -0,3       | -5,4       |
| Used vehicle sales                     | 9,7        | 2,0        | 3,2        | -2,5       | 2,7        | -5,9       |
| Workshop income                        | 4,3        | -0,6       | -0,9       | 0,4        | -3,9       | -7,0       |
| Income from the sales of accessories   | 5,0        | 2,5        | -2,5       | 5,2        | -0,1       | -3,1       |
| Income from fuel sales                 | 9,1        | 10,2       | 19,1       | 23,4       | 24,9       | 19,1       |
| Income from convenience store sales 1/ | 6,0        | 4,7        | 3,8        | 9,0        | 5,3        | 4,2        |
| <b>Total</b>                           | <b>5,8</b> | <b>4,4</b> | <b>4,7</b> | <b>7,5</b> | <b>6,6</b> | <b>1,5</b> |

1/ Includes 'other' sales and trading income.

**Table 6 – Contribution of each type of activity to the year-on-year percentage change in motor trade sales at current prices**

| Type of activity                       | Apr-18     | May-18     | Jun-18     | Jul-18     | Aug-18     | Sep-18     |
|--|------------|------------|------------|------------|------------|------------|
| New vehicle sales                      | 0,1        | 0,9        | -0,4       | 0,7        | -0,1       | -1,4       |
| Used vehicle sales                     | 1,8        | 0,4        | 0,6        | -0,5       | 0,5        | -1,1       |
| Workshop income                        | 0,3        | 0,0        | -0,1       | 0,0        | -0,3       | -0,4       |
| Income from the sales of accessories   | 0,9        | 0,5        | -0,5       | 1,0        | 0,0        | -0,6       |
| Income from fuel sales                 | 2,5        | 2,6        | 4,8        | 6,1        | 6,2        | 5,0        |
| Income from convenience store sales 1/ | 0,2        | 0,2        | 0,1        | 0,3        | 0,2        | 0,1        |
| <b>Total</b>                           | <b>5,8</b> | <b>4,4</b> | <b>4,7</b> | <b>7,5</b> | <b>6,6</b> | <b>1,5</b> |

1/ Includes 'other' sales and trading income.

## Survey information

|                              |  |
|------------------------------|--|
| <b>Introduction</b>          | <p><b>1</b> 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 Stats SA's 2018 business sampling frame (BSF) that contains businesses registered at the South African Revenue Service (SARS) for value added tax (VAT). Stats SA continuously updates its BSF, which is linked to the SARS administrative data.</p>  |
|                              | <p><b>2</b> In order to improve timeliness, some information for the latest month had to be estimated due to late response. These estimates will be revised in future statistical releases as soon as information becomes available. Published motor trade sales estimates exclude VAT.</p>  |
| <b>Purpose of the survey</b> | <p><b>3</b> The results of the monthly motor 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.</p>   |
| <b>Scope of the survey</b>   | <p><b>4</b> The survey collects information from a sample of enterprises in South Africa that are predominantly involved in motor trade. These enterprises include:</p> <ul style="list-style-type: none"> <li>• motor vehicle dealers, filling stations and workshops;</li> <li>• motor cycle dealers;</li> <li>• spares and accessories;</li> <li>• tyre dealers;</li> <li>• automotive electricians;</li> <li>• radiator repairs;</li> <li>• panel beaters and spray painters;</li> <li>• 'other' specialised motor repair services; and</li> <li>• 'other' motor trade.</li> </ul> |
| <b>Classification</b>        | <p><b>5</b> The 1993 edition of the <i>Standard Industrial Classification of all Economic Activities</i> (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 <i>International Standard Industrial Classification of all Economic Activities</i> (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.</p>                         |
| <b>Collection rate</b>       | <p><b>6</b> The preliminary collection rate for the survey on motor trade sales for September 2018 was 78,8%. The improved collection rate for August 2018 was 81,1%.</p>  |
| <b>Statistical unit</b>      | <p><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 and service activities.</p>   |
| <b>Revised figures</b>       | <p><b>8</b> 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.</p>   |
| <b>Related publications</b>  | <p><b>9</b> Users may also refer to the following publication available from Stats SA:</p> <ul style="list-style-type: none"> <li>• <i>Stats in Brief</i> issued annually.</li> </ul>  |

- Rounding-off of figures** 10 Where figures have been rounded off, discrepancies may occur between sums of the component items and the totals.
- Historical data** 11 Historical motor trade data are available on the Stats SA website. To access the data electronically, use the following link: [Click to download historical data](#)
- Past publications** 12 Past motor trade releases are available on the Stats SA website. To access the releases electronically, use the following link: [Click to download past releases](#)

## Technical notes

- Survey methodology and design** 1 The survey is conducted monthly. Questionnaires are sent to a sample of 912 enterprises from a population of 11 104 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 in April 2018 from Stats SA's business sampling frame (BSF) at the SIC four-digit level. 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.

$$n_h = n * ( N_h * S_h ) / [ \sum ( N_i * S_i ) ] .$$

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 was 3,8%.

- Class limits** 3 Each motor trade classification group (SIC at four digit level) is divided into four size groups. 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.

### Measure of size classes (Rand)

| Enterprise size | Size group | Lower limits | Upper limits |
|-----------------|------------|--------------|--------------|
| Very small      | 4          | 1 835 904    | 18 000 000   |
| Small           | 3          | 18 000 001   | 85 500 000   |
| Medium          | 2          | 85 500 001   | 175 500 000  |
| Large           | 1          | 175 500 001  |              |

- Sample weighting** 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 classification group estimates. These procedures are consistent with international best practice.



|   |           |   |
|---|-----------|---|
| <b>Seasonal adjustment</b>              | <b>5</b>  | Seasonally adjusted estimates are generated each month using the X-12-ARIMA Seasonal Adjustment Program developed by the US Bureau of the Census. 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 recognised more clearly. 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 motor trade sales is described in more detail on the Stats SA website at: <a href="#">Click to download seasonal adjustment motor trade sales August 2017</a> |
| <b>Trend cycle</b>                      | <b>6</b>  | 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.   |
| <b>Reliability of estimates</b>         | <b>7</b>  | 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.  |
|   | <b>8</b>  | 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.  |
| <b>Month-on-month percentage change</b> | <b>9</b>  | 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.  |
| <b>Year-on-year percentage change</b>   | <b>10</b> | 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.   |
| <b>Contribution (percentage points)</b> | <b>11</b> | The contribution (percentage points) to the year-on-year percentage change is calculated by multiplying the percentage change of each type of activity by its corresponding weight, divided by 100. The weight is the percentage contribution of each type of activity to total motor 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 (SIC)*, Fifth Edition, Report No. 09-90-02 of January 1993.

### Symbols and abbreviations

|          |   |
|----------|---|
| BSF      | Business sampling frame                                       |
| GDP      | Gross domestic product  |
| ISIC     | International Standard Industrial Classification              |
| IT       | Income tax  |
| Rm       | Rand million  |
| SIC      | Standard Industrial Classification of all Economic Activities |
| SARS     | South African Revenue Service                                 |
| Stats SA | Statistics South Africa                                       |
| VAT      | Value added tax   |

## Technical enquiries

### Peter Makota

Telephone number: (012) 310 4837  
Email: [petermak@statssa.gov.za](mailto:petermak@statssa.gov.za)

### Keshnee Naidoo

Telephone number: (012) 310 8423  
Email: [keshneen@statssa.gov.za](mailto:keshneen@statssa.gov.za)

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