# Survey of employment and earnings 

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## Summary

Key figures for the quarter ended March 2003
$\left.\begin{array}{|l|c|c|c|c|c|}\hline & & & \begin{array}{c}\text { Percentage } \\ \text { change } \\ \text { between the } \\ \text { quarter }\end{array}\end{array}\right)$

## Key findings for the quarter ended March 2003

There was no significant change in employment in the formal non-agricultural business sector between December 2002 and March 2003.

According to the March 2003 Survey of Employment and Earnings (SEE) the number of people employed in the formal non-agricultural business sector of the South African economy decreased by 20000 from December 2002 (an estimated revised 6517000 people) to March 2003 (an estimated 6497000 people). Employment did not change significantly from December 2002 to March 2003.

Gross earnings paid to employees during the quarter ended March 2003 (January 2003 to March 2003) amounted to R120 729 million. The quarterly decrease of R3 165 million or 2,6\%, in the March 2003 quarter is statistically not significant. This decrease is mainly ascribed to annual bonuses paid out and additional overtime worked in the December quarter of 2002, which did not apply in the quarter ending March 2003.

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## Notes

## Forthcoming issues Issue Expected release date

June 2003 December 2003

Purpose of the survey The Survey of Employment and Earnings is a quarterly survey covering a sample of 10183 private and public enterprises (with a VAT turnover exceeding R300 000 per annum) in the formal nonagricultural business sector of the South African economy. The information received is used to estimate key economic statistics on employment and gross earnings, and is used as an input to the Gross Domestic Product (GDP).

Previous releases
Stats SA previously published Discussion paper: Comparative labour statistics: Survey of employment and earnings in selected industries (P0271).

## Response rates

The percentage response for September 2002 was $79,3 \%$.
The percentage response for December 2002 was $82,5 \%$. The percentage response for March 2003 was $85,0 \%$.

Table 1 - Number of employees: All formal non-agricultural industries


* Revised for September 2002 and December 2002

Figures rounded off to the nearest thousands

## Reasons for the changes in the level of employment between December 2002 and March 2003

## Mining and quarrying industry

The decrease of less than 1000 employees $(-0,2 \%)$ reported by this industry at March 2003 compared with December 2002 was due to a decrease of employment in non-gold mining enterprises.

## Manufacturing industry

A decrease of approximately 4000 employees ( $-0,3 \%$ ) at March 2003 compared with December 2002 was reflected by the manufacturing industry. The decrease was mainly due to the retrenchment of temporary employees needed to comply with production needs before the closure of all manufacturing enterprises by the middle of December 2002. Furthermore, additional job losses were due to the fact that some businesses downsized their operations. This decrease is not statistically significant.

## Electricity, gas and water supply industry

The electricity, gas and water supply industry reflected an increase of less than 1000 employees ( $+0,1 \%$ ) between December 2002 and March 2003. This increase was mainly due to the appointment of temporary employees. This increase is not statistically significant.

## Construction industry

The construction industry reflected a decrease of approximately 13000 employees ( $-3,5 \%$ ) at March 2003 compared with December 2002. This quarterly decrease was mainly due to the retrenchment of temporary employees and the completion of contracts entered into previously that ended in December. This decrease is not statistically significant.

Wholesale and retail trade; repair of motor vehicles, motor cycles and personal and household goods; hotels and restaurants industry

The decrease of approximately 16000 employees ( $-1,2 \%$ ) at March 2003 compared with December 2002 reported by this industry was due to the retrenchment of temporary employees needed for the festive season by wholesale and retail enterprises and is not statistically significant. Hotels and restaurants made use of temporary employees and students from hotel schools to assist with the workload during the December festive season. In March 2003 the businesses were back to their normal operations and additional temporary employees were no longer needed.

## Transport, storage and communication industry

The transport, storage and communication industry reported a decrease of approximately 7000 employees $(-3,1 \%)$ between December 2002 and March 2003. This decrease was mainly due to the restructuring in the telecommunications industry and the closure of businesses of sea and coastal transport of freight and passengers. This decrease is not statistically significant.

## Financial intermediation, insurance, real estate and business services industry

The increase of approximately 6000 employees ( $+0,6 \%$ ) reported by the financial intermediation industry at March 2003 compared with December 2002, can be attributed to the appointment of temporary employees due to an increase in work. In the consulting engineering sub-group, more engineering students were appointed for in-service training, and businesses such as credit rating and debt collection have expanded. This increase is not statistically significant.

## Community, social and personal services

An increase of 15000 employees $(0,9 \%)$ was reported by the community, social and personal services from December 2002 to March 2003. The increase is partly due to parttime employees employed in the municipalities for municipal projects. The other reason is that many universities and technikons employed temporary employees to help with the registration of students in the March quarter.

Table 2 - Gross earnings: All formal non-agricultural industries

| Industry | Quarter ended September 2002 <br> (R'000) | Quarter ended December 2002 <br> ( $\mathbf{R}^{\prime} \mathbf{0 0 0}$ ) | Change in gross earnings between quarter ended <br> September 2002 <br> and quarter ended <br> December 2002 <br> ( $\mathrm{R}^{\prime} \mathbf{0 0 0}$ ) | Percentage change between quarter ended <br> September 2002 <br> and quarter ended <br> December 2002 $\%$ | Quarter ended March 2003 <br> ( $\mathbf{R}^{\prime} \mathbf{0 0 0}$ ) | Change in gross earnings between quarter ended December 2002 and quarter ended March 2003 (R’000) | Percentage change between quarter ended <br> December 2002 <br> and quarter ended <br> March 2003 $\%$ |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Mining and quarrying | 6766000 | 7025000 | 259000 | 3,8 | 7173000 | 148000 | 2,1 |
| Manufacturing | $20346000^{*}$ | $22089000 *$ | 1744000 | 8,5 | 20357000 | -1732000 | -7,8 |
| Electricity, gas and water supply | $1435000^{*}$ | $1714000^{*}$ | 279000 | 19,4 | 1537000 | -177000 | -10,4 |
| Construction | 3310 000* | $3671000 *$ | 361000 | 10,7 | 3044000 | -627000 | -17,1 |
| Wholesale and retail trade; repair of motor vehicles, motor cycles and personal and household goods; hotels and restaurants | 15950 000* | $17101000^{*}$ | 1151000 | 7,2 | 16920000 | -181000 | -1,2 |
| Transport, storage and communication | 4643 000* | $5135000^{*}$ | 492000 | 10,6 | 4876000 | -259000 | -5,0 |
| Financial intermediation, insurance, real estate and business services | 27534 000* | $29191000 *$ | 1657000 | 6,0 | 27374000 | -1816000 | -6,2 |
| Community, social and personal services | $38257000^{*}$ | $37968000^{*}$ | -289 000 | -0,8 | 39449000 | 1481000 | 3,9 |
| Total | 118240 000* | 123895 000* | 5655000 | 4,8 | 120729000 | -3165000 | -2,6 |

* Revised for September 2002 and December 2002


## Reasons for the changes in the level of gross earnings between December 2002 and March 2003

The decrease of R3 165 million or 2,6\% reported by all industries in the formal non-agricultural business sector for the December 2002 quarter is not statistically significant. This decrease can mainly be ascribed to annual salary increases, annual bonuses paid to employees and additional overtime worked in the fourth quarter of 2002 and not in March 2003 quarter.

## Mining and quarrying industry

The mining and quarrying industry reflected an increase of R 148 million or $2,1 \%$ between December 2002 and March 2003. This increase was due to bonuses that were paid by some mines.

## Manufacturing industry

The manufacturing industry reflected a decrease of R1 732 million or $7,8 \%$ in gross earnings between December 2002 and March 2003. This quarterly decrease was due to annual salary increases, annual bonuses and commissions paid to employees during the fourth quarter of each year.

## Electricity, gas and water supply industry

Gross earnings paid to employees in this industry for the March 2003 quarter reflected a decrease of R177 million or $10,4 \%$ compared with the December 2002 quarter. This decrease was due to annual bonuses and profit share bonuses paid to employees in November of each year by the electricity component of this industry.

## Construction industry

The construction industry reflected a decrease of R627 million or $17,1 \%$ between December 2002 and March 2003. This decrease was due to annual salary increases and performance and profit share bonuses paid to employees during the fourth quarter of 2002.

Wholesale and retail trade; repair of motor vehicles, motor cycles and personal and household goods; hotels and restaurants industry
Gross earnings paid to employees in this industry for the March 2003 quarter reflected a decrease of R181 million or $1,2 \%$ compared with the December 2002 quarter. This decrease is attributable to retrenchments due to lack of business and the use of temporary staff during the December 2002 quarter festive season.

## Transport, storage and communication industry

The transport industry reflected a decrease of R259 million or 5,0\% between December 2002 and March 2003. This decrease was due to the restructuring in the telecommunication industry and the closure of some sea and coastal transport businesses.

## Financial intermediation, insurance, real estate and business services industry

The financial intermediation, insurance, real estate and business services industry reflected a decrease of R1 816 million or 6,2\% between December 2002 and March 2003. The decrease was due to annual bonuses that were paid in December 2002 and not in March 2003.

## Community, social and personal services

The community, social and personal services industry reflected an increase of R1 481 million or $3,9 \%$ between December 2002 and March 2003. This increase was due to employment of temporary employees in municipal projects and temporary employees to assist with the registration of students in the March quarter.

## Additional information

## Technical notes

Confidence intervals
The estimated population value will be contained within the interval between the lower and upper $95 \%$ confidence limits.

The $95 \%$ confidence intervals of a population parameter (gross salaries and wages) is obtained as follows:

Lower limit
= lower 95\% confidence limit of a population parameter
$=$ estimate $-1.96 *$ Standard Error (estimate)
and
Upper limit
= upper 95\% confidence limit of a population parameter
$=$ estimate $+1.96 *$ Standard Error (estimate)

Standard Error $(\mathrm{SE})=\frac{\text { upper limit }- \text { lower limit }}{2 \times 1.96}$

Relative Standard Error (RSE) $=\frac{\text { SE }(\text { estimate })}{\text { estimate }} \times 100$

Table A - Estimates of number of employees by industry within $95 \%$ confidence limits in September 2002, December 2002 and March 2003

| Quarter | September 2002 |  |  |  | December 2002 |  |  |  | March 2003 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Industry | Lower limit | Estimate | Upper limit | RSE | Lower limit | Estimate | Upper limit | RSE | Lower limit | Estimate | Upper <br> limit | RSE |
| Mining and quarrying | 418428 | 418428 | 418428 | ** | 417897 | 417897 | 417897 | ** | 417211 | 417211 | 417211 | ** |
| Manufacturing | 1199230 | 1250029 | 1300827 | 2,1 | 1201476 | 1252598 | 1303720 | 2,1 | 1206539 | 1249171 | 1291802 | 1,7 |
| Electricity, gas and water supply | 43611 | 46642 | 49673 | 3,3 | 43326 | 45698 | 48071 | 2,6 | 43297 | 45735 | 48173 | 2,7 |
| Construction | 294622 | 349507 | 404392 | 8,0 | 286383 | 349561 | 412740 | 9,2 | 265028 | 337360 | 409691 | 10,9 |
| Wholesale and retail trade; repair of motor vehicles, motor cycles and personal and household goods; hotels and restaurants | 1119278 | 1298155 | 1477032 | 7,0 | 1144151 | 1312329 | 1480508 | 6,5 | 1133485 | 1296215 | 1458944 | 6,4 |
| Transport, storage and communication | 190854 | 208065 | 225276 | 4,2 | 188934 | 207924 | 226914 | 4,7 | 185656 | 201390 | 217124 | 4,0 |
| Financial intermediation, insurance, real estate and business services | 1046708 | 1229911 | 1413113 | 7,6 | 1039294 | 1202667 | 1366040 | 6,9 | 1068860 | 1209103 | 1349346 | 5,9 |
| Community, social and personal services | 1651872 | 1707898 | 1763924 | 1,7 | 1659625 | 1727190 | 1794755 | 2,0 | 1673568 | 1741998 | 1810429 | 2,0 |

Table B - Estimates of gross earnings ( $\mathbf{R}^{\prime} \mathbf{0 0 0}$ ) by industry within $95 \%$ confidence limits in September 2002, December 2002 and March 2003

| Quarter | September 2002 |  |  |  | December 2002 |  |  |  | March 2003 |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Lower limit | Estimate | Upper <br> limit | RSE | Lower limit | Estimate | Upper <br> limit | RSE | Lower limit | Estimate | Upper limit | RSE |
| Mining and quarrying | 6766028 | 6766028 | 6766028 | ** | 7025361 | 7025361 | 7025361 | ** | 7172918 | 7172918 | 7172918 | ** |
| Manufacturing | 19848905 | 20447495 | 20840594 | 1,2 | 21495868 | 22089284 | 22682700 | 1,4 | 19788350 | 20357326 | 20923484 | 1,4 |
| Electricity, gas and water supply | 1397464 | 1435391 | 1473318 | 1,3 | 1677068 | 1714223 | 1751378 | 1,1 | 1501873 | 1536603 | 1571333 | 1,2 |
| Construction | 2737476 | 3310389 | 3883302 | 8,8 | 3006516 | 3670703 | 4334890 | 9,2 | 2653907 | 3043626 | 3433345 | 6,5 |
| Wholesale and retail trade; repair of motor vehicles, motor cycles and personal and household goods; hotels and restaurants | 13221423 | 15950463 | 18679503 | 8,7 | 13922522 | 17100827 | 20279132 | 9,5 | 13940662 | 16919832 | 19899002 | 9,0 |
| Transport, storage and communication | 4403286 | 4642654 | 4882022 | 2,6 | 4845112 | 5135126 | 5425140 | 2,9 | 4652460 | 4876048 | 5099636 | 2,3 |
| Financial intermediation, insurance, real estate and business services | 24235236 | 27533592 | 30831942 | 6,1 | 26170897 | 29190541 | 32210186 | 5,3 | 24025937 | 27374325 | 30722713 | 6,2 |
| Community, social and personal services | 37809659 | 38257060 | 38704461 | 0,6 | 37445212 | 37968465 | 38491717 | 0,7 | 38939574 | 39448648 | 39957722 | 0,7 |

## Explanatory notes

## Introduction

Scope of the survey

1 This publication contains results of the quarterly Survey of Employment and Earnings of enterprises in the formal non-agricultural business sector of the South African economy. The survey is designed to obtain information regarding:

- the number of persons employed in the business as at the end of the reference quarter;
- gross earnings paid during the reference quarter (excluding severance, termination and redundancy payments).

2 This survey covers employment statistics of the following industries according to the Standard Industrial Classification of all Economic Activities (SIC), Fifth edition, January 1993:

- mining and quarrying industry;
- manufacturing industry;
- electricity, gas and water supply industry;
- construction industry;
- wholesale and retail trade; repair of motor vehicles, motor cycles and personal and household goods; hotels and restaurants industry;
- transport, storage and communication industry;
- financial intermediation, insurance, real estate and business services industry; and
- community, social and personal services industry.


## Classification

## Statistical unit

3 The Standard Industrial Classification of all Economic Activities (SIC), Fifth edition, January 1993, 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. Statistics in this publication are only presented at the SIC major division (one digit) level. Due to the sample size currently being used for this survey, it is not possible to provide accurate information at a more detailed level. However Stats SA will endeavour to make available estimates of these sub-groups if requested. The user is advised to use such estimates with caution. Each enterprise is classified to the industry, which reflects the predominant activity of the enterprise.

4 The statistical unit for the collection of information is an enterprise. An enterprise is a legal unit or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities.

5 This survey is collected by mail each quarter from a sample of 10183 private businesses and public institutions. Information regarding government departments and provincial governments is obtained electronically from PERSAL.

6 Stats SA receives information regarding the mining and quarrying industry from the Minerals Bureau, Department of Minerals and Energy. The information for the latest quarter is preliminary and will be revised by the Minerals Bureau as soon as they receive more information from the different mines.

Reliability of estimates

7 Inaccuracies may occur because of imperfections in reporting by enterprises, and errors made with the collection and processing of the data. Inaccuracies of this kind are referred to as non-sampling errors. Every effort is made to reduce non-sampling errors to a minimum by designing the questionnaire carefully, undertaking pilot studies, editing the data and efficient operating procedures. Fluctuations may occur in consecutive quarters as a result of seasonal and economic factors. The user's attention is drawn to the fact that the current survey is limited to formal non-agricultural businesses registered for VAT, where the turnover is R300 000 or more per annum.

## Standard errors

Revised figures

Related publications

8 The estimates in this publication are based on a sample drawn from units in the surveyed population. As a result of the entire population not being surveyed, the published estimates are subject to sampling error. The most common way of quantifying such sampling error is to calculate the standard error for the published estimate or statistic.

9 The revised figures are due to respondents reporting revisions in their figures. Figures for the latest quarter are preliminary and may be revised in subsequent publications.

10 Users may also wish to refer to the following publications which are available from Stats SA:

- Bulletin of Statistics.
- Labour Force Survey.
- SA Statistics.

Pre-release policy 11 Stats SA's pre-release policy may be inspected at its website, www.statssa.gov.za.


## Glossary

## Casual employees

## Enterprises

## Formal sector

Full-time employees

## Gross earnings

## Industries

## Informal sector

Casual employees are employees who fall neither within the 'permanent employee' category nor within that of a 'temporary employee'. Such employees are typically daily or hourly. Employers can dispense with their services at very short notice, usually not exceeding a period of one week. Casual employees are not entitled to benefits such as paid leave and medical aid contributions paid by employers.

Enterprises are legal units, or a combination of legal units that includes and directly controls all functions necessary to carry out its production activities.

The formal sector includes all businesses that are registered in any way.

Full-time employees are those permanent, temporary and casual employees who normally work the agreed number of hours for a full-time employee in their particular occupation or, if the agreed number of hours does not apply, who normally work 35 hours or more per week. This includes the self-employed at work or with an enterprise but temporarily not at work.

Gross earnings are payments for ordinary-time, standard or agreed hours during the reference period for all permanent, temporary, casual, managerial and executive employees before taxation and other deductions for the three months. This includes salaries and wages, performance and others bonuses, allowances, commissions, etc., but excludes, e.g., severance, termination and redundancy payments as well as payments to sub-contractors, etc. Gross earnings are the total sum of the earnings for the three months of the reference quarter (e.g. gross earnings of quarter ended September is the sum of total earnings of July, August and September).

Industries consist of groups of enterprises engaged in the same or similar kind of activity. The definition of industries is based on the System of National Accounts (SNA) and is in line with that in the Standard Industrial Classification of all Economic Activities, Fifth Edition, and Report No. 09-09-02 of January 1993 (SIC).

The informal sector consists of those businesses that are not registered in any way. They are generally small in nature, and are seldom run from business premises. Instead, they are generally run from homes, street pavements and other informal arrangements.

## Number of employees

Ordinary-time hours

Overtime hours paid for

Overtime payment

## Part-time employees

Performance and other bonuses

## Permanent employees

The number of employees is the number of people employed by the business, who received payment (in salaries, wages, commission, piece rates or payments in kind) for any part of the reference quarter (excluding independent contractors). This includes the self-employed at work or with an enterprise but temporarily not at work. Number of employees refers to the number of people employed at the end of the reference quarter (e.g. number of employees as at the quarter ended September refers to the number of employees as at the end of the month of September).

Ordinary-time hours are those hours actually worked during normal periods of work. These hours include hours of paid leave taken during the reference period (e.g. sick leave, annual leave) and hours of normal shift work. Ordinary-time hours paid for exclude overtime hours worked, hours relating to payment in advance and hours relating to back pay.

Overtime hours paid for are those hours worked in excess of ordinary-time hours, standard or agreed hours of work that were paid for in the reference period.

Overtime payment refers to payment for hours worked and paid for in excess of ordinary-time hours, standard or agreed hours worked for the reference period. Penalty payments that relate to overtime are also included.

Part-time employees are those permanent, temporary or casual employees who are not full-time employees as defined above or who normally work less than 35 hours per week. This includes the self-employed at work or with an enterprise but temporarily not at work.

Performance and other bonuses cover seasonal, end-of-year and one-time bonuses and additional payments supplementary to normal payments.

Performance and other bonuses include profit sharing bonuses, merit bonuses, incentive bonuses, total amounts of payments that were paid during the reference period but relate to other pay periods, e.g. annual leave, thirteenth cheques, severance, termination, redundancy and leave gratuity payments. Performance and other bonuses exclude reimbursements for expenses incurred whilst conducting employer's business.

Permanent employees are employees appointed on an openended contract with no stipulated termination date, and who are entitled to benefits such as paid leave and medical aid contributions paid by employers. This includes the selfemployed at work.

Quarterly percentage change A quarterly percentage change is the change in the employment or the gross earnings of the given quarter compared with the employment or the gross earnings of the previous quarter expressed as a percentage.

## Reference quarter

Reference quarter for this survey refers to the three months up to the end of March, June, September or December.

Severance, termination and redundancy payments

Temporary employees
Severance, termination and redundancy payments includes payments of leave made to employees who finished work during the reference quarter as well as payments intended to compensate for loss of employment.

Temporary employees are employees appointed on a short-term contract basis for periods normally not exceeding one year. Such contract would typically stipulate a termination date, but could be renewed by mutual agreement between the employer and the employee. This includes the self-employed with an enterprise but temporarily not at work.

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