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# **Gross Domestic Product**

Annual estimates 1993 - 1999 Third quarter 2000

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#### **KEY FINDINGS**

# Real GDP at market prices increases by 3,8% during the third quarter of 2000

According to the latest preliminary indicators, the seasonally adjusted real GDP at market prices for the third quarter of 2000 increased by an annualised rate of 3,8 percent compared with the second quarter of 2000, following real annualised economic growth rates of 2,0 (revised from 0,8) and 2,8 (revised from 1,6) percent in the first and second quarters of 2000 compared with the fourth quarter of 1999 and the first quarter of 2000 respectively. The revised real annualised growth rates for the four quarters of 1999 were 2,0 percent, 2,6 percent, 3,6 percent and 4,2 percent respectively (cf. table 4). These quarterly figures have been revised as part of Stats SA's annual independent compilation and revision of the GDP estimates for each quarter in the period 1998 to 2000.

The seasonally adjusted real value added at basic prices for all industries – which is equal to GDP minus taxes on products plus subsidies on products –increased by an annualised rate of 3,9 percent during the third quarter of 2000 compared with the second quarter of 2000, following annualised increases of 1,9 (revised from 0,7) and 2,8 (revised from 1,6) percent in the first and second quarters of 2000 compared with the fourth quarter of 1999 and the first quarter of 2000 respectively (cf. figure 1 and table 4).

The seasonally adjusted real value added by the non-agricultural industries (excluding the impact of the volatile agriculture industry) increased by 2,4 (revised from 1,7), 2,6 (revised from 1,8) and 3,1 percent during the first second and third quarters of 2000, compared with the fourth quarter of 1999 and the first and second quarters of 2000 respectively (cf. figure 1 and table 4).

The unadjusted real GDP at market prices increased by 2,5 percent, 2,0 percent and 4,5 percent during the first, second and third quarters of 2000 compared with the first, second and third quarters of 1999 respectively (cf. table 2). The unadjusted real GDP at market prices for the first nine months of 2000 increased by 3,0 percent compared with the first nine months of 1999.

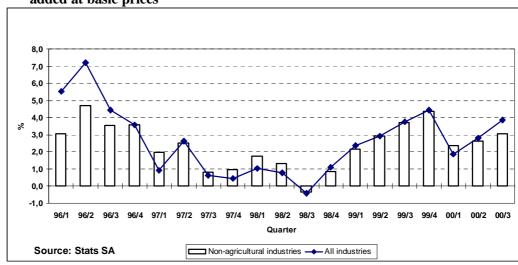


Figure 1 - Annualised growth rate in the seasonally adjusted real value added at basic prices

# Revised annual estimates for 1998, 1999 and all quarters since the first quarter of 1998

Prior to June 1999, Stats SA only compiled quarterly national accounts and the annual estimates of GDP were derived as the sum of the GDP for the four quarters of the specific year. Stats SA implemented the 1993 System of National Accounts in June 1999 in conjunction with the revision, benchmarking and rebasing (to 1995 levels) of the national accounts. Stats SA revises, benchmarks and re-bases the GDP estimates on a periodic (5-yearly) basis. This is done in order to, inter alia, recalculate the relative weights of industries in the constant price estimates of GDP and to incorporate new data sources and activities that have been identified since the previous benchmarking exercise.

With the implementation of the 1993 System of National Accounts, Stats SA for the first time compiled and introduced independent annual national accounts estimates for the period 1993 to 1998 which were published on June 1999. At that stage Stats SA stated that in future independent annual national accounts estimates will be compiled for the latest two years and be published in November of each year. The purpose of independent annual estimates is to benchmark the level of GDP-estimates for the specific year by incorporating new data that was not yet available when the quarterly estimates were compiled. The annual revision of GDP estimates through the independently compiled national accounts should be seen as part of the periodic benchmarking process, as it will assist in smoothing the effect of changing the level-estimates of GDP periodically.

According to the revision policy of Stats SA regarding the compilation of National Accounts for South Africa, annual and quarterly national accounts estimates are revised annually when independent annual national accounts estimates for the latest two years and the latest ten quarters are compiled using more comprehensive economic and socio-economic information, e.g. annual reports and financial statements of enterprises and results of household surveys, which became available since the previous independent annual estimates were published. These sources are generally speaking, more reliable than the sources used for the quarterly estimates. Therefore, revisions made to the annual value added of an industry, impact on the quarterly value added of an industry of that year, as well as value added estimates of the following quarters of that specific industry. Hence, the annual GDP estimates for the latest two years (1998 to 1999) and the quarterly estimates of all ten quarters since the first quarter of 1998 were revised and published on Monday, 27 November 2000 by Stats SA. These estimates are the result of independently compiled annual national accounts, using additional sources containing more comprehensive data than in the case of quarterly GDP estimates.

The revised growth rate in the real GDP at market prices for 1998 is 0,7 percent compared to the previous estimate of 0,6 percent. The real economic growth rate for 1999 has been revised to 1,9 percent compared to the previous estimate of 1,2 percent. As expected, the benchmarking of 1998 did not indicate noticeable changes as it was also benchmarked and published on 22 November 1999.

The revision (through benchmarking) of annual estimates of GDP has a direct influence on the quarterly growth patterns of the specific years. Not only are the levels of the annual estimates adjusted, but new data sources indicate different growth patterns throughout the years as well.

#### Revised methodology for estimates of the agriculture industry

The agricultural industry comprises the agriculture-, forestry- and fishing industries. Apart from the annual revisions, Stats SA has revised the methodology used to estimate the **quarterly** value added by the agriculture industry to be consistent with the methodology used for compiling the independent **annual** estimates of value added by the agriculture industry. The revision of the methodology used in the estimation of the quarterly value added by the agriculture industry has been considered since the implementation of the 1993 System of National Accounts (SNA93) in June 1999. The SNA93 gives broad guidelines relating to the methodology that needs to be followed in the estimation of quarterly value added. Various alternatives were researched and discussed with stakeholders, most notably the South African Reserve Bank, the National Department of Agriculture and an inter-regional advisor from the United Nations during a workshop earlier this year. It was then decided to change the methodology used to estimate the quarterly value added by the agriculture industry.

In estimating the quarterly value added by the agriculture industry, the output of the agriculture industry is now consistently allocated to the period when crops are harvested and animals are slaughtered etc., while previously a combination of methods was applied. The introduction of the new methodology resulted in revised quarterly distributions of value added by the agriculture industry as from 1993. The seasonally adjusted estimates of value added by the agriculture industry were revised only from 1997 in order to create a seamless link to the latest revised annual estimates of total value added from 1998 onwards.

The change in the methodology only influences the quarterly distribution of value added of the agriculture industry and not the annual estimates of the value added by the agriculture industry. However, Stats SA has revised the annual estimates of the value added by the agriculture industry due to new and additional data that was received from the National Department of Agriculture regarding 1998 and 1999. The revised information received led to revisions of the real value added by the agriculture industry for 1997 from 3,0 percent to 2,4 percent and for 1998 from –3,6 percent to – 8,0 percent. The revised information led to revisions of the real value added by the **agriculture-, forestry- and fishing** industries (agricultural industry) for 1997 from 2,3 percent to 1,5 percent, for 1998 from – 3,1 percent to – 7,3 percent and for 1999 from 4,3 percent to 3,4 percent.

### Real value added by industry

Table A shows the contribution of the different industries, and taxes less subsidies on products, to the annualised percentage change in the seasonally adjusted real GDP for the seven quarters from the first quarter of 1999 onwards. The impact of an industry on the change in real GDP depends on two factors: the increase or decrease in the real value added of the industry and its relative size measured as its share of GDP in the previous quarter. Thus, the 3,8 percent annualised increase in the seasonally adjusted real GDP during the third quarter of 2000 was mainly due to increases in the real value added by agriculture, forestry and fishing (0,9 of a percentage point), finance, real estate and business services (0,8 of a percentage point), manufacturing (0,7 of a percentage point), wholesale and retail trade, hotels and restaurants (0,7 of a percentage point), and transport and communication (0,6 of a percentage point) industries. The contributions to the increase in real GDP by all other industries were either lower than the aforementioned, or negative, e.g. mining and quarrying (-0,1 of a percentage point) and general government services (-0,2 of a percentage point) industries (cf. table A last column).

Table A - Contributions of the percentage change in real value added by industries to annualised percentage change in seasonally adjusted real GDP

| Industry   | Weights<br>2000 Q3 <sup>1/</sup><br>(percent) | Seasonally adjusted real<br>annualised change from the<br>previous quarter (percent) |      |      |          |   |      |      | Contributions to the seasonally<br>adjusted annualised changes in<br>real GDP (percentage points) <sup>2/</sup> |      |      |      |         |      |      |
|--|---|--|------|------|----------|---|------|------|---|------|------|------|---------|------|------|
|  | , ,   |  | 19   |      | <b>4</b> | (,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, | 2000 |      |   |      | 99   | 0.00 | igo poi | 2000 |      |
|  |   | Q1   | Q2   | Q3   | Q4       | Q1                                      | Q2   | Q3   | Q1  | Q2   | Q3   | Q4   | Q1      | Q2   | Q3   |
| Agriculture, forestry and fishing                  | 3,8   | 6,6  | 2,6  | 4,5  | 6,4      | -8,6                                    | 7,5  | 24,1 | 0,2   | 0,1  | 0,2  | 0,2  | -0,4    | 0,3  | 0,9  |
| Mining and quarrying                               | 5,6   | 0,1  | 0,0  | -0,9 | -0,2     | -2,8                                    | -3,6 | -2,6 | 0,0   | 0,0  | -0,1 | 0,0  | -0,2    | -0,2 | -0,1 |
| Manufacturing                                      | 18,1  | 0,1  | 0,7  | 4,6  | 6,0      | 2,7                                     | 2,2  | 3,7  | 0,0   | 0,1  | 0,8  | 1,1  | 0,5     | 0,4  | 0,7  |
| Electricity and water                              | 3,3   | -3,5   | 4,4  | 9,7  | 12,1     | 0,2                                     | 2,4  | 1,8  | -0,1  | 0,1  | 0,3  | 0,4  | 0,0     | 0,1  | 0,1  |
| Construction                                       | 2,6   | -5,2   | -5,4 | -4,3 | -3,5     | -0,7                                    | 1,5  | 2,5  | -0,2  | -0,2 | -0,1 | -0,1 | 0,0     | 0,0  | 0,1  |
| Wholesale and retail trade, hotels and restaurants | 12,6  | 5,1  | 5,3  | 4,8  | 4,4      | 5,6                                     | 6,0  | 5,3  | 0,6   | 0,6  | 0,6  | 0,5  | 0,7     | 0,7  | 0,7  |
| Transport and communication                        | 10,0  | 6,2  | 10,2 | 9,4  | 5,7      | 5,2                                     | 6,5  | 5,8  | 0,6   | 1,0  | 0,9  | 0,6  | 0,5     | 0,6  | 0,6  |
| Finance, real estate and business services         | 17,4  | 5,1  | 4,9  | 5,3  | 9,1      | 3,1                                     | 3,4  | 4,6  | 0,9   | 0,8  | 0,9  | 1,5  | 0,5     | 0,6  | 0,8  |
| Community, social and personal services            | 2,4   | 3,0  | 1,6  | 1,9  | 2,6      | 1,9                                     | 2,2  | 3,2  | 0,1   | 0,0  | 0,0  | 0,1  | 0,0     | 0,1  | 0,1  |
| General government services                        | 13,3  | -0,1   | -0,6 | -1,4 | -2,1     | -0,5                                    | -0,9 | -1,2 | 0,0   | -0,1 | -0,2 | -0,3 | -0,1    | -0,1 | -0,2 |
| Other producers                                    | 2,5   | 1,9  | 2,0  | 2,0  | 2,0      | 2,6                                     | 2,7  | 2,8  | 0,0   | 0,0  | 0,1  | 0,1  | 0,1     | 0,1  | 0,1  |
| Total value added                                  | 91,5  | 2,4  | 2,9  | 3,7  | 4,4      | 1,9                                     | 2,8  | 3,9  | 2,1   | 2,6  | 3,4  | 4,1  | 1,7     | 2,6  | 3,5  |
| Taxes less subsidies on products                   | 8,5   | -1,7   | -0,4 | 1,8  | 1,7      | 2,8                                     | 2,7  | 3,5  | -0,2  | 0,0  | 0,2  | 0,1  | 0,2     | 0,2  | 0,3  |
| GDP at market prices                               | 100,0   | 2,0  | 2,6  | 3,6  | 4,2      | 2,0                                     | 2,8  | 3,8  | 2,0   | 2,6  | 3,6  | 4,2  | 2,0     | 2,8  | 3,8  |

 $<sup>\</sup>underline{1}$ / The weight of each industry for the third quarter of 2000 is the share of its seasonally adjusted real value added of the seasonally adjusted GDP for the second quarter 2000. Similarly, the weight of taxes less subsidies on products is the share of its seasonally adjusted value of the seasonally adjusted GDP for the second quarter 2000.

 $<sup>\</sup>underline{2}$ / The contribution is calculated by multiplying the percentage change of each industry (and taxes less subsidies on products) with its share of GDP in the previous quarter (i.e. its weight).

The annual real value added by the *agriculture, forestry and fishing* industry decreased by 7,3 percent in 1998 compared to the previously estimated decrease of 3,1 percent, while increased by 3,4 percent in 1999 compared to the previously estimated increase of 4,3 percent.

The seasonally adjusted real value added by the *agriculture, forestry and fishing* industry increased at an annualised rate of 24,1 percent during the third quarter of 2000 compared with the second quarter of 2000, following an annualised decrease of 8,6 percent in the first quarter of 2000 compared with the fourth quarter of 1999 and an annualised increase of 7,5 percent in the second quarter of 2000 compared with the first quarter of 2000. (If these rates were not annualised, the rate of change would have been –2,2 percent, 1,8 percent and 5,5 percent for the first three quarters of 2000 respectively.) The annualised increase reflected during the third quarter of 2000 was mainly due the late harvest of field crops due to the effects of extreme weather conditions which occurred during the first quarter of 2000 e.g. high rainfall and floods. The unadjusted real value added by agriculture, forestry and fishing during the first nine months of 2000 increased by 1,0 percent compared with the first nine months of 1999.

The revised estimate of the annual real value added by the *mining and quarrying* industry indicates a decrease of 0,8 percent for 1998 compared to the decrease of 0,5 percent previously estimated. The revised annual decrease in the real value added by this industry for 1999 remained unchanged at 1,0 percent.

The *mining and quarrying* industry continued its downward trend during the first three quarters of 2000. This industry reflected annualised decreases in the seasonally adjusted real value added of 2,8 percent, 3,6 percent and 2,6 percent during the first, second and third quarters of 2000 compared with the fourth quarter of 1999 and the first and second quarters of 2000 respectively. These annualised decreases in the seasonally adjusted real value added were mainly due to decreases in the production of coal, gold and other metal ores. The unadjusted real value added by the mining and quarrying industry during the first nine months of 2000 decreased by 1,7 percent compared with the first nine months of 1999.

The real value added by the *manufacturing* industry reflects an annual decrease of 1,6 percent for 1998 compared to the previously estimated annual decrease of 1,8 percent. The real value added by the manufacturing industry for 1999 continued to decrease in 1999 by 0,2 percent compared to the previously estimated increase of 0,2 percent.

The seasonally adjusted real value added by the *manufacturing* industry increased by an annualised rate of 3,7 percent during the third quarter of 2000 compared with the second quarter of 2000, following annualised increases of 2,7 percent and 2,2 percent during the first and second quarters of 2000 compared with the fourth quarter of 1999 and the first quarter of 2000 respectively. The annualised increase during the third quarter of 2000 was mainly due to increases reflected in the seasonally adjusted real value added by the petroleum products, chemicals and chemical products, rubber and plastic products and transport equipment industries. The unadjusted real value added by the manufacturing industry during the first nine months of 2000 increased by 3,6 percent compared with the first nine months of 1999.

The annual real value added by the *electricity and water* industry increased by 0,6 percent in 1998 compared to the previously estimated increase of 1,2 percent. The revised estimates of the real value added by the electricity and water industry reflects an annual increase of 1,9 percent for 1999 which is higher than the previously estimated annual increase of 0,1 percent.

The *electricity and water* industry reflected annualised increases in the seasonally adjusted real value added of 0,2 percent, 2,4 percent and 1,8 percent during the first, second and third quarters of 2000 compared with the fourth quarter of 1999 and the first and the second quarters of 2000 respectively. The annualised increase reflected during the third quarter of 2000 was mainly due to increased production of electricity. The unadjusted real value added by the electricity and water industry during the first nine months of 2000 increased by 5,4 percent compared with the corresponding period of 1999.

The revised annual increase in the real value added by the *construction* industry for 1998 remained unchanged at 1,2 percent. The real value added by the construction industry reflects an annual decrease of 3,8 percent for 1999 compared to the previously estimated decrease of 1,6 percent.

The seasonally adjusted real value added by the *construction* industry increased at an annualised rate of 2,5 percent during the third quarter of 2000 compared with the second quarter of 2000. This increase is the second consecutive positive growth rate reflected for this industry. The unadjusted real value added by the construction industry during the first nine months of 2000 decreased by 1,8 percent compared with the first nine months of 1999.

The revised annual decreases in the real value added by the *wholesale and retail trade, hotels and restaurants* industry for 1998 remained unchanged at 1,4 percent. The real value added by the wholesale and retail trade, hotels and restaurants industry indicates an annual increase of 1,3 percent for 1999 which is higher than the 0,0 percent previously estimated.

The positive growth rates in the seasonally adjusted real value added by the wholesale and retail trade, hotels and restaurants industry were sustained during the first three quarters of 2000. The annualised increases during the first, second and third quarters of 2000 were 5,6 percent, 6,0 percent and 5,3 percent reflected by this industry compared with the fourth quarter of 1999 and the first and second quarters of 2000 respectively. The annualised increase of 5,3 percent during the third quarter of 2000 was mainly due to increases reflected in the seasonally adjusted real value added by the wholesale and motor trade industries. The unadjusted real value added by wholesale and retail trade, hotels and restaurants during the first nine months of 2000 increased by 5,1 percent compared with the first nine months of 1999.

The annual real value added of the *transport and communication* industry increased by 7,0 percent in 1998 and 7,6 percent in 1999 compared to the previously estimated annual increases of 8,1 percent and 6,6 percent, respectively.

The seasonally adjusted real value added by the *transport and communication* industry increased at an annualised rate of 5,8 percent during the third quarter of 2000 compared with the second quarter of 2000, following annualised increases of 5,2 percent and 6,5 percent in the first and second quarters of 2000 respectively. The annualised increase reflected by this industry during the third quarter of 2000 was mainly due to increased activities related to land transport as well as communication services. The unadjusted real value added by the transport and communication industry during the first nine months of 2000 increased by 6,7 percent compared with the first nine months of 1999.

The annual real value added of the *finance*, *real estate and business services* industry increased by 5,6 percent in 1998 and 6,3 percent in 1999 compared to the previously estimated annual increases of 3,6 percent and 3,0 percent respectively.

The real value added in the *finance, real estate and business services* industry increased by seasonally adjusted annualised rates of 3,1 percent, 3,4 percent and 4,6 percent during the first, second and third quarters of 2000 compared with the fourth quarter of 1999 and the first and second quarters of 2000 respectively. The annualised increase in the third quarter of 2000 was mainly due to increased activities in financial intermediation and real estate. The unadjusted real value added by the finance, real estate and business services industry during the first nine months of 2000 increased by 5,3 percent compared with the first nine months of 1999.

The annual real value added of the *community, social and personal services* industry decreased by 0,5 percent in 1998 and increased by 2,0 percent in 1999 compared to the previously estimated annual increases of 1,0 percent and 3,2 percent respectively.

The real value added by the *community, social and personal services* industry increased by a seasonally adjusted annualised rate of 3,2 percent during the third quarter of 2000 compared with the second quarter of 2000, following annualised increases of 1,9 percent and 2,2 percent in the first and second quarters of 2000 respectively. The unadjusted real value added of the community, social and personal services industry during the first nine months of 2000 increased by 2,2 percent compared with the first nine months of 1999.

The annual decreases in the real value added by the *general government services* sector for 1998 and 1999 remained unchanged at 0,5 and 0,7 percent respectively.

Finally, the seasonally adjusted real value added of the *general government services* sector reflected an annualised decrease of 1,2 percent during the third quarter of 2000 compared with the second quarter of 2000, following annualised decreases of 0,5 percent and 0,9 percent during the first and second quarters of 2000 respectively. The unadjusted real value added of the general government services sector during the first nine months of 2000 decreased by 1,2 percent compared with the first nine months of 1999.

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### **METHODOLOGICAL NOTES**

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#### Introduction

This statistical release contains annual and quarterly estimates of the GDP for the years 1993 to 1999 and the first three quarters of 2000, calculated from the production side whereby GDP is derived through the sum of values added of different economic activities or industries. Stats SA is responsible for compiling the production side of the national accounts, while the SARB is responsible for compiling the expenditure side of the national accounts, as well as income and savings and the balance of payments. The SARB will release their estimates on December 6, 2000.

The results of the quarterly value added and GDP estimates are presented in tables 1 to 7, while the results of the annual value added and GDP estimates are presented in tables 8 to 15. The annual estimates contain more detail than the quarterly estimates regarding the detail of industries.

Tables 1 to 2

Table 1 and 2 show values added by industry at constant 1995 basic prices, in Rand million and as percentage changes from the same quarter in the previous year. Table 2 also includes the percentage increase in the first three quarters in 2000 added together compared to the corresponding quarters in 1999.

Tables 3 to 4

Table 3 and 4 contain seasonally adjusted and annualised values added at constant 1995 basic prices by industry, in Rand million and as annualised percentage changes from the previous quarter. Seasonal adjustment is a method for removing the estimated effects of normal seasonal variation from the quarterly estimates. Although seasonality is an integral part of the quarterly data it may represent an impediment to effective analysis of the business cycle. However, irregular fluctuations because of events such as strikes can still make it difficult to interpret seasonally adjusted data. The annualised values added are equal to the seasonally quarterly data multiplied by four, while the annualised growth rates are derived by raising the change in a given quarter from the previous quarter to the power of four. The intent of annualisation is to indicate what the real growth would be if the present growth rate were to be sustained for a year.

Tables 5 to 7

Tables 5 to 7 present quarterly estimates at current prices of values added by industry and GDP (table 5) and of compensation of employees (table 6) and gross operating surplus and net other taxes on production (table 7) by industry. Seasonally adjusted values added at current prices are available on request.

Tables 8 to 9

Tables 8 and 9 show values added at current basic prices for detailed industries in Rand million and as percentages of the total value added of all industries. The latter is the preferred measurement of the relative contributions by the different industries to GDP. The measurement of the contribution to GDP entails the contribution of productive activities.

**Tables 10 to 11** 

Tables 10 and 11 present values added at constant 1995 basic prices for detailed industries, in Rand million and as annual percentage changes. The stronger annual real growth of the tertiary industries compared to the primary and secondary industries is illustrated in figure 2.

Figure 2 - Annual real growth in the primary, secondary and tertiary industries - (1993=100)

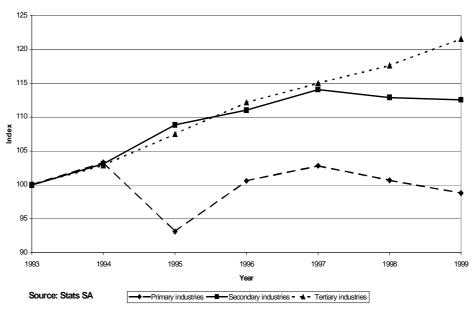


Table 12

Table 12 contains production accounts at current prices for aggregate industries. The total – the production account for the sum of all industries – does not add up to GDP at market prices. Taxes on products must be added and subsidies on products deducted as presented in table 8. The production account can serve to illustrate the derivation of values added by both the production and income method. It reflects the following identities:

#### Output at basic prices

- Intermediate consumption
- = Gross value added at basic prices
- Other taxes on production
- + Other subsidies
- Value added at factor cost
- Compensation of employees
- = Gross operating surplus/mixed income

Value added and operating surplus are derived gross of consumption of fixed capital. Consumption of fixed capital is a cost of production reflecting the wear and tear of capital assets used in the production process.

According to the production method, data on output and intermediate consumption are used to derive value added. In practice, estimates must in many cases rely on single indicators for output and the estimate of intermediate consumption must rely on assumptions that can be checked when, for instance, results from an intermittent economic survey or census become available.

The components of value added are other taxes on production, other subsidies (a negative item), compensation of employees and operating surplus/mixed income. The latter two makes up value added at factor cost. According to the income method, data on the components of value added are compiled and added up. By its nature, it is difficult to get reliable data on operating surplus/mixed income, which in important respects differ from the concept of profit in business accounting. To a certain extent, the income method is used as a complement to the production method, notably for mining and manufacturing, relying on the financial statistics of Stats SA.

The concept of mixed income indicates that working proprietors and self-employed persons do not, by definition, receive wages and salaries. The surplus of their activities – the residual after deducting all costs from their income – must provide for both a remuneration for their labour and a return on their capital. Hence, the term mixed income does not appear in table 12 for general government services and other producers. There are no self-employed persons in these activities.

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Table 13

Table 13 contains production accounts at constant 1995 prices for aggregate industries. In order to measure a transaction at constant prices, it must be possible, at least in principle, to factor it into a price and a volume component and keep the former component constant. This can be done either by using price indices for deflation of the current prices or volume indicators in order to extrapolate the base year value. Note that the volume component must reflect both changes in quantity and quality.

The variables that define value added in the production approach — output and intermediate consumption — can both be factored into a price and volume component. Value added at constant prices is defined as the difference between the two and cannot in itself be factored into price and volume components. Ideally, value added at constant prices should be derived by estimating output and intermediate consumption at constant prices separately, the double deflation method. Frequently, however, single indicators have to be used in practice. Value added at constant prices is then normally derived by using an output indicator. The components of value added — with the exception of compensation of employees — cannot be factored into price and volume components.

Table 14

Table 14 indicates an alternative way of presenting value added and GDP estimates at constant prices, i.e. as index numbers by industry with the base year (1995) equal to 100.

Table 15

Table 15 presents annual implied deflators for the main industries. The implied deflator is equal to the value added at current prices divided by the value added at constant prices. The GDP-deflator is sometimes used as an alternative measure of inflation. For comparison, table B includes the GDP-deflator, the consumer price index (CPI) and the production price index (PPI).

Table B - GDP-deflator, consumer and production price index - (1995 = 100)

|              | 1993 | 1994 | 1995  | 1996  | 1997  | 1998  | 1999  |
|--------------|------|------|-------|-------|-------|-------|-------|
| GDP-deflator | 82,8 | 90,7 | 100,0 | 108,3 | 116,9 | 124,8 | 132,6 |
| СРІ          | 84,5 | 92,0 | 100,0 | 107,4 | 116,6 | 124,7 | 131,1 |
| PPI          | 83,2 | 90,5 | 100,0 | 108,5 | 117,3 | 122,5 | 128,5 |

### METHODOLOGY USED TO COMPILE QUARTERLY ESTIMATES FOR THE AGRICULTURE INDUSTRY

#### Introduction

In the revised national accounts presented in June 1999, the estimates the value added by the agriculture industry were also affected. The recommendations of the 1993 SNA regarding the methodology to be used to estimate the value added by the agriculture industry were considered but not strictly implemented. Other countries e.g. Australia also deviate to some extent from the recommendations of the 1993 SNA regarding the methodology used to estimate the value added by the agriculture industry. The reasons are similar to those presented below for South Africa. In particular it is difficult to implement the 1993 SNA recommendations to estimate the value added by the agriculture industry quarterly, and there is no complete international consensus on the most appropriate methodology to follow. Furthermore, agricultural production fluctuates with occasional sharp increases or decreases due to weather conditions. This makes the seasonally adjusted estimates of the real value added by the agriculture industry very sensitive to the choice of methodology.

Due to constraints in June 1999, it was not possible to pay the necessary attention to the quarterly estimates of the value added by the agriculture industry or, in other words, to design the best possible methodology for the quarterly distribution of the annual estimates of this industry. Therefore, Stats SA decided to review the quarterly estimates of the value added by the agriculture industry in order to make them more consistent with the definitions adopted for compiling the annual estimates. Furthermore, it was also important to review the seasonal adjustments methodology. This review has resulted in revised quarterly distributions of the value added of agriculture industry for all years since 1993, while the seasonally adjusted real value added estimates were revised only from 1997 in order to create a seamless link to the latest revised annual estimates of total value added from 1998 onwards.

The following paragraphs discuss the definitions and concepts relevant for estimating the value added by the agriculture industry, the data sources and the methods devised in the review.

Concepts/definitions The contribution of the an industry to the gross domestic product (GDP) is measured by its value added defined and calculated through the production approach as -

Output

Less: Intermediate consumption.

Value added includes -

compensation of employees; taxes on production minus subsidies; and operating surplus/mixed income (derived as a balancing item).

Output - in the agriculture industry - is the value of crops, fruits, vegetables and livestock produced for the market or for own final consumption. It also includes construction work carried out by the agricultural establishment itself, e.g. fencing. The output estimates are compiled separately for detailed products classified according to five main headings -

field crops; horticulture (fruits and vegetables); animal products; changes in livestock inventories; own construction.

For many products of agriculture, the process of production extends over a number of quarters or even years for certain products. The growth of crops, fruits, vegetables and livestock, which is managed and controlled, constitutes a process of production. Therefore, the value of the output produced in each period should be measured as work-in-progress (changes in inventories), and the value of the harvested crops, fruits and vegetables, slaughtered animals, etc., should be distributed over the period of production as an increase in work-in-progress. The 1993 SNA prescribes that this should be done by distributing the value of harvested crops, etc., in proportion to the costs (intermediate consumption and labour costs) incurred in each period. For example, the period of production for maize starts with the planting during the fourth quarter and ends the following year with the harvest in the second and third quarter. The harvest of maize in 1999 should be recorded as work-in-progress in the fourth quarter of 1998 and the first, second and third quarters of 1999. Hence, the harvest of maize in 1999 would partly be recorded as output in 1998.

Intermediate consumption consists of the value of goods and services that are used as inputs in the production process of agriculture. It excludes the use of fixed assets. A general criterion is that goods with an economic life span of more than one year should be treated as fixed assets. Intermediate consumption should be recorded in the year and quarter when it is actually used, not when it is purchased. Compensation of employees is the total remuneration payable by an enterprise to permanent and casual employees for work done by them during the accounting period. It includes wages and salaries in cash, wages and salaries in kind, and employers' social contributions (if any). Remuneration in kind is of particular importance in the agriculture industry of South Africa. In contrast to employees, workers who are the sole or joint owners of the unincorporated enterprise where they work are classified as self-employed. Workers engaged in production for own final consumption and unpaid family workers are also classified in this category. The remuneration for the labour of these categories of workers should be included in mixed income, the balancing item calculated as a residual.

Taxes on production include motor vehicle licenses, assessment rates and the land tax levied in the Western Cape. A similar tax is considered for introduction countrywide.

*Subsidies* comprise support from government to producers. The agricultural subsidies that existed previously have largely been dismantled and the annual amounts are decreasing.

#### Practice in SA

Stats SA, in agreement with SARB, did not adopt the recommendations of the 1993 SNA regarding estimating the quarterly output of the agriculture industry. In the annual estimates, output is allocated to the year when the crops are harvested, the animals slaughtered, etc. This method has now also been implemented in the quarterly estimates. It has resulted in time series that are lumpier than the previous estimates. This lumpiness is the valid and necessary result of the output concept adopted in conjunction with the inherent limitations of breaking up an annual process into quarters. Any mathematical smoothing of this lumpiness would be artificial and will remove the estimates from the original data. Smoothing should instead be achieved by appropriate seasonal adjustment techniques.

The reasons for not adopting the recommendations of the 1993 SNA are the following:

- Lack of reliable and comprehensive data on the quarterly distribution of
  costs for different agricultural products. Although it is possible to
  estimate quarterly output for the various agricultural products
  separately, intermediate consumption and compensation of employees
  are estimated only for the total agriculture industry and not per
  agriculture product. An alternative actually applied by other
  countries would be to distribute the value of the harvests evenly over
  the period from planting to harvesting it (the "divide-by-four"
  method).
- Difficulties related to estimating the harvest in advance. Estimates of work-in-progress would require forecasts of harvests at an early stage. Thus, substantial revisions of preliminary annual estimates would be a likely consequence of the recommendation of the 1993 SNA.
- Unlike other producers, farmers do not usually record their own work-in-progress. This can be explained by uncertainty in what the final output will be; the farmers themselves react to this uncertainty by behaving as the work-in-progress were not output and thus not generating income. Hence, estimates of work-in-progress may not help in understanding economic developments.

#### Sources/methods

The estimates are done by Stats SA regarding the value added by the agriculture industry, based on estimates from the National Department of Agriculture (NDA) (cf. statistical sources and methods, page 44).

Quarterly data collected by the NDA consists mainly of the volume of agricultural products delivered to marketing organisations, payments made by these organisations to producers and prices received by producers. Thus, these quarterly data refer to gross income rather than value of output. However, the NDA estimates the quarterly distributions of the harvest of field crops and fruit. For vegetables and animal products the quarterly gross income data are taken as approximations of output.

The NDA provides separate estimates of annual output. These annual estimates sets a restriction to the quarterly estimates in that the latter must be adjusted to agree with the annual totals.

The NDA compiles quarterly data regarding intermediate consumption and wages and salaries.

Estimates at constant prices of the value added by the agriculture industry are made through using double deflation, i.e. output and intermediate consumption are each deflated by separate price indices. This is the case for both the annual and quarterly estimates although less detail are used in the latter.

Seasonal adjustment Seasonal adjustment intends to remove the effects of regular seasonal fluctuations - caused by weather, habits, legislation, etc. - from time series so that changes in trends and business cycles can be more clearly recognised. A seasonally adjusted time series still includes irregular variations. Stats SA applies a method known as X11. However, this method, tested with different options, produces erratic time series for the agriculture industry with occasional huge changes from one quarter to another. It can be argued that the irregular component is frequently too big for a meaningful seasonal adjustment of the value added by the agriculture industry. Furthermore, the production of many agricultural products is an annual process and, as stated above, there are inherent limitations in breaking this up into quarters. Instead of seasonal adjustment of a lumpy quarterly time series, Stats SA has chosen to use a numerical smoothing technique for constructing synthetic quarterly data based on past trends in annual data.

## Notes

| Forthcoming issues        | Issue  | Expected date of publication   |
|---------------------------|--|--|
|                           | Fourth quarter of 2000 First quarter of 2001 Second quarter of 2001 Annual estimates 1993-2000 and the third quarter of 2001 | <ul><li>27 February 2001</li><li>29 May 2001</li><li>28 August 2001</li><li>27 November 2001</li></ul> |
| Changes in the next issue | of 2000, which will be published on include the quarterly estimates as fr of annual and quarterly accounts as                | will in future be published on the last  |

Table 1 - Quarterly gross domestic product by industry at constant 1995 prices (R million)

| Year | Quar-<br>ter | Agriculture,<br>forestry and<br>fishing | Mining and quarrying | Manu-<br>facturing | Electricity<br>and water | Construction | Wholesale<br>and retail<br>trade;<br>hotels and<br>restaurants | Transport<br>and com-<br>munication |
|------|--------------|---|----------------------|--------------------|--------------------------|--------------|--|-------------------------------------|
| 1993 |              | 22 366                                  | 35 782               | 97 114             | 16 133                   | 14 804       | 66 121   | 38 507                              |
| 1994 |              | 24 125                                  | 35 946               | 99 706             | 17 069                   | 15 233       | 67 780   | 40 281                              |
| 1995 |              | 19 317                                  | 34 830               | 106 180            | 17 408                   | 15 774       | 71 768   | 44 538                              |
| 1996 |              | 23 949                                  | 34 542               | 107 648            | 18 403                   | 16 092       | 74 416   | 47 368                              |
| 1997 |              | 24 314                                  | 35 118               | 110 248            | 19 206                   | 16 571       | 74 749   | 50 885                              |
| 1998 |              | 22 538                                  | 34 845               | 108 447            | 19 316                   | 16 778       | 73 704   | 54 442                              |
| 1999 |              | 23 305                                  | 34 499               | 108 283            | 19 688                   | 16 136       | 74 675   | 58 558                              |
| 1993 | 1            | 4 210                                   | 8 790                | 23 427             | 3 929                    | 3 770        | 15 587   | 9 487                               |
|      | 2            | 7 681                                   | 8 921                | 23 380             | 4 041                    | 3 799        | 15 472   | 9 218                               |
|      | 3            | 6 172                                   | 9 048                | 25 051             | 4 158                    | 3 708        | 16 446   | 9 816                               |
|      | 4            | 4 303                                   | 9 023                | 25 256             | 4 006                    | 3 528        | 18 617   | 9 986                               |
| 1994 | 1            | 4 115                                   | 8 869                | 23 568             | 4 147                    | 3 802        | 15 800   | 9 788                               |
|      | 2            | 9 771                                   | 8 935                | 23 793             | 4 298                    | 3 878        | 15 925   | 9 603                               |
|      | 3            | 6 373                                   | 9 086                | 25 753             | 4 411                    | 3 819        | 16 800   | 10 339                              |
|      | 4            | 3 867                                   | 9 056                | 26 592             | 4 212                    | 3 735        | 19 254   | 10 550                              |
| 1995 | 1            | 3 703                                   | 8 706                | 25 348             | 4 313                    | 3 970        | 16 394   | 10 619                              |
|      | 2            | 5 381                                   | 8 646                | 25 833             | 4 397                    | 4 024        | 16 818   | 10 644                              |
|      | 3            | 5 771                                   | 8 779                | 27 661             | 4 469                    | 3 979        | 17 937   | 11 518                              |
|      | 4            | 4 462                                   | 8 699                | 27 338             | 4 229                    | 3 800        | 20 619   | 11 757                              |
| 1996 | 1            | 4 067                                   | 8 602                | 25 917             | 4 446                    | 4 047        | 17 330   | 11 448                              |
|      | 2            | 9 058                                   | 8 543                | 26 118             | 4 560                    | 4 095        | 17 600   | 11 339                              |
|      | 3            | 6 487                                   | 8 699                | 27 770             | 4 747                    | 4 060        | 18 454   | 12 186                              |
|      | 4            | 4 338                                   | 8 698                | 27 843             | 4 650                    | 3 890        | 21 031   | 12 395                              |
| 1997 | 1            | 4 519                                   | 8 566                | 26 633             | 4 741                    | 4 160        | 17 704   | 12 086                              |
|      | 2            | 8 935                                   | 8 736                | 26 757             | 4 863                    | 4 213        | 17 819   | 12 139                              |
|      | 3            | 6 476                                   | 8 922                | 28 477             | 4 859                    | 4 181        | 18 493   | 13 156                              |
|      | 4            | 4 383                                   | 8 893                | 28 382             | 4 743                    | 4 018        | 20 732   | 13 503                              |
| 1998 | 1            | 4 478                                   | 8 718                | 26 799             | 4 753                    | 4 259        | 17 604   | 13 029                              |
|      | 2            | 8 510                                   | 8 704                | 26 529             | 4 891                    | 4 303        | 17 711   | 13 025                              |
|      | 3            | 6 013                                   | 8 728                | 27 622             | 4 878                    | 4 230        | 18 217   | 13 998                              |
|      | 4            | 3 538                                   | 8 696                | 27 497             | 4 795                    | 3 985        | 20 172   | 14 391                              |
| 1999 | 1            | 4 611                                   | 8 540                | 26 092             | 4 708                    | 4 161        | 17 260   | 13 845                              |
|      | 2            | 9 242                                   | 8 600                | 26 062             | 4 892                    | 4 135        | 17 720   | 13 995                              |
|      | 3            | 6 178                                   | 8 685                | 27 868             | 5 016                    | 4 038        | 18 597   | 15 186                              |
|      | 4            | 3 273                                   | 8 674                | 28 260             | 5 072                    | 3 801        | 21 099   | 15 532                              |
| 2000 | 1            | 3 887                                   | 8 457                | 26 996             | 5 008                    | 4 015        | 18 101   | 14 886                              |
|      | 2            | 7 754                                   | 8 439                | 27 057             | 5 184                    | 4 062        | 18 641   | 14 932                              |
|      | 3            | 8 586                                   | 8 480                | 28 870             | 5 219                    | 4 038        | 19 578   | 16 074                              |

Table 1 - Quarterly gross domestic product by industry at constant 1995 prices(R million) (concluded)

| Year | Quar-<br>ter | Finance, real<br>estate and<br>business<br>services | Community,<br>social and<br>personal<br>services | General<br>government<br>services | Other producers | Total value<br>added at<br>basic prices | Taxes less<br>subsidies on<br>products | GDP at market prices | Total value<br>added at<br>basic prices<br>excluding<br>agriculture |
|------|--------------|---|--|-----------------------------------|-----------------|---|--|----------------------|---|
| 1993 |              | 76 580  | 11 341   | 79 366                            | 13 556          | 471 670                                 | 43 217                                 | 514 887              | 449 304   |
| 1994 |              | 79 378  | 12 420   | 80 157                            | 13 687          | 485 782                                 | 45 755                                 | 531 537              | 461 657   |
| 1995 |              | 82 162  | 13 690   | 80 831                            | 13 855          | 500 352                                 | 47 746                                 | 548 099              | 481 035   |
| 1996 |              | 87 668  | 14 210   | 82 422                            | 14 066          | 520 785                                 | 50 070                                 | 570 855              | 496 836   |
| 1997 |              | 91 454  | 13 971   | 82 860                            | 14 298          | 533 674                                 | 51 429                                 | 585 103              | 509 361   |
| 1998 |              | 96 601  | 13 902   | 82 458                            | 14 626          | 537 658                                 | 51 458                                 | 589 116              | 515 120   |
| 1999 |              | 102 721   | 14 186   | 81 879                            | 14 919          | 548 849                                 | 51 315                                 | 600 164              | 525 545   |
| 1993 | 1            | 18 652  | 2 740  | 19 785                            | 3 371           | 113 746                                 | 10 481                                 | 124 227              | 109 537   |
|      | 2            | 18 844  | 2 792  | 19 839                            | 3 380           | 117 367                                 | 10 737                                 | 128 105              | 109 686   |
|      | 3            | 19 358  | 2 912  | 19 863                            | 3 398           | 119 929                                 | 10 900                                 | 130 828              | 113 756   |
|      | 4            | 19 725  | 2 898  | 19 879                            | 3 407           | 120 627                                 | 11 099                                 | 131 727              | 116 324   |
| 1994 | 1            | 19 043  | 2 862  | 19 978                            | 3 409           | 115 382                                 | 11 073                                 | 126 455              | 111 267   |
|      | 2            | 19 493  | 3 040  | 20 015                            | 3 418           | 122 168                                 | 11 367                                 | 133 535              | 112 397   |
|      | 3            | 20 161  | 3 210  | 20 124                            | 3 426           | 123 502                                 | 11 542                                 | 135 044              | 117 130   |
|      | 4            | 20 680  | 3 308  | 20 040                            | 3 434           | 124 729                                 | 11 773                                 | 136 502              | 120 862   |
| 1995 | 1            | 20 012  | 3 238  | 20 146                            | 3 448           | 119 898                                 | 11 780                                 | 131 678              | 116 195   |
|      | 2            | 20 208  | 3 416  | 20 178                            | 3 458           | 123 003                                 | 11 890                                 | 134 893              | 117 622   |
|      | 3            | 20 804  | 3 526  | 20 241                            | 3 469           | 128 153                                 | 12 011                                 | 140 164              | 122 382   |
|      | 4            | 21 138  | 3 510  | 20 267                            | 3 480           | 129 299                                 | 12 066                                 | 141 364              | 124 837   |
| 1996 | 1            | 20 865  | 3 575  | 20 544                            | 3 497           | 124 337                                 | 12 427                                 | 136 764              | 120 270   |
|      | 2            | 21 477  | 3 532  | 20 564                            | 3 510           | 130 397                                 | 12 451                                 | 142 848              | 121 339   |
|      | 3            | 22 377  | 3 555  | 20 634                            | 3 523           | 132 491                                 | 12 529                                 | 145 020              | 126 004   |
|      | 4            | 22 949  | 3 549  | 20 680                            | 3 537           | 133 560                                 | 12 663                                 | 146 224              | 129 222   |
| 1997 | 1            | 22 368  | 3 452  | 20 678                            | 3 553           | 128 460                                 | 12 811                                 | 141 271              | 123 941   |
|      | 2            | 22 630  | 3 516  | 20 676                            | 3 567           | 133 852                                 | 12 854                                 | 146 706              | 124 917   |
|      | 3            | 23 121  | 3 563  | 20 744                            | 3 582           | 135 575                                 | 12 878                                 | 148 453              | 129 098   |
|      | 4            | 23 335  | 3 440  | 20 762                            | 3 596           | 135 788                                 | 12 886                                 | 148 674              | 131 405   |
| 1998 | 1            | 22 917  | 3 388  | 20 665                            | 3 626           | 130 236                                 | 12 853                                 | 143 088              | 125 758   |
|      | 2            | 23 727  | 3 471  | 20 600                            | 3 648           | 135 117                                 | 12 881                                 | 147 998              | 126 607   |
|      | 3            | 24 673  | 3 548  | 20 625                            | 3 667           | 136 198                                 | 12 857                                 | 149 056              | 130 186   |
|      | 4            | 25 285  | 3 496  | 20 568                            | 3 685           | 136 107                                 | 12 868                                 | 148 975              | 132 569   |
| 1999 | 1            | 24 660  | 3 456  | 20 553                            | 3 702           | 131 589                                 | 12 758                                 | 144 346              | 126 978   |
|      | 2            | 25 202  | 3 538  | 20 495                            | 3 720           | 137 602                                 | 12 796                                 | 150 398              | 128 360   |
|      | 3            | 26 022  | 3 620  | 20 468                            | 3 739           | 139 418                                 | 12 857                                 | 152 275              | 133 239   |
|      | 4            | 26 837  | 3 572  | 20 363                            | 3 757           | 140 241                                 | 12 905                                 | 153 146              | 136 968   |
| 2000 | 1            | 26 036  | 3 525  | 20 309                            | 3 782           | 135 002                                 | 12 978                                 | 147 980              | 131 115   |
|      | 2            | 26 519  | 3 614  | 20 234                            | 3 807           | 140 243                                 | 13 103                                 | 153 346              | 132 489   |
|      | 3            | 27 330  | 3 711  | 20 226                            | 3 834           | 145 946                                 | 13 173                                 | 159 120              | 137 361   |

Table 2 - Percentage change in the quarterly gross domestic product by industry at constant 1995 prices

| Year <sup>1/</sup> | Quar-<br>ter <sup>2/</sup> | Agriculture,<br>forestry and<br>fishing | Mining and quarrying | Manu-<br>facturing | Electricity<br>and water | Construction | Wholesale<br>and retail<br>trade;<br>hotels and<br>restaurants | Transport<br>and com-<br>munication |
|--------------------|----------------------------|---|----------------------|--------------------|--------------------------|--------------|--|-------------------------------------|
| 1994               |                            | 7,9                                     | 0,5                  | 2,7                | 5,8                      | 2,9          | 2,5  | 4,6                                 |
| 1995               |                            | -19,9                                   | -3,1                 | 6,5                | 2,0                      | 3,6          | 5,9  | 10,6                                |
| 1996               |                            | 24,0                                    | -0,8                 | 1,4                | 5,7                      | 2,0          | 3,7  | 6,4                                 |
| 1997               |                            | 1,5                                     | 1,7                  | 2,4                | 4,4                      | 3,0          | 0,4  | 7,4                                 |
| 1998               |                            | -7,3                                    | -0,8                 | -1,6               | 0,6                      | 1,2          | -1,4   | 7,0                                 |
| 1999               |                            | 3,4                                     | -1,0                 | -0,2               | 1,9                      | -3,8         | 1,3  | 7,6                                 |
| 1994               | 1                          | -2,3                                    | 0,9                  | 0,6                | 5,6                      | 0,8          | 1,4  | 3,2                                 |
|                    | 2                          | 27,2                                    | 0,2                  | 1,8                | 6,4                      | 2,1          | 2,9  | 4,2                                 |
|                    | 3                          | 3,2                                     | 0,4                  | 2,8                | 6,1                      | 3,0          | 2,2  | 5,3                                 |
|                    | 4                          | -10,1                                   | 0,4                  | 5,3                | 5,1                      | 5,9          | 3,4  | 5,6                                 |
| 1995               | 1                          | -10,0                                   | -1,8                 | 7,6                | 4,0                      | 4,4          | 3,8  | 8,5                                 |
|                    | 2                          | -44,9                                   | -3,2                 | 8,6                | 2,3                      | 3,8          | 5,6  | 10,8                                |
|                    | 3                          | -9,4                                    | -3,4                 | 7,4                | 1,3                      | 4,2          | 6,8  | 11,4                                |
|                    | 4                          | 15,4                                    | -3,9                 | 2,8                | 0,4                      | 1,8          | 7,1  | 11,4                                |
| 1996               | 1                          | 9,8                                     | -1,2                 | 2,2                | 3,1                      | 1,9          | 5,7  | 7,8                                 |
|                    | 2                          | 68,3                                    | -1,2                 | 1,1                | 3,7                      | 1,8          | 4,7  | 6,5                                 |
|                    | 3                          | 12,4                                    | -0,9                 | 0,4                | 6,2                      | 2,0          | 2,9  | 5,8                                 |
|                    | 4                          | -2,8                                    | 0,0                  | 1,8                | 10,0                     | 2,3          | 2,0  | 5,4                                 |
| 1997               | 1                          | 11,1                                    | -0,4                 | 2,8                | 6,6                      | 2,8          | 2,2  | 5,6                                 |
|                    | 2                          | -1,4                                    | 2,3                  | 2,4                | 6,6                      | 2,9          | 1,2  | 7,1                                 |
|                    | 3                          | -0,2                                    | 2,6                  | 2,5                | 2,4                      | 3,0          | 0,2  | 8,0                                 |
|                    | 4                          | 1,0                                     | 2,2                  | 1,9                | 2,0                      | 3,3          | -1,4   | 8,9                                 |
| 1998               | 1                          | -0,9                                    | 1,8                  | 0,6                | 0,2                      | 2,4          | -0,6   | 7,8                                 |
|                    | 2                          | -4,8                                    | -0,4                 | -0,9               | 0,6                      | 2,1          | -0,6   | 7,3                                 |
|                    | 3                          | -7,2                                    | -2,2                 | -3,0               | 0,4                      | 1,2          | -1,5   | 6,4                                 |
|                    | 4                          | -19,3                                   | -2,2                 | -3,1               | 1,1                      | -0,8         | -2,7   | 6,6                                 |
| 1999               | 1                          | 3,0                                     | -2,0                 | -2,6               | -0,9                     | -2,3         | -2,0   | 6,3                                 |
|                    | 2                          | 8,6                                     | -1,2                 | -1,8               | 0,0                      | -3,9         | 0,0  | 7,4                                 |
|                    | 3                          | 2,8                                     | -0,5                 | 0,9                | 2,8                      | -4,5         | 2,1  | 8,5                                 |
|                    | 4                          | -7,5                                    | -0,3                 | 2,8                | 5,8                      | -4,6         | 4,6  | 7,9                                 |
| 2000               | 1                          | -15,7                                   | -1,0                 | 3,5                | 6,4                      | -3,5         | 4,9  | 7,5                                 |
|                    | 2                          | -16,1                                   | -1,9                 | 3,8                | 6,0                      | -1,8         | 5,2  | 6,7                                 |
|                    | 3                          | 39,0                                    | -2,4                 | 3,6                | 4,1                      | 0,0          | 5,3  | 5,8                                 |
|                    | 1-3 <sup>3/</sup>          | 1,0                                     | -1,7                 | 3,6                | 5,4                      | -1,8         | 5,1  | 6,7                                 |

<sup>1/</sup> The percentage change is the growth rate from the previous year.

 $<sup>2\!\!/</sup>$  The percentage change is the growth rate for a given quarter compared with the same quarter in the previous year.

<sup>3/</sup> The percengate change is the growth rate for the first nine months of the year compared with the first nine months of the previous year.

Table 2 - Percentage change in the quarterly gross domestic product by industry at constant 1995 prices (concluded)

| Year <sup>1/</sup> | Quar-<br>ter <sup>2/</sup> | Finance, real<br>estate and<br>business<br>services | Community,<br>social and<br>personal<br>services | General<br>government<br>services | Other producers | Total value<br>added at<br>basic prices | Taxes less<br>subsidies on<br>products | GDP at<br>market prices | Total value<br>added at<br>basic prices<br>excluding<br>agriculture |
|--------------------|----------------------------|---|--|-----------------------------------|-----------------|---|--|-------------------------|---|
| 1994               |                            | 3,7   | 9,5  | 1,0                               | 1,0             | 3,0                                     | 5,9                                    | 3,2                     | 2,7   |
| 1995               |                            | 3,5   | 10,2   | 0,8                               | 1,2             | 3,0                                     | 4,4                                    | 3,1                     | 4,2   |
| 1996               |                            | 6,7   | 3,8  | 2,0                               | 1,5             | 4,1                                     | 4,9                                    | 4,2                     | 3,3   |
| 1997               |                            | 4,3   | -1,7   | 0,5                               | 1,6             | 2,5                                     | 2,7                                    | 2,5                     | 2,5   |
| 1998               |                            | 5,6   | -0,5   | -0,5                              | 2,3             | 0,7                                     | 0,1                                    | 0,7                     | 1,1   |
| 1999               |                            | 6,3   | 2,0  | -0,7                              | 2,0             | 2,1                                     | -0,3                                   | 1,9                     | 2,0   |
| 1994               | 1                          | 2,1   | 4,5  | 1,0                               | 1,1             | 1,4                                     | 5,7                                    | 1,8                     | 1,6   |
|                    | 2                          | 3,4   | 8,9  | 0,9                               | 1,1             | 4,1                                     | 5,9                                    | 4,2                     | 2,5   |
|                    | 3                          | 4,2   | 10,2   | 1,3                               | 0,8             | 3,0                                     | 5,9                                    | 3,2                     | 3,0   |
|                    | 4                          | 4,8   | 14,2   | 0,8                               | 0,8             | 3,4                                     | 6,1                                    | 3,6                     | 3,9   |
| 1995               | 1                          | 5,1   | 13,2   | 0,8                               | 1,1             | 3,9                                     | 6,4                                    | 4,1                     | 4,4   |
|                    | 2                          | 3,7   | 12,4   | 0,8                               | 1,2             | 0,7                                     | 4,6                                    | 1,0                     | 4,6   |
|                    | 3                          | 3,2   | 9,8  | 0,6                               | 1,3             | 3,8                                     | 4,1                                    | 3,8                     | 4,5   |
|                    | 4                          | 2,2   | 6,1  | 1,1                               | 1,3             | 3,7                                     | 2,5                                    | 3,6                     | 3,3   |
| 1996               | 1                          | 4,3   | 10,4   | 2,0                               | 1,4             | 3,7                                     | 5,5                                    | 3,9                     | 3,5   |
|                    | 2                          | 6,3   | 3,4  | 1,9                               | 1,5             | 6,0                                     | 4,7                                    | 5,9                     | 3,2   |
|                    | 3                          | 7,6   | 0,8  | 1,9                               | 1,6             | 3,4                                     | 4,3                                    | 3,5                     | 3,0   |
|                    | 4                          | 8,6   | 1,1  | 2,0                               | 1,6             | 3,3                                     | 5,0                                    | 3,4                     | 3,5   |
| 1997               | 1                          | 7,2   | -3,4   | 0,7                               | 1,6             | 3,3                                     | 3,1                                    | 3,3                     | 3,1   |
|                    | 2                          | 5,4   | -0,4   | 0,5                               | 1,6             | 2,6                                     | 3,2                                    | 2,7                     | 2,9   |
|                    | 3                          | 3,3   | 0,2  | 0,5                               | 1,7             | 2,3                                     | 2,8                                    | 2,4                     | 2,5   |
|                    | 4                          | 1,7   | -3,1   | 0,4                               | 1,7             | 1,7                                     | 1,8                                    | 1,7                     | 1,7   |
| 1998               | 1                          | 2,5   | -1,9   | -0,1                              | 2,1             | 1,4                                     | 0,3                                    | 1,3                     | 1,5   |
|                    | 2                          | 4,8   | -1,3   | -0,4                              | 2,3             | 0,9                                     | 0,2                                    | 0,9                     | 1,4   |
|                    | 3                          | 6,7   | -0,4   | -0,6                              | 2,4             | 0,5                                     | -0,2                                   | 0,4                     | 0,8   |
|                    | 4                          | 8,4   | 1,6  | -0,9                              | 2,5             | 0,2                                     | -0,1                                   | 0,2                     | 0,9   |
| 1999               | 1                          | 7,6   | 2,0  | -0,5                              | 2,1             | 1,0                                     | -0,7                                   | 0,9                     | 1,0   |
|                    | 2                          | 6,2   | 2,0  | -0,5                              | 2,0             | 1,8                                     | -0,7                                   | 1,6                     | 1,4   |
|                    | 3                          | 5,5   | 2,0  | -0,8                              | 2,0             | 2,4                                     | 0,0                                    | 2,2                     | 2,3   |
|                    | 4                          | 6,1   | 2,2  | -1,0                              | 2,0             | 3,0                                     | 0,3                                    | 2,8                     | 3,3   |
| 2000               | 1                          | 5,6   | 2,0  | -1,2                              | 2,1             | 2,6                                     | 1,7                                    | 2,5                     | 3,3   |
|                    | 2                          | 5,2   | 2,1  | -1,3                              | 2,3             | 1,9                                     | 2,4                                    | 2,0                     | 3,2   |
|                    | 3                          | 5,0   | 2,5  | -1,2                              | 2,5             | 4,7                                     | 2,5                                    | 4,5                     | 3,1   |
|                    | 1-3 <sup>3/</sup>          | 5,3   | 2,2  | -1,2                              | 2,3             | 3,1                                     | 2,2                                    | 3,0                     | 3,2   |

<sup>1/</sup> The percentage change is the growth rate from the previous year.

<sup>2/</sup> The percentage change is the growth rate for a given quarter compared with the same quarter in the previous year.

<sup>3/</sup> The percengate change is the growth rate for the first nine months of the year compared with the first nine months of the previous year.

Table 3 - Seasonally adjusted and annualised quarterly gross domestic product by industry at constant 1995 prices (R million)

| Year | Quar-<br>ter | Agriculture,<br>forestry and<br>fishing | Mining and quarrying | Manu-<br>facturing | Electricity and water | Construction | Wholesale<br>and retail<br>trade;<br>hotels and<br>restaurants | Transport<br>and com-<br>munication |
|------|--------------|---|----------------------|--------------------|-----------------------|--------------|--|-------------------------------------|
| 1993 |              | 22 366                                  | 35 782               | 97 114             | 16 133                | 14 804       | 66 121   | 38 507                              |
| 1994 |              | 24 125                                  | 35 946               | 99 706             | 17 069                | 15 233       | 67 780   | 40 281                              |
| 1995 |              | 19 317                                  | 34 830               | 106 180            | 17 408                | 15 774       | 71 768   | 44 538                              |
| 1996 |              | 23 949                                  | 34 542               | 107 648            | 18 403                | 16 092       | 74 416   | 47 368                              |
| 1997 |              | 24 314                                  | 35 118               | 110 248            | 19 206                | 16 571       | 74 749   | 50 885                              |
| 1998 |              | 22 538                                  | 34 845               | 108 447            | 19 316                | 16 778       | 73 704   | 54 442                              |
| 1999 |              | 23 305                                  | 34 499               | 108 283            | 19 688                | 16 136       | 74 675   | 58 558                              |
| 1993 | 1            | 15 964                                  | 35 572               | 96 534             | 15 751                | 15 044       | 65 824   | 38 150                              |
|      | 2            | 20 564                                  | 35 708               | 96 506             | 16 002                | 14 869       | 65 860   | 38 314                              |
|      | 3            | 25 440                                  | 35 800               | 97 654             | 16 274                | 14 681       | 66 221   | 38 538                              |
|      | 4            | 27 496                                  | 36 048               | 97 762             | 16 505                | 14 622       | 66 579   | 39 026                              |
| 1994 | 1            | 23 432                                  | 35 928               | 97 674             | 16 732                | 15 008       | 66 916   | 39 467                              |
|      | 2            | 23 532                                  | 35 808               | 98 314             | 17 072                | 15 115       | 67 666   | 40 039                              |
|      | 3            | 23 980                                  | 35 976               | 100 102            | 17 208                | 15 292       | 67 846   | 40 495                              |
|      | 4            | 25 556                                  | 36 072               | 102 734            | 17 264                | 15 517       | 68 692   | 41 123                              |
| 1995 | 1            | 22 836                                  | 35 184               | 104 734            | 17 425                | 15 689       | 69 748   | 42 596                              |
|      | 2            | 19 324                                  | 34 736               | 106 694            | 17 569                | 15 705       | 71 087   | 44 244                              |
|      | 3            | 17 552                                  | 34 716               | 107 114            | 17 369                | 15 819       | 72 334   | 45 336                              |
|      | 4            | 17 556                                  | 34 684               | 106 178            | 17 269                | 15 883       | 73 903   | 45 976                              |
| 1996 | 1            | 20 732                                  | 34 673               | 106 694            | 17 741                | 15 910       | 73 653   | 46 337                              |
|      | 2            | 24 048                                  | 34 593               | 107 770            | 18 038                | 16 076       | 74 595   | 46 865                              |
|      | 3            | 25 400                                  | 34 445               | 107 914            | 18 661                | 16 171       | 74 552   | 47 785                              |
|      | 4            | 25 616                                  | 34 461               | 108 214            | 19 172                | 16 211       | 74 864   | 48 485                              |
| 1997 | 1            | 24 357                                  | 34 543               | 109 558            | 19 196                | 16 372       | 74 733   | 49 198                              |
|      | 2            | 24 623                                  | 35 030               | 110 574            | 19 247                | 16 544       | 74 980   | 50 288                              |
|      | 3            | 24 447                                  | 35 416               | 110 444            | 19 143                | 16 646       | 74 743   | 51 435                              |
|      | 4            | 23 828                                  | 35 482               | 110 415            | 19 238                | 16 722       | 74 541   | 52 619                              |
| 1998 | 1            | 22 991                                  | 35 273               | 110 094            | 19 303                | 16 804       | 74 703   | 53 205                              |
|      | 2            | 22 338                                  | 34 968               | 109 148            | 19 366                | 16 858       | 74 215   | 54 024                              |
|      | 3            | 22 212                                  | 34 608               | 107 421            | 19 264                | 16 797       | 73 479   | 54 737                              |
|      | 4            | 22 612                                  | 34 535               | 107 126            | 19 331                | 16 650       | 72 419   | 55 803                              |
| 1999 | 1            | 22 974                                  | 34 542               | 107 140            | 19 162                | 16 429       | 73 330   | 56 642                              |
|      | 2            | 23 123                                  | 34 539               | 107 321            | 19 369                | 16 204       | 74 275   | 58 040                              |
|      | 3            | 23 379                                  | 34 465               | 108 537            | 19 823                | 16 026       | 75 142   | 59 359                              |
|      | 4            | 23 742                                  | 34 450               | 110 131            | 20 398                | 15 884       | 75 954   | 60 187                              |
| 2000 | 1            | 23 213                                  | 34 203               | 110 853            | 20 406                | 15 857       | 76 989   | 60 959                              |
|      | 2            | 23 639                                  | 33 889               | 111 461            | 20 529                | 15 918       | 78 111   | 61 925                              |
|      | 3            | 24 949                                  | 33 664               | 112 478            | 20 621                | 16 017       | 79 123   | 62 806                              |

Table 3 - Seasonally adjusted and annualised quarterly gross domestic product by industry at constant 1995 prices (R million) (concluded)

| Year | Quar-<br>ter | Finance, real<br>estate and<br>business<br>services | Community,<br>social and<br>personal<br>services | General<br>government<br>services | Other producers | Total value<br>added at<br>basic prices | Taxes less<br>subsidies on<br>products | GDP at<br>market prices | Total value<br>added at<br>basic prices<br>excluding<br>agriculture |
|------|--------------|---|--|-----------------------------------|-----------------|---|--|-------------------------|---|
| 1993 |              | 76 580  | 11 341   | 79 366                            | 13 556          | 471 670                                 | 43 217                                 | 514 887                 | 449 304   |
| 1994 |              | 79 378  | 12 420   | 80 157                            | 13 687          | 485 782                                 | 45 755                                 | 531 537                 | 461 657   |
| 1995 |              | 82 162  | 13 690   | 80 831                            | 13 855          | 500 352                                 | 47 746                                 | 548 099                 | 481 035   |
| 1996 |              | 87 668  | 14 210   | 82 422                            | 14 066          | 520 785                                 | 50 070                                 | 570 855                 | 496 836   |
| 1997 |              | 91 454  | 13 971   | 82 860                            | 14 298          | 533 674                                 | 51 429                                 | 585 103                 | 509 361   |
| 1998 |              | 96 601  | 13 902   | 82 458                            | 14 626          | 537 658                                 | 51 458                                 | 589 116                 | 515 120   |
| 1999 |              | 102 721   | 14 186   | 81 879                            | 14 919          | 548 849                                 | 51 315                                 | 600 164                 | 525 545   |
| 1993 | 1            | 76 388  | 11 293   | 79 411                            | 13 528          | 463 459                                 | 42 621                                 | 506 080                 | 447 495   |
|      | 2            | 76 576  | 11 329   | 79 412                            | 13 544          | 468 684                                 | 42 947                                 | 511 631                 | 448 120   |
|      | 3            | 76 632  | 11 357   | 79 436                            | 13 564          | 475 597                                 | 43 398                                 | 518 995                 | 450 157   |
|      | 4            | 76 724  | 11 385   | 79 205                            | 13 588          | 478 940                                 | 43 900                                 | 522 840                 | 451 444   |
| 1994 | 1            | 77 689  | 11 745   | 79 596                            | 13 616          | 477 803                                 | 44 293                                 | 522 096                 | 454 371   |
|      | 2            | 78 970  | 12 190   | 79 935                            | 13 656          | 482 297                                 | 45 463                                 | 527 760                 | 458 765   |
|      | 3            | 79 982  | 12 634   | 80 302                            | 13 708          | 487 525                                 | 46 170                                 | 533 695                 | 463 545   |
|      | 4            | 80 871  | 13 111   | 80 795                            | 13 768          | 495 503                                 | 47 097                                 | 542 600                 | 469 947   |
| 1995 | 1            | 81 337  | 13 356   | 80 734                            | 13 804          | 497 443                                 | 47 121                                 | 544 564                 | 474 607   |
|      | 2            | 81 837  | 13 585   | 80 807                            | 13 840          | 499 428                                 | 47 554                                 | 546 982                 | 480 104   |
|      | 3            | 82 509  | 13 809   | 80 865                            | 13 876          | 501 299                                 | 48 044                                 | 549 343                 | 483 747   |
|      | 4            | 82 965  | 14 010   | 80 922                            | 13 900          | 503 246                                 | 48 265                                 | 551 511                 | 485 690   |
| 1996 | 1            | 84 644  | 14 117   | 81 623                            | 13 960          | 510 084                                 | 48 907                                 | 558 991                 | 489 352   |
|      | 2            | 86 609  | 14 177   | 82 241                            | 14 036          | 519 048                                 | 50 006                                 | 569 054                 | 495 000   |
|      | 3            | 88 685  | 14 245   | 82 736                            | 14 108          | 524 702                                 | 50 416                                 | 575 118                 | 499 302   |
|      | 4            | 90 738  | 14 301   | 83 088                            | 14 160          | 529 310                                 | 50 951                                 | 580 261                 | 503 694   |
| 1997 | 1            | 91 092  | 14 173   | 83 100                            | 14 201          | 530 523                                 | 51 236                                 | 581 759                 | 506 166   |
|      | 2            | 91 408  | 14 057   | 82 947                            | 14 267          | 533 966                                 | 51 420                                 | 585 386                 | 509 343   |
|      | 3            | 91 536  | 13 909   | 82 762                            | 14 332          | 534 811                                 | 51 511                                 | 586 322                 | 510 364   |
|      | 4            | 91 784  | 13 745   | 82 631                            | 14 390          | 535 395                                 | 51 549                                 | 586 944                 | 511 568   |
| 1998 | 1            | 93 436  | 13 820   | 82 659                            | 14 506          | 536 792                                 | 51 564                                 | 588 356                 | 513 802   |
|      | 2            | 95 870  | 13 873   | 82 570                            | 14 591          | 537 821                                 | 51 537                                 | 589 358                 | 515 483   |
|      | 3            | 97 783  | 13 933   | 82 361                            | 14 669          | 537 263                                 | 51 327                                 | 588 590                 | 515 051   |
|      | 4            | 99 319  | 13 984   | 82 242                            | 14 739          | 538 760                                 | 51 404                                 | 590 164                 | 516 148   |
| 1999 | 1            | 100 573   | 14 088   | 82 217                            | 14 808          | 541 905                                 | 51 182                                 | 593 087                 | 518 931   |
|      | 2            | 101 795   | 14 145   | 82 103                            | 14 881          | 545 794                                 | 51 133                                 | 596 927                 | 522 671   |
|      | 3            | 103 124   | 14 210   | 81 818                            | 14 955          | 550 837                                 | 51 367                                 | 602 204                 | 527 458   |
|      | 4            | 105 393   | 14 302   | 81 378                            | 15 030          | 556 848                                 | 51 582                                 | 608 430                 | 533 106   |
| 2000 | 1            | 106 191   | 14 368   | 81 276                            | 15 126          | 559 442                                 | 51 938                                 | 611 380                 | 536 229   |
|      | 2            | 107 095   | 14 447   | 81 099                            | 15 228          | 563 340                                 | 52 290                                 | 615 630                 | 539 701   |
|      | 3            | 108 311   | 14 563   | 80 856                            | 15 335          | 568 724                                 | 52 740                                 | 621 464                 | 543 775   |

Table 4 - Annualised percentage change in the seasonally adjusted quarterly gross domestic product by industry at constant 1995 prices

| Year <sup>1</sup> / | Quar-<br>ter <sup>2/</sup> | Agriculture,<br>forestry and<br>fishing | Mining and quarrying | Manu-<br>facturing | Electricity<br>and water | Construction | Wholesale<br>and retail<br>trade;<br>hotels and<br>restaurants | Transport<br>and com-<br>munication |
|---------------------|----------------------------|---|----------------------|--------------------|--------------------------|--------------|--|-------------------------------------|
| 1994                |                            | 7,9                                     | 0,5                  | 2,7                | 5,8                      | 2,9          | 2,5  | 4,6                                 |
| 1995                |                            | -19,9                                   | -3,1                 | 6,5                | 2,0                      | 3,6          | 5,9  | 10,6                                |
| 1996                |                            | 24,0                                    | -0,8                 | 1,4                | 5,7                      | 2,0          | 3,7  | 6,4                                 |
| 1997                |                            | 1,5                                     | 1,7                  | 2,4                | 4,4                      | 3,0          | 0,4  | 7,4                                 |
| 1998                |                            | -7,3                                    | -0,8                 | -1,6               | 0,6                      | 1,2          | -1,4   | 7,0                                 |
| 1999                |                            | 3,4                                     | -1,0                 | -0,2               | 1,9                      | -3,8         | 1,3  | 7,6                                 |
| 1993                | 2                          | 175,3                                   | 1,5                  | -0,1               | 6,5                      | -4,6         | 0,2  | 1,7                                 |
|                     | 3                          | 134,2                                   | 1,0                  | 4,8                | 7,0                      | -5,0         | 2,2  | 2,4                                 |
|                     | 4                          | 36,5                                    | 2,8                  | 0,4                | 5,8                      | -1,6         | 2,2  | 5,2                                 |
| 1994                | 1                          | -47,3                                   | -1,3                 | -0,4               | 5,6                      | 11,0         | 2,0  | 4,6                                 |
|                     | 2                          | 1,7                                     | -1,3                 | 2,6                | 8,4                      | 2,9          | 4,6  | 5,9                                 |
|                     | 3                          | 7,8                                     | 1,9                  | 7,5                | 3,2                      | 4,8          | 1,1  | 4,6                                 |
|                     | 4                          | 29,0                                    | 1,1                  | 10,9               | 1,3                      | 6,0          | 5,1  | 6,3                                 |
| 1995                | 1                          | -36,2                                   | -9,5                 | 8,0                | 3,8                      | 4,5          | 6,3  | 15,1                                |
|                     | 2                          | -48,7                                   | -5,0                 | 7,7                | 3,3                      | 0,4          | 7,9  | 16,4                                |
|                     | 3                          | -31,9                                   | -0,2                 | 1,6                | -4,5                     | 2,9          | 7,2  | 10,2                                |
|                     | 4                          | 0,1                                     | -0,4                 | -3,4               | -2,3                     | 1,6          | 9,0  | 5,8                                 |
| 1996                | 1                          | 94,5                                    | -0,1                 | 2,0                | 11,4                     | 0,7          | -1,3   | 3,2                                 |
|                     | 2                          | 81,0                                    | -0,9                 | 4,1                | 6,9                      | 4,2          | 5,2  | 4,6                                 |
|                     | 3                          | 24,5                                    | -1,7                 | 0,5                | 14,5                     | 2,4          | -0,2   | 8,1                                 |
|                     | 4                          | 3,4                                     | 0,2                  | 1,1                | 11,4                     | 1,0          | 1,7  | 6,0                                 |
| 1997                | 1                          | -18,3                                   | 1,0                  | 5,1                | 0,5                      | 4,0          | -0,7   | 6,0                                 |
|                     | 2                          | 4,5                                     | 5,8                  | 3,8                | 1,1                      | 4,3          | 1,3  | 9,2                                 |
|                     | 3                          | -2,8                                    | 4,5                  | -0,5               | -2,1                     | 2,5          | -1,3   | 9,4                                 |
|                     | 4                          | -9,8                                    | 0,8                  | -0,1               | 2,0                      | 1,9          | -1,1   | 9,5                                 |
| 1998                | 1                          | -13,3                                   | -2,3                 | -1,2               | 1,4                      | 2,0          | 0,9  | 4,5                                 |
|                     | 2                          | -10,9                                   | -3,4                 | -3,4               | 1,3                      | 1,3          | -2,6   | 6,3                                 |
|                     | 3                          | -2,2                                    | -4,1                 | -6,2               | -2,1                     | -1,4         | -3,9   | 5,4                                 |
|                     | 4                          | 7,4                                     | -0,8                 | -1,1               | 1,4                      | -3,4         | -5,6   | 8,0                                 |
| 1999                | 1                          | 6,6                                     | 0,1                  | 0,1                | -3,5                     | -5,2         | 5,1  | 6,2                                 |
|                     | 2                          | 2,6                                     | 0,0                  | 0,7                | 4,4                      | -5,4         | 5,3  | 10,2                                |
|                     | 3                          | 4,5                                     | -0,9                 | 4,6                | 9,7                      | -4,3         | 4,8  | 9,4                                 |
|                     | 4                          | 6,4                                     | -0,2                 | 6,0                | 12,1                     | -3,5         | 4,4  | 5,7                                 |
| 2000                | 1                          | -8,6                                    | -2,8                 | 2,7                | 0,2                      | -0,7         | 5,6  | 5,2                                 |
|                     | 2                          | 7,5                                     | -3,6                 | 2,2                | 2,4                      | 1,5          | 6,0  | 6,5                                 |
|                     | 3                          | 24,1                                    | -2,6                 | 3,7                | 1,8                      | 2,5          | 5,3  | 5,8                                 |

<sup>1/</sup> The percentage change is the growth rate from the previous year.

<sup>2/</sup> The annualised percentage change is the growth rate for a given quarter from the previous quarter and compounded to an annual rate.

Table 4 - Annualised percentage change in the seasonally adjusted quarterly gross domestic product by industry at constant 1995 prices (concluded)

| Year_ <sup>1</sup> / | Quar-<br>ter <sup>2/</sup> | Finance, real<br>estate and<br>business<br>services | Community,<br>social and<br>personal<br>services | General<br>government<br>services | Other producers | Total value<br>added at<br>basic prices | Taxes less<br>subsidies on<br>products | GDP at market prices | Total value<br>added at<br>basic prices<br>excluding<br>agriculture |
|----------------------|----------------------------|---|--|-----------------------------------|-----------------|---|--|----------------------|---|
| 1994                 |                            | 3,7   | 9,5  | 1,0                               | 1,0             | 3,0                                     | 5,9                                    | 3,2                  | 2,7   |
| 1995                 |                            | 3,5   | 10,2   | 0,8                               | 1,2             | 3,0                                     | 4,4                                    | 3,1                  | 4,2   |
| 1996                 |                            | 6,7   | 3,8  | 2,0                               | 1,5             | 4,1                                     | 4,9                                    | 4,2                  | 3,3   |
| 1997                 |                            | 4,3   | -1,7   | 0,5                               | 1,6             | 2,5                                     | 2,7                                    | 2,5                  | 2,5   |
| 1998                 |                            | 5,6   | -0,5   | -0,5                              | 2,3             | 0,7                                     | 0,1                                    | 0,7                  | 1,1   |
| 1999                 |                            | 6,3   | 2,0  | -0,7                              | 2,0             | 2,1                                     | -0,3                                   | 1,9                  | 2,0   |
| 1993                 | 2                          | 1,0   | 1,3  | 0,0                               | 0,5             | 4,6                                     | 3,1                                    | 4,5                  | 0,6   |
|                      | 3                          | 0,3   | 1,0  | 0,1                               | 0,6             | 6,0                                     | 4,3                                    | 5,9                  | 1,8   |
|                      | 4                          | 0,5   | 1,0  | -1,2                              | 0,7             | 2,8                                     | 4,7                                    | 3,0                  | 1,1   |
| 1994                 | 1                          | 5,1   | 13,3   | 2,0                               | 0,8             | -0,9                                    | 3,6                                    | -0,6                 | 2,6   |
|                      | 2                          | 6,8   | 16,0   | 1,7                               | 1,2             | 3,8                                     | 11,0                                   | 4,4                  | 3,9   |
|                      | 3                          | 5,2   | 15,4   | 1,8                               | 1,5             | 4,4                                     | 6,4                                    | 4,6                  | 4,2   |
|                      | 4                          | 4,5   | 16,0   | 2,5                               | 1,8             | 6,7                                     | 8,3                                    | 6,8                  | 5,6   |
| 1995                 | 1                          | 2,3   | 7,7  | -0,3                              | 1,1             | 1,6                                     | 0,2                                    | 1,5                  | 4,0   |
|                      | 2                          | 2,5   | 7,0  | 0,4                               | 1,0             | 1,6                                     | 3,7                                    | 1,8                  | 4,7   |
|                      | 3                          | 3,3   | 6,8  | 0,3                               | 1,0             | 1,5                                     | 4,2                                    | 1,7                  | 3,1   |
|                      | 4                          | 2,2   | 6,0  | 0,3                               | 0,7             | 1,6                                     | 1,9                                    | 1,6                  | 1,6   |
| 1996                 | 1                          | 8,3   | 3,1  | 3,5                               | 1,7             | 5,5                                     | 5,4                                    | 5,5                  | 3,1   |
|                      | 2                          | 9,6   | 1,7  | 3,1                               | 2,2             | 7,2                                     | 9,3                                    | 7,4                  | 4,7   |
|                      | 3                          | 9,9   | 1,9  | 2,4                               | 2,1             | 4,4                                     | 3,3                                    | 4,3                  | 3,5   |
|                      | 4                          | 9,6   | 1,6  | 1,7                               | 1,5             | 3,6                                     | 4,3                                    | 3,6                  | 3,6   |
| 1997                 | 1                          | 1,6   | -3,5   | 0,1                               | 1,2             | 0,9                                     | 2,3                                    | 1,0                  | 2,0   |
|                      | 2                          | 1,4   | -3,2   | -0,7                              | 1,9             | 2,6                                     | 1,4                                    | 2,5                  | 2,5   |
|                      | 3                          | 0,6   | -4,1   | -0,9                              | 1,8             | 0,6                                     | 0,7                                    | 0,6                  | 0,8   |
|                      | 4                          | 1,1   | -4,6   | -0,6                              | 1,6             | 0,4                                     | 0,3                                    | 0,4                  | 0,9   |
| 1998                 | 1                          | 7,4   | 2,2  | 0,1                               | 3,3             | 1,0                                     | 0,1                                    | 1,0                  | 1,8   |
|                      | 2                          | 10,8  | 1,5  | -0,4                              | 2,4             | 0,8                                     | -0,2                                   | 0,7                  | 1,3   |
|                      | 3                          | 8,2   | 1,8  | -1,0                              | 2,1             | -0,4                                    | -1,6                                   | -0,5                 | -0,3  |
|                      | 4                          | 6,4   | 1,5  | -0,6                              | 1,9             | 1,1                                     | 0,6                                    | 1,1                  | 0,9   |
| 1999                 | 1                          | 5,1   | 3,0  | -0,1                              | 1,9             | 2,4                                     | -1,7                                   | 2,0                  | 2,2   |
|                      | 2                          | 4,9   | 1,6  | -0,6                              | 2,0             | 2,9                                     | -0,4                                   | 2,6                  | 2,9   |
|                      | 3                          | 5,3   | 1,9  | -1,4                              | 2,0             | 3,7                                     | 1,8                                    | 3,6                  | 3,7   |
|                      | 4                          | 9,1   | 2,6  | -2,1                              | 2,0             | 4,4                                     | 1,7                                    | 4,2                  | 4,4   |
| 2000                 | 1                          | 3,1   | 1,9  | -0,5                              | 2,6             | 1,9                                     | 2,8                                    | 2,0                  | 2,4   |
|                      | 2                          | 3,4   | 2,2  | -0,9                              | 2,7             | 2,8                                     | 2,7                                    | 2,8                  | 2,6   |
|                      | 3                          | 4,6   | 3,2  | -1,2                              | 2,8             | 3,9                                     | 3,5                                    | 3,8                  | 3,1   |

<sup>1/</sup> The percentage change is the growth rate from the previous year.

<sup>2/</sup> The annualised percentage change is the growth rate for a given quarter from the previous quarter and compounded to an annual rate.

Table 5 - Quarterly gross domestic product by industry at current prices (R million)

| Year | Quar-<br>ter | Agriculture,<br>forestry and<br>fishing | Mining and quarrying | Manu-<br>facturing | Electricity and water | Construction | Wholesale<br>and retail<br>trade; hotels<br>and<br>restaurants | Transport<br>and com-<br>munication |
|------|--------------|---|----------------------|--------------------|-----------------------|--------------|--|-------------------------------------|
| 1993 |              | 16 284                                  | 30 052               | 82 642             | 13 930                | 12 318       | 56 468   | 33 972                              |
| 1994 |              | 20 252                                  | 32 111               | 92 068             | 15 975                | 13 797       | 62 474   | 38 296                              |
| 1995 |              | 19 317                                  | 34 830               | 106 180            | 17 408                | 15 774       | 71 768   | 44 538                              |
| 1996 |              | 23 721                                  | 38 768               | 114 127            | 18 128                | 17 631       | 79 463   | 51 787                              |
| 1997 |              | 25 325                                  | 40 524               | 124 604            | 20 387                | 19 386       | 85 858   | 57 765                              |
| 1998 |              | 24 452                                  | 43 445               | 129 057            | 20 965                | 20 682       | 89 222   | 63 498                              |
| 1999 |              | 24 555                                  | 44 186               | 135 952            | 21 408                | 21 263       | 95 159   | 71 340                              |
| 1993 | 1            | 2 818                                   | 6 684                | 19 346             | 3 329                 | 3 015        | 13 279   | 8 221                               |
|      | 2            | 5 506                                   | 7 621                | 19 802             | 3 471                 | 3 133        | 13 108   | 8 091                               |
|      | 3            | 4 429                                   | 8 101                | 21 539             | 3 706                 | 2 998        | 13 977   | 8 711                               |
|      | 4            | 3 530                                   | 7 646                | 21 955             | 3 423                 | 3 172        | 16 104   | 8 950                               |
| 1994 | 1            | 3 381                                   | 7 572                | 21 418             | 3 586                 | 3 547        | 14 580   | 9 865                               |
|      | 2            | 7 083                                   | 8 372                | 21 893             | 3 941                 | 3 534        | 14 432   | 9 382                               |
|      | 3            | 5 440                                   | 8 466                | 24 125             | 4 358                 | 3 321        | 15 431   | 9 480                               |
|      | 4            | 4 349                                   | 7 701                | 24 632             | 4 090                 | 3 394        | 18 032   | 9 569                               |
| 1995 | 1            | 3 842                                   | 7 929                | 24 312             | 4 177                 | 3 929        | 16 512   | 9 987                               |
|      | 2            | 5 526                                   | 8 888                | 25 513             | 4 345                 | 4 046        | 16 711   | 10 672                              |
|      | 3            | 5 569                                   | 9 385                | 27 939             | 4 619                 | 3 867        | 17 804   | 11 624                              |
|      | 4            | 4 380                                   | 8 628                | 28 415             | 4 268                 | 3 931        | 20 741   | 12 256                              |
| 1996 | 1            | 4 070                                   | 8 868                | 26 831             | 4 314                 | 4 497        | 18 662   | 12 210                              |
|      | 2            | 8 701                                   | 10 061               | 27 628             | 4 528                 | 4 546        | 18 507   | 12 404                              |
|      | 3            | 6 256                                   | 10 339               | 29 558             | 4 851                 | 4 255        | 19 514   | 13 304                              |
|      | 4            | 4 693                                   | 9 500                | 30 110             | 4 435                 | 4 333        | 22 780   | 13 869                              |
| 1997 | 1            | 4 942                                   | 9 517                | 29 218             | 4 714                 | 4 798        | 20 014   | 13 505                              |
|      | 2            | 9 406                                   | 10 358               | 30 703             | 5 215                 | 4 897        | 20 414   | 14 004                              |
|      | 3            | 6 441                                   | 10 726               | 32 240             | 5 395                 | 4 881        | 21 277   | 15 014                              |
|      | 4            | 4 536                                   | 9 923                | 32 443             | 5 062                 | 4 810        | 24 154   | 15 242                              |
| 1998 | 1            | 5 288                                   | 9 487                | 30 936             | 4 946                 | 5 111        | 20 866   | 14 511                              |
|      | 2            | 9 014                                   | 11 143               | 31 571             | 5 447                 | 5 241        | 21 582   | 15 532                              |
|      | 3            | 6 404                                   | 11 830               | 33 217             | 5 455                 | 5 222        | 22 069   | 16 331                              |
|      | 4            | 3 747                                   | 10 985               | 33 333             | 5 116                 | 5 108        | 24 705   | 17 125                              |
| 1999 | 1            | 4 858                                   | 10 225               | 31 816             | 4 895                 | 5 357        | 21 783   | 16 240                              |
|      | 2            | 9 619                                   | 11 201               | 32 659             | 5 392                 | 5 367        | 22 447   | 17 360                              |
|      | 3            | 6 528                                   | 11 461               | 35 312             | 5 923                 | 5 329        | 23 574   | 18 446                              |
|      | 4            | 3 550                                   | 11 300               | 36 165             | 5 198                 | 5 210        | 27 355   | 19 295                              |
| 2000 | 1            | 4 371                                   | 11 878               | 34 602             | 5 287                 | 5 505        | 23 632   | 18 172                              |
|      | 2            | 8 485                                   | 13 430               | 35 608             | 5 818                 | 5 524        | 24 462   | 19 478                              |
|      | 3            | 9 003                                   | 13 016               | 38 827             | 6 210                 | 5 616        | 25 780   | 20 673                              |

Table 5 - Quarterly gross domestic product by industry at current prices (R million) (concluded)

| Year | Quar-<br>ter | Finance, real<br>estate and<br>business<br>services | Community,<br>social and<br>personal<br>services | General<br>government<br>services | Other producers | Total value<br>added at<br>basic prices | Taxes less<br>subsidies on<br>products | GDP at market prices |
|------|--------------|---|--|-----------------------------------|-----------------|---|--|----------------------|
| 1993 |              | 62 861  | 9 435  | 62 375                            | 10 505          | 390 841                                 | 35 291                                 | 426 132              |
| 1994 |              | 70 491  | 11 349   | 71 278                            | 12 054          | 440 144                                 | 41 974                                 | 482 119              |
| 1995 |              | 82 162  | 13 690   | 80 831                            | 13 855          | 500 353                                 | 47 746                                 | 548 099              |
| 1996 |              | 94 116  | 15 368   | 97 196                            | 15 671          | 565 976                                 | 52 438                                 | 618 415              |
| 1997 |              | 109 601   | 17 374   | 106 792                           | 17 803          | 625 420                                 | 58 326                                 | 683 746              |
| 1998 |              | 123 369   | 19 093   | 116 443                           | 20 154          | 670 381                                 | 64 700                                 | 735 082              |
| 1999 |              | 141 928   | 21 119   | 123 809                           | 22 527          | 723 247                                 | 72 329                                 | 795 576              |
| 1993 | 1            | 15 037  | 2 208  | 14 571                            | 2 504           | 91 010                                  | 6 805                                  | 97 815               |
|      | 2            | 15 422  | 2 316  | 15 520                            | 2 578           | 96 569                                  | 8 149                                  | 104 718              |
|      | 3            | 16 061  | 2 458  | 15 894                            | 2 671           | 100 546                                 | 10 001                                 | 110 547              |
|      | 4            | 16 342  | 2 453  | 16 390                            | 2 751           | 102 715                                 | 10 336                                 | 113 051              |
| 1994 | 1            | 17 027  | 2 667  | 16 963                            | 2 880           | 103 486                                 | 10 281                                 | 113 767              |
|      | 2            | 17 297  | 2 783  | 17 660                            | 2 967           | 109 343                                 | 9 339                                  | 118 682              |
|      | 3            | 17 919  | 2 952  | 18 058                            | 3 061           | 112 612                                 | 9 644                                  | 122 255              |
|      | 4            | 18 248  | 2 947  | 18 597                            | 3 145           | 114 703                                 | 12 711                                 | 127 414              |
| 1995 | 1            | 19 826  | 3 220  | 19 773                            | 3 299           | 116 805                                 | 12 013                                 | 128 818              |
|      | 2            | 20 264  | 3 371  | 20 105                            | 3 409           | 122 850                                 | 11 229                                 | 134 078              |
|      | 3            | 20 957  | 3 564  | 20 340                            | 3 532           | 129 199                                 | 12 211                                 | 141 410              |
|      | 4            | 21 115  | 3 536  | 20 614                            | 3 615           | 131 500                                 | 12 294                                 | 143 794              |
| 1996 | 1            | 22 506  | 3 607  | 22 431                            | 3 721           | 131 718                                 | 12 898                                 | 144 616              |
|      | 2            | 23 325  | 3 800  | 24 864                            | 3 854           | 142 217                                 | 12 308                                 | 154 525              |
|      | 3            | 24 070  | 3 994  | 24 921                            | 3 996           | 145 060                                 | 13 800                                 | 158 860              |
|      | 4            | 24 214  | 3 967  | 24 980                            | 4 100           | 146 981                                 | 13 432                                 | 160 414              |
| 1997 | 1            | 25 868  | 4 091  | 25 172                            | 4 263           | 146 102                                 | 14 520                                 | 160 623              |
|      | 2            | 27 224  | 4 296  | 26 411                            | 4 388           | 157 317                                 | 13 067                                 | 170 384              |
|      | 3            | 28 091  | 4 512  | 27 156                            | 4 522           | 160 255                                 | 14 969                                 | 175 224              |
|      | 4            | 28 418  | 4 474  | 28 053                            | 4 630           | 161 745                                 | 15 770                                 | 177 515              |
| 1998 | 1            | 29 925  | 4 553  | 28 575                            | 4 776           | 158 974                                 | 16 033                                 | 175 007              |
|      | 2            | 30 905  | 4 715  | 29 021                            | 4 911           | 169 083                                 | 15 107                                 | 184 190              |
|      | 3            | 31 752  | 4 962  | 29 258                            | 5 146           | 171 644                                 | 16 455                                 | 188 099              |
|      | 4            | 30 788  | 4 864  | 29 589                            | 5 321           | 170 680                                 | 17 104                                 | 187 785              |
| 1999 | 1            | 34 641  | 5 010  | 30 467                            | 5 452           | 170 745                                 | 18 166                                 | 188 911              |
|      | 2            | 34 826  | 5 156  | 30 855                            | 5 560           | 180 441                                 | 15 940                                 | 196 382              |
|      | 3            | 35 924  | 5 550  | 31 084                            | 5 685           | 184 814                                 | 18 531                                 | 203 346              |
|      | 4            | 36 538  | 5 403  | 31 403                            | 5 830           | 187 246                                 | 19 691                                 | 206 938              |
| 2000 | 1            | 38 526  | 5 548  | 31 901                            | 5 968           | 185 391                                 | 19 828                                 | 205 219              |
|      | 2            | 39 608  | 5 758  | 32 105                            | 6 165           | 196 440                                 | 17 876                                 | 214 316              |
|      | 3            | 41 310  | 6 193  | 32 695                            | 6 261           | 205 585                                 | 20 575                                 | 226 160              |

Table 6 - Quarterly compensation of employees (R million)

| 1993<br>1994<br>1995<br>1996<br>1997<br>1998<br>1999 | 1 | 5 069<br>5 680<br>6 406<br>6 908<br>7 419<br>7 911<br>8 387 | 15 827<br>16 516<br>18 452<br>19 969<br>22 061<br>22 622 | 46 111<br>50 761<br>56 484<br>59 965 | 3 906<br>4 317<br>4 943 | 9 577<br>9 954 | 29 174<br>31 373 | 17 811 |
|--|---|---|--|--------------------------------------|-------------------------|----------------|------------------|--------|
| 1995<br>1996<br>1997<br>1998                         | 1 | 6 406<br>6 908<br>7 419<br>7 911                            | 18 452<br>19 969<br>22 061                               | 56 484<br>59 965                     |                         | 9 954          | 31 373           |        |
| 1996<br>1997<br>1998                                 | 1 | 6 406<br>6 908<br>7 419<br>7 911                            | 18 452<br>19 969<br>22 061                               | 59 965                               |                         |                | 31313            | 19 364 |
| 1997<br>1998   | 1 | 7 419<br>7 911  | 22 061   |                                      |                         | 10 909         | 35 343           | 22 275 |
| 1998   | 1 | 7 911   |  | 00.500                               | 5 811                   | 11 414         | 38 417           | 25 338 |
|  | 1 |   | 22 622   | 63 532                               | 6 355                   | 11 995         | 42 132           | 27 479 |
| 1999   | 1 | 8 387   |  | 70 678                               | 6 910                   | 13 073         | 45 067           | 30 696 |
|  | 1 |   | 23 203   | 74 404                               | 7 741                   | 13 269         | 48 243           | 32 288 |
| 1993   | • | 1 232   | 3 927  | 11 000                               | 874                     | 2 291          | 6 707            | 4 160  |
|  | 2 | 1 312   | 3 889  | 10 666                               | 963                     | 2 344          | 6 979            | 4 381  |
|  | 3 | 1 307   | 4 017  | 11 345                               | 1 013                   | 2 340          | 7 096            | 4 508  |
|  | 4 | 1 217   | 3 994  | 13 100                               | 1 056                   | 2 602          | 8 393            | 4 762  |
|  | 1 | 1 377   | 3 983  | 11 844                               | 942                     | 2 423          | 7 199            | 4 534  |
|  | 2 | 1 476   | 3 984  | 11 626                               | 1 066                   | 2 426          | 7 424            | 4 761  |
|  | 3 | 1 469   | 4 212  | 12 683                               | 1 123                   | 2 414          | 7 737            | 4 918  |
|  | 4 | 1 358   | 4 337  | 14 608                               | 1 185                   | 2 691          | 9 013            | 5 152  |
| 1995   | 1 | 1 550   | 4 314  | 13 123                               | 1 086                   | 2 600          | 7 998            | 5 046  |
|  | 2 | 1 667   | 4 392  | 13 157                               | 1 222                   | 2 675          | 8 433            | 5 525  |
|  | 3 | 1 660   | 4 712  | 14 055                               | 1 285                   | 2 680          | 8 756            | 5 678  |
|  | 4 | 1 528   | 5 034  | 16 148                               | 1 350                   | 2 954          | 10 155           | 6 026  |
|  | 1 | 1 672   | 4 880  | 14 274                               | 1 280                   | 2 727          | 9 157            | 5 880  |
|  | 2 | 1 798   | 4 780  | 14 142                               | 1 428                   | 2 769          | 9 137            | 6 287  |
|  | 3 | 1 790   | 5 002  | 15 031                               | 1 507                   | 2 830          | 9 415            | 6 398  |
|  | 4 | 1 648   | 5 307  | 16 518                               | 1 596                   | 3 088          | 10 708           | 6 773  |
|  | 1 | 1 795   | 5 364  | 14 916                               | 1 409                   | 2 801          | 9 771            | 6 586  |
|  | 2 | 1 932   | 5 254  | 15 179                               | 1 574                   | 2 926          | 10 000           | 6 742  |
|  | 3 | 1 923   | 5 554  | 15 851                               | 1 640                   | 2 983          | 10 400           | 6 884  |
|  | 4 | 1 769   | 5 889  | 17 586                               | 1 732                   | 3 285          | 11 962           | 7 266  |
|  | 1 | 1 914   | 5 654  | 16 468                               | 1 524                   | 3 036          | 10 412           | 7 225  |
|  | 2 | 2 060   | 5 475  | 16 873                               | 1 701                   | 3 179          | 10 397           | 7 663  |
|  | 3 | 2 051   | 5 583  | 17 477                               | 1 781                   | 3 260          | 11 118           | 7 710  |
|  | 4 | 1 887   | 5 909  | 19 859                               | 1 905                   | 3 598          | 13 140           | 8 098  |
| 1999   | 1 | 2 082   | 5 663  | 17 583                               | 1 813                   | 3 209          | 11 052           | 7 632  |
|  | 2 | 2 220   | 5 650  | 17 967                               | 1 850                   | 3 232          | 11 781           | 8 012  |
|  | 3 | 2 138   | 5 763  | 18 330                               | 1 873                   | 3 251          | 11 949           | 8 144  |
|  | 4 | 1 946   | 6 126  | 20 524                               | 2 205                   | 3 577          | 13 461           | 8 501  |
| 2000   | 1 | 2 140   | 5 947  | 18 424                               | 1 975                   | 3 224          | 11 697           | 8 110  |
|  | 2 | 2 328   | 5 943  | 18 910                               | 2 017                   | 3 234          | 12 436           | 8 570  |
|  | 3 | 2 178   | 6 083  | 19 409                               | 2 094                   | 3 354          | 12 647           | 8 700  |

Table 6 - Quarterly compensation of employees (R million) (concluded)

| Year | Quar-<br>ter | Finance, real<br>estate and<br>business<br>services | Community,<br>social and<br>personal<br>services | General<br>government<br>services | Other producers | Total compensation of employees |
|------|--------------|---|--|-----------------------------------|-----------------|---------------------------------|
| 1993 |              | 21 035  | 4 087  | 55 255                            | 10 306          | 218 159                         |
| 1994 |              | 23 931  | 5 001  | 63 435                            | 11 833          | 242 166                         |
| 1995 |              | 28 136  | 6 100  | 72 021                            | 13 607          | 274 676                         |
| 1996 |              | 31 676  | 6 870  | 87 301                            | 15 395          | 309 065                         |
| 1997 |              | 36 689  | 7 772  | 95 845                            | 17 496          | 338 775                         |
| 1998 |              | 41 915  | 8 538  | 104 533                           | 19 819          | 371 762                         |
| 1999 |              | 48 580  | 9 469  | 110 830                           | 22 168          | 398 582                         |
| 1993 | 1            | 4 831   | 957  | 12 855                            | 2 456           | 51 291                          |
|      | 2            | 5 137   | 1 003  | 13 753                            | 2 530           | 52 956                          |
|      | 3            | 5 360   | 1 065  | 14 092                            | 2 621           | 54 763                          |
|      | 4            | 5 707   | 1 062  | 14 555                            | 2 699           | 59 148                          |
| 1994 | 1            | 5 466   | 1 175  | 15 085                            | 2 827           | 56 855                          |
|      | 2            | 5 873   | 1 226  | 15 726                            | 2 913           | 58 501                          |
|      | 3            | 6 085   | 1 301  | 16 056                            | 3 005           | 61 003                          |
|      | 4            | 6 508   | 1 299  | 16 568                            | 3 087           | 65 807                          |
| 1995 | 1            | 6 430   | 1 435  | 17 657                            | 3 240           | 64 480                          |
|      | 2            | 6 953   | 1 502  | 17 928                            | 3 348           | 66 802                          |
|      | 3            | 7 160   | 1 588  | 18 107                            | 3 469           | 69 150                          |
|      | 4            | 7 587   | 1 576  | 18 329                            | 3 550           | 74 238                          |
| 1996 | 1            | 7 207   | 1 613  | 20 073                            | 3 655           | 72 416                          |
|      | 2            | 7 843   | 1 699  | 22 415                            | 3 786           | 76 085                          |
|      | 3            | 8 075   | 1 785  | 22 410                            | 3 926           | 78 169                          |
|      | 4            | 8 551   | 1 773  | 22 403                            | 4 028           | 82 395                          |
| 1997 | 1            | 8 418   | 1 830  | 22 521                            | 4 190           | 79 601                          |
|      | 2            | 9 160   | 1 922  | 23 695                            | 4 312           | 82 696                          |
|      | 3            | 9 246   | 2 019  | 24 386                            | 4 444           | 85 330                          |
|      | 4            | 9 864   | 2 001  | 25 243                            | 4 551           | 91 147                          |
| 1998 | 1            | 9 813   | 2 036  | 25 706                            | 4 697           | 88 485                          |
|      | 2            | 10 445  | 2 108  | 26 096                            | 4 829           | 90 827                          |
|      | 3            | 10 729  | 2 219  | 26 220                            | 5 061           | 93 208                          |
|      | 4            | 10 928  | 2 175  | 26 511                            | 5 233           | 99 242                          |
| 1999 | 1            | 11 570  | 2 246  | 27 341                            | 5 365           | 95 558                          |
|      | 2            | 12 088  | 2 312  | 27 665                            | 5 472           | 98 248                          |
|      | 3            | 12 353  | 2 488  | 27 775                            | 5 594           | 99 659                          |
|      | 4            | 12 569  | 2 423  | 28 049                            | 5 737           | 105 118                         |
| 2000 | 1            | 12 745  | 2 503  | 28 460                            | 5 873           | 101 098                         |
|      | 2            | 13 340  | 2 601  | 28 578                            | 6 068           | 104 025                         |
|      | 3            | 13 577  | 2 803  | 29 067                            | 6 160           | 106 071                         |

Table 7 - Quarterly gross operating surplus and net other taxes on production (R million)

| Year | Quar-<br>ter | Agriculture,<br>forestry and<br>fishing | Mining and quarrying | Manu-<br>facturing | Electricity and water | Construction | Wholesale<br>and retail<br>trade;<br>hotels and<br>restaurants | Transport<br>and com-<br>munication |
|------|--------------|---|----------------------|--------------------|-----------------------|--------------|--|-------------------------------------|
| 1993 |              | 12 114                                  | 13 951               | 36 839             | 9 839                 | 2 610        | 25 882   | 15 895                              |
| 1994 |              | 15 179                                  | 15 249               | 41 213             | 11 468                | 3 704        | 29 544   | 18 677                              |
| 1995 |              | 13 467                                  | 15 963               | 49 416             | 12 269                | 4 719        | 34 716   | 22 054                              |
| 1996 |              | 17 284                                  | 18 350               | 54 140             | 12 113                | 6 060        | 39 154   | 26 421                              |
| 1997 |              | 18 360                                  | 17 957               | 60 873             | 13 816                | 7 219        | 41 645   | 30 222                              |
| 1998 |              | 16 884                                  | 20 111               | 58 064             | 13 839                | 7 421        | 41 883   | 32 536                              |
| 1999 |              | 16 455                                  | 20 983               | 61 216             | 13 445                | 7 799        | 44 492   | 38 685                              |
| 1993 | 1            | 1 741                                   | 2 695                | 8 418              | 2 411                 | 691          | 6 240  | 3 996                               |
|      | 2            | 4 498                                   | 3 663                | 9 210              | 2 462                 | 756          | 5 802  | 3 646                               |
|      | 3            | 3 367                                   | 4 010                | 10 274             | 2 645                 | 626          | 6 532  | 4 135                               |
|      | 4            | 2 508                                   | 3 583                | 8 937              | 2 322                 | 537          | 7 308  | 4 117                               |
| 1994 | 1            | 2 105                                   | 3 507                | 9 552              | 2 601                 | 1 089        | 7 018  | 5 266                               |
|      | 2            | 5 819                                   | 4 298                | 10 245             | 2 827                 | 1 072        | 6 648  | 4 559                               |
|      | 3            | 4 134                                   | 4 163                | 11 418             | 3 183                 | 874          | 7 309  | 4 500                               |
|      | 4            | 3 121                                   | 3 281                | 9 999              | 2 856                 | 669          | 8 570  | 4 353                               |
| 1995 | 1            | 2 402                                   | 3 520                | 11 125             | 3 044                 | 1 292        | 8 120  | 4 894                               |
|      | 2            | 4 018                                   | 4 390                | 12 289             | 3 074                 | 1 333        | 7 880  | 5 097                               |
|      | 3            | 4 069                                   | 4 561                | 13 810             | 3 282                 | 1 152        | 8 624  | 5 891                               |
|      | 4            | 2 978                                   | 3 492                | 12 192             | 2 870                 | 941          | 10 092   | 6 172                               |
| 1996 | 1            | 2 479                                   | 3 885                | 12 552             | 2 985                 | 1 731        | 9 061  | 6 324                               |
|      | 2            | 7 076                                   | 5 164                | 13 481             | 3 049                 | 1 736        | 8 929  | 6 110                               |
|      | 3            | 4 591                                   | 5 218                | 14 521             | 3 290                 | 1 387        | 9 635  | 6 899                               |
|      | 4            | 3 138                                   | 4 083                | 13 587             | 2 789                 | 1 206        | 11 529   | 7 088                               |
| 1997 | 1            | 3 235                                   | 4 035                | 14 256             | 3 255                 | 1 955        | 9 758  | 6 903                               |
|      | 2            | 7 644                                   | 4 975                | 15 474             | 3 587                 | 1 928        | 9 919  | 7 246                               |
|      | 3            | 4 633                                   | 5 038                | 16 337             | 3 698                 | 1 854        | 10 361   | 8 113                               |
|      | 4            | 2 848                                   | 3 910                | 14 806             | 3 276                 | 1 482        | 11 607   | 7 959                               |
| 1998 | 1            | 3 448                                   | 3 677                | 14 393             | 3 372                 | 2 028        | 9 922  | 7 225                               |
|      | 2            | 7 080                                   | 5 485                | 14 620             | 3 691                 | 2 015        | 10 636   | 7 804                               |
|      | 3            | 4 443                                   | 6 052                | 15 659             | 3 618                 | 1 915        | 10 389   | 8 553                               |
|      | 4            | 1 912                                   | 4 896                | 13 392             | 3 159                 | 1 463        | 10 936   | 8 955                               |
| 1999 | 1            | 2 834                                   | 4 562                | 14 155             | 3 031                 | 1 886        | 10 176   | 8 524                               |
|      | 2            | 7 508                                   | 5 551                | 14 612             | 3 485                 | 1 840        | 10 094   | 9 259                               |
|      | 3            | 4 465                                   | 5 698                | 16 896             | 3 988                 | 1 938        | 11 025   | 10 207                              |
|      | 4            | 1 648                                   | 5 174                | 15 553             | 2 940                 | 2 135        | 13 197   | 10 695                              |
| 2000 | 1            | 2 231                                   | 5 931                | 16 026             | 3 311                 | 2 150        | 11 935   | 10 062                              |
|      | 2            | 6 156                                   | 7 487                | 16 541             | 3 801                 | 2 423        | 12 027   | 10 908                              |
|      | 3            | 6 825                                   | 6 933                | 19 246             | 4 116                 | 2 377        | 13 133   | 11 974                              |

<sup>1/</sup> Net other taxes on production *equals* other taxes on production *minus* other subsidies on production.

Table 7 - Quarterly gross operating surplus and net other taxes on production (R million) (concluded)

| 1993         38 406         4 762         6 683         19           1994         42 601         5 720         7 383         22           1995         49 355         7 009         8 301         24           1996         57 060         7 932         9 323         27           1997         67 302         9 006         10 320         30           1998         75 335         9 991         11 202         33           86 587         11 026         12 218         35           1993         1         9 388         1 115         1 614         4           2         9 447         1 169         1 658         4           3         9 826         1 240         1 691         5           4         9 745         1 238         1 720         5 | 1 190 960<br>217 517<br>6 248 114<br>7 277 027<br>5 287 601<br>313 267<br>7 38 356<br>42 360<br>44 398<br>42 067<br>8 44 909 |
|--|--|
| 1994     42 601     5 720     7 383     22       1995     49 355     7 009     8 301     24       1996     57 060     7 932     9 323     27       1997     67 302     9 006     10 320     30       1998     75 335     9 991     11 202     33       86 587     11 026     12 218     35       1993     1     9 388     1 115     1 614     4       2     9 447     1 169     1 658     4       3     9 826     1 240     1 691     5  | 1 190 960<br>217 517<br>6 248 114<br>7 277 027<br>5 287 601<br>313 267<br>7 38 356<br>42 360<br>44 398<br>42 067<br>8 44 909 |
| 1995     49 355     7 009     8 301     24       1996     57 060     7 932     9 323     27       1997     67 302     9 006     10 320     30       1998     75 335     9 991     11 202     33       86 587     11 026     12 218     35       1993     1     9 388     1 115     1 614     4       2     9 447     1 169     1 658     4       3     9 826     1 240     1 691     5   | 217 517<br>248 114<br>277 027<br>287 601<br>313 267<br>38 356<br>42 360<br>44 398<br>42 067<br>44 909                        |
| 1996     57 060     7 932     9 323     27       1997     67 302     9 006     10 320     30       1998     75 335     9 991     11 202     33       86 587     11 026     12 218     35       1993     1     9 388     1 115     1 614     4       2     9 447     1 169     1 658     4       3     9 826     1 240     1 691     5  | 248 114<br>277 027<br>287 601<br>313 267<br>38 356<br>42 360<br>44 398<br>42 067<br>38 44 909                                |
| 1998     75 335     9 991     11 202     33       86 587     11 026     12 218     35       1993     1     9 388     1 115     1 614     4       2     9 447     1 169     1 658     4       3     9 826     1 240     1 691     5   | 287 601<br>313 267<br>38 356<br>42 360<br>44 398<br>42 067<br>3 44 909   |
| 1993     1     9 388     1 115     1 614     4       2     9 447     1 169     1 658     4       3     9 826     1 240     1 691     5   | 313 267<br>38 356<br>42 360<br>44 398<br>42 067<br>3 44 909  |
| 1993     1     9 388     1 115     1 614     4       2     9 447     1 169     1 658     4       3     9 826     1 240     1 691     5   | 313 267<br>38 356<br>42 360<br>44 398<br>42 067<br>3 44 909  |
| 2 9 447 1 169 1 658 4<br>3 9 826 1 240 1 691 5   | 42 360<br>44 398<br>42 067<br>44 909   |
| 3 9 826 1 240 1 691 5  | 44 398<br>42 067<br>3 44 909   |
|  | 42 067<br>44 909   |
| 4 9 745 1 238 1 720 5.   | 3 44 909   |
|  |  |
| 1994 1 10 605 1 344 1 768 5  |  |
| 2 10 453 1 403 1 820 5   | 49 199   |
| 3 10 828 1 488 1 885 5   | 49 837   |
| 4 10 715 1 485 1 909 5   | 47 016   |
| 1995 1 12 269 1 648 1 986 5  | 50 360   |
| 2 12 159 1 726 2 047 6   | 54 074   |
| 3 12 606 1 824 2 106 6   | 57 988   |
| 4 12 328 1 810 2 162 6   | 55 101   |
| 1996 1 14 013 1 862 2 226 6  | 57 184   |
| 2 14 148 1 961 2 303 6   | 64 026   |
| 3 14 619 2 061 2 364 7   | 64 656   |
| 4 14 279 2 047 2 430 7.  | 62 249   |
| 1997   1   16 126   2 121   2 505   7-   | 64 222   |
| 2 16 670 2 227 2 558 7   | 72 303   |
| 3 17 407 2 339 2 608 7   | 72 467   |
| 4 17 099 2 319 2 649 8   | 68 036   |
| 1998 1 18 628 2 382 2 704 79   | 67 859   |
| 2 18 927 2 467 2 758 8   | 75 564   |
| 3 19 448 2 596 2 829 8   | 75 586   |
| 4 18 333 2 545 2 911 8   | 68 591   |
| 1999 1 21 421 2 616 2 953 8  | 72 246   |
| 2 21 080 2 692 3 019 8   | 79 228   |
| 3 21 859 2 897 3 088 9   | 82 152   |
| 4 22 228 2 821 3 158 9   | 79 641   |
| 2000 1 25 782 3 044 3 442 9  | 84 010   |
| 2 26 268 3 157 3 527 9   |  |
| 3 27 734 3 390 3 628 10  |  |

<sup>1/</sup> Net other taxes on production *equals* other taxes on production *minus* other subsidies on production.

Table 8 - Annual gross domestic product by industry at current prices (R million)

| Industry   | 1993    | 1994    | 1995    | 1996    | 1997    | 1998    | 1999    |
|--|---------|---------|---------|---------|---------|---------|---------|
| Agriculture, forestry and fishing                  | 16 284  | 20 252  | 19 317  | 23 721  | 25 325  | 24 452  | 24 555  |
| Agriculture  | 13 579  | 17 216  | 15 863  | 19 922  | 21 551  | 20 500  | 20 113  |
| Forestry   | 2 280   | 2 628   | 2 967   | 3 238   | 3 244   | 3 390   | 3 858   |
| Fishing  | 424     | 408     | 487     | 562     | 530     | 561     | 584     |
| Mining and quarrying                               | 30 052  | 32 111  | 34 830  | 38 768  | 40 524  | 43 445  | 44 186  |
| Coal mining  | 5 128   | 5 565   | 6 777   | 7 835   | 8 589   | 9 312   | 9 288   |
| Gold mining  | 15 413  | 15 944  | 14 135  | 17 136  | 16 373  | 16 489  | 15 291  |
| Mining of other metal ores                         | 6 300   | 6 776   | 7 855   | 8 799   | 10 394  | 12 500  | 14 532  |
| Other mining and quarrying 1/                      | 3 211   | 3 825   | 6 062   | 4 997   | 5 168   | 5 144   | 5 075   |
| Primary industries                                 | 46 335  | 52 363  | 54 147  | 62 488  | 65 849  | 67 897  | 68 741  |
| Manufacturing                                      | 82 642  | 92 068  | 106 180 | 114 127 | 124 604 | 129 057 | 135 952 |
| Food, beverages and tobacco                        | 13 934  | 15 498  | 17 368  | 18 985  | 21 000  | 22 200  | 23 596  |
| Textiles, clothing and leather goods               | 5 856   | 6 403   | 7 059   | 7 106   | 7 526   | 7 524   | 8 101   |
| Wood and paper; publishing and printing            | 8 090   | 8 908   | 11 156  | 11 440  | 12 518  | 12 605  | 14 388  |
| Petroleum products, chemicals, rubber and plastic  | 15 382  | 17 118  | 19 309  | 21 614  | 23 935  | 26 245  | 28 409  |
| Other non-metal mineral products                   | 3 351   | 3 789   | 4 315   | 4 495   | 4 932   | 4 667   | 4 697   |
| Metals, metal products, machinery and equipment    | 16 766  | 18 963  | 22 747  | 25 325  | 28 109  | 28 314  | 27 038  |
| Electrical machinery and apparatus                 | 2 444   | 2 785   | 3 332   | 3 271   | 3 553   | 3 796   | 3 882   |
| Radio, TV, instruments, watches and clocks         | 1 207   | 1 422   | 1 411   | 1 411   | 1 537   | 1 762   | 1 843   |
| Transport equipment                                | 6 349   | 7 063   | 8 675   | 8 953   | 9 104   | 9 075   | 10 272  |
| Furniture; other manufacturing 1/                  | 9 263   | 10 119  | 10 807  | 11 528  | 12 388  | 12 869  | 13 727  |
| Electricity and water                              | 13 930  | 15 975  | 17 408  | 18 128  | 20 387  | 20 965  | 21 408  |
| Electricity  | 12 371  | 14 155  | 15 503  | 16 142  | 17 480  | 17 728  | 17 688  |
| Water  | 1 559   | 1 820   | 1 905   | 1 986   | 2 907   | 3 237   | 3 720   |
| Construction                                       | 12 318  | 13 797  | 15 774  | 17 631  | 19 386  | 20 682  | 21 263  |
| Secondary industries                               | 108 890 | 121 839 | 139 362 | 149 886 | 164 377 | 170 704 | 178 623 |
| Wholesale and retail trade; hotels and restaurants | 56 468  | 62 474  | 71 768  | 79 463  | 85 858  | 89 222  | 95 159  |
| Wholesale trade                                    | 17 938  | 19 558  | 22 851  | 25 838  | 27 549  | 27 912  | 30 168  |
| Retail trade; repairs of household goods 1/        | 27 930  | 31 226  | 34 586  | 37 743  | 41 538  | 44 306  | 47 493  |
| Motor trade; repair of motor vehicles              | 6 121   | 6 928   | 8 605   | 9 432   | 9 779   | 9 469   | 9 809   |
| Hotels and restaurants                             | 4 479   | 4 763   | 5 726   | 6 451   | 6 993   | 7 535   | 7 690   |
| Transport and communication                        | 33 972  | 38 296  | 44 538  | 51 787  | 57 765  | 63 498  | 71 340  |
| Transport 1/                                       | 26 210  | 28 790  | 32 030  | 36 172  | 39 033  | 42 076  | 44 749  |
| Communication                                      | 7 762   | 9 507   | 12 508  | 15 615  | 18 732  | 21 423  | 26 591  |
| Finance, real estate and business services         | 62 861  | 70 491  | 82 162  | 94 116  | 109 601 | 123 369 | 141 928 |
| Finance and insurance                              | 27 871  | 29 394  | 34 664  | 39 215  | 46 742  | 50 769  | 61 614  |
| Real estate  | 20 488  | 24 839  | 28 893  | 34 070  | 39 266  | 45 223  | 49 922  |
| Business services 1/                               | 14 502  | 16 259  | 18 605  | 20 831  | 23 593  | 27 378  | 30 392  |
| Community, social and other personal services 1/   | 9 435   | 11 349  | 13 690  | 15 368  | 17 374  | 19 093  | 21 119  |
| General government services                        | 62 375  | 71 278  | 80 831  | 97 196  | 106 792 | 116 443 | 123 809 |
| Other producers                                    | 10 505  | 12 054  | 13 855  | 15 671  | 17 803  | 20 154  | 22 527  |
| Tertiary industries                                | 235 616 | 265 942 | 306 844 | 353 602 | 395 194 | 431 780 | 475 883 |
| All industries at basic prices                     | 390 841 | 440 144 | 500 353 | 565 976 | 625 420 | 670 381 | 723 247 |
| Taxes on products                                  | 41 611  | 48 374  | 53 644  | 58 184  | 63 713  | 70 654  | 76 980  |
| Less: Subsidies on products                        | 6 321   | 6 400   | 5 898   | 5 746   | 5 387   | 5 954   | 4 672   |
| GDP at market prices                               | 426 132 | 482 119 | 548 099 | 618 415 | 683 746 | 735 082 | 804 898 |

<sup>1/</sup> Includes estimates of the informal sector.

Table 9 - Percentage contribution to the annual gross domestic product by industry at current prices

| Industry   | 1993  | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  |
|--|-------|-------|-------|-------|-------|-------|-------|
| Agriculture, forestry and fishing                  | 4,2   | 4,6   | 3,9   | 4,2   | 4,0   | 3,6   | 3,4   |
| Agriculture  | 3,5   | 3,9   | 3,2   | 3,5   | 3,4   | 3,1   | 2,8   |
| Forestry   | 0,6   | 0,6   | 0,6   | 0,6   | 0,5   | 0,5   | 0,5   |
| Fishing  | 0,1   | 0,1   | 0,1   | 0,1   | 0,1   | 0,1   | 0,1   |
| Mining and quarrying                               | 7,7   | 7,3   | 7,0   | 6,8   | 6,5   | 6,5   | 6,1   |
| Coal mining  | 1,3   | 1,3   | 1,4   | 1,4   | 1,4   | 1,4   | 1,3   |
| Gold mining  | 3,9   | 3,6   | 2,8   | 3,0   | 2,6   | 2,5   | 2,1   |
| Mining of other metal ores                         | 1,6   | 1,5   | 1,6   | 1,6   | 1,7   | 1,9   | 2,0   |
| Other mining and quarrying 1/                      | 0,8   | 0,9   | 1,2   | 0,9   | 0,8   | 0,8   | 0,7   |
| Primary industries                                 | 11,9  | 11,9  | 10,8  | 11,0  | 10,5  | 10,1  | 9,5   |
| Manufacturing                                      | 21,1  | 20,9  | 21,2  | 20,2  | 19,9  | 19,3  | 18,8  |
| Food, beverages and tobacco                        | 3,6   | 3,5   | 3,5   | 3,4   | 3,4   | 3,3   | 3,3   |
| Textiles, clothing and leather goods               | 1,5   | 1,5   | 1,4   | 1,3   | 1,2   | 1,1   | 1,1   |
| Wood and paper; publishing and printing            | 2,1   | 2,0   | 2,2   | 2,0   | 2,0   | 1,9   | 2,0   |
| Petroleum products, chemicals, rubber and plastic  | 3,9   | 3,9   | 3,9   | 3,8   | 3,8   | 3,9   | 3,9   |
| Other non-metal mineral products                   | 0,9   | 0,9   | 0,9   | 0,8   | 0,8   | 0,7   | 0,6   |
| Metals, metal products, machinery and equipment    | 4,3   | 4,3   | 4,5   | 4,5   | 4,5   | 4,2   | 3,7   |
| Electrical machinery and apparatus                 | 0,6   | 0,6   | 0,7   | 0,6   | 0,6   | 0,6   | 0,5   |
| Radio, TV, instruments, watches and clocks         | 0,3   | 0,3   | 0,3   | 0,2   | 0,2   | 0,3   | 0,3   |
| Transport equipment                                | 1,6   | 1,6   | 1,7   | 1,6   | 1,5   | 1,4   | 1,4   |
| Furniture; other manufacturing 1/                  | 2,4   | 2,3   | 2,2   | 2,0   | 2,0   | 1,9   | 1,9   |
| Electricity and water                              | 3,6   | 3,6   | 3,5   | 3,2   | 3,3   | 3,1   | 3,0   |
| Electricity  | 3,2   | 3,2   | 3,1   | 2,9   | 2,8   | 2,6   | 2,4   |
| Water  | 0,4   | 0,4   | 0,4   | 0,4   | 0,5   | 0,5   | 0,5   |
| Construction                                       | 3,2   | 3,1   | 3,2   | 3,1   | 3,1   | 3,1   | 2,9   |
| Secondary industries                               | 27,9  | 27,7  | 27,9  | 26,5  | 26,3  | 25,5  | 24,7  |
| Wholesale and retail trade; hotels and restaurants | 14,4  | 14,2  | 14,3  | 14,0  | 13,7  | 13,3  | 13,2  |
| Wholesale trade                                    | 4,6   | 4,4   | 4,6   | 4,6   | 4,4   | 4,2   | 4,2   |
| Retail trade; repairs of household goods 1/        | 7,1   | 7,1   | 6,9   | 6,7   | 6,6   | 6,6   | 6,6   |
| Motor trade; repair of motor vehicles              | 1,6   | 1,6   | 1,7   | 1,7   | 1,6   | 1,4   | 1,4   |
| Hotels and restaurants                             | 1,1   | 1,1   | 1,1   | 1,1   | 1,1   | 1,1   | 1,1   |
| Transport and communication                        | 8,7   | 8,7   | 8,9   | 9,2   | 9,2   | 9,5   | 9,9   |
| Transport 1/                                       | 6,7   | 6,5   | 6,4   | 6,4   | 6,2   | 6,3   | 6,2   |
| Communication                                      | 2,0   | 2,2   | 2,5   | 2,8   | 3,0   | 3,2   | 3,7   |
| Finance, real estate and business services         | 16,1  | 16,0  | 16,4  | 16,6  | 17,5  | 18,4  | 19,6  |
| Finance and insurance                              | 7,1   | 6,7   | 6,9   | 6,9   | 7,5   | 7,6   | 8,5   |
| Real estate  | 5,2   | 5,6   | 5,8   | 6,0   | 6,3   | 6,7   | 6,9   |
| Business services 1/                               | 3,7   | 3,7   | 3,7   | 3,7   | 3,8   | 4,1   | 4,2   |
| Community, social and personal services 1/         | 2,4   | 2,6   | 2,7   | 2,7   | 2,8   | 2,8   | 2,9   |
| General government services                        | 16,0  | 16,2  | 16,2  | 17,2  | 17,1  | 17,4  | 17,1  |
| Other producers                                    | 2,7   | 2,7   | 2,8   | 2,8   | 2,8   | 3,0   | 3,1   |
| Tertiary industries                                | 60,3  | 60,4  | 61,3  | 62,5  | 63,2  | 64,4  | 65,8  |
| All industries at basic prices                     | 100,0 | 100,0 | 100,0 | 100,0 | 100,0 | 100,0 | 100,0 |

<sup>1/</sup> Includes estimates of the informal sector.

Table 10 - Annual gross domestic product by industry at constant 1995 prices (R million)

| Industry   | 1993    | 1994    | 1995    | 1996    | 1997    | 1998    | 1999    |
|--|---------|---------|---------|---------|---------|---------|---------|
| Agriculture, forestry and fishing                  | 22 366  | 24 125  | 19 317  | 23 949  | 24 314  | 22 538  | 23 305  |
| Agriculture  | 18 994  | 20 727  | 15 863  | 20 468  | 20 967  | 19 289  | 20 038  |
| Forestry   | 2 817   | 2 896   | 2 967   | 3 007   | 2 924   | 2 820   | 2 830   |
| Fishing  | 556     | 502     | 487     | 474     | 423     | 429     | 436     |
| Mining and quarrying                               | 35 782  | 35 946  | 34 830  | 34 542  | 35 118  | 34 845  | 34 499  |
| Coal mining  | 6 090   | 6 494   | 6 777   | 6 828   | 7 254   | 7 235   | 7 254   |
| Gold mining  | 16 251  | 15 402  | 14 135  | 13 608  | 13 355  | 12 476  | 12 170  |
| Mining of other metal ores                         | 7 366   | 7 688   | 7 855   | 8 017   | 8 372   | 8 771   | 9 118   |
| Other mining and quarrying 1/                      | 6 075   | 6 363   | 6 062   | 6 090   | 6 138   | 6 364   | 5 958   |
| Primary industries                                 | 58 147  | 60 071  | 54 147  | 58 492  | 59 432  | 57 383  | 57 804  |
| Manufacturing                                      | 97 114  | 99 706  | 106 180 | 107 648 | 110 248 | 108 447 | 108 283 |
| Food, beverages and tobacco                        | 17 050  | 16 901  | 17 368  | 17 678  | 18 125  | 17 865  | 17 217  |
| Textiles, clothing and leather goods               | 6 502   | 6 682   | 7 059   | 6 573   | 6 832   | 6 285   | 6 460   |
| Wood and paper; publishing and printing            | 10 437  | 10 780  | 11 156  | 10 709  | 11 065  | 10 695  | 10 903  |
| Petroleum products, chemicals, rubber and plastic  | 16 785  | 17 677  | 19 309  | 19 893  | 20 232  | 21 352  | 22 186  |
| Other non-metal mineral products                   | 3 882   | 3 988   | 4 315   | 4 276   | 4 216   | 3 932   | 3 629   |
| Metals, metal products, machinery and equipment    | 20 357  | 20 869  | 22 747  | 24 579  | 25 497  | 24 572  | 23 409  |
| Electrical machinery and apparatus                 | 2 753   | 2 986   | 3 332   | 3 155   | 3 460   | 3 336   | 3 245   |
| Radio, TV, instruments, watches and clocks         | 1 533   | 1 580   | 1 411   | 1 327   | 1 435   | 1 529   | 1 527   |
| Transport equipment                                | 7 089   | 7 435   | 8 675   | 8 524   | 8 251   | 7 936   | 8 600   |
| Furniture; other manufacturing 1/                  | 10 727  | 10 808  | 10 807  | 10 934  | 11 135  | 10 945  | 11 108  |
| Electricity and water                              | 16 133  | 17 069  | 17 408  | 18 403  | 19 206  | 19 316  | 19 688  |
| Electricity  | 14 403  | 15 224  | 15 503  | 16 383  | 17 073  | 17 192  | 17 375  |
| Water  | 1 730   | 1 845   | 1 905   | 2 020   | 2 133   | 2 124   | 2 314   |
| Construction                                       | 14 804  | 15 233  | 15 774  | 16 092  | 16 571  | 16 778  | 16 136  |
| Secondary industries                               | 128 052 | 132 007 | 139 362 | 142 143 | 146 026 | 144 541 | 144 107 |
| Wholesale and retail trade; hotels and restaurants | 66 121  | 67 780  | 71 768  | 74 416  | 74 749  | 73 704  | 74 675  |
| Wholesale trade                                    | 20 941  | 21 271  | 22 851  | 24 135  | 24 111  | 23 303  | 23 981  |
| Retail trade; repairs of household goods 1/        | 32 520  | 33 579  | 34 586  | 35 503  | 36 236  | 36 578  | 37 319  |
| Motor trade; repair of motor vehicles              | 7 115   | 7 457   | 8 605   | 8 938   | 8 669   | 8 046   | 7 770   |
| Hotels and restaurants                             | 5 546   | 5 472   | 5 726   | 5 839   | 5 732   | 5 777   | 5 606   |
| Transport and communication                        | 38 507  | 40 281  | 44 538  | 47 368  | 50 885  | 54 442  | 58 558  |
| Transport 1/                                       | 29 522  | 30 593  | 32 030  | 32 965  | 34 125  | 35 100  | 35 515  |
| Communication                                      | 8 985   | 9 688   | 12 508  | 14 403  | 16 761  | 19 343  | 23 043  |
| Finance, real estate and business services         | 76 580  | 79 378  | 82 162  | 87 668  | 91 454  | 96 601  | 102 721 |
| Finance and insurance                              | 34 135  | 32 983  | 34 664  | 38 923  | 41 527  | 44 198  | 49 118  |
| Real estate  | 25 312  | 28 677  | 28 893  | 29 343  | 29 591  | 30 168  | 30 177  |
| Business services 1/                               | 17 132  | 17 719  | 18 605  | 19 403  | 20 336  | 22 235  | 23 426  |
| Community, social and personal services 1/         | 11 341  | 12 420  | 13 690  | 14 210  | 13 971  | 13 902  | 14 186  |
| General government services                        | 79 366  | 80 157  | 80 831  | 82 422  | 82 860  | 82 458  | 81 879  |
| Other producers                                    | 13 556  | 13 687  | 13 855  | 14 066  | 14 298  | 14 626  | 14 919  |
| Tertiary industries                                | 285 470 | 293 703 | 306 844 | 320 150 | 328 217 | 335 734 | 346 938 |
| All industries at basic prices                     | 471 670 | 485 782 | 500 352 | 520 785 | 533 674 | 537 658 | 548 849 |
| Taxes on products                                  | 48 406  | 51 200  | 53 644  | 56 260  | 57 793  | 57 903  | 57 818  |
| Less: Subsidies on products                        | 5 190   | 5 444   | 5 898   | 6 190   | 6 364   | 6 445   | 6 502   |
|  | 514 887 | 531 537 | 548 099 | 570 855 | 585 103 | 589 116 | 600 164 |

<sup>1/</sup> Includes estimates of the informal sector.

Table 11 - Percentage change  $\frac{2}{2}$  in the annual gross domestic product by industry at constant 1995 prices

| Industry  | 1994       | 1995       | 1996        | 1997        | 1998         | 1999         |
|---|------------|------------|-------------|-------------|--------------|--------------|
| Agriculture, forestry and fishing   | 7,9        | -19,9      | 24,0        | 1,5         | -7,3         | 3,4          |
| Agriculture   | 9,1        | -23,5      | 29,0        | 2,4         | -8,0         | 3,9          |
| Forestry  | 2,8        | 2,4        | 1,3         | -2,8        | -3,6         | 0,4          |
| Fishing   | -9,7       | -3,0       | -2,6        | -10,9       | 1,6          | 1,7          |
| Mining and quarrying  | 0,5        | -3,1       | -0,8        | 1,7         | -0,8         | -1,0         |
| Coal mining   | 6,6        | 4,4        | 0,7         | 6,2         | -0,3         | 0,3          |
| Gold mining   | -5,2       | -8,2       | -3,7        | -1,9        | -6,6         | -2,5         |
| Mining of other metal ores  | 4,4        | 2,2        | 2,1         | 4,4         | 4,8          | 4,0          |
| Other mining and quarrying 1/   | 4,7        | -4,7       | 0,5         | 0,8         | 3,7          | -6,4         |
| Primary industries  | 3,3        | -9,9       | 8,0         | 1,6         | -3,4         | 0,7          |
| Manufacturing   | 2,7        | 6,5        | 1,4         | 2,4         | -1,6         | -0,2         |
| Food, beverages and tobacco   | -0,9       | 2,8        | 1,8         | 2,5         | -1,4         | -3,6         |
| Textiles, clothing and leather goods  | 2,8        | 5,6        | -6,9        | 3,9         | -8,0         | 2,8          |
| Wood and paper; publishing and printing   | 3,3        | 3,5        | -4,0        | 3,3         | -3,3         | 1,9          |
| Petroleum products, chemicals, rubber and plastic                                 | 5,3        | 9,2        | 3,0         | 1,7         | 5,5          | 3,9          |
| Other non-metal mineral products  Metals, metal products, machinery and equipment | 2,7<br>2,5 | 8,2<br>9,0 | -0,9<br>8,1 | -1,4<br>3,7 | -6,7<br>-3,6 | -7,7<br>-4,7 |
| Electrical machinery and apparatus  | 8,4        | 11,6       | -5,3        | 9,7         | -3,6         | -2,7         |
| Radio, TV, instruments, watches and clocks  | 3,0        | -10,7      | -5,9        | 8,1         | 6,6          | -0,2         |
| Transport equipment   | 4,9        | 16,7       | -1,7        | -3,2        | -3,8         | 8,4          |
| Furniture; other manufacturing 1/   | 0,8        | 0,0        | 1,2         | 1,8         | -1,7         | 1,5          |
| Electricity and water   | 5,8        | 2,0        | 5,7         | 4,4         | 0,6          | 1,9          |
| Electricity   | 5,7        | 1,8        | 5,7         | 4,2         | 0,7          | 1,1          |
| Water   | 6,6        | 3,2        | 6,1         | 5,6         | -0,4         | 8,9          |
| Construction  | 2,9        | 3,6        | 2,0         | 3,0         | 1,2          | -3,8         |
| Secondary industries  | 3,1        | 5,6        | 2,0         | 2,7         | -1,0         | -0,3         |
| Wholesale and retail trade; hotels and restaurants                                | 2,5        | 5,9        | 3,7         | 0,4         | -1,4         | 1,3          |
| Wholesale trade   | 1,6        | 7,4        | 5,6         | -0,1        | -3,4         | 2,9          |
| Retail trade; repairs of household goods 1/                                       | 3,3        | 3,0        | 2,7         | 2,1         | 0,9          | 2,0          |
| Motor trade; repair of motor vehicles   | 4,8        | 15,4       | 3,9         | -3,0        | -7,2         | -3,4         |
| Hotels and restaurants  | -1,3       | 4,6        | 2,0         | -1,8        | 0,8          | -3,0         |
| Transport and communication   | 4,6        | 10,6       | 6,4         | 7,4         | 7,0          | 7,6          |
| Transport 1/  | 3,6        | 4,7        | 2,9         | 3,5         | 2,9          | 1,2          |
| Communication   | 7,8        | 29,1       | 15,2        | 16,4        | 15,4         | 19,1         |
| Finance, real estate and business services  | 3,7        | 3,5        | 6,7         | 4,3         | 5,6          | 6,3          |
| Finance and insurance   | -3,4       | 5,1        | 12,3        | 6,7         | 6,4          | 11,1         |
| Real estate   | 13,3       | 0,8        | 1,6         | 0,8         | 2,0          | 0,0          |
| Business services 1/  | 3,4        | 5,0        | 4,3         | 4,8         | 9,3          | 5,4          |
| Community, social and personal services 1/  | 9,5        | 10,2       | 3,8         | -1,7        | -0,5         | 2,0          |
| General government services   | 1,0        | 0,8        | 2,0         | 0,5         | -0,5         | -0,7         |
| Other producers   | 1,0        | 1,2        | 1,5         | 1,6         | 2,3          | 2,0          |
| Tertiary industries   | 2,9        | 4,5        | 4,3         | 2,5         | 2,3          | 3,3          |
| All industries at basic prices  | 3,0        | 3,0        | 4,1         | 2,5         | 0,7          | 2,1          |
| Taxes on products   | 5,8        | 4,8        | 4,9         | 2,7         | 0,2          | -0,1         |
| Less: Subsidies on products   | 4,9        | 8,3        | 5,0         | 2,8         | 1,3          | 0,9          |
| GDP at market prices  | 3,2        | 3,1        | 4,2         | 2,5         | 0,7          | 1,9          |

<sup>1/</sup> Includes estimates of the informal sector.

 $<sup>2\!/</sup>$  The percentage change is the growth rate from one period to the next period.

Table 12 - Annual production accounts by industry at current prices (R million)

| Industry   | 1993    | 1994    | 1995    | 1996    | 1997    | 1998    | 1999    |
|--|---------|---------|---------|---------|---------|---------|---------|
| Agriculture, forestry and fishing                  |         |         |         |         |         |         |         |
| Output at basic prices                             | 28 745  | 34 334  | 35 560  | 43 246  | 46 385  | 46 625  | 48 613  |
| Intermediate consumption                           | 12 461  | 14 082  | 16 243  | 19 525  | 21 060  | 22 173  | 24 059  |
| Gross value added at basic prices                  | 16 284  | 20 252  | 19 317  | 23 721  | 25 325  | 24 452  | 24 555  |
| Other taxes on production                          | 125     | 132     | 138     | 159     | 164     | 188     | 200     |
| Other subsidies                                    | -1 025  | -740    | -694    | -630    | -618    | -531    | -488    |
| Value added at factor cost                         | 17 183  | 20 859  | 19 873  | 24 192  | 25 779  | 24 795  | 24 842  |
| Compensation of employees                          | 5 069   | 5 680   | 6 406   | 6 908   | 7 419   | 7 911   | 8 387   |
| Gross operating surplus/mixed income               | 12 114  | 15 179  | 13 467  | 17 284  | 18 360  | 16 884  | 16 455  |
| Mining and quarrying                               |         |         |         |         |         |         |         |
| Output at basic prices                             | 51 504  | 56 900  | 63 040  | 70 172  | 74 720  | 80 438  | 83 551  |
| Intermediate consumption                           | 21 452  | 24 789  | 28 210  | 31 405  | 34 196  | 36 993  | 39 365  |
| Gross value added at basic prices                  | 30 052  | 32 111  | 34 830  | 38 768  | 40 524  | 43 445  | 44 186  |
| Other taxes on production                          | 415     | 446     | 474     | 493     | 548     | 754     | 649     |
| Other subsidies                                    | -142    | -101    | -59     | -44     | -42     | -41     | -33     |
| Value added at factor cost                         | 29 779  | 31 766  | 34 415  | 38 319  | 40 018  | 42 732  | 43 570  |
| Compensation of employees                          | 15 827  | 16 516  | 18 452  | 19 969  | 22 061  | 22 622  | 23 203  |
| Gross operating surplus/mixed income               | 13 951  | 15 249  | 15 963  | 18 350  | 17 957  | 20 111  | 20 367  |
| Manufacturing                                      |         |         |         |         |         |         |         |
| Output at basic prices                             | 263 671 | 293 937 | 347 715 | 378 775 | 416 574 | 426 622 | 451 329 |
| Intermediate consumption                           | 181 029 | 201 869 | 241 536 | 264 648 | 291 970 | 297 564 | 315 377 |
| Gross value added at basic prices                  | 82 642  | 92 068  | 106 180 | 114 127 | 124 604 | 129 057 | 135 952 |
| Other taxes on production                          | 918     | 1 007   | 1 126   | 1 219   | 1 348   | 1 417   | 1 498   |
| Other subsidies                                    | -1 226  | -913    | -847    | -1 198  | -1 150  | -1 102  | -897    |
| Value added at factor cost                         | 82 951  | 91 974  | 105 900 | 114 106 | 124 405 | 128 742 | 135 351 |
| Compensation of employees                          | 46 111  | 50 761  | 56 484  | 59 965  | 63 532  | 70 678  | 74 404  |
| Gross operating surplus/mixed income               | 36 839  | 41 213  | 49 416  | 54 140  | 60 873  | 58 064  | 60 947  |
| Electricity and water                              |         |         |         |         |         |         |         |
| Output at basic prices                             | 21 760  | 24 359  | 26 918  | 29 156  | 32 477  | 34 267  | 35 766  |
| Intermediate consumption                           | 7 831   | 8 384   | 9 509   | 11 028  | 12 090  | 13 302  | 14 358  |
| Gross value added at basic prices                  | 13 930  | 15 975  | 17 408  | 18 128  | 20 387  | 20 965  | 21 408  |
| Other taxes on production                          | 184     | 190     | 196     | 203     | 216     | 215     | 222     |
| Other subsidies                                    | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| Value added at factor cost                         | 13 745  | 15 785  | 17 213  | 17 925  | 20 171  | 20 750  | 21 186  |
| Compensation of employees                          | 3 906   | 4 317   | 4 943   | 5 811   | 6 355   | 6 910   | 7 741   |
| Gross operating surplus/mixed income               | 9 839   | 11 468  | 12 269  | 12 113  | 13 816  | 13 839  | 13 445  |
| Construction                                       |         |         |         |         |         |         |         |
| Output at basic prices                             | 40 939  | 45 435  | 51 401  | 57 394  | 63 885  | 68 185  | 69 831  |
| Intermediate consumption                           | 28 621  | 31 639  | 35 627  | 39 763  | 44 498  | 47 503  | 48 568  |
| Gross value added at basic prices                  | 12 318  | 13 797  | 15 774  | 17 631  | 19 386  | 20 682  | 21 263  |
| Other taxes on production                          | 130     | 139     | 147     | 157     | 172     | 188     | 195     |
| Other subsidies                                    | 0       | 0       | 0       | 0       | 0       | 0       | 0       |
| Value added at factor cost                         | 12 188  | 13 658  | 15 627  | 17 475  | 19 214  | 20 494  | 21 067  |
| Compensation of employees                          | 9 577   | 9 954   | 10 909  | 11 414  | 11 995  | 13 073  | 13 269  |
| Gross operating surplus/mixed income               | 2 610   | 3 704   | 4 719   | 6 060   | 7 219   | 7 421   | 7 799   |
| Wholesale and retail trade; hotels and restaurants |         |         |         |         |         |         |         |
| Output at basic prices                             | 97 616  | 108 486 | 125 113 | 138 716 | 150 109 | 156 664 | 166 350 |
| Intermediate consumption                           | 41 148  | 46 012  | 53 345  | 59 253  | 64 250  | 67 442  | 71 191  |
| Gross value added at basic prices                  | 56 468  | 62 474  | 71 768  | 79 463  | 85 858  | 89 222  | 95 159  |
| Other taxes on production                          | 1 415   | 1 557   | 1 709   | 1 892   | 2 082   | 2 272   | 2 382   |
| Other subsidies                                    | -3      | 0       | 0       | 0       | 0       | 0       | 0       |
| Value added at factor cost                         | 55 056  | 60 917  | 70 059  | 77 571  | 83 777  | 86 950  | 92 777  |
| Compensation of employees                          | 29 174  | 31 373  | 35 343  | 38 417  | 42 132  | 45 067  | 48 243  |
| Gross operating surplus/mixed income               | 25 882  | 29 544  | 34 716  | 39 154  | 41 645  | 41 883  | 44 534  |

Table 12 - Annual production accounts by industry at current prices (R million) (concluded)

| Industry   | 1993               | 1994               | 1995                 | 1996                 | 1997                 | 1998                 | 1999                 |
|--|--------------------|--------------------|----------------------|----------------------|----------------------|----------------------|----------------------|
| -  | 1993               | 1334               | 1993                 | 1990                 | 1991                 | 1990                 | 1333                 |
| Transport and communication                                | F7.000             | 05.057             | 74.000               | 07.445               | 00.007               | 440.000              | 404.004              |
| Output at basic prices                                     | 57 392             | 65 257             | 74 862               | 87 145               | 98 937               | 110 863              | 124 294              |
| Intermediate consumption Gross value added at basic prices | 23 419<br>33 972   | 26 961<br>38 296   | 30 324<br>44 538     | 35 358<br>51 787     | 41 172<br>57 765     | 47 365<br>63 498     | 52 954<br>71 340     |
| · ·  |                    |                    |                      |                      |                      |                      |                      |
| Other taxes on production                                  | 503                | 513                | 510                  | 531                  | 551                  | 719                  | 747                  |
| Other subsidies Value added at factor cost                 | -237<br>33 706     | -258<br>38 042     | -301<br>44 329       | -503<br>51 760       | -486<br>57 700       | -452<br>63 232       | -381<br>70 973       |
| Compensation of employees                                  | 17 811             | 19 364             | 22 275               | 25 338               | 27 479               | 30 696               | 32 288               |
| Gross operating surplus/mixed income                       | 15 895             | 18 677             | 22 054               | 26 421               | 30 222               | 32 536               | 38 685               |
| Finance, real estate and business services                 |                    |                    | 22 00 .              | 20 .2 .              | 00 222               | 02 000               | 00 000               |
| Output at basic prices                                     | 94 900             | 109 726            | 127 291              | 145 483              | 169 936              | 193 605              | 221 027              |
| Intermediate consumption                                   | 32 038             | 39 235             | 45 129               | 51 367               | 60 335               | 70 235               | 79 099               |
| Gross value added at basic prices                          | 62 861             | 70 491             | 82 162               | 94 116               | 109 601              | 123 369              | 141 928              |
| Other taxes on production                                  | 3 903              | 4 529              | 5 069                | 5 762                | 5 981                | 6 455                | 7 052                |
| Other subsidies  | -483               | -571               | -399                 | -382                 | -371                 | -336                 | -291                 |
| Value added at factor cost                                 | 59 441             | 66 533             | 77 492               | 88 736               | 103 990              | 117 250              | 135 168              |
| Compensation of employees                                  | 21 035             | 23 931             | 28 136               | 31 676               | 36 689               | 41 915               | 48 580               |
| Gross operating surplus/mixed income                       | 38 406             | 42 601             | 49 355               | 57 060               | 67 302               | 75 335               | 86 587               |
| Community, social and personal services                    |                    |                    |                      |                      |                      |                      |                      |
| Output at basic prices                                     | 18 681             | 22 649             | 27 395               | 30 803               | 34 802               | 38 237               | 42 310               |
| Intermediate consumption                                   | 9 246              | 11 300             | 13 704               | 15 435               | 17 428               | 19 144               | 21 190               |
| Gross value added at basic prices                          | 9 435              | 11 349             | 13 690               | 15 368               | 17 374               | 19 093               | 21 119               |
| Other taxes on production                                  | 604                | 642                | 635                  | 655                  | 681                  | 645                  | 685                  |
| Other subsidies  | -17                | -13                | -54                  | -88                  | -85                  | -81                  | -66                  |
| Value added at factor cost                                 | 8 848              | 10 721             | 13 109               | 14 802               | 16 778               | 18 529               | 20 500               |
| Compensation of employees                                  | 4 087              | 5 001              | 6 100                | 6 870                | 7 772                | 8 538                | 9 469                |
| Gross operating surplus/mixed income                       | 4 762              | 5 720              | 7 009                | 7 932                | 9 006                | 9 991                | 11 031               |
| General government services                                |                    |                    |                      |                      |                      |                      |                      |
| Output at basic prices                                     | 94 122             | 106 047            | 111 238              | 131 908              | 146 797              | 158 445              | 166 791              |
| Intermediate consumption                                   | 31 747             | 34 769             | 30 407               | 34 712               | 40 005               | 42 002               | 42 982               |
| Gross value added at basic prices                          | 62 375             | 71 278             | 80 831               | 97 196               | 106 792              | 116 443              | 123 809              |
| Other taxes on production                                  | 437                | 460                | 509                  | 572                  | 627                  | 708                  | 761                  |
| Other subsidies  | 0                  | 0                  | 0                    | 0                    | 0                    | 0                    | 0                    |
| Value added at factor cost                                 | 61 938             | 70 818             | 80 322               | 96 624               | 106 165              | 115 735              | 123 048              |
| Compensation of employees                                  | 55 255             | 63 435             | 72 021               | 87 301               | 95 845               | 104 533              | 110 830              |
| Gross operating surplus                                    | 6 683              | 7 383              | 8 301                | 9 323                | 10 320               | 11 202               | 12 218               |
| Other producers  |                    |                    |                      |                      |                      |                      |                      |
| Output at basic prices                                     | 14 320             | 16 285             | 18 433               | 20 621               | 23 240               | 26 146               | 28 953               |
| Intermediate consumption                                   | 3 815              | 4 231              | 4 578                | 4 950                | 5 437                | 5 992                | 6 426                |
| Gross value added at basic prices                          | 10 505             | 12 054             | 13 855               | 15 671               | 17 803               | 20 154               | 22 527               |
| Other taxes on production                                  | 0                  | 0                  | 0                    | 0                    | 0                    | 0                    | 0                    |
| Other subsidies  | 0                  | 0                  | 0                    | 0                    | 0                    | 0                    | 0                    |
| Value added at factor cost                                 | 10 505<br>10 306   | 12 054<br>11 833   | 13 855<br>13 607     | 15 671<br>15 395     | 17 803<br>17 496     | 20 154<br>19 819     | 22 527<br>22 168     |
| Compensation of employees Gross operating surplus          | 10 306             | 221                | 248                  | 276                  | 307                  | 335                  | 359                  |
|  | 133                | 221                | 240                  | 210                  | 307                  | 333                  | 333                  |
| Sum of all industries                                      | 700.040            | 000 444            | 4 000 004            | 4 400 404            | 4 057 000            | 4 0 40 007           | 4 400 040            |
| Output at basic prices Intermediate consumption            | 783 649<br>392 808 | 883 414<br>443 269 | 1 008 964<br>508 611 | 1 133 421<br>567 444 | 1 257 862<br>632 443 | 1 340 097<br>669 716 | 1 438 816<br>715 568 |
| Gross value added at basic prices                          | 392 808            | 440 144            | 500 353              | 565 976              | 625 420              | 670 381              | 715 566              |
| •  |                    |                    |                      |                      |                      |                      | 14 392               |
| Other taxes on production Other subsidies                  | 8 635<br>-3 133    | 9 614<br>-2 596    | 10 512<br>-2 353     | 11 642<br>-2 845     | 12 370<br>-2 752     | 13 561<br>-2 543     | 14 392<br>-2 155     |
| Value added at factor cost                                 | 385 339            | 433 126            | -2 353<br>492 194    | -2 645<br>557 179    | 615 802              | 659 363              | 711 010              |
| Compensation of employees                                  | 218 159            | 242 166            | 274 676              | 309 065              | 338 775              | 371 762              | 398 582              |
| Gross operating surplus/mixed income                       | 167 181            | 190 960            | 217 517              | 248 114              | 277 027              | 287 601              | 312 428              |
| Garbrack moonio  |                    | . 00 000           | 0                    |                      | 02.                  | _0. 001              |                      |

Table 13 - Annual production accounts by industry at constant 1995 prices (R million)

| Industry   | 1993               | 1994            | 1995               | 1996               | 1997               | 1998               | 1999               |
|--|--------------------|-----------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| -  | 1000               | 100-1           | 1000               | 1000               | 1001               | 1000               | 1000               |
| Agriculture, forestry and fishing                          | 37 180             | 39 659          | 35 560             | 41 043             | 41 117             | 39 662             | 40 754             |
| Output at basic prices Intermediate consumption            | 14 814             | 15 534          | 16 243             | 17 093             | 16 803             | 17 124             | 17 450             |
| Gross value added at basic prices                          | 22 366             | 24 125          | 19 317             | 23 949             | 24 314             | 22 538             | 23 305             |
| ·  | 22 000             | 24 120          | 13 317             | 20 040             | 24014              | 22 000             | 20 000             |
| Mining and quarrying                                       | 64.406             | 64 795          | 63 040             | 62 455             | 63 618             | 63 105             | 62 515             |
| Output at basic prices Intermediate consumption            | 64 406<br>28 625   | 28 849          | 28 210             | 27 913             | 28 500             | 28 260             | 28 016             |
| Gross value added at basic prices                          | 35 782             | 35 946          | 34 830             | 34 542             | 35 118             | 34 845             | 34 499             |
| '  | 00 702             | 00 040          | 04 000             | 04 042             | 00 110             | 04 040             | 04 433             |
| Manufacturing Output at basis prises                       | 245 507            | 323 939         | 247 745            | 252.706            | 264.062            | 255.052            | 257.002            |
| Output at basic prices Intermediate consumption            | 315 597<br>218 482 | 224 233         | 347 715<br>241 536 | 352 786<br>245 138 | 361 863<br>251 614 | 355 952<br>247 505 | 357 902<br>249 619 |
| Gross value added at basic prices                          | 97 114             | 99 706          | 106 180            | 107 648            | 110 248            | 108 447            | 108 283            |
| ·  | 37 114             | 33 700          | 100 100            | 107 040            | 110 240            | 100 447            | 100 203            |
| Electricity and water                                      | 05.040             | 00.470          | 00.040             | 00.400             | 20.005             | 00.754             | 20.250             |
| Output at basic prices                                     | 25 310<br>9 176    | 26 179<br>9 111 | 26 918<br>9 509    | 28 438<br>10 035   | 29 605<br>10 399   | 29 751<br>10 435   | 30 356<br>10 668   |
| Intermediate consumption Gross value added at basic prices | 16 133             | 17 069          | 17 408             | 18 403             | 19 206             | 19 316             | 19 688             |
| ·  | 10 133             | 17 009          | 17 400             | 10 403             | 19 200             | 19310              | 19 000             |
| Construction   |                    |                 |                    |                    |                    |                    |                    |
| Output at basic prices                                     | 48 360             | 49 866          | 51 401             | 52 579             | 54 294             | 55 035             | 52 968             |
| Intermediate consumption                                   | 33 556             | 34 633          | 35 627             | 36 486             | 37 722             | 38 257<br>16 778   | 36 832             |
| Gross value added at basic prices                          | 14 804             | 15 233          | 15 774             | 16 092             | 16 571             | 16 7 / 8           | 16 136             |
| Wholesale and retail trade; hotels and restaurants         |                    |                 |                    |                    |                    |                    |                    |
| Output at basic prices                                     | 114 593            | 117 579         | 125 113            | 130 051            | 130 885            | 129 689            | 130 786            |
| Intermediate consumption                                   | 48 472             | 49 799          | 53 345             | 55 636             | 56 136             | 55 985             | 56 110             |
| Gross value added at basic prices                          | 66 121             | 67 780          | 71 768             | 74 416             | 74 749             | 73 704             | 74 675             |
| Transport and communication                                |                    |                 |                    |                    |                    |                    |                    |
| Output at basic prices                                     | 65 546             | 68 645          | 74 862             | 79 246             | 85 639             | 92 956             | 99 227             |
| Intermediate consumption                                   | 27 040             | 28 365          | 30 324             | 31 877             | 34 754             | 38 513             | 40 669             |
| Gross value added at basic prices                          | 38 507             | 40 281          | 44 538             | 47 368             | 50 885             | 54 442             | 58 558             |
| Finance, real estate and business services                 |                    |                 |                    |                    |                    |                    |                    |
| Output at basic prices                                     | 115 203            | 122 201         | 127 291            | 135 738            | 143 352            | 153 339            | 162 941            |
| Intermediate consumption                                   | 38 623             | 42 823          | 45 129             | 48 070             | 51 898             | 56 739             | 60 220             |
| Gross value added at basic prices                          | 76 580             | 79 378          | 82 162             | 87 668             | 91 454             | 96 601             | 102 721            |
| Community, social and personal services                    |                    |                 |                    |                    |                    |                    |                    |
| Output at basic prices                                     | 22 589             | 24 800          | 27 395             | 28 467             | 27 992             | 27 853             | 28 457             |
| Intermediate consumption                                   | 11 248             | 12 380          | 13 704             | 14 257             | 14 021             | 13 951             | 14 271             |
| Gross value added at basic prices                          | 11 341             | 12 420          | 13 690             | 14 210             | 13 971             | 13 902             | 14 186             |
| General government services                                |                    |                 |                    |                    |                    |                    |                    |
| Output at basic prices                                     | 116 724            | 117 404         | 111 238            | 115 215            | 118 690            | 117 996            | 116 083            |
| Intermediate consumption                                   | 37 358             | 37 247          | 30 407             | 32 793             | 35 830             | 35 538             | 34 204             |
| Gross value added at basic prices                          | 79 366             | 80 157          | 80 831             | 82 422             | 82 860             | 82 458             | 81 879             |
| Other producers  |                    |                 |                    |                    |                    |                    |                    |
| Output at basic prices                                     | 18 053             | 18 273          | 18 433             | 18 679             | 18 967             | 19 441             | 19 823             |
| Intermediate consumption                                   | 4 496              | 4 586           | 4 578              | 4 613              | 4 670              | 4 815              | 4 905              |
| Gross value added at basic prices                          | 13 556             | 13 687          | 13 855             | 14 066             | 14 298             | 14 626             | 14 919             |
| Sum of all industries                                      |                    |                 |                    |                    |                    |                    |                    |
| Output at basic prices                                     | 943 560            | 973 340         | 1 008 964          | 1 044 697          | 1 076 024          | 1 084 779          | 1 101 813          |
| Intermediate consumption                                   | 471 890            | 487 559         | 508 612            | 523 912            | 542 349            | 547 122            | 552 964            |
| Gross value added at basic prices                          | 471 670            | 485 782         | 500 352            | 520 785            | 533 674            | 537 658            | 548 849            |

Table 14 - Annual volume index numbers by industry (1995 = 100)

| Industry   | 1993  | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  |
|--|-------|-------|-------|-------|-------|-------|-------|
| Agriculture, forestry and fishing                  | 115,8 | 124,9 | 100,0 | 124,0 | 125,9 | 116,7 | 120,6 |
| Mining and quarrying                               | 102,7 | 103,2 | 100,0 | 99,2  | 100,8 | 100,0 | 99,1  |
| Manufacturing                                      | 91,5  | 93,9  | 100,0 | 101,4 | 103,8 | 102,1 | 102,0 |
| Electricity and water                              | 92,7  | 98,1  | 100,0 | 105,7 | 110,3 | 111,0 | 113,1 |
| Construction                                       | 93,9  | 96,6  | 100,0 | 102,0 | 105,1 | 106,4 | 102,3 |
| Wholesale and retail trade; hotels and restaurants | 92,1  | 94,4  | 100,0 | 103,7 | 104,2 | 102,7 | 104,1 |
| Transport and communication                        | 86,5  | 90,4  | 100,0 | 106,4 | 114,3 | 122,2 | 131,5 |
| Finance, real estate and business services         | 93,2  | 96,6  | 100,0 | 106,7 | 111,3 | 117,6 | 125,0 |
| Community, social and personal services            | 82,8  | 90,7  | 100,0 | 103,8 | 102,1 | 101,5 | 103,6 |
| General government services                        | 98,2  | 99,2  | 100,0 | 102,0 | 102,5 | 102,0 | 101,3 |
| Other producers                                    | 97,8  | 98,8  | 100,0 | 101,5 | 103,2 | 105,6 | 107,7 |
| Total values added at basic prices                 | 94,3  | 97,1  | 100,0 | 104,1 | 106,7 | 107,5 | 109,7 |
| Taxes on products                                  | 90,2  | 95,4  | 100,0 | 104,9 | 107,7 | 107,9 | 107,8 |
| Subsidies on products                              | 88,0  | 92,3  | 100,0 | 105,0 | 107,9 | 109,3 | 110,2 |
| GDP at market prices                               | 93,9  | 97,0  | 100,0 | 104,2 | 106,8 | 107,5 | 109,5 |

Table 15 - Annual implied deflators by industry (1995 = 100)

| Industry   | 1993  | 1994  | 1995  | 1996  | 1997  | 1998  | 1999  |
|--|-------|-------|-------|-------|-------|-------|-------|
| Agriculture, forestry and fishing                  | 72,8  | 83,9  | 100,0 | 99,0  | 104,2 | 108,5 | 105,4 |
| Mining and quarrying                               | 84,0  | 89,3  | 100,0 | 112,2 | 115,4 | 124,7 | 128,1 |
| Manufacturing                                      | 85,1  | 92,3  | 100,0 | 106,0 | 113,0 | 119,0 | 125,6 |
| Electricity and water                              | 86,3  | 93,6  | 100,0 | 98,5  | 106,1 | 108,5 | 108,7 |
| Construction                                       | 83,2  | 90,6  | 100,0 | 109,6 | 117,0 | 123,3 | 131,8 |
| Wholesale and retail trade; hotels and restaurants | 85,4  | 92,2  | 100,0 | 106,8 | 114,9 | 121,1 | 127,4 |
| Transport and communication                        | 88,2  | 95,1  | 100,0 | 109,3 | 113,5 | 116,6 | 121,8 |
| Finance, real estate and business services         | 82,1  | 88,8  | 100,0 | 107,4 | 119,8 | 127,7 | 138,2 |
| Community, social and personal services            | 83,2  | 91,4  | 100,0 | 108,1 | 124,4 | 137,3 | 148,9 |
| General government services                        | 78,6  | 88,9  | 100,0 | 117,9 | 128,9 | 141,2 | 151,2 |
| Other producers                                    | 77,5  | 88,1  | 100,0 | 111,4 | 124,5 | 137,8 | 151,0 |
| Total values added at basic prices                 | 82,9  | 90,6  | 100,0 | 108,7 | 117,2 | 124,7 | 131,8 |
| Taxes on products                                  | 86,0  | 94,5  | 100,0 | 103,4 | 110,2 | 122,0 | 133,1 |
| Subsidies on products                              | 121,8 | 117,6 | 100,0 | 92,8  | 84,6  | 92,4  | 71,9  |
| GDP deflator                                       | 82,8  | 90,7  | 100,0 | 108,3 | 116,9 | 124,8 | 132,6 |

#### ADDITIONAL INFORMATION

#### **Explanatory Notes**

#### Introduction

1 This Statistical Release contains independent compiled annual estimates of the Gross Domestic Product (GDP) for the period 1993 to 1999. It also contains quarterly estimates of the Gross Domestic Product (GDP) for the period 1993 to the third quarter of 2000. The estimates are based on the 1993 System of National Accounts (SNA) published by the United Nations in co-operation with other international organisations. This means that the methodology, concepts and classifications, are in accordance with the latest guidelines of an internationally agreed system of national accounts.

Revised estimates of GDP for the years 1993-98 in accordance with the new SNA were published for the first time in the June 1999 issue of Statistical Release P0441. The revisions also included an update of the base year from 1990 to 1995 for the estimates at constant prices. Thus, the estimates of real GDP are made at 1995 constant prices in this publication.

#### Methodology

2 Annual GDP estimates are now calculated independently from the quarterly estimates. Previously, annual GDP estimates were derived as the sum of the GDP for the four quarters of the relevant year.

Short-term indicators are used to estimate the quarterly GDP (cf. Statistical sources and methods). However, they are by their nature incomplete in terms of coverage and annual changes of output measured through them are generally not as reliable as in instances where the results of annual surveys are used. Therefore, the quarterly estimates must be adapted to the independent annual estimates when such estimates become available.

#### Classifications

3 The estimates of value added by industry are classified according to the Standard Industrial Classification of all Economic Activities (SIC), fifth edition. SIC is based on the third revision of the International Standard Industrial Classification of all Economic Activities (ISIC), with suitable adaptations for South African conditions.

#### Seasonal adjustment

4 The quarterly value added and GDP estimates have been seasonally adjusted. 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 quarter. Influences that are volatile or unsystematic can still make it difficult to interpret.

#### Reliability of estimates

5 Revision of the estimates for all components of the national accounts are usually done every five years in conjunction with the rebasing of the estimates at constant prices. At such a time the results of censuses that have become available in the meantime and any other additional information sources are incorporated in the estimates. Due to the availability of more comprehensive data, revisions are also made of estimates for the latest quarters and, once a year, for the two latest years.

#### **Related publications**

- **6** Users may also wish to refer to the following publications from Stats SA -
  - Bulletin of Statistics; and
  - SA Statistics

#### **Unpublished Statistics**

7 In some cases Stats SA can also make available information which is not published. This information can be made available through a computer printout or diskette. Generally a charge is made for providing unpublished information.

#### **Pre-release policy**

8 New estimates of economic indicators are kept strictly confidential by Stats SA prior to the date and time of release. To enable selected government departments to prepare their public responses, the following pre-release procedure is applied. It accords with practice in leading statistical agencies.

An official representative from the Office of the President, the Department of Finance and the SARB receive a copy of the release on a strictly confidential basis one hour in advance of the public issue.

#### **Symbols and abbreviations**

9 SARB South African Reserve Bank
 SIC Standard Industrial Classification
 SNA System of National Accounts
 Stats SA Statistics South Africa

- not applicable

#### Classification of Industries

The industries used in estimating the value added was classified according to the Standard Industrial Classification of all Economic Activities (SIC), fifth edition. It is based on the third revision of the International Standard Industrial Classification of all Economic Activities (ISIC), with suitable adaptations for local conditions.

For the convenience of users, the SIC is duplicated in this statistical release for easy reference. Two versions of SIC are presented, namely table C reflecting only those categories of the SIC which have actually been used in the national accounts tables in this statistical release and table D which is the full version of SIC (5<sup>th</sup> edition). Furthermore, table C also furnishes the abbreviated titles as used in the national accounts tables.

Table C - Categories used in the national accounts tables

| Title in the national accounts tables                          | Major<br>division<br>of SIC | Division of SIC |
|--|-----------------------------|-----------------|
| Agriculture, forestry and fishing                              | 1                           |                 |
| Agriculture  |                             | 11              |
| Forestry   |                             | 12              |
| Fishing  |                             | 13              |
| Mining and quarrying   | 2                           |                 |
| Coal mining  |                             | 21              |
| Gold mining  |                             | 23              |
| Mining of other metal ores                                     |                             | 24              |
| Other mining and quarrying                                     |                             | 25, 29          |
| Manufacturing  | 3                           |                 |
| Food, beverages and tobacco products                           |                             | 30              |
| Textiles, clothing and leather goods                           |                             | 31              |
| Wood and paper; publishing and printing                        |                             | 32              |
| Petroleum products, chemicals, rubber and plastic              |                             | 33              |
| Other non-metallic mineral products                            |                             | 34              |
| Metals, metal products, machinery and equipment                |                             | 35              |
| Electrical machinery and apparatus                             |                             | 36              |
| Radio, TV, instruments, watches and clocks                     |                             | 37              |
| Transport equipment  |                             | 38              |
| Furniture; other manufacturing                                 |                             | 39              |
| Electricity and water  | 4                           |                 |
| Electricity  |                             | 41              |
| Water  |                             | 42              |
| Construction   | 5                           |                 |
| Wholesale, retail, and motor trade; catering and accommodation | 6                           |                 |
| Wholesale trade  |                             | 61              |
| Retail trade; repair of household goods                        |                             | 62              |
| Motor trade; repair of motor vehicles                          |                             | 63              |
| Catering and accommodation                                     |                             | 64              |

Table C - Categories used in the national accounts tables (concluded)

| Title in the national accounts tables      | Major<br>division<br>of SIC | Division of SIC |
|--|-----------------------------|-----------------|
| Transport and communication                | 7                           |                 |
| Transport                                  |                             | 71-74           |
| Communication                              |                             | 75              |
| Finance, real estate and business services | 8                           |                 |
| Finance and insurance                      |                             | 81-83           |
| Real estate                                |                             | 84              |
| Business services                          |                             | 85-88           |
| Other private services                     | 9 <u>1</u> /                |                 |
| General government services                | 9 <u>1</u> /                |                 |
| Other producers                            | 9 <u>1</u> /                | 01 <u>1</u> /   |

<sup>1/</sup> Major division 9 of SIC - Community, social and personal services - has been disaggregated into three categories in the national accounts tables. These categories follow other criteria than SIC and cannot be defined in terms of the divisions and groups of SIC 9. The first category - Community, social and personal services - includes private enterprises. They are market producers. The second category - general government services - comprises the activities of general government in producing non-market community and social services, e.g. public administration, defence, health and education. The third category - Other producers - consist of non-profit institutions serving households (NPISH) and domestic workers. These are also non-market producers.

 $\label{eq:constraint} \begin{tabular}{l} \textbf{Table D - Standard Industrial Classification of All Economic Activities (SIC)} \\ \textbf{(5}^{th} \ Edition) \end{tabular}$ 

| Title of category   | Major<br>division | Division |
|---|-------------------|----------|
| Agriculture, hunting, forestry and fishing  | 1                 |          |
| Agriculture, hunting and related services   |                   | 11       |
| Forestry, logging and related services  |                   | 12       |
| Fishing, operation of fish hatcheries and fish farms  |                   | 13       |
| Mining and quarrying  | 2                 |          |
| Mining of coal and lignite  |                   | 21       |
| Extraction of crude petroleum and natural gas; service activities incidental to oil and gas extraction, excluding surveying   |                   | 22       |
| Mining of gold and uranium ore  |                   | 23       |
| Mining of metal ores, except gold and uranium   |                   | 24       |
| Other mining and quarrying  |                   | 25       |
| Services activities incidental to mining of minerals  |                   | 29       |
| Manufacturing   | 3                 |          |
| Manufacture of food products, beverages and tobacco products  |                   | 30       |
| Manufacture of textiles, clothing and leather goods   |                   | 31       |
| Manufacture of wood and of products of wood and cork, except furniture; manufacture of articles of straw and plaiting materials; manufacture of paper and paper products; publishing, printing and reproduction of recorded media |                   | 32       |
| Manufacture of coke, refined petroleum products and nuclear fuel;<br>manufacture of chemicals and chemical products; manufacture of rubber<br>and plastic products  |                   | 33       |
| Manufacture of other non-metallic mineral products  |                   | 34       |
| Manufacture of basic metals, fabricated metal products, machinery and equipment and of office, accounting and computing machinery   |                   | 35       |
| Manufacture of electrical machinery and apparatus n.e.c.  |                   | 36       |
| Manufacture of radio, television and communication equipment and apparatus and of medical, precision and optical instruments, watches and clocks  |                   | 37       |
| Manufacture of transport equipment  |                   | 38       |
| Manufacture of furniture; manufacturing n.e.c.; recycling   |                   | 39       |
| Electricity, gas and water supply   | 4                 |          |
| Electricity, gas, steam and hot water supply  |                   | 41       |
| Collection, purification and distribution of water  |                   | 42       |
| Construction  | 5                 |          |
| Wholesale and retail trade; repair of motor vehicles, motor cycles and personal and household goods; catering and accommodation   | 6                 |          |
| Wholesale and commission trade, except of motor vehicles and motor cycles   |                   | 61       |
| Retail trade, except of motor vehicles and motor cycles; repair of personal household goods   |                   | 62       |
| Sale, maintenance and repair of motor vehicles and motor cycles; retail trade in automotive fuel  |                   | 63       |
| Catering and accommodation  |                   | 64       |

 $\label{eq:constraint} \begin{tabular}{l} \textbf{Table D - Standard Industrial Classification of All Economic Activities (SIC)} \\ \textbf{(5}^{th} \ Edition) \ (concluded) \end{tabular}$ 

| Title of category   | Major<br>division | Division |
|---|-------------------|----------|
| Transport, storage and communication  | 7                 |          |
| Land transport; transport via pipelines   |                   | 71       |
| Water transport   |                   | 72       |
| Air transport   |                   | 73       |
| Supporting and auxiliary transport activities; activities of travel agencies  |                   | 74       |
| Post and telecommunications   |                   | 75       |
| Financial intermediation, insurance, real estate and business services  | 8                 |          |
| Financial intermediation, except insurance and pension funding  |                   | 81       |
| Insurance and pension funding, except compulsory social security  |                   | 82       |
| Activities auxiliary to financial intermediation  |                   | 83       |
| Real estate activities  |                   | 84       |
| Renting of machinery and equipment, without operator, and of personal and household goods   |                   | 85       |
| Computer and related activities   |                   | 86       |
| Research and development  |                   | 87       |
| Other business activities   |                   | 88       |
| Community, social and personal services   | 9                 |          |
| Public administration and defence activities  |                   | 91       |
| Education   |                   | 92       |
| Health and social work  |                   | 93       |
| Other community, social and personal service activities   |                   | 94       |
| Activities of membership organisations n.e.c.   |                   | 95       |
| Recreational, cultural and sporting activities  |                   | 96       |
| Other service activities  |                   | 99       |
| Private households, exterritorial organisations, representatives of foreign governments and other activities not adequately defined | 0                 |          |
| Private households with employed persons  |                   | 01       |
| Exterritorial organisations   |                   | 02       |
| Representatives of foreign governments  |                   | 03       |
| Other activities not adequately defined   |                   | 04       |

#### Statistical sources and methods

**Table E** summarises the most important statistical sources from which the annual and quarterly value added and GDP estimates are derived and the method used to compile the figures, discussing both the estimates at current and at constant prices. The term "benchmark years" refers to those years in respect of which authoritative and detailed information is available.

Table E - Statistical sources and methods used in estimating annual and quarterly value added and GDP at current and at constant prices

| Industry    | Annual estimates at current prices  | Quarterly estimates at current prices  | Estimates at constant prices   |
|-------------|---|--|--|
| Agriculture | Benchmark years: Periodic Censuses of Agriculture conducted by Stats SA. GDP estimates compiled by the National Department of Agriculture in co-operation with Stats SA. Other years: Annual surveys of agriculture conducted by Stats SA. GDP estimates are compiled by the Department of Agriculture in collaboration with Stats SA. Estimates from censuses and surveys are verified against quarterly source data collected by the National Department of Agriculture. Estimates include the value of farm produce consumed by farmers for own account. | Information obtained from various marketing agents and other agricultural related organisations in respect of the value of production of field crops, horticulture and livestock. Expenditure on intermediate goods is collected by the National Department of Agriculture from a number of manufacturers and associations regarding, inter alia, fertilisers, farm feed, dips and sprays, and fuel. | Nominal values ( current prices) of production and intermediate inputs are deflated by appropriate price indices compiled by the National Department of Agriculture. |
| Forestry    | Benchmark and other years: Annual information obtained from the Department of Water Affairs and Forestry. Estimates of growing forests and own-account production are based on a research project conducted by UP   | Judgemental trend.   | Base year estimates are extrapolated using volumes of harvested timber and changes in standing timber inventories.   |
| Fishing     | Benchmark and other years: Information provided by the Marine Development Branch of the Department of Environmental Affairs and technical periodicals.  | Information provided by<br>the Marine Develop-<br>ment Branch of the<br>Department of<br>Environmental Affairs<br>and technical<br>periodicals.  | Base year estimates are extrapolated using appropriate indices of the quantity (volume) of fish caught.  |

 $\begin{tabular}{lll} Table $E$-& Statistical sources and methods used in estimating annual and quarterly value added and $GDP$ at current and at constant prices (continued) \\ \end{tabular}$ 

| Industry              | Annual estimates at current prices   | Quarterly estimates at current prices   | Estimates at constant prices   |
|-----------------------|--|---|--|
| Mining and quarrying  | Benchmark years: Periodic Censuses of Mining conducted by Stats SA. Results from the 1993 and 1996 mining censuses are included.  Other years: Monthly data on production and sales for the various sectors of the mining industry and the quarterly surveys of financial and labour statistics conducted by Stats SA. Supplemented by information from the Chamber of Mines regarding the gold- mining industry and sample surveys conducted by the SARB. | Monthly data on production and sales for the various sectors of the mining industry and the quarterly surveys of financial and labour statistics conducted by Stats SA. Supplemented by information from the Chamber of Mines regarding the goldmining industry and sample surveys conducted by the SARB. | Base year estimates are extrapolated using appropriate indices of output quantities of various sectors of mining. Information obtained from the Chamber of Mines, the Minerals Bureau, the Department of Minerals and Energy and Stats SA. |
| Manufacturing         | Benchmark years: Periodic Censuses of Manufacturing conducted by Stats SA. Results from the 1993 and 1996 manufacturing censuses are included.  Other years: Monthly data on production and sales of the manufacturing industry, quarterly surveys of financial and labour statistics conducted by Stats SA, supplemented by sample surveys conducted by the SARB.   | Monthly data on production and sales of the manufacturing industry, quarterly surveys of financial and labour statistics conducted by Stats SA, supplemented by sample surveys conducted by the SARB.   | Base year estimates are extrapolated using appropriate indices of output quantities (volume) based on manufacturing sales at constant prices for the various divisions of manufacturing.   |
| Electricity and water | Benchmark and other years: Annual statistics and financial statements obtained from ESKOM, the water boards and local authorities.   | Monthly survey regarding generation and consumption of electricity conducted by Stats SA as well as monthly surveys conducted by the SARB.  | Base year estimates are extrapolated using appropriate indices of output quantities (units of electricity generated and kilo litre water).   |

Table E - Statistical sources and methods used in estimating annual and quarterly value added and GDP at current and at constant prices (continued)

| and GDF at current and at constant prices (continued) |  |   |  |  |  |
|---|--|---|--|--|--|
| Industry  | Annual estimates at current prices   | Quarterly estimates at current prices   | Estimates at constant prices   |  |  |
| Construction  | Benchmark years: Periodic Censuses of Construction conducted by Stats SA. Results from the 1994 construction census are included.  Other years: Extrapolation of the benchmark year esti- mates according to the trend in gross domestic fixed investment of residential and non- residential buildings and construction works as compiled by the SARB. Verified with the monthly survey of building statistics conducted by Stats SA. Labour remuneration is extrapolated according to the quarterly survey of total employment and earnings conducted by Stats SA. | Extrapolation of the benchmark year estimates according to the trend in gross domestic fixed investment of residential and non-residential buildings and construction works as compiled by the SARB. Verified with the monthly survey of building statistics conducted by Stats SA. Labour remuneration is extrapolated according to the quarterly survey of total employment and earnings conducted by Stats SA. | Base year estimates are extrapolated using the trend in real gross domestic fixed investment of residential and non-residential buildings and construction works as well as the monthly survey of building statistics conducted by Stats SA. Verified by cement sales. |  |  |
| Wholesale, retail and motor trade                     | Benchmark years: Periodic Censuses of Wholesale Trade, Commercial Agents and Allied Services; Retail Trade; and Motor Trade and Repair Services, conducted by Stats SA. Annual and quarterly surveys of local authorities conducted by Stats SA. The results of the above-mentioned censuses for 1993 are included. Other years: Monthly surveys of financial (turnover) statistics of wholesale, retail and motor trade and the quarterly survey of total employment and earn- ings conducted by Stats, supplemented by sample surveys conducted by the SARB.       | Monthly surveys of financial (turnover) statistics of wholesale, retail and motor trade and the quarterly survey of total employment and earnings conducted by Stats, supplemented by sample surveys conducted by the SARB.   | Base year estimates are extrapolated using indices for the volume of wholesale, retail and motor trade sales.  |  |  |

Table E - Statistical sources and methods used in estimating annual and quarterly value added and GDP at current and at constant prices (continued)

| Industry                    | Annual estimates at current prices  | Quarterly estimates at current prices  | Estimates at constant prices   |
|-----------------------------|---|--|--|
| Catering and accommodation  | Benchmark years: Periodic Censuses of Catering and Accommodation Services and Licensed Restaurants, conducted by Stats SA. The results of the 1995 census of accommodation services and the 1992 census of restaurants are included.  | Extrapolation according to the trend of retail trade sales and trading statistics for hotels published by Stats SA.  | Base year estimates are extrapolated using changes in indices for room and bed nights sales.                                   |
|                             | Other years: Extrapolation according to the trend of retail trade sales and trading statistics for hotels published by Stats SA.  |  |  |
| Transport and communication | Benchmark and other years: Financial reports of Transnet, Telkom, SA Post Office; annual and quarterly surveys of local authorities conducted by Stats SA. Private transport benchmark estimates are obtained from Censuses of Transport and Allied Services conducted by Stats SA. Estimates for inbetween years of private transport are extrapolated according to the monthly survey of transport of goods and passengers by road and rail conducted by Stats SA.  Supplemented by individual studies such as for the taxi industry, the cellular networks | Financial information from Transnet, Telkom, SA Post Office; annual and quarterly surveys of local authorities conducted by Stats SA.  The monthly survey of transport of goods and passengers by road and rail conducted by Stats SA. Supplemented by individual studies such as for the taxi industry, the cellular networks and the internet service providers.  Supplemented by surveys conducted by the SARB. | Base year estimates are extrapolated using appropriate indices of the volume of services rendered by the various institutions. |

Table E - Statistical sources and methods used in estimating annual and quarterly value added and GDP at current and at constant prices (continued)

| Industry  | Annual estimates at current prices  | Quarterly estimates at current prices   | Estimates at constant prices  |
|---|---|---|---|
| Financial intermediation and insurance  | Benchmark and other years: Annual and quarterly surveys conducted by the SARB among the various institutions in the private sector and information reported by public authorities and public corporations.  | Annual and quarterly surveys conducted by the SARB among the various institutions in the private sector and information reported by public authorities and public corporations. | Base year estimates are extrapolated using appropriate indices, verified by nominal transactions deflated by appropriate price indices.   |
| Real estate (including imputed rent on residential buildings) and business services | Benchmark and other years: Censuses of Business Services and the 1996 Population Census. Supplemented by individual studies such as for car rentals and the security industry.  | The monthly survey of building statistics conducted by Stats SA and monthly price indices of rent. Judgemental estimates for business services.                                 | Base year estimates are extrapolated using an index of the estimated number of houses. For business services various volume indicators as well as price indices are used supplemented by judgemental estimates. |
| Other private services  | Benchmark years: Censuses of Social Services. Results from the 1994 Censuses of Health are included. Other years: Extrapolated by relevant items of private consumption expenditure estimated by the SARB.  | Extrapolated by relevant items of private consumption expenditure estimated by the SARB.  | Nominal values (current prices) deflated by relevant components of the Consumer Price Index (CPI).  |
| General government services   | Benchmark years: Government Financial Statistics (GFS) analysis. Other years: Annual Main Budget of South Africa as published in the Budget Review and annual statistics on the provincial governments and local authorities and extra- budgetary accounts. | Quarterly survey of total<br>employment and earnings<br>of the public sector<br>conducted by Stats SA.  | Base year estimates are extrapolated using an index of employment by general government.  |
| Other producers   | Benchmark and other years: Censuses of relevant social services, such as welfare organisations, supplemented by the 1996 Population Census and annual reports of relevant non-profit institutions.  | Judgmental.   | Nominal values (current prices) deflated by relevant components of the CPI and verified by the GDP deflator.  |

#### **Glossary**

# Annualised percentage change

The annualised percentage change is the growth rate of a given quarter compared with the previous quarter, compounded to an annual rate.

#### **Balancing items**

A balancing item is an accounting construct obtained by subtracting the total value of the entries on one side of an account from the total value of the entries on the other side. Balancing items are not simply devices introduced to ensure that accounts balance. They encapsulate a great deal of information and include some of the most important entries in the accounts, for example value added and operating surplus.

#### **Basic prices**

The basic price is the amount receivable by the producer from the purchaser for a unit of a good or service produced as output *minus* any tax payable *plus* any subsidy receivable on that unit as a consequence of its production or sale. Basic prices exclude any transport charges invoiced separately by the producer. Basic prices is the preferred method of valuing output.

#### Benchmark years

Benchmark years refer to those years in respect of which authoritative and detailed data are available.

## Compensation of employees

Compensation of employees is defined as the total remuneration, in cash or in kind, payable by an employer to an employee in return for work done by the latter during the accounting period. It is recorded on a gross basis, before any deduction for income taxes, pensions, unemployment insurance and other social insurance schemes. It also includes other forms of compensation, namely commissions, tips, bonuses, directors' fees and allowances such as these for holidays and sick leave, as well as military pay and allowances. It excludes employers' social contributions.

#### **Constant prices**

Constant prices is a valuation concept expressed at the prices prevailing during a fixed reference period or base period. Currently, the base period for national accounts estimates at constant prices is 1995, which means that they have been restated at 1995 prices.

#### **Current prices**

A valuation at current prices is expressed at the prices prevailing during the period being referred to.

#### **Enterprise**

An enterprise may be a corporation (a quasi-corporate enterprise is treated as if it is a corporation in the SNA), a non-profit institution or an unincorporated enterprise. Corporate enterprises and non-profit institutions are complete institutional units. An unincorporated enterprise, however, refers to an institutional unit - a household or government unit - only in its capacity as a producer of goods and services. It covers only those activities of the unit which are directed towards the production of goods and services.

#### **Establishment**

An establishment is defined as an enterprise, or part of an enterprise, that is situated at a single location and in which only a single (non-ancillary) productive activity is carried out or in which the principal productive activity accounts for most of the value added.

#### **Factor cost**

Factor cost is a valuation reflecting the cost of the factors of production (labour and capital). It corresponds to the value remaining after all applicable taxes and subsidies have been deducted from market prices.

# Financial services indirectly measured

Financial services indirectly measured (FSIM) is measured in the SNA as the total property income receivable by financial intermediaries minus their total interest payable, excluding the value of any property income receivable from the investment of their own funds. Therefore, income does not arise from financial intermediation.

## GDP at market prices

GDP at market prices equals total gross value added by all industries at basic prices plus taxes on products minus subsidies on products.

## Generation of income account

The generation of income account provides for the distribution of primary incomes to the various institutional sectors. Primary incomes are incomes that accrue to institutional sectors and industries as a consequence of their involvement in processes of production or ownership of assets that may be needed for purposes of production.

#### **Implied deflator**

Implied deflators are also known as variable-weighted or "Paasche" indices (although not strictly of the Paasche type). These price indices are a by-product of the deflation procedure, obtained by dividing a series (e.g. value added) expressed at current prices by the corresponding series at constant prices.

#### **Industries**

Industries are defined in the SNA in the same way as in the Standard Industrial Classification (SIC). An industry consists of a group of establishments engaged in the same or similar kinds of activity.

# **Intermediate** consumption

Intermediate consumption consists of the value of the goods and services consumed as inputs by a process of production, excluding fixed assets. Consumption of fixed assets is recorded as consumption of fixed capital.

### Operating surplus or mixed income

Operating surplus or mixed income is the balancing item in the generation of income account i.e. the value added *minus* compensation of employees payable *minus* taxes on production payable *plus* subsidies receivable.

# Other taxes on production

Other taxes on production consist of taxes on the ownership of land, buildings or other assets used in production or on labour employed, etc. Important examples of other taxes on production are taxes on payroll or work force, stamp duties, business or professional licenses, etc.

#### **Output**

Output is defined in the context of a production account. Production accounts are compiled for establishments or enterprises, and not for processes of production. Therefore, output consists only of those goods or services that are produced within an establishment that become available for use outside that establishment.

#### Percentage change

When using annual data, the percentage change is the growth rate from one year to the next year. For quarterly data, the percentage change is the growth rate of a given quarter compared with the same quarter in the previous year.

#### **Primary industries**

The primary industries include the agriculture, forestry and fishing, mining and quarrying industries.

#### **Production**

The general production boundary is defined as an economic activity (or production) carried out under the control and responsibility of an institutional unit that uses inputs of labour, capital, and goods and services to produce output of goods and services. The production boundary in the 1993 SNA is more restricted than the general production boundary due to the production accounts not being compiled for household activities that produce domestic or personal services for own final consumption within the same household, except for services produced by paid domestic staff.

# Production account for the total economy

The production account is the first in the sequence of accounts compiled for institutional sectors, industries and the total economy. The production account contains three items apart from the balancing item namely output, intermediate consumption and taxes less subsidies on products. The output is recorded under resources on the right-hand side of the account. Intermediate consumption and taxes less subsidies on products is recorded under uses on the left-hand side of the account.

#### Purchaser's price

The purchaser's price is the amount paid by the purchaser, excluding any deductible value added tax (VAT) or similar deductible tax, in order to take delivery of a unit of a good or service at the time and place required by the purchaser. The purchaser's price of a good includes any transport charges paid separately by the purchaser to take delivery at the required time and place.

### Revision of estimates

Revision of the estimates for all components of the national accounts are usually done every five years in conjunction with the rebasing of the estimates at constant prices apart from the revision of estimates for the latest quarters. At such a time the results of censuses that have become available in the meantime and any other additional information sources are incorporated in the estimates.

### **Secondary** industries

The secondary industries include the manufacturing, electricity, water and construction industries.

#### **Subsidies**

Subsidies are transfers from the government to the business sector toward current cost of production . These transfers represent additions to the income of producers from current production.

### System of National Accounts

System of National Accounts (SNA), refers to an internationally-agreed standard system for macro-economic accounts. The latest version is described in the System of National Accounts 1993.

# Taxes on production and imports

Taxes on production and imports are taxes which add to the cost of production which and are likely to be reflected in market prices paid by the purchaser, such as sales and excise taxes, import duties and property taxes. Taxes on production and imports include taxes on products and other taxes on production.

#### Taxes on products

Taxes on products consist of taxes payable on goods and services when they are produced, delivered, sold or otherwise disposed of by their producers. Furthermore, they are payable per unit of a good or service produced. Important examples of taxes on products are excise and import duties and value added tax (VAT).

#### **Tertiary industries**

Tertiary industries include wholesale-, retail- and motor trade; catering and accommodation, transport and communication, finance, real estate and business services, community, social and personal services, general government services, and other producers.

# Value added by industry

Value added measures the value created by production and may be calculated either before or after deducting the consumption of fixed capital on the fixed assets used. Gross value added is defined as the value of output less the value of intermediate consumption. Value added is the balancing item in the production account for an institutional unit or sector, or establishment or industry.

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