

Quarterly National Accounts First Quarter 2008

Introduction

The Central Statistics Office publishes Quarterly National Accounts (QNA) estimates in a series of Economic and Social Indicators since 2005. Besides being one of the requirements for the country to graduate to the Special Data Dissemination Standard (SDDS) of the International Monetary Fund (IMF), quarterly estimates of Gross Domestic Product (GDP) provide users with up-to-date information for monitoring economic cycles and short-term changes.

This issue presents quarterly estimates of GDP for the period 2004 to the first quarter of 2008. Estimates have been worked out using both the production and the expenditure approach, based on latest available data. The production data covering value added at current prices and growth rates by industry group are presented in Tables 1 and 2, and the components of expenditure of GDP in Tables 3 and 4. Data in these tables have not been seasonally adjusted, which partly explains the fluctuations in the series (Figure 1).

Definitions of terminology are given on pages 7 and 8. The data sources and methods used including the method used for seasonal adjustment are described in the Annex.

2. New feature in this issue

For a better understanding of trends and magnitude of changes in the economy, and in the absence of seasonally adjusted data, growth rates presented in Tables 2 and 4 have been worked out to show growths over the corresponding quarter of the previous year (year-on-year growth) so as to exclude changes due to seasonal factors. The use of year-on-year growths in trend analysis is however inadequate as it has the disadvantage of detecting changes in the economic cycles, and particularly turning points with some delays.

For more meaningful trend analysis, some work on seasonal adjustment of quarterly GDP data from the production approach has been done. The derived quarter-to-quarter growth rates for the period 2001 to the first quarter of 2008 together with some analysis are presented in section 6 of this publication. The method used for seasonal adjustment is included in the Annex.

3. Quarterly GDP estimates at current prices

3.1 Overall GDP

Fig 1: Quarterly GDP estimates at current basic prices, Q₁ 2004 – Q₁ 2008

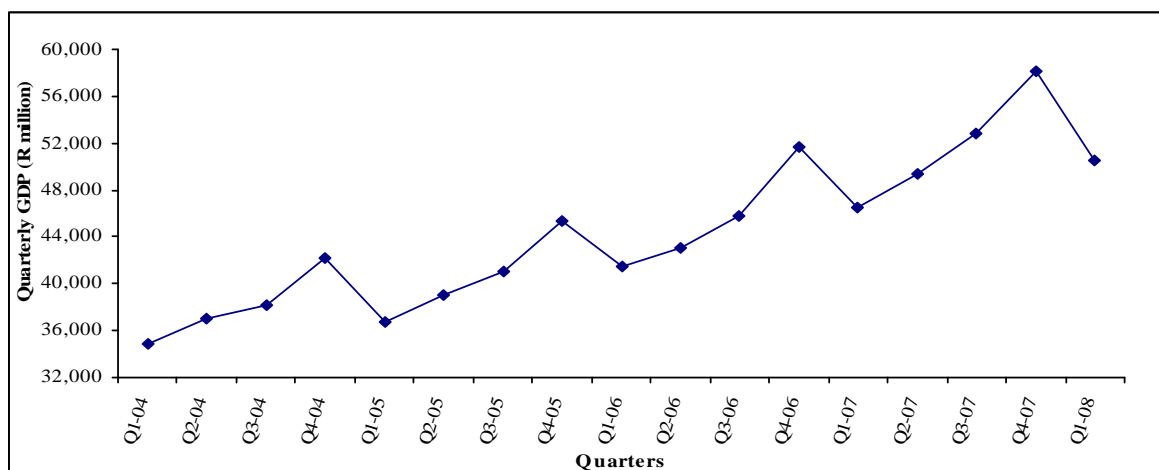


Figure 1 shows the quarterly GDP estimates at basic prices for the period 2004 to the first quarter of 2008. It is observed that throughout the period, the quarterly data follow the same pattern every year. Production is relatively low in the first quarter; it increases gradually in the two subsequent quarters to peak in the last quarter before declining in the first quarter of the following year. This pattern clearly indicates seasonality in the data. Thus, in 2007, GDP at current basic prices which stood at R 46,564 million in the first quarter, increased to R 49,424 million in the second and to R 52,793 million in the third to peak at R 58,203 million in the fourth quarter. It then declined to R 50,465 million in the first quarter of 2008.

The lower GDP figures observed during the first quarters may be due to lower economic activities resulting from temporary closures of firms during the month of January because of New Year festivities. On the other hand, the higher GDP figures during the last quarters could be explained by more activities in “Hotels and restaurants” due to high tourist arrivals, and in “Manufacturing” and “Wholesale and retail trade” to meet the high demand for consumption goods for end of year festivities.

Quarterly data for the years 2004 to 2007 indicate that around 23% of the annual GDP was produced in the first quarters, 24% in the second quarters, 25% in the third quarters and 28% in the fourth quarters.

Quarterly GDP at current basic prices for the first quarter of 2008 is estimated at R 50,465 million compared to R 58,203 million in the previous quarter and to R 46,564 million in the corresponding quarter of 2007.

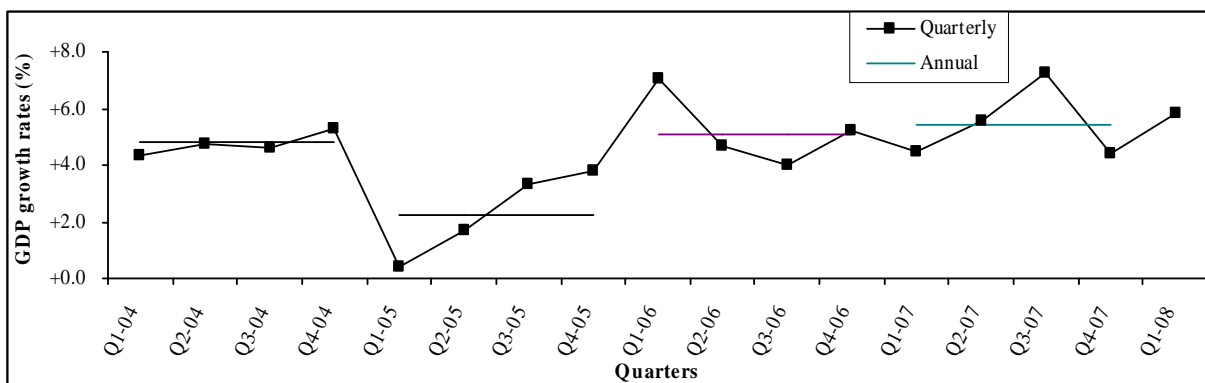
4. Quarterly GDP growth rates (based on unadjusted data) – Table 2

4.1 Growth rates, Q₁2004 – Q₁2008 (year-on-year change)

Table 2 shows year-on-year quarterly growth rates by industry group for the period 2004 to the first quarter of 2008. The rates represent the percentage change in real value added over the same quarter of the previous year and hence exclude changes due to seasonal factors.

Figure 2 shows the year on year quarterly GDP growth rates and the annual rates for the period 2004 to 2007. The annual GDP at basic prices which grew by 4.8% in 2004 declined in 2005 when a growth of only 2.3% was observed. It then recovered with growths of 5.1% and 5.4% in 2006 and 2007 respectively.

Fig. 2: GDP growth rates, quarterly (percentage change over corresponding period of previous year) and annual, Q₁ 2004 – Q₁ 2008



Quarterly data indicate that, after a steady growth during the year 2004, the economy dipped during the first quarter of 2005 with a growth of only 0.4%, before recovering in the following quarters to peak at 7.0% in the first quarter of 2006. This was followed by lower growths of 4.7% and 4.0% during the second and third quarters of 2006 respectively. Thereafter, the quarterly GDP improved constantly to reach 7.3% in the third quarter of 2007 but dropped to 4.4% in the fourth quarter. Information available for the first quarter of 2008 indicates an improvement in the economy with a growth of 5.8%.

4.2 Growth rates, Q₄ 2007 over Q₄ 2006

Based on latest available information, GDP growth for the fourth quarter of 2007 over the corresponding quarter of 2006 has been revised downward to 4.4% from 4.7% as estimated in March 2008. This downward revision is mainly due to lower growths in (i) "Transport, storage and communications" from 8.0% to 6.1%, (ii) "Real estate, renting and business activities" from 7.7% to 7.2%, partly offset by a higher growth of 6.8% in "Electricity, gas and water" instead of 6.2% as estimated earlier.

4.3 Growth rates, Q₁ 2008 over Q₁ 2007

GDP growth rate for the first quarter of 2008 over the corresponding quarter of 2007 is estimated at 5.8%. Growths were registered in all sectors except "Mining and quarrying" (Table 2).

"Agriculture, hunting, forestry and fishing" grew by 3.8% in the first quarter of 2008 as opposed to a decline of 1.5% in the previous quarter. This is due to growths of 4.4% and 3.0% in "Sugarcane" and "Other agriculture" respectively.

"Mining and quarrying" recorded a zero growth in the first quarter of 2008 compared to a negative growth of 1.7% in the previous quarter.

"Manufacturing" registered a low growth of 0.8% after the 0.1% growth for the fourth quarter of 2007. The sub-sectors "Other manufacturing" grew by 8.2%, "Sugar" by 4.4% and "Textile" by 3.8% while a decline of 3.6% was noted in "Food excluding Sugar".

"Electricity, gas and water supply" grew by 4.9% in the first quarter of 2008 lower than the 6.8% growth registered in the fourth quarter of 2007.

"Construction" grew at the rate of 8.9% in the first quarter of 2008 slightly higher than the 8.1% registered in the fourth quarter of 2007.

"Wholesale and retail trade; repair of motor vehicles, motorcycles, personal and household goods" grew by a further 9.9% in the first quarter of 2008, following a growth of 8.3% in the fourth quarter of 2007.

"Hotels and restaurants" grew by 7.0% in the first quarter of 2008, compared to 7.9% in the previous quarter.

"Transport, storage and communications" grew by 8.3% in the first quarter of 2008, higher than the 6.1% growth of the previous quarter.

"Financial intermediation" grew by 8.3% in the first quarter of 2008 compared to 7.0% in the fourth quarter of 2007.

"Real estate, renting and business activities" grew by 8.6% in the first quarter of 2008, higher than the 7.2% growth in the fourth quarter of 2007.

“Public administration and defence; compulsory social security” registered a growth of 1.5% in the first quarter of 2008 after a decline of 1.4% noted in the previous quarter.

“Education” registered a growth of 1.7% in the first quarter of 2008, higher than the 1.1% growth in the fourth quarter of 2007.

“Health and social work” grew by a further 5.5% in the first quarter of 2008 after the growth of 4.2% registered in the fourth quarter of 2007.

“Other community, social and personal service activities and private households with employed persons” continued on an increasing trend with a growth of 9.0% after a growth of 6.7% in the fourth quarter of 2007.

4.4 Contribution of industry groups to GDP growth, Q₁ 2008

The contribution of an industry to GDP growth depends on two factors, namely its share in the economy and the change in its real value added. From Table A and Figure 3, it is observed that the main contributors to the 5.8% growth in GDP during the first quarter of 2008 were “Wholesale and retail trade; repair of motor vehicles, motorcycles, personal and household goods” (1.1 percentage points), “Transport, storage and communications” (1.1 percentage points), “Real estate, renting and business activities” (1.0 percentage point), “Financial intermediation” (0.9 percentage point), “Hotels and restaurants” (0.8 percentage point) and “Construction” (0.6 percentage point).

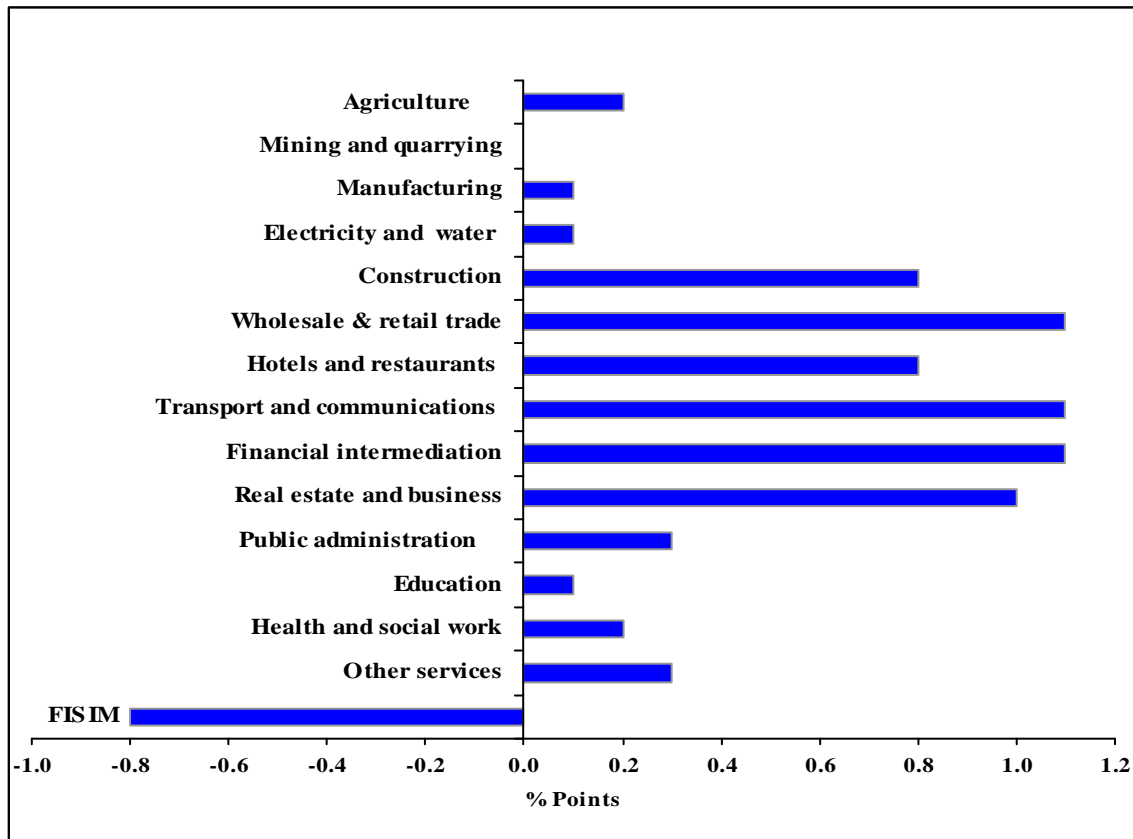
Contributions of the other industry groups ranged from 0.1 to 0.3 percentage point except for “Mining and quarrying” whose contribution was almost nil.

Table A: Contribution of industry groups to GDP growth (percentage point), Q₁ 2006 – Q₁2008

Industry	Contribution to GDP growth								Q1 2008
	Q ₁ 2006	Q ₂ 2006	Q ₃ 2006	Q ₄ 2006	Q ₁ 2007	Q ₂ 2007	Q ₃ 2007	Q ₄ 2007	
Agriculture, hunting, forestry and fishing	0.1	0.2	0.2	-0.3	-0.5	-0.5	-0.6	-0.1	0.2
Mining and quarrying	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
Manufacturing	1.1	0.5	0.8	0.9	0.1	0.8	1.1	0.0	0.1
Electricity, gas and water supply	0.1	0.1	0.1	0.0	0.0	0.0	0.1	0.1	0.1
Construction	-0.1	0.1	0.7	0.6	1.5	1.0	0.5	0.5	0.6
Wholesale & retail trade; repair of motor vehicles, motorcycles, personal and household goods	2.1	1.0	-0.2	0.0	-0.6	0.0	1.7	1.1	1.1
Hotels and restaurants	0.5	0.0	0.2	0.3	1.5	1.6	0.9	0.7	0.8
Transport, storage and communications	1.2	0.7	0.7	1.3	0.8	0.9	1.3	0.7	1.1
Financial intermediation	0.4	0.5	0.8	1.1	1.1	0.6	0.7	0.7	0.9
Real estate, renting and business activities	0.6	0.8	0.6	0.6	0.7	0.8	1.0	0.8	1.0
Public administration and defence; compulsory social security	0.3	0.3	0.0	0.5	0.0	0.2	0.1	-0.1	0.1
Education	0.2	0.2	0.2	0.2	0.1	0.1	0.1	0.1	0.1
Health and social work	0.3	0.5	0.2	0.2	0.2	0.1	0.2	0.1	0.2
Other community, social and personal service activities and private households with employed persons	0.3	0.3	0.2	0.2	0.3	0.3	0.4	0.2	0.3
FISIM	-0.1	-0.5	-0.5	-0.4	-0.7	-0.4	-0.2	-0.4	-0.7
GDP at basic prices	7.0	4.7	4.0	5.2	4.5	5.5	7.3	4.4	5.8

Contribution of an industry to the GDP growth is calculated as the product of its share in the economy and the year on year growth rate.

Fig 3: Contribution of industry groups to GDP growth rate, Q1 2008



5. Quarterly GDP by expenditure

5.1 Quarterly expenditure components at current prices

During the first quarter of 2008, final consumption expenditure, which comprised consumption expenditure of private households and general government, amounted to R 52,186 million, representing 90.0% of the quarterly GDP at market prices. Final consumption of households estimated at R 44,604 million represented 76.9% of the quarterly GDP, and that of general government estimated at R 7,582 million was 13.1% of the GDP (Table 3).

Analysis of quarterly data from 2004 to 2007 shows seasonality in household consumption expenditure with highest consumption occurring during the fourth quarters. During the period 2004 to 2007, it is noted that household consumption expenditure during the fourth quarters represented around 28% of the yearly total, compared to around 24% for the other quarters.

“Exports of goods” is observed to be highest during the fourth quarters while “Exports of services” which comprises mainly tourist earnings and revenue of the national airline from foreign travellers is highest during the first and fourth quarters.

Imports of goods are highest in the fourth quarters, mainly explained by high consumption at the end of the year.

There is no distinct seasonal pattern in the data for general government consumption expenditure, Gross Domestic Fixed Capital Formation (GDFCF) and imports of services.

5.2 Quarterly growth rates of expenditure components, Q1 2008 over Q1 2007

Analysis of year on year quarterly GDP by expenditure shows that in the first quarter of 2008, total final consumption expenditure registered a growth of 3.2%, higher than the 2.5% growth in the fourth quarter (Table 4). The final consumption expenditure of households grew by 3.8% in the first quarter of 2008 compared to 3.2% in the previous quarter and that of general government grew by 0.7% as apposed to a decline of 0.9% in the fourth quarter.

After the low growth of 1.4% in the fourth quarter of 2007, investment picked up with a growth of 5.6% in the first quarter of 2008. This was the net result of a high growth of 12.7% in “Building and Construction work” and a decline of 6.3% in “Machinery and equipment”.

The growth of 12.7% in “Building and construction work” was mainly attributable to a high growth in “Non-residential building” (+36.1%), explained by high investment in hotels, projects under the Integrated Resort Scheme (IRS) and commercial centres, partly offset by a decline in “Residential building” (-8.4%).

The negative growth of 6.3% in “Machinery and equipment” was due to declines in “Other transport equipment” (-21.5%) and in “Other machinery and equipment” (-8.6), partly offset by a growth in “Passenger car” (+13.2%).

Exports of goods and services in real terms grew by 7.8% in the first quarter of 2008 while imports of goods and services grew by 18.8%. The growth in exports of goods and services was due to a high growth in exports of services (+16.7%), partly offset by a contraction in exports of goods (-2.2%). On the other hand, the growth in imports of goods and services was explained by a high growth in imports of goods (+28.1%) and to a minimal increase (+0.5%) in imports of services.

6. Seasonally adjusted quarterly GDP

Table B and figure 4 below compare the year-on-year quarterly GDP growth rates based on unadjusted data and the quarter-to-quarter growth rates based on seasonally adjusted data for the period 2001 to the first quarter of 2008.

As indicated earlier, while the year-on-year growth rates can be used to analyse trends, the quarter to quarter growth rates provide a more meaningful trend analysis with the advantage of being able to detect trend changes much earlier. For example, the year-on-year growth rates indicate a slowing down of the economy during the period third quarter of 2001 to the second quarter of 2002 and a recovery during the third quarter of 2002. On the other hand, the quarter-to-quarter growth rates based on seasonally adjusted data had already detected a contraction in the economy as from the second quarter of 2001 and a recovery as from the second quarter of 2002.

Similarly, the year-on-year growth rates show a sharp decline in economic activities during the first quarter of 2005 and a slow pick up in the second quarter while the quarter-to-quarter data reveal slowing down of the economy as early as from the second quarter of 2004.

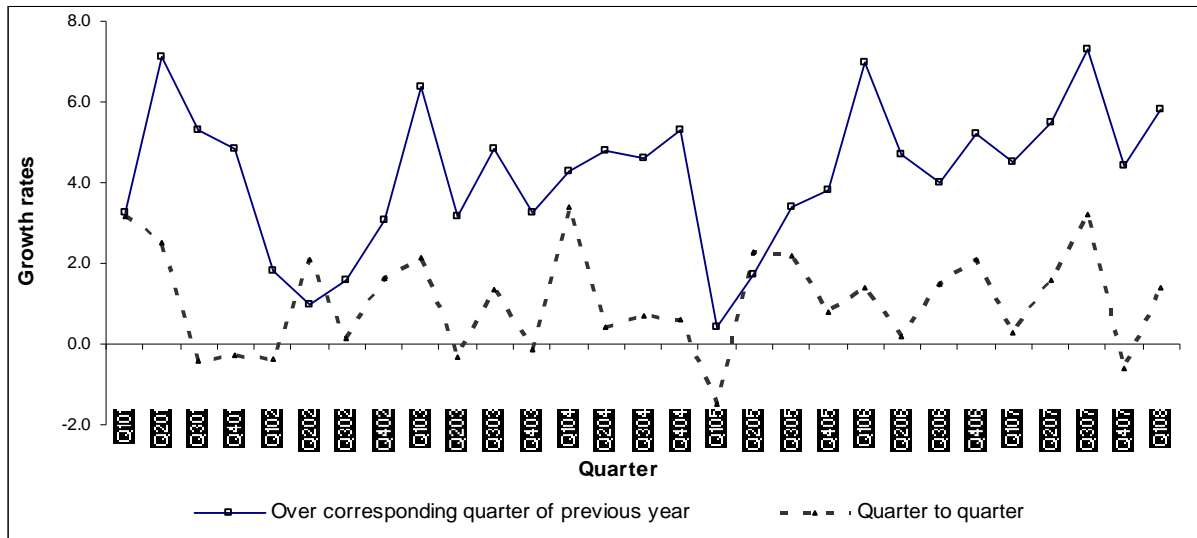
Quarter to quarter GDP growth rates based on seasonally adjusted data show that the economy grew by 1.4% in the first quarter of 2008, compared to a decrease of 0.6% in the fourth quarter of 2007, and a growth of 3.2% in the third quarter of 2007.

Users may consult the website of the CSO (<http://statsmauritius.gov.mu>) for seasonally adjusted growth rates by industry group.

Table B: Quarterly GDP growth rates, Q₁ 2001 – Q₁ 2008

Quarter	GDP growth rates (%) (Over corresponding quarter of previous year)	GDP growth rates (%) (Quarter to quarter)	Quarter	GDP growth rates (%) (Over corresponding quarter of previous year)	GDP growth rates (%) (Quarter to quarter)
Q101	3.3	3.1	Q105	0.4	-1.5
Q201	7.1	2.5	Q205	1.7	2.3
Q301	5.3	-0.4	Q305	3.4	2.2
Q401	4.8	-0.3	Q405	3.8	0.8
Q102	1.8	-0.4	Q106	7.0	1.4
Q202	1.0	2.1	Q206	4.7	0.2
Q302	1.6	0.1	Q306	4.0	1.5
Q402	3.1	1.6	Q406	5.2	2.1
Q103	6.4	2.1	Q107	4.5	0.3
Q203	3.2	-0.3	Q207	5.5	1.6
Q303	4.8	1.3	Q307	7.3	3.2
Q403	3.3	-0.1	Q407	4.4	-0.6
Q104	4.3	3.4	Q108	5.8	1.4
Q204	4.8	0.4			
Q304	4.6	0.7			
Q404	5.3	0.6			

Fig. 4: GDP growth rates (over corresponding quarter of previous year and quarter to quarter), Q₁ 2001 – Q₁ 2008.



Definition of terminology used

1. Gross Domestic Product (GDP)

GDP is the aggregate money value of all goods and services produced within a country out of economic activity during a specified period before provision for the consumption of fixed capital.

2. GDP at basic prices

GDP at basic prices is obtained as the difference between output and intermediate consumption whereby output is valued at basic prices and intermediate consumption at purchasers' prices.

The basic price is the amount receivable by the producer exclusive of taxes on products and inclusive of subsidies on products. The equivalent for imported products is the c.i.f. value, i.e. the value at the border of the importing country.

The purchasers' price is the amount payable by the purchaser exclusive of deductible taxes on products (e.g. deductible value added tax).

3. GDP at market prices

GDP at market prices is equal to the GDP at basic prices plus taxes (net of subsidies) on products.

4. Final Consumption expenditure

Final Consumption expenditure refers to the expenditure made on goods and services by households and government.

5. Gross Domestic Fixed Capital Formation (GDFCF)

GDFCF is the net additions to the physical assets of the country in a year. These consist mainly of investment in buildings, plants, machinery and transport equipment, all valued at market prices.

6. Exports and Imports of goods and services

Exports and imports of goods are measured on an f.o.b. basis. Insurance and freight, which represent the difference between the c.i.f. and f.o.b. values of imports of goods, are recorded as import of services.

Exports and imports of goods are compiled according to the General Trade System, using the national boundary as the statistical frontier. All goods entering the country are recorded in imports and goods leaving the country in exports.

7. Goods-producing industries

Goods-producing industries comprise "Agriculture, hunting, forestry and fishing", "Mining and quarrying", "Manufacturing", "Electricity, gas and water supply" and "Construction".

8. Services industries

Services industries include “Wholesale and retail trade; repair of motor vehicles, motorcycles, personal and household goods”, “Hotels and restaurants”, “Transport, storage, communications”, “Financial intermediation”, “Real estate, renting and business services”, “Public administration and defence; compulsory social security”, “Education”, “Health and social work”, “Other community, social and personal service activities and private households with employed persons”.

9. Change in inventories

Change in inventories includes the value of the physical change in inventories of raw materials, work in progress, and finished goods held by producers.

10. Financial intermediation services indirectly measured (FISIM)

FISIM is obtained as the difference between interest received and interest paid by banks excluding those received on own funds. As it is difficult to allocate FISIM to the intermediate consumption of different industries, the total value of FISIM is imputed to a nominal industry with negative value added.

Note: Figures in some tables may not add up to the total published due to rounding off.

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Table 1 - Quarterly Gross Domestic Product by industry group at current basic prices, Q₁ 2004 - Q₁ 2008

(R million)

	Year (Cumulated 4 quarters)		2004 ¹				2005 ¹			
	2004	2005	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Agriculture, hunting, forestry and fishing	9,829	9,790	2,124	2,134	2,654	2,917	2,133	2,036	2,654	2,968
Sugarcane	5,261	5,212	1,108	1,014	1,487	1,652	1,098	1,005	1,473	1,636
Other	4,568	4,578	1,016	1,120	1,167	1,265	1,035	1,031	1,181	1,331
Mining and quarrying	87	88	19	19	23	27	21	22	21	23
Manufacturing	31,942	32,187	6,832	7,827	7,900	9,383	6,587	7,783	8,050	9,767
Sugar	1,624	1,609	250	338	494	543	247	335	489	538
Food (exc sugar)	7,283	8,310	1,559	1,762	1,807	2,155	1,733	1,971	2,059	2,547
Textile	12,288	10,885	2,866	3,339	2,968	3,115	2,411	2,864	2,654	2,956
Other	10,747	11,383	2,158	2,387	2,632	3,570	2,196	2,612	2,848	3,726
Electricity , gas and water supply	3,546	3,355	889	876	857	924	944	813	804	794
Construction	8,835	9,099	1,913	2,472	2,194	2,256	2,029	2,419	2,246	2,405
Wholesale & retail trade; repair of motor vehicles, motorcycles, personal and household goods	17,327	19,571	3,600	4,078	4,394	5,254	3,838	4,776	5,127	5,829
Wholesale and retail trade	16,350	18,446	3,356	3,834	4,150	5,010	3,557	4,495	4,846	5,548
Other	977	1,125	244	244	244	244	281	281	281	281
Hotels and restaurants	11,296	12,423	3,119	2,579	2,346	3,254	3,414	2,633	2,599	3,778
Transport , storage and communications	19,681	20,447	4,799	4,398	5,003	5,482	4,933	4,703	5,249	5,563
Financial intermediation	14,876	16,766	3,316	3,851	3,763	3,946	3,625	4,291	4,312	4,539
Insurance	4,200	4,675	827	957	1,188	1,228	915	1,050	1,333	1,377
Banks	8,991	10,141	2,082	2,418	2,148	2,342	2,247	2,700	2,510	2,685
Other	1,685	1,950	407	476	427	376	463	541	469	476
Real estate, renting and business activities	14,679	16,609	3,575	3,656	3,663	3,786	4,078	4,157	4,116	4,258
Owner occupied dwellings	7,247	8,177	1,744	1,786	1,846	1,872	1,994	2,022	2,066	2,096
Other	7,432	8,432	1,831	1,870	1,817	1,914	2,084	2,135	2,050	2,163
Public administration and defence; compulsory social security	10,579	11,460	2,568	2,704	2,679	2,629	2,732	2,901	2,955	2,872
Education	7,086	7,780	1,670	1,778	1,856	1,781	1,837	1,975	2,007	1,960
Health and social work	5,087	5,580	1,230	1,267	1,338	1,251	1,368	1,388	1,446	1,378
Other community, social and personal service activities and private households with employed persons	5,390	6,007	1,104	1,363	1,524	1,399	1,221	1,515	1,681	1,590
FISIM	-7,818	-8,991	-1,870	-1,911	-1,960	-2,078	-2,087	-2,315	-2,212	-2,377
Gross Domestic Product at basic prices	152,422	162,171	34,888	37,091	38,232	42,211	36,673	39,096	41,056	45,347
Taxes on products (net of subsidies)	23,173	23,177	5,163	5,689	5,722	6,600	5,445	5,863	5,471	6,398
Gross Domestic Product at market prices	175,594	185,349	40,051	42,779	43,953	48,811	42,118	44,959	46,526	51,745
Export Oriented Enterprises	13,140	12,108	3,138	3,487	3,211	3,304	2,671	3,267	3,089	3,081

1/ revised estimates

Table 1 - (cont'd) Quarterly Gross Domestic Product by industry group at current basic prices, Q₁ 2004 - Q₁ 2008

(R million)

	Year (Cumulated 4 quarters)		2006 ¹				2007 ¹				2008
	2006	2007	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1 ²
Agriculture, hunting, forestry and fishing	10,130	9,785	2,226	2,143	2,802	2,959	2,102	2,015	2,675	2,993	2,315
Sugarcane	5,137	4,571	1,082	991	1,452	1,613	960	882	1,294	1,435	1,005
Other	4,993	5,214	1,144	1,152	1,350	1,347	1,142	1,133	1,381	1,558	1,310
Mining and quarrying	101	96	23	23	29	26	22	22	25	28	23
Manufacturing	36,357	41,061	7,350	8,712	9,207	11,087	8,277	9,909	10,583	12,291	6,759
Sugar	1,586	1,411	244	330	482	530	217	294	429	471	226
Food (exc sugar)	10,137	12,301	2,080	2,482	2,469	3,106	2,274	3,154	3,003	3,870	1,635
Textile	11,974	13,435	2,535	3,037	3,011	3,391	2,966	3,541	3,442	3,487	2,538
Other	12,659	13,914	2,491	2,863	3,245	4,060	2,820	2,921	3,709	4,464	2,359
Electricity, gas and water supply	3,521	3,690	908	811	907	895	924	829	913	1,024	1,063
Construction	10,205	13,145	2,094	2,553	2,676	2,883	3,042	3,403	3,242	3,457	3,710
Wholesale & retail trade; repair of motor vehicles, motorcycles, personal and household goods	22,534	25,599	4,906	5,482	5,607	6,539	5,059	6,040	6,831	7,669	6,200
Wholesale and retail trade	21,246	24,137	4,584	5,160	5,285	6,217	4,694	5,675	6,465	7,303	5,780
Other	1,288	1,461	322	322	322	322	365	365	365	365	420
Hotels and restaurants	15,500	19,517	4,381	3,084	3,182	4,854	5,184	4,250	4,114	5,969	5,790
Transport, storage and communications	22,172	24,783	5,450	4,997	5,612	6,112	6,123	5,621	6,418	6,622	6,688
Financial intermediation	18,850	21,607	4,017	4,455	4,945	5,434	4,855	5,104	5,615	6,032	5,800
Insurance	5,154	5,700	1,025	1,163	1,475	1,491	1,140	1,278	1,656	1,627	1,250
Banks	11,477	13,317	2,487	2,731	2,870	3,389	3,159	3,198	3,299	3,661	3,900
Other	2,219	2,590	505	560	600	554	556	629	661	745	650
Real estate, renting and business activities	19,071	22,614	4,552	4,729	4,800	4,990	5,332	5,685	5,725	5,872	6,434
Owner occupied dwellings	9,102	10,675	2,182	2,215	2,334	2,371	2,467	2,670	2,784	2,755	2,969
Other	9,969	11,939	2,370	2,514	2,466	2,619	2,865	3,015	2,941	3,117	3,465
Public administration and defence; compulsory social security	12,199	12,674	2,931	3,107	3,010	3,152	2,998	3,290	3,163	3,224	3,157
Education	8,440	9,137	1,991	2,139	2,164	2,147	2,163	2,326	2,355	2,293	2,335
Health and social work	6,266	6,824	1,522	1,604	1,578	1,562	1,672	1,697	1,752	1,704	1,840
Other community, social and personal service activities and private households with employed persons	6,784	7,981	1,372	1,709	1,901	1,803	1,571	2,010	2,237	2,164	1,852
FISIM	-10,117	-11,528	-2,260	-2,472	-2,598	-2,788	-2,761	-2,777	-2,853	-3,137	-3,500
Gross Domestic Product at basic prices	182,013	206,984	41,463	43,074	45,822	51,654	46,564	49,424	52,793	58,203	50,465
Taxes on products (net of subsidies)	24,319	28,549	5,985	5,978	5,735	6,622	6,538	6,688	6,916	8,407	7,547
Gross Domestic Product at market prices	206,332	235,532	47,448	49,052	51,557	58,275	53,101	56,112	59,709	66,610	58,012
Export Oriented Enterprises	13,694	15,584	2,813	3,611	3,560	3,709	3,351	4,118	4,060	4,055	3,389

1/ revised estimates 2/ first estimates

**Table 2 - Gross Domestic Product-sectoral growth rates (% over corresponding period of previous year),
Q₁ 2004 - Q₁ 2008**

	Annual growth rate		2004 ¹				2005 ¹			
	2004	2005	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Agriculture, hunting, forestry and fishing	+8.1	-5.4	+9.5	+14.8	+8.5	+2.4	-7.2	-8.1	-7.3	-0.3
Sugarcane	+10.6	-9.2	+10.6	+10.6	+10.6	+10.6	-9.2	-9.2	-9.2	-9.2
Other	+5.4	-1.1	+8.1	+17.9	+5.9	-5.9	-4.8	-7.0	-4.6	+10.3
Mining and quarrying	+0.4	-3.6	-9.7	+1.9	+9.7	+0.0	+7.7	+9.1	-9.7	-16.1
Manufacturing	+0.6	-5.5	+4.2	+0.8	-3.3	+0.5	-11.0	-6.0	-3.9	-1.8
Sugar	+10.6	-9.2	+10.6	+10.6	+10.6	+10.6	-9.2	-9.2	-9.2	-9.2
Food (exc sugar)	+4.4	+2.1	+4.8	+11.2	+2.8	+0.1	-3.1	+0.8	+2.2	+7.3
Textile	-7.2	-14.7	-0.5	-3.7	-12.7	-11.2	-21.0	-16.3	-13.3	-8.1
Other	+6.6	+0.4	+6.1	-4.4	+5.8	+17.0	-4.8	+5.2	+6.3	-4.0
Electricity , gas and water supply	+4.0	+3.8	+4.2	+5.4	+2.6	+3.7	+1.5	+2.5	+6.6	+5.2
Construction	+0.5	-4.4	+12.7	-9.2	+3.7	-0.1	-2.8	-9.6	-4.3	-0.3
Wholesale & retail trade; repair of motor vehicles, motorcycles, personal and household goods	+5.7	+5.6	-7.0	+13.0	+8.3	+8.2	-1.6	+8.2	+9.5	+5.5
Wholesale and retail trade	+5.5	+5.5	-7.8	+13.2	+8.3	+8.2	-2.1	+8.3	+9.5	+5.3
Other	+8.5	+8.0	+8.8	+8.9	+8.7	+7.7	+6.7	+7.2	+8.6	+9.7
Hotels and restaurants	+2.4	+5.6	+2.4	-3.3	+2.0	+6.9	+6.5	+2.4	+5.2	+7.2
Transport , storage and communications	+8.1	+7.7	+9.6	+6.8	+7.6	+8.5	+7.8	+9.7	+7.4	+6.3
Financial intermediation	+4.3	+5.4	+2.9	+7.0	+0.4	+6.7	+1.3	+4.2	+8.7	+7.5
Insurance	+5.0	+5.0	+3.6	+4.6	+5.8	+6.1	+4.3	+5.1	+6.1	+4.6
Banks	+2.0	+4.8	+2.1	+2.9	-4.1	+7.3	-1.4	+3.1	+10.8	+6.9
Other	+15.9	+9.5	+6.3	+38.7	+13.2	+7.0	+8.1	+7.9	+5.5	+17.5
Real estate, renting and business activities	+6.7	+6.5	+7.4	+7.8	+5.6	+5.7	+6.1	+6.3	+6.4	+7.0
Owner occupied dwellings	+5.3	+4.8	+5.4	+5.3	+5.3	+5.2	+4.9	+4.7	+4.8	+4.9
Other	+8.0	+8.1	+9.6	+10.4	+6.0	+6.1	+7.3	+7.9	+8.1	+9.1
Public administration and defence; compulsory social security	+4.3	+5.3	-2.1	+3.7	+8.1	+8.0	+4.4	+5.0	+7.8	+4.2
Education	+6.4	+6.1	+3.4	+4.3	+9.3	+8.4	+6.3	+7.7	+4.6	+6.1
Health and social work	+7.0	+6.2	+5.8	+5.8	+11.0	+5.1	+7.8	+7.2	+4.5	+5.4
Other community, social and personal service activities and private households with employed persons	+7.6	+7.2	+6.9	+9.1	+9.6	+4.5	+5.3	+5.9	+6.9	+10.3
FISIM	-0.4	+7.3	-1.2	+0.8	-1.1	-0.2	+3.1	+12.7	+7.5	+6.1
Gross Domestic Product at basic prices	+4.8	+2.3	+4.3	+4.8	+4.6	+5.3	+0.4	+1.7	+3.4	+3.8
Taxes on products (net of subsidies)	+12.3	-5.5	+4.1	+25.0	+16.1	+6.4	-5.1	-2.5	-10.7	-3.8
Gross Domestic Product at market prices	+5.8	+1.2	+4.3	+6.7	+5.7	+5.4	-0.2	+1.2	+1.8	+3.0
Export Oriented Enterprises	-6.8	-12.3	+3.2	-5.6	-12.7	-11.0	-21.2	-9.8	-8.4	-10.0

1/ revised estimates

Table 2 (cont'd) - Gross Domestic Product-sectoral growth rates
 (% over corresponding period of previous year), Q₁ 2004 - Q₁ 2008

	Annual growth rate		2006 ¹				2007 ¹				2008
	2006	2007	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1 ²
Agriculture, hunting, forestry and fishing	+0.6	-7.4	+1.1	+4.0	+2.9	-4.0	-10.1	-10.9	-9.3	-1.5	+3.8
Sugarcane	-2.9	-13.6	-2.9	-2.9	-2.9	-2.9	-13.6	-13.6	-13.6	-13.6	+4.4
Other	+4.5	-1.1	+4.9	+9.4	+9.0	-3.1	-5.3	-7.8	-3.6	+10.0	+3.0
Mining and quarrying	+9.1	-9.1	+7.9	+0.7	+26.3	+2.6	-8.0	-3.6	-21.7	-1.7	0.0
Manufacturing	+4.0	+2.2	+5.9	+2.7	+4.1	+3.8	+0.5	+3.9	+5.6	+0.1	+0.8
Sugar	-2.9	-13.6	-2.9	-2.9	-2.9	-2.9	-13.6	-13.6	-13.6	-13.6	+4.4
Food (exc sugar)	+9.6	+4.0	+12.3	+13.3	+7.2	+6.6	-5.1	+7.6	+4.5	+7.3	-3.6
Textile	+2.9	+8.5	-0.1	-1.1	+6.2	+6.5	+7.2	+12.0	+11.9	+3.2	+3.8
Other	+1.8	-3.1	+4.2	-1.2	+1.4	+2.9	+2.8	-8.2	+0.4	-6.1	+8.2
Electricity , gas and water supply	+4.0	+3.1	+3.7	+5.3	+5.7	+1.6	+0.8	+1.6	+3.4	+6.8	+4.9
Construction	+5.2	+15.2	-1.3	+0.9	+10.2	+10.7	+30.2	+17.9	+8.0	+8.1	+8.9
Wholesale & retail trade; repair of motor vehicles, motorcycles, personal and household goods	+5.5	+4.5	+19.9	+7.6	-1.5	+0.2	-5.3	-0.2	+14.1	+8.3	+9.9
Wholesale and retail trade	+5.4	+4.4	+20.6	+7.6	-1.9	0.0	-6.1	-0.5	+14.4	+8.4	+10.0
Other	+7.0	+6.7	+8.7	+9.2	+5.3	+4.7	+6.4	+5.0	+8.4	+7.1	+7.0
Hotels and restaurants	+3.5	+14.0	+6.1	-0.2	+3.2	+4.1	+15.1	+22.7	+13.6	+7.9	+7.0
Transport , storage and communications	+7.4	+7.8	+8.5	+5.8	+5.8	+9.3	+6.6	+8.0	+10.9	+6.1	+8.3
Financial intermediation	+7.0	+7.5	+4.5	+4.2	+8.0	+11.1	+11.9	+6.6	+5.2	+7.0	+8.3
Insurance	+5.0	+5.1	+5.0	+4.8	+5.5	+4.7	+5.2	+4.7	+5.1	+5.5	+5.0
Banks	+7.1	+7.9	+4.3	+4.5	+6.3	+12.8	+14.0	+6.4	+5.3	+6.9	+9.1
Other	+11.0	+11.2	+4.9	+2.0	+21.3	+17.5	+11.3	+10.9	+11.3	+11.2	+11.3
Real estate, renting and business activities	+6.5	+7.6	+6.0	+7.6	+6.4	+6.4	+6.5	+7.7	+9.0	+7.2	+8.6
Owner occupied dwellings	+4.4	+4.9	+4.5	+4.5	+4.4	+4.4	+2.1	+6.9	+6.5	+4.4	+6.9
Other	+8.5	+10.0	+7.4	+10.7	+8.4	+8.3	+10.7	+8.4	+11.3	+9.7	+10.2
Public administration and defence; compulsory social security	+4.0	+0.5	+4.1	+4.0	+0.1	+7.8	-0.7	+2.9	+1.2	-1.4	+1.5
Education	+4.1	+2.5	+3.6	+3.5	+3.7	+5.6	+3.2	+3.1	+2.8	+1.1	+1.7
Health and social work	+7.9	+4.6	+7.0	+13.0	+4.5	+6.8	+5.8	+2.1	+6.4	+4.2	+5.5
Other community, social and personal service activities and private households with employed persons	+6.5	+8.0	+8.6	+7.7	+5.4	+5.0	+8.0	+8.5	+8.8	+6.7	+9.0
FISIM	+6.9	+7.5	+2.6	+8.5	+9.3	+6.9	+13.6	+6.6	+3.5	+7.0	+12.4
Gross Domestic Product at basic prices	+5.1	+5.4	+7.0	+4.7	+4.0	+5.2	+4.5	+5.5	+7.3	+4.4	+5.8
Taxes on products (net of subsidies)	-3.8	+5.5	+2.9	-6.7	-5.2	-5.6	-5.6	-0.9	+12.5	+15.3	+26.6
Gross Domestic Product at market prices	+3.9	+5.4	+6.6	+3.4	+3.1	+4.1	+3.5	+4.9	+7.7	+5.4	+7.7
Export Oriented Enterprises	+4.6	+8.0	+1.3	+1.4	+6.2	+9.4	+5.8	+8.8	+11.7	+5.5	+7.5

1/ revised estimates 2/ first estimates

Table 3 - Quarterly expenditure on Gross Domestic Product at current prices, Q₁ 2004 - Q₁ 2008

(R million)

	Year (Cumulated 4 quarters)		2004 ¹				2005 ¹			
	2004	2005	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Final consumption expenditure	136,880	154,715	32,427	32,734	33,949	37,770	36,615	37,348	37,752	43,000
Households	111,837	127,349	26,379	26,380	27,767	31,310	30,138	30,286	30,998	35,927
General Government	25,043	27,367	6,047	6,354	6,182	6,460	6,477	7,063	6,753	7,073
Gross domestic fixed capital formation	38,002	39,731	8,343	10,140	9,724	9,796	8,580	10,917	10,500	9,734
A. Building & Construction work	23,042	23,489	4,986	6,453	5,732	5,872	5,279	6,222	5,810	6,177
Residential building	7,911	7,628	2,000	1,899	2,301	1,711	1,764	1,257	2,328	2,279
Non residential building	10,174	9,627	1,990	2,835	2,456	2,892	2,508	2,577	2,320	2,222
Other construction work	4,957	6,234	995	1,718	975	1,269	1,007	2,388	1,163	1,677
B. Machinery & equipment	14,960	16,242	3,357	3,687	3,992	3,924	3,300	4,695	4,690	3,557
Passenger car	2,580	2,327	483	531	886	680	518	631	563	616
Other transport equipment	1,728	1,866	296	635	397	400	295	586	526	459
<i>Other transport equipment (excluding aircraft & marine vessel)</i>	<i>1,509</i>	<i>1,746</i>	<i>296</i>	<i>416</i>	<i>397</i>	<i>400</i>	<i>295</i>	<i>466</i>	<i>526</i>	<i>459</i>
Other machinery and equipment	10,652	12,049	2,578	2,521	2,709	2,844	2,488	3,478	3,601	2,482
Change in inventories	4,877	2,029	-1,371	2,788	1,108	2,353	-3,351	2,893	1,445	1,042
Exports of goods and services	94,859	110,940	22,617	21,167	24,544	26,531	25,155	26,454	28,473	30,858
Goods (f.o.b)	54,905	63,219	12,222	12,375	15,574	14,734	12,909	14,640	17,865	17,805
Services	39,954	47,721	10,395	8,792	8,970	11,797	12,246	11,814	10,608	13,053
Less Imports of goods and services	99,024	122,067	21,964	24,049	25,372	27,639	24,880	32,654	31,643	32,890
Goods (f.o.b)	70,911	86,734	15,015	17,518	18,218	20,160	17,025	22,797	23,114	23,798
Services	28,113	35,333	6,949	6,531	7,154	7,479	7,855	9,857	8,529	9,092
Gross Domestic Product at market prices	175,594	185,349	40,051	42,779	43,953	48,811	42,118	44,959	46,526	51,745

1/ revised estimates

Table 3 (cont'd) - Quarterly expenditure on Gross Domestic Product at current prices, Q₁ 2004 - Q₄ 2008

(R million)

	Year (Cumulated 4 quarters)		2006 ¹				2007 ¹				2008
	2006	2007	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1 ²
Final consumption expenditure	174,845	196,533	41,412	41,998	42,860	48,575	46,503	47,148	48,352	54,530	52,186
Households	145,491	165,789	34,407	34,283	35,861	40,940	39,207	39,066	40,864	46,652	44,604
General Government	29,355	30,744	7,005	7,715	6,999	7,635	7,295	8,082	7,488	7,878	7,582
Gross domestic fixed capital formation	50,049	59,170	8,854	11,336	12,225	17,634	12,289	13,821	14,723	18,337	14,325
A. Building & Construction work	26,705	34,903	5,438	6,737	6,972	7,557	8,069	9,123	8,585	9,126	10,177
Residential building	8,972	10,579	1,984	2,130	2,391	2,467	2,911	2,294	2,550	2,824	2,996
Non residential building	10,666	17,794	1,907	2,342	3,035	3,382	3,577	4,542	4,791	4,884	5,431
Other construction work	7,067	6,530	1,547	2,266	1,546	1,708	1,581	2,287	1,244	1,419	1,750
B. Machinery & equipment	23,344	24,267	3,416	4,599	5,253	10,077	4,220	4,698	6,137	9,211	4,149
Passenger car	2,497	3,406	616	649	595	638	733	786	848	1,039	870
Other transport equipment	7,620	4,948	480	509	452	6,180	530	591	656	3,171	432
<i>Other transport equipment (excluding aircraft & marine vessel)</i>	<i>1,945</i>	<i>2,433</i>	<i>480</i>	<i>509</i>	<i>452</i>	<i>505</i>	<i>530</i>	<i>591</i>	<i>656</i>	<i>656</i>	<i>432</i>
Other machinery and equipment	13,227	15,913	2,320	3,441	4,207	3,259	2,957	3,321	4,634	5,001	2,847
Change in inventories	4,739	3,511	-1,420	2,287	2,123	1,749	-3,300	1,412	5,092	307	-987
Exports of goods and services	127,128	138,236	30,425	28,143	31,106	37,454	32,622	31,811	32,952	40,851	33,250
Goods (f.o.b)	74,037	69,482	15,933	17,356	19,137	21,611	15,460	16,547	17,410	20,065	14,311
Services	53,091	68,754	14,492	10,787	11,969	15,843	17,162	15,264	15,542	20,786	18,939
Less Imports of goods and services	150,429	161,917	31,823	34,712	36,757	47,137	35,012	38,080	41,410	47,415	40,762
Goods (f.o.b)	108,569	113,664	22,090	25,490	26,123	34,866	23,002	26,837	29,458	34,367	28,924
Services	41,860	48,253	9,733	9,222	10,634	12,271	12,010	11,243	11,952	13,048	11,838
Gross Domestic Product at market prices	206,332	235,532	47,448	49,052	51,557	58,275	53,101	56,112	59,709	66,610	58,012

1/ revised estimates 2/ first estimates

Table 4 - Expenditure on GDP - Growth rates (% over corresponding period of previous year), Q₁ 2004 - Q₁ 2008

	Annual growth rate		2004 ¹				2005 ¹			
	2004	2005	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Final consumption expenditure	+7.2	+7.1	+5.1	+7.2	+7.5	+8.8	+8.2	+6.3	+7.5	+6.4
Households	+7.8	+7.3	+6.1	+9.2	+7.1	+8.7	+9.1	+5.9	+7.9	+6.4
General Government	+4.6	+6.1	+1.2	-0.1	+9.4	+8.8	+4.4	+8.0	+5.8	+6.0
Gross domestic fixed capital formation	+2.2	-1.9	+1.4	-0.6	+8.3	+0.3	-6.6	+1.0	+2.9	-4.7
<i>A. Building & Construction work</i>	<i>-0.3</i>	<i>-5.3</i>	<i>+13.4</i>	<i>-10.9</i>	<i>+3.2</i>	<i>-0.9</i>	<i>-2.8</i>	<i>-10.8</i>	<i>-5.1</i>	<i>-1.5</i>
Residential building	-2.3	-10.5	+16.6	-4.1	-6.7	-12.3	-18.8	-38.5	-5.1	+25.1
Non residential building	+20.1	-12.1	+43.0	+4.9	+26.9	+18.4	+15.4	-16.1	-11.8	-28.2
Other construction work	-24.2	+16.8	-22.8	-32.8	-15.3	-17.3	-7.0	+28.6	+11.8	+23.9
<i>B. Machinery & equipment</i>	<i>+6.2</i>	<i>+3.4</i>	<i>-11.2</i>	<i>+22.5</i>	<i>+15.9</i>	<i>+2.1</i>	<i>-11.8</i>	<i>+20.5</i>	<i>+13.6</i>	<i>-9.3</i>
Passenger car	+39.5	-14.1	+12.0	+19.3	+92.8	+33.3	-1.5	+11.9	-39.3	-11.0
Other transport equipment	-40.3	+2.8	-77.9	+44.5	-38.4	-8.0	-6.0	-9.7	+29.3	+12.7
<i>Other transport equipment (excluding aircraft & marine vessel)</i>	-16.3	+10.1	-2.2	-1.5	-38.4	-8.0	-6.0	+9.1	+29.3	+12.7
Other machinery and equipment	+14.0	+7.7	+27.9	+18.7	+15.8	-2.2	-14.4	+29.9	+29.5	-12.3
Exports of goods and services	-0.3	+10.6	+4.9	-0.6	-2.3	-2.8	+1.2	+18.8	+10.8	+12.5
Goods (f.o.b)	-3.5	+8.9	-1.2	-1.6	-2.6	-7.9	-3.9	+12.4	+9.5	+16.9
Services	+4.3	+13.0	+12.9	+1.0	-1.7	+4.4	+7.1	+27.8	+13.0	+7.1
Less Imports of goods and services	+2.8	+6.4	+0.8	+10.5	+0.9	+0.1	-7.9	+20.0	+7.7	+5.6
Goods (f.o.b)	+3.9	+5.5	-4.1	+15.3	+2.7	+3.2	-7.8	+15.1	+9.5	+4.7
Services	+0.1	+8.4	+13.4	-0.7	-3.5	-7.7	-8.1	+33.7	+3.1	+8.2

1/ revised estimates

**Table 4 (cont'd) - Expenditure on GDP - Growth rates (% over corresponding period of previous year),
Q₁ 2004 - Q₁ 2008**

	Annual growth rate		2006 ¹				2007 ¹				2008
	2006	2007	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1 ²
Final consumption expenditure	+5.5	+3.9	+6.0	+7.6	+5.1	+3.5	+3.1	+4.2	+5.6	+2.5	+3.2
Households	+5.9	+4.5	+6.3	+8.2	+6.1	+3.3	+3.7	+5.1	+6.2	+3.2	+3.8
General Government	+3.8	+0.8	+4.5	+5.4	+0.7	+4.7	+0.6	+0.8	+2.9	-0.9	+0.7
Gross domestic fixed capital formation	+19.0	+8.6	+0.3	-0.5	+8.2	+59.2	+24.3	+9.7	+11.3	+1.4	+5.6
A. Building & Construction work	+6.7	+16.9	-1.5	+3.4	+11.0	+13.0	+32.9	+19.7	+9.7	+8.9	+12.7
Residential building	+10.3	+5.5	+7.2	+61.2	-5.2	-0.2	+32.1	-4.8	-5.0	+2.5	-8.4
Non residential building	+3.9	+49.2	-26.9	-12.8	+21.5	+41.1	+66.6	+71.2	+40.6	+30.8	+36.1
Other construction work	+6.3	-17.4	+46.2	-9.7	+22.3	-6.4	-8.0	-10.7	-28.3	-25.6	-1.2
B. Machinery & equipment	+36.9	-1.0	+3.0	-5.2	+5.1	+131.2	+12.1	-3.7	+13.1	-4.2	-6.3
Passenger car	+4.2	+29.9	+16.0	-1.0	+3.9	-0.2	+15.5	+16.2	+34.7	+53.2	+13.2
Other transport equipment	+296.5	-38.2	+64.7	-10.1	-12.5	+876.7	+6.1	+8.6	+33.8	-47.3	-21.5
<i>Other transport equipment (excluding aircraft & marine vessel)</i>	+8.1	+19.1	+64.7	+9.1	-12.5	+8.7	+6.1	+8.6	+33.8	+20.2	-21.5
Other machinery and equipment	+3.1	+14.6	-7.6	-5.2	+8.1	+18.1	+12.5	-9.6	+7.2	+53.6	-8.6
Exports of goods and services	+7.7	+3.3	+16.5	-0.3	+2.8	+11.9	-3.3	+6.6	+2.1	+7.7	+7.8
Goods (f.o.b)	+10.1	-10.9	+18.9	+11.1	+0.8	+12.0	-12.6	-10.2	-12.5	-8.5	-2.2
Services	+4.6	+23.0	+14.0	-14.4	+6.1	+11.9	+6.8	+33.5	+25.2	+29.7	+16.7
Less Imports of goods and services	+9.3	+1.5	+15.1	-5.6	+5.3	+24.3	-2.6	+2.4	+11.8	-4.4	+18.8
Goods (f.o.b)	+11.1	-1.2	+16.7	-0.8	+2.5	+27.1	-7.8	-1.7	+11.9	-6.4	+28.1
Services	+5.1	+8.7	+11.6	-16.9	+13.1	+17.0	+9.4	+14.0	+11.7	+1.2	+0.5

1/ revised estimates 2/ first estimates

Concepts, data sources and methods for compiling quarterly GDP estimates

1. Concepts and definitions

The quarterly estimates have been compiled according to guidelines provided in the IMF manual entitled “Quarterly National Accounts Manual – Concepts, Data sources and Compilation”, which is itself based on the System of National Accounts 1993 (SNA 93) of the United Nations and are therefore consistent with annual estimates of the National Accounts.

2. Sources of data

The objective of the Quarterly National Accounts (QNA) is to provide the best indication of quarterly movements. Indicators for QNA have therefore been chosen according to their ability to capture the movements in the performance of the various sectors.

The main sources of data for compiling QNA estimates include quarterly production accounts of various organisations, quarterly surveys on income and expenditure among enterprises considered as drivers in specific sectors, quarterly quantity produced, quarterly expenditure of Government from the Accountant General Department, quarterly data from administrative sources such as building permits from local government, foreign trade data from the Customs Department, turnover data from the VAT systems, as well as some indirect indicators such as employment.

3. Methods used

When data on both output and input are available, the quarterly value added estimates are computed as the difference between the output and the intermediate consumption (inputs consumed in the process). When the quarterly output only is readily available or is compiled on the basis of quarterly data on quantity produced, the value added is computed using the production structure of the industry obtained at the latest Census of Economic Activities or from the latest annual production accounts available. When indicators on quarterly volume produced and price only are available, these are applied to the last quarterly value added figures to have the estimates for the quarter under review.

Constant price estimates take account of effects of prices and provide real growths. The constant price estimates are computed using the double deflation method for sectors where information on both inputs and outputs is available. In practice such data are difficult to obtain, hence ‘proxy indicators’ of volume changes are used if available, otherwise value series are deflated by an appropriate price index..

More details on the data sources and methods used for the different sectors are given in the table at section 5.

4. Seasonal adjusted quarterly GDP

The Central Statistics Office (CSO) of Mauritius has decided to increase its current outlay of statistical tables on National Accounts with the presentation of seasonally adjusted time series of quarterly national accounts estimates. However, at present only seasonally adjusted figures of value added by sector and total GDP are available. The methodology adopted in the seasonal adjustment exercise is briefly given below. Seasonally adjusted time series has historically been a common practice in analyzing business cycles. Currently this is widely use by a majority of statistical offices, central banks and policy analysts to describe and understand the most recent economic developments.

4.1 Procedures for seasonal adjustment of quarterly GDP

QNA data are subject to seasonal variations which are recurrent within a year pattern. For example, activities of “Wholesale and retail trade” are usually lowest in the first quarters, but highest in the fourth quarters in line with the high demand for consumption goods at the end of the year; activities of “Hotels and restaurants” are highest in the first and last quarters in line with high tourist arrivals during these quarters. For meaningful comparison of quarter to quarter growth, particularly for identifying turning points, the seasonal component must be removed from the data.

The procedures for carrying out the seasonal adjustment exercise are as follows:

- (i) The software, Demetra, developed by Eurostat and which includes the X-12 program has been used.
- (ii) Forward adjustment, instead of concurrent adjustment, has been used for quarterly series up to the most recently completed year, that is seasonal factors for the four quarters ahead are estimated using the X-12 procedure. When a new data point becomes available, the seasonally adjusted value of the new data point is obtained by dividing it by the appropriate forward factor if model is multiplicative or subtracting from it the appropriate forward factor if the underlying model is additive. The present seasonal adjustment exercise which was based on data from 2000 to 2007 will be repeated when data for the four quarters of 2008 will become available.
- (iii) Indirect adjustment, that is seasonally adjusted GDP obtained by summation of seasonally adjusted components of GDP, has been used for the aggregate GDP.
- (iv) Adjustments have been made so that the sums of quarterly seasonally adjusted data are equal to the original yearly totals.

It should be noted that different seasonal adjustment methods, no matter how carefully they have been implemented, do not always yield identical results if applied to the same time series. In addition, even if the same seasonal adjustment method is applied, there may be substantial revisions, particular towards the end of the time series, when new data are included in the calculation and taking account of possible shifts in the seasonal movements. Consequently, seasonally adjusted data remain provisional for longer than unadjusted figures, which are also subject to revisions.

5. Data sources, methods and indicators used for the estimation of quarterly GDP

The table below gives the data sources and methods used for the estimation of quarterly GDP estimates at current and constant prices by both the production and expenditure approaches.

Production approach

Industry group	Data sources	Methods	Indicator - constant price estimates
A. Agriculture, Hunting & Forestry			
Sugar Cane	<ul style="list-style-type: none"> - Annual production and price of sugar. - Final annual production accounts. - Survey of sugar factories to have the quarterly cost structure. 	<ul style="list-style-type: none"> - Final estimates: Based on the final annual production accounts. Annual gross output and intermediate consumption are allocated to quarters according to cost structure of cane growing furnished by surveyed sugar factories. The value added is thereafter derived. - Preliminary estimates: value added for the year based on expected production and price of sugar is quarterlised using the latest value added structure. Revision is made when final accounts are available about two years later. 	<ul style="list-style-type: none"> - Final estimates: deflation of the four quarterly estimates of the year by the price deflator of the annual estimate. - Preliminary estimates: deflation of the four quarterly estimates of the year by the price of sugar for the year.

Industry group	Data sources	Methods	Indicator - constant price estimates
Tea and Tobacco	<ul style="list-style-type: none"> - Quarterly production and prices of tea from Tea Board. - Quarterly production and prices of tobacco leaves from Tobacco Board. 	<ul style="list-style-type: none"> - Gross output based on quarterly production and prices. - Value added based on annual production structure. 	<ul style="list-style-type: none"> - Deflation by component of Quarterly Producer Price Index-Agriculture (PPI-A).
Food crops	<ul style="list-style-type: none"> - Monthly quantities of food crops from Agricultural Research and Extension Unit (AREU). - Retail prices through the monthly consumer price surveys. 	<ul style="list-style-type: none"> - Value added based on quarterly quantities of food crops produced and producers' price obtained from retail prices adjusted for transport and trade margins. 	<ul style="list-style-type: none"> - Deflation by quarterly changes in the estimated producers' price based on retail prices.
Flowers and Fruits	<ul style="list-style-type: none"> - Quarterly exports of flowers from Trade Statistics supplemented by an estimate for local sales. - Monthly production of some fruits from AREU. - Quarterly production of other fruits based on the "1985 Survey of fruit trees in backyard" supplemented with data from other sources. 	<ul style="list-style-type: none"> - Value added based on quarterly sales/quantities produced and PPI-A component/producers' price obtained from retail prices adjusted for transport and trade margins. 	<ul style="list-style-type: none"> - Deflation by components of quarterly PPI-A/quarterly changes in the estimated producers' price based on retail prices.
Livestock, Poultry and Related Products	<ul style="list-style-type: none"> - Quarterly production of poultry from main breeders. - Monthly quantity of livestock slaughtered from the Mauritius Meat Authority (MMA) adjusted for illegal slaughtering. - Retail prices. 	<ul style="list-style-type: none"> - Value added based on quarterly quantities produced and on producers' price obtained from retail prices adjusted for transport and trade margins. 	<ul style="list-style-type: none"> - Deflation by quarterly changes in the estimated producers' price based on retail prices.
Government Services	<ul style="list-style-type: none"> - Expenditure of Central Government from the Accountant General Department. 	<ul style="list-style-type: none"> - Value added is estimated at cost, that is, it is equal to compensation of employees and consumption of fixed capital. 	<ul style="list-style-type: none"> - Deflation using a weighted index made up of quarterly wage rate index based on salary compensation, construction price index, price of transport equipment and machinery component of import price index.

Industry group	Data sources	Methods	Indicator - constant price estimates
B. Fishing			
Fishing	<ul style="list-style-type: none"> - Quarterly quantities of fish caught from the Albion Fisheries Research Centre (AFRC) Retail prices. 	<ul style="list-style-type: none"> - Value added based on quarterly quantities of fish caught and producers' price obtained from retail prices adjusted for trade margins. 	<ul style="list-style-type: none"> - Deflation by quarterly changes in the estimated producers' price based on retail prices.
C. Mining & Quarrying			
Mining & Quarrying	<ul style="list-style-type: none"> - Quarterly quantities of salt produced and sand extracted, and their prices through surveys of establishments. 	<ul style="list-style-type: none"> - Value added derived using data collected from quarterly surveys 	<ul style="list-style-type: none"> - Deflation by change in producer prices.
	<ul style="list-style-type: none"> - Annual production accounts of decorative rocks through survey of establishments. 	<ul style="list-style-type: none"> - Annual estimates of value added evenly distributed over the 4 quarters. 	<ul style="list-style-type: none"> - Deflation by wage increase due to salary compensation of July of every year.
D. Manufacturing			
Sugar Milling	<ul style="list-style-type: none"> - Annual production and price of sugar. - Final annual production accounts. - Survey of sugar factories to have the quarterly cost structure. 	<ul style="list-style-type: none"> - Final estimates: Based on the final annual production accounts; Annual gross output and intermediate consumption are allocated to quarters according to cost structure of sugar milling activities furnished by surveyed sugar factories. The value added is thereafter derived. - Preliminary estimates: value added for the year based on expected production and price of sugar is quarterlised using the last quarterly value added structure. Revision is made when final accounts are available about two years later. 	<ul style="list-style-type: none"> - Final estimates: deflation of the four quarterly estimates of the year by the price deflator of the annual estimate. - Preliminary estimates: deflation of the four quarterly estimates of the year by the price of sugar for the year.
EPZ	<ul style="list-style-type: none"> - Quarterly exports from Trade statistics. - Quarterly turnover from the Value Added Tax (VAT) Department and the Large Taxpayers' Department (LTD). - Level of stock from quarterly stock surveys. 	<ul style="list-style-type: none"> - Quarterly value added based on quarterly gross output compiled from these sources and last annual technical ratio. 	<ul style="list-style-type: none"> - Volume index from Quarterly Index of Industrial Production (QIIP).
Non – EPZ	<ul style="list-style-type: none"> - Quarterly exports from Trade Statistics - Quarterly turnover from the VAT and LTD Departments - Production of excisable goods from Customs and Excise Department - Level of stock from quarterly stock surveys 	<ul style="list-style-type: none"> - “Large” establishments (those with 10 persons or more engaged): Quarterly value added estimates based on quarterly gross output compiled from these sources and last annual technical ratio. - Small establishments: Quarterly value added estimates based on the same quarterly trends as “Large establishments” 	<ul style="list-style-type: none"> - Volume index based on Quarterly Index of Industrial Production (QIIP) adjusted for small establishments.

Industry group	Data sources	Methods	Indicator - constant price estimates
E. Electricity, Gas & Water Supply			
Electricity, Gas & Water Supply	<ul style="list-style-type: none"> - Quarterly production accounts from CEB and CWA 	<ul style="list-style-type: none"> - Value added compiled from quarterly accounts. 	<ul style="list-style-type: none"> - Volume based on quarterly quantity of electricity and water sold.
	<ul style="list-style-type: none"> - Quarterly production accounts of the IPP (available with one year lag) 	<ul style="list-style-type: none"> - Value added derived from the value of electricity purchased by CEB and quarterly technical ratio of the previous year. 	
F. Construction			
Construction	<ul style="list-style-type: none"> - Monthly building permits from Municipalities and District Councils - Quarterly capital expenditure estimates of General Government from Accountant General Department - Maintenance expenditure by Government based on quarterly output of the Ministry of Public Infrastructure from Accountant General Department - Maintenance expenditure by households from latest Household Budget Survey 	<ul style="list-style-type: none"> - Quarterly output based on these sources and quarterly value added derived using the production structure obtained at the 2002 CEA. 	<ul style="list-style-type: none"> - Deflation by quarterly Construction Price Index.
G. Wholesale & Retail Trade, Repair of Motor Vehicles, Motorcycles, Personal & Household Goods			
Wholesale & Retail Trade	<ul style="list-style-type: none"> - Quarterly imports from Trade statistics - Local production from Agriculture statistics and Industrial statistics 	<ul style="list-style-type: none"> - For imported goods, gross output based on trade margins computed from quarterly imports. For local production, gross output based on trends of production of food crops and production of the non-EPZ sector. - Value added derived using the production structure obtained at the 2002 CEA. 	<ul style="list-style-type: none"> - Deflation by CPI.
Repair Services		Annual estimates divided by 4.	<ul style="list-style-type: none"> - Deflation by CPI.

Industry group	Data sources	Methods	Indicator - constant price estimates
H. Hotels & Restaurants			
Hotels & Restaurants	<ul style="list-style-type: none"> - Quarterly tourist arrivals from Tourism statistics - Quarterly tourist earnings from Bank of Mauritius - Expenditure on food and accommodation by tourists from Survey of tourist expenditure 	<ul style="list-style-type: none"> - Gross output based on quarterly estimates of expenditure on food and accommodation derived from quarterly tourist earnings and pattern of expenditure of tourists. - Value added is estimated using the production structure obtained from latest available annual production accounts. 	<ul style="list-style-type: none"> - Volume based on quarterly tourist arrivals.
- I. Transport, Storage & Communication			
Land Transport			
Bus	<ul style="list-style-type: none"> - Quarterly production accounts of bus companies from National Transport Authority (NTA) 	<ul style="list-style-type: none"> - Value added compiled from quarterly accounts 	<ul style="list-style-type: none"> - Double deflation using bus fare for output and relevant CPI components for inputs.
Taxi	<ul style="list-style-type: none"> - Quarterly licences of taxi cars from NTA - Taxi fares from monthly consumer price surveys. 	<ul style="list-style-type: none"> - Output based on the quarterly number of licences delivered and taxi fare. - Value added derived using the production structure obtained at the 2002 CEA. 	<ul style="list-style-type: none"> - Double deflation using CPI relevant components for inputs and taxi fare for output.
Lorries	<ul style="list-style-type: none"> - Quarterly tonnage of goods loaded and unloaded from Civil Aviation Department and Customs Department - Lorry charges based on CEA and inflation. 	<ul style="list-style-type: none"> - Output based on the quarterly volume of goods transported and lorry charges. - Value added derived using the structure obtained at the 2002 CEA. 	<ul style="list-style-type: none"> - Double deflation using relevant CPI components for both output and inputs.
Water transport	<ul style="list-style-type: none"> - Quarterly number of passengers from Mauritius Shipping Corporation. 	<ul style="list-style-type: none"> - The number of passengers and fares charged as per CPI are used to estimate quarterly output. - Value added is derived using the production structure obtained at the 2002 CEA. 	<ul style="list-style-type: none"> - Volume based on number of passengers.
Air transport	<ul style="list-style-type: none"> - Quarterly receipts and expenditure from Air Mauritius Ltd. 	<ul style="list-style-type: none"> - Value added compiled from quarterly accounts 	<ul style="list-style-type: none"> - Double deflation using airfare index for output and relevant CPI components for inputs.

Industry group	Data sources	Methods	Indicator - constant price estimates
Services allied to transport	<ul style="list-style-type: none"> - Quarterly receipts and expenditure from Mauritius Ports Authority (MPA) and Cargo Handling Corporation (CHC). - Quarterly indicators such as aircraft landings and take offs, and tourist arrivals and Mauritian travelling abroad. 	<ul style="list-style-type: none"> - Value added compiled from quarterly accounts where available. - For other activities, annual estimates are quarterlised using the quarterly indicators. 	<ul style="list-style-type: none"> - Volume based on tonnage of goods loaded and unloaded. - Volume based on quarterly indicators.
Telecommunication services	<ul style="list-style-type: none"> - Quarterly receipts and expenditure of Mauritius Telecoms Ltd (MT). 	<ul style="list-style-type: none"> - Value added compiled from quarterly accounts. 	<ul style="list-style-type: none"> - Deflation by changes in the price of telephone calls.
J. Financial Intermediation			
Financial Intermediation	<ul style="list-style-type: none"> - Quarterly survey among all offshore and commercial banks, and insurance companies. 	<ul style="list-style-type: none"> - Value added compiled from quarterly accounts. 	<ul style="list-style-type: none"> - Banks: Double deflation using changes in interest rates for output and inflation for inputs - Insurance sector: Volume based on changes in the number of vehicles.
K. Real Estate, Renting & Business Activities			
Ownership of dwellings	<ul style="list-style-type: none"> - Number of housing units (Hu) from Housing Census - Expenditure by household on rent from household budget survey. 	<ul style="list-style-type: none"> - Output based on imputed rent of owner occupied dwellings estimated as the product of number of Hu and rent per Hu. - Value added is derived after deducting from the output, expenses on maintenance of residential buildings. 	<ul style="list-style-type: none"> - Deflation by quarterly Construction Price Index.
Renting and Business services	<ul style="list-style-type: none"> - Trends in related sectors. - Indirect indicators such as no. of cases lodged in court and tourist arrivals. 	<p>This sector comprises units which offer their services to different activities, both offshore and onshore. Their output consequently follow that of the respective activity groups.</p>	<ul style="list-style-type: none"> - Deflation by CPI.
L. Public Administration & Defence; Compulsory Social Security			
Public Administration and Defence; Compulsory Social Security	<ul style="list-style-type: none"> - Expenditure of Central Government from the Accountant General Department. 	<ul style="list-style-type: none"> - Estimates are made at cost, that is, the gross output is equal to the purchase of goods and services, compensation of employees and consumption of fixed capital; value added is equal to compensation of employees and consumption of fixed capital. 	<p>Deflation using a weighted index made up of quarterly wage rate index based on salary compensation, construction price index, price of transport equipment and machinery component of import price index.</p>

Industry group	Data sources	Methods	Indicator - constant price estimates
M. Education services			
Education Services	<ul style="list-style-type: none"> - Expenditure of Ministry of Education from the Accountant General Department. 	<ul style="list-style-type: none"> - Value added for education services provided by Government is estimated at cost, that is, it is equal to compensation of employees and consumption of fixed capital. 	<p>Deflation using a weighted index made up of quarterly wage rate index based on salary compensation, construction price index, price of transport equipment and machinery component of import price index.</p>
	<ul style="list-style-type: none"> - Annual data on enrolment from the Ministry of Education - Enrolment from private schools and Industrial Vocational Training Board (IVTB) - % change in fees charged for private tuition estimated from the sub-index for "Education" obtained from the CPI Unit 	<ul style="list-style-type: none"> - Private schools and IVTB: annual output is divided by 4. - Private tuition fees: output based on ten months only (February to November) are quarterlised accordingly. 	<p>Volume based on enrolment statistics.</p>
N. Health and Social Work			
Health and Social Work	<ul style="list-style-type: none"> - Expenditure of Ministry of Health from the Accountant General Department. 	<ul style="list-style-type: none"> - Value added for health services provided by Government is estimated at cost, that is, it is equal to compensation of employees and consumption of fixed capital. 	<ul style="list-style-type: none"> - Deflation using a weighted index made up of quarterly wage rate index based on salary compensation, construction price index, price of transport equipment and machinery component of import price index.
	<ul style="list-style-type: none"> - Annual production accounts of clinics. - Quarterly data on admissions in clinics and hospitals from the Ministry of Health. - No. of private medical practitioners from the Ministry of Health. - Fees charged from monthly consumer price surveys. 	<p>Annual value added for private health services are computed using available production accounts of clinics and supplemented with indicators on private practitioners. The estimates are quarterlised using quarterly data on admissions to clinics and hospitals.</p>	<ul style="list-style-type: none"> - Deflation by CPI component.

Industry group	Data sources	Methods	Indicator - constant price estimates
- O. Other Community, Social & Personal Services			
Sanitary Services	<ul style="list-style-type: none"> - Quarterly production accounts of Waste Water Authority. - Quarterly surveys among a sample of private companies. 	<ul style="list-style-type: none"> - Value added compiled from quarterly accounts. 	<ul style="list-style-type: none"> - Deflation by CPI.
Amusement and Recreational Activities	<ul style="list-style-type: none"> - Monthly data from the VAT Department 	<ul style="list-style-type: none"> - Quarterly gross output derived from the VAT returns. - Value added estimated using technical coefficients obtained from latest available annual final production accounts. 	<ul style="list-style-type: none"> - Deflation by CPI.
Personal Services.	<ul style="list-style-type: none"> - Quarterly turnover from the VAT department - Demographic statistics such as births, deaths and marriages - Tourist arrivals 	<ul style="list-style-type: none"> - Quarterly gross output derived from the VAT returns. - Quarterly value added estimated using technical coefficients obtained from latest available annual final production accounts. - For companies not registered at the VAT: annual estimates are quarterlised using indirect indicators such as quarterly number of births, deaths, marriages, and tourist arrivals. 	<ul style="list-style-type: none"> - Deflation by CPI.
P. Private Households with Employed Persons			
Private households with employed persons	<ul style="list-style-type: none"> - Number of employees based on number of household with domestic employees as collected in Household Budget Survey (HBS). - Wage Rate from monthly consumer price surveys. 	<ul style="list-style-type: none"> - Annual estimate based on the number of persons employed and average wage divided by 4. 	<ul style="list-style-type: none"> - Deflation by wage increase due to salary compensation of July of every year.

Data sources, methods and indicators used for the estimation of quarterly GDP

Expenditure approach

Item	Sources & Methodology	Indicator – constant price estimates
Final Consumption Expenditure - Household (HH)	Annual estimates are quarterlised using Continuous Multi-Purpose Household Survey (CMPHS) and HBS structure adjusted for conceptual difference with national accounts.	- Deflation by CPI.
Final Consumption Expenditure – General Government	Government consumption expenditure is equal to the output (compensation of employees, consumption of capital and value of goods and services purchased) of General Government calculated at cost less goods or services sold plus expenditure on social benefits in kind. All data are available on a quarterly basis at the Accountant General Department, except consumption of capital, which is worked out by dividing the available annual estimate by 4.	- Deflation using a weighted index made up of quarterly wage rate index based on salary compensation, construction price index, price of transport equipment, machinery component of import price index and CPI.

Gross Domestic Fixed Capital Formation (GDFCF)

Building and Construction

Item	Sources & Methodology	Indicator – constant price estimates
Residential Building	Quarterly investment in residential buildings based on quarterly data on floor area from building permits (with a lag of 1 quarter) and quarterly Construction Price Index, together with quarterly data from National Housing Development Company (NHDC) and an estimate for projects for which no permit has been issued.	- Deflation by quarterly construction price index.
Non-Residential Building and Other Construction Work	Quarterly investment in non-residential buildings and other construction work based on quarterly building permits for non-residential buildings (lag by one quarter) and quarterly Construction Price Index, work in progress of large projects and quarterly data on Government capital expenditure available from the Accountant General Department.	

Machinery and Equipment		
Item	Sources & Methodology	Indicator – constant price estimates
Aircraft	Based on information provided by Air Mauritius Ltd	Exchange rate of the currency in which asset is purchased.
Marine Vessel	Based on information provided by Mauritius Ports Authority (MPA)	
Transport Equipment	Based on information on registered vehicles provided by National Transport Authority (NTA) classified as final consumption expenditure or investment according to purchasers. For transport equipment for which no registration is necessary, imports statistics are used.	- CPI component for car.
Other Machinery and Equipment.	<p>Estimates are mostly based on quarterly Trade Statistics given that most of the machinery and equipment are imported. The imported machinery and equipment goods are brought to purchasers' prices by adding all duties and taxes, landing cost, transport cost and margins. Duties and taxes are available from Customs Department, landing cost from Mauritius Ports Authority while rates of transport and margin are based on the results of the 2002 CEA. Annual installation cost obtained through surveys is quarterlised according to the quarterly trend of concerned machinery.</p> <p>Local production of machinery is estimated from outputs of companies producing capital goods.</p>	- Quarterly Import Price Index and exchange rate.

Exports and Imports of Goods and Services	Data available from the Quarterly Balance of Payments (BOP) of the Bank of Mauritius (BOM).	- Deflation using quarterly import and export price indices.
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