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**DIGEST  
OF  
ENVIRONMENT STATISTICS  
2010**

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**DIGEST OF ENVIRONMENT STATISTICS  
2010**

## **DIGEST OF ENVIRONMENT STATISTICS - 2010**

### **Foreword**

This is the ninth issue of the Digest of Environment Statistics prepared by Statistics Mauritius.

It presents in a single report detailed available data concerning the environment. Many of the statistics presented have been gathered from various institutions and thus some of the data may already be available in other publications. The digest covers a wide range of environmental topics in a readily accessible form to provide a handy reference.

The data provided in this publication and covering the period 2001 to 2010, wherever possible, are the latest available. These may be subject to revision in later issues. All data, unless otherwise stated, refer to the Island of Mauritius.

It is hoped that these statistics will prove useful to the public in general, particularly to planners, decision makers and researchers.

The digest has been prepared with the collaboration of the Ministry of Environment and Sustainable Development and several other organisations. The cooperation and assistance of all these organisations are gratefully acknowledged.

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## TECHNICAL NOTES

### Introduction

The statistics presented in this report are divided into six main chapters corresponding to the following components of the natural environment: Flora, Fauna, Atmosphere, Water, Land and Human Settlements.

### Concept and coverage

The following United Nations manuals have been used as a basis for the compilation of the data on environment statistics.

- A Framework for the Development of Environment Statistics, Statistical Papers, M78, United Nations.
- Concepts and Methods of Environment Statistics, Statistics of Natural Environment, Studies in Methods, F57, United Nations.
- Concepts and Methods of Environment Statistics, Human Settlements Statistics, Studies in Methods, F51, United Nations.
- Glossary of Environment Statistics, Studies in Methods, Series F, No. 67.

The digest covers data for the period 2001 to 2010, wherever possible. Environmental data are collected over different time periods, ranging from decades in some major censuses to monthly, daily, hourly or even continual monitoring. Hence, in some cases, annual data are not available due to the periodicity of censuses and surveys.

### Sources:

The tables and figures have been compiled with the help of the following organisations:

- Ministry of Environment and Sustainable Development
- The Forestry Service - Ministry of Agro Industry and Food Security
- National Parks and Conservation Service - Ministry of Agro Industry and Food Security
- Albion Fisheries Research Centre - Ministry of Fisheries and Rodrigues.
- Agricultural Research and Extension Unit (AREU) - Ministry of Agro Industry and Food Security
- The Meteorological Services
- Water Resources Unit - Ministry of Energy and Public Utilities.
- Central Water Authority
- Central Electricity Board
- Statistics Unit – Ministry of Health and Quality of Life.
- Ministry of Local Government and Outer Islands.
- Waste Water Management Authority

Data in tables where sources are not indicated have been extracted from publications of the Statistics Mauritius.

## Concepts and definitions

### Environment

Environment is the totality of all the external conditions affecting the life, development and survival of an organism.

### Flora

*Flora*: A general term for all forms of plant life characteristic of a region, period or special environment.

*Protected Area*: Legally established land or water area under either public or private ownership that is regulated and managed to achieve specific conservation objectives.

*Silviculture*: Management of forest land for timber, including

- (i) Weeding : Weeding is defined as the removal of unwanted plants, particularly at seedling stage.
- (ii) Staking : Straightening of young plants bent during cyclones, using guava sticks.
- (iii) Recruiting: Replacement of dead seedlings at the initial stage of growth.

*Wetland*: Area of low-lying land where the water table is at or near the surface most of the time. Wetlands include swamps, bogs, fens, marshes and estuaries.

### Fauna

*Fauna*: A general term for all forms of animal life characteristic of a region, period or special environment.

*Marine Park*: Permanent marine reservation for the conservation of species. It constitutes an extension, to the undersea world, of the concept of the terrestrial national park.

### Atmosphere

*Chlorofluorocarbons*: Inert, non-toxic and easily liquefied chemicals used in refrigeration, air-conditioning, packing and insulation or as solvents and aerosol propellants.

*Greenhouse gases (GHG)*: These gases occur naturally and result from human activities (production and consumption) that contribute directly or indirectly to global warming. Some main GHG are Carbon Dioxide (CO<sub>2</sub>), methane (CH<sub>4</sub>) and Nitrous Oxide (N<sub>2</sub>O). Other gases such as Carbon monoxide (CO), oxides of Nitrogen (NO<sub>x</sub>), non methane volatile organic compounds (NMVOC) and Sulphur dioxide (SO<sub>2</sub>), contribute indirectly to global warming. GHG act much like a glass greenhouse, trapping heat in the lower levels of the atmosphere and reflecting the heat back to the earth's surface, causing it to heat up.

*Ozone depletion:* Destruction of ozone in the stratosphere, where it shields the earth from harmful ultraviolet radiation.

## **Water**

*Chemical Oxygen Demand (COD):* This is a measure of the oxygen required to oxidize all compounds in water. It represents the amount of organic matter in the media.

*Chloride:* Chloride appears in the highest concentrations in natural fresh water systems. It is important in terms of metabolic processes. High Chloride levels can make freshwater unpalatable and unsuitable for various uses including agriculture.

*Conductivity:* This is the measurement of the ability of water to conduct an electric current. It can indicate saline intrusion or other sources of pollution.

*Dissolved Oxygen (DO):* This is a measure of the amount of oxygen dissolved in water. DO is essential to the respiratory metabolism of most aquatic organisms. It affects the solubility and availability of nutrients.

*Ecosystem:* The interacting system of a biological community and its non living surroundings.

*Eutrophication:* This is the slow process during which a lake or estuary evolves into a bog or marsh and eventually disappears

*Evapotranspiration:* Combined loss of water by evaporation from the soil or surface water and transpiration from plants and animals.

*Fluoride:* Fluoride may be present as the result of the natural decomposition of rocks.

*Groundwater recharge:* Process by which water is added from outside to fresh water found beneath the earth surface.

*Nitrate:* This is a measure of the most oxidised and stable form of nitrogen in a water body. It is used by plants as a nutrient to stimulate growth. Excessive amount of nitrate can lead to eutrophication.

*Pesticide:* a product or substance used in the control of pests which may affect public health or attack resources of use to man.

*pH Value:* Measure of the acidity or alkalinity of a liquid. A pH value in the range of 0 to less than 7 indicates acidity, a pH value in the range of more than 7 to 14 indicates alkalinity, and a pH value of 7 signifies neutrality.

*Phosphate:* Phosphorus in the form of phosphate commonly occurs in all natural waters. It is a nutrient and is used by plants to stimulate growth. High concentrations of phosphate can cause eutrophication.

*Precipitation:* Rain falling from the atmosphere and deposited on land or water surfaces.

*Sedimentation:* Settling of matter to the bottom of a liquid or water body, notably a reservoir.

*Sulphate:* Sulphate usually occurs in natural waters. High concentrations of sulphate can have a laxative effect on human beings.

*Surface runoff:* The flow of surface water from rainfall, which flows directly to streams, rivers, lakes and sea. Runoff may cause soil erosion.

*Temperature:* This is a measurement of the intensity (not amount) of heat stored in a volume of water. It affects the solubility of many chemical compounds and can therefore influence the effect of pollutants on aquatic life.

*Total Dissolved Solids (TDS):* This is a measure of the amount of dissolved material in the water. High concentrations of TDS limit the suitability of water as a drinking source and irrigation supply.

*Turbidity:* This is a measurement of the suspended particulate matter in a water body, which interferes with the passage of a beam of light through the water. High levels of turbidity increase the total available surface area of solids in suspension upon which bacteria can grow. High turbidity reduces light penetration.

*Waste water:* Used water typically discharged into the sewage system. It contains matter and bacteria in solution or suspension.

*Water balance:* The water balance is based on long term records of annual average rainfall and indicates how freshwater resources are distributed.

## **Land**

*Built-up areas:* Built-up areas consist of land under houses, industrial zones, quarries or any other facilities, including their auxiliary spaces, deliberately installed so that human activities may be pursued.

*Environmental impact assessment (EIA):* Analytical process that systematically examines the possible environmental consequences of the implementation of projects, programmes and policies.

*Land use:* Land use refers to the main activity taking place on an area of land, for example, farming, forestry or housing.

*Landfill:* Final placement of waste in or on the land in a controlled or uncontrolled way according to different sanitary, environmental protection and other safety requirements.

*Nutrient:* A nutrient is a substance, element or compound necessary for the growth and development of plants.

*Preliminary environmental report (PER):* This is a short form of EIA and this preliminary analysis is undertaken to identify the impacts associated with the proposed development and the means of mitigation

*Solid waste:* These are useless, and sometimes hazardous, materials with low liquid content. Solid waste includes domestic garbage, industrial and commercial waste, sewage sludge, wastes resulting from agricultural and animal husbandry operations and other connected activities and demolition wastes.

## **Human settlements**

*Energy intensity:* Energy intensity provides a measure of the efficiency with which energy is being used in production.

*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, usually a year, before provision for the consumption of fixed capital.

*Human settlements:* Integrative concept that comprises (a) physical components of shelter and infrastructure and (b) services to which the physical elements provide support, that is, community services such as education, health, culture, welfare, recreation and nutrition.

*Life expectancy at birth:* This is the average number of years that a new born child would be expected to live if subjected to the mortality conditions expressed by a particular set of age-specific death rates.

*Primary energy requirement:* It is the sum of imported fuels and locally available fuels less re-exports of bunkers and aviation fuel to foreign aircraft after adjusting for stock changes.

**ABBREVIATIONS AND SYMBOLS****Abbreviations**

Rs mn	Rupees million
Rs	Rupees
US\$	US dollar
LPG	Liquefied petroleum gas
%	Percentage
f.o.b	Free on board
c.i.f	Cost, insurance, freight
000	Thousand
n.e.s	Not elsewhere specified
Mm <sup>3</sup>	Million cubic metres
Gg	Gigagram (thousand tonne)
ktoe	Thousand tonnes of oil equivalent
°C	Degrees Celsius
mg/L	Milligram per litre
mS/cm	Millisiemens per centimetre
g/l	Gram per litre
NTU	Nephelometric Turbidity Unit
µg/m <sup>3</sup>	Microgramme per cubic metres
ppb	Part per billion
ppm	Part per million
PM <sub>10</sub>	Dust or Particulate Matter with a diameter less than 10 µg
TSP	Total suspended particles
EIA	Environmental impact assessment
PER	Preliminary environmental report
IUCN	International Union for the conservation of nature

**Symbols**

-	Nil or negligible
...	Not available /Not applicable

**Conversion factor** : 1 Square kilometre = 100 hectares

## Environment Statistics, 2010

### 1. Flora

#### 1.1 Forestry

Preservation of forests is vital for the protection of the ecosystem. Table 1.1 shows the forest area by category of ownership for the Island of Mauritius. In 2010, total forest area was 47,159 hectares, of which 22,159 (47%) were state-owned and the remaining 25,000 hectares (53%) were privately-owned.

Out of the state-owned forest area, 11,916 hectares (54%) were planted areas while the National Park and the nature reserves accounted for another 6,574 (30%) and 799 (4%) hectares respectively. Forest area under the category "Pas Geometriques" represented about 631 hectares or 3%. The remaining 9% comprised islets, other nature parks and other forest lands.

Most of the privately-owned forest lands included scrubs and grazing land and they were estimated to be 18,447 hectares all over the island. Total reserves of the privately-owned lands accounted for 6,553 hectares.

#### 1.2 Land Protected Areas

The land protected areas as shown in Table 1.6 totalled to 14,854 hectares. Among the protected areas, the Black River Gorges National Park represented 6,574 hectares (44%), followed by the privately owned mountain reserves, 3,800 hectares (26%) and river reserves 2,740 hectares (18%). The nature reserves constituting the islets accounted for 621 hectares (4%).

### 2. Fauna

#### 2.1 Livestock

Cattle, goat, sheep and pig represented the major livestock in the country. As at June 2010, goats dominated the livestock population with an estimated population of 27,819 heads (46%), followed by pig, 22,650 (38%), cattle, 7,491 (12%) and sheep, 2,022 (4%) (Table 2.1).

## **2.2 Agro-industrial production**

In 2010, production of beef was the leading contributor to the total livestock production (76%). The remaining livestock production comprised pork (22%), goat meat and mutton (2%). Poultry accounted for some 46,000 tonnes and milk production amounted to around 3.6 million litres (Table 2.3).

## **2.3 Fish catch and production**

Fish production has decreased by 8% from 7,045 tonnes in 2009 to 6,464 tonnes in 2010. In 2010, fish production through coastal (artisanal) fishery amounted to 831 tonnes.

Basket trap accounted for 32% of the total catch, followed by line (27%) and large net (26%) (Table 2.5).

In 2010, the mean catch per day per fisherman day (coastal) was 6.5 kilogram (Table 2.8).

## **2.4 Marine Protected Areas (MPA)**

The 7,216 hectares of marine protected areas consist of marine parks, fishing reserves and wetland. In 2010, the area occupied by the fishing reserves was 6,352 hectares (88%), followed by the marine parks, 838 hectares (11.6%) and wetland, 26 hectares (0.4%). (Table 2.17).

# **3. Atmosphere**

## **3.1 Ambient Air quality**

The Ministry of Environment and Sustainable Development has both stationary and mobile air quality monitoring stations that are operational since 2001. In 2010, the main pollutants under investigation are Dust (PM<sub>10</sub>), Dust (TSP), Sulphur Dioxide, Nitrogen Dioxide and Carbon Monoxide.

The results of all the pollutants under study at the six monitoring stations in 2010 showed that the levels of ambient pollutants were most of the time well below the norms (Standards for air quality). (Table 3.5).

## **3.2 Greenhouse gas (GHG)**

Mauritius as a party to the United Nations Framework Convention on Climate Change (UNFCCC) is updating periodically the inventory of anthropogenic emissions and removals of greenhouse gases using IPCC (Intergovernmental Panel on Climate Change) guidelines. GHGs are gases occurring naturally and resulting from human activities which act much like a glass greenhouse, trapping heat in the lower levels of the atmosphere and reflecting the heat back to the earth's surface, causing it to heat up and resulting in global warming.

### **3.2.1 Total GHG emissions and removals**

Table 3.6 shows the total emissions and removals of greenhouse gases of which carbon dioxide (CO<sub>2</sub>) is the main one. The data indicate a rise in net CO<sub>2</sub> emissions from 3,075 thousand tonnes in 2009 to 3,290 thousand tonnes in 2010. Net emissions take into account the removal of CO<sub>2</sub> by forests which act as 'sinks'.

### **3.2.2 Greenhouse gas inventory**

The national inventory of greenhouse gas emissions by source categories and removals by sinks for the years 2009 and 2010 is given in Table 3.8. Carbon dioxide with an emission of 3,583.2 thousand tonnes in 2010 was the major greenhouse gas injected in the atmosphere. Most of this gas was produced as a result of fuel combustion activities such as electricity production, transport and manufacturing processes.

#### **3.2.2.1 Carbon dioxide emissions from fuel combustion activities.**

Carbon dioxide emission resulting from fuel combustion went up from 3,365.3 thousand tonnes in 2009 to 3,581.0 thousand tonnes in 2010 (+6.4%), driven mostly by a 8% increase of CO<sub>2</sub> emissions from the energy industries.

The energy industries remained the principal source of CO<sub>2</sub> emission in the atmosphere. They contributed around 60% of the emissions, with 2,158.3 thousand tonnes in 2010. They were followed by the transport sector which contributed around 25% of the total emissions and the manufacturing industries, with some 10%.

### 3.2.2.2 Non-CO<sub>2</sub> emissions

Non-CO<sub>2</sub> emissions were minimal and in 2010, they were distributed in thousand tonnes as follows: carbon monoxide 68.4, methane 37.4, sulphur dioxide 34.0, oxide of nitrogen 18.8, non-methane volatile organic compounds (NMVOC) 18.3, and nitrous oxide 1.0.

### 3.3 *Ozone-depleting substances*

The consumption of the controlled ozone-depleting substances decreased by 50% from 192 metric tonnes in 2009 to 96 metric tonnes in 2010. Around 100% of the ozone-depleting substances constituted of the hydro-chlorofluorocarbons (HCFC's).

## 4. **Water**

Water, being a basic support element for human life and ecosystems is of vital environmental and biological importance.

### 4.1 *Water balance*

The water balance is based on long term records of annual average rainfall and indicates how fresh water resources are distributed.

In 2010, the island of Mauritius received 3,368 million cubic metres (Mm<sup>3</sup>) of precipitation (rainfall). This was 24.6% lower than in 2009 when 4,470 Mm<sup>3</sup> were obtained. Surface runoff accounted for 60% of the water balance, while evapotranspiration and net recharge to ground water accounted for 30% and 10% respectively (Table 4.3).

### 4.2 *Water utilisation*

In 2010 the total water demand was estimated at 935 Mm<sup>3</sup>. The agricultural sector accounted for most of the water utilised with 404 Mm<sup>3</sup> or 43%. Utilisation for the other purposes was as follows: hydropower 298 Mm<sup>3</sup> or 32%, domestic, industrial and tourism 223 Mm<sup>3</sup> or 24% and industrial 10 Mm<sup>3</sup> or 1% (Table 4.4).

Around 80% of the total fresh water abstracted came from surface water (reservoirs, rivers and streams) and the remaining 20 % from groundwater (Table 4.6).

### **4.3 Water consumption**

The domestic consumption of water went down from 162 to 160 litres per capita per day from 2009 to 2010. Total potable water consumed increased from 220 to 223 litres per capita per day (Table 4.12).

## **5. Land**

### **5.1 Land use**

Urbanisation and the development of industries and infrastructure have led to a loss of agricultural land.

Table 5.1 shows data on land use for 1995 and 2005. During that period, the proportion of land under sugarcane decreased by 6.3%, tea plantations declined by 81.6% and forestry by 17.2%. Land used for other agricultural activities increased by 33.3% while built up areas expanded by 27.7%.

Between 1995 and 2005, the proportion of land under agriculture dropped from 46.4% to 43.2%, and that of forestry from 30.6% to 25.3% whilst built-up areas increased from 19.5% to 24.9% (Table 5.1 and figure 16)

The effective area under sugarcane has gradually shrunk to 62,100 hectares in 2010 from 64,120 hectares in 2009 (-3.2%). During the same period, area under tobacco decreased to 210 hectares from 230 hectares (-8.7%) and area under tea to 698 hectares from 713 hectares (-2.1%) (Table 5.2).

### **5.2 Fertiliser and other inputs**

Intensive use of chemical based fertilisers and other agro-chemicals may contribute to the pollution of the environment through the leaching of nitrate to ground water.

The total quantity of fertilisers imported is shown in Table 5.6. The imports of fertilisers for the year 2010 were 46,254 tonnes, a decrease of around 19% over the 2009 figure of 57,169 tonnes.

### **5.3 Waste disposal**

Increasing waste generation and consequently its disposal pose a major environmental problem. Waste collected are either sent directly to the Mare Chicose Sanitary Landfill, which started operating by the end of 1997, or go through the process of compaction at the four transfer stations (St Martin, Roche Bois, Poudre D'Or and La Brasserie) before their transportation to the landfill site.

Solid waste has been tracked mainly as domestic, construction and others. In 2006, with the outbreak of the *Chikungunya* disease, some 110 clean-up campaigns were carried out throughout the country which caused the amount of wastes to rise up.

In 2010, the total amount of solid waste landfilled at Mare Chicose was 427,802 tonnes compared to 415,948 tonnes in 2009 (Table 5.10).

### **5.4 Environmental Impacts Assessment (EIA) and Preliminary Environmental Report (PER) Licences**

The Ministry of Environment and Sustainable Development grants EIA licences to meet environmental requirements. Those undertakings that require such a licence are listed in the First Schedule of the new Environment Protection Act, 2002.

In 2010, 44 EIA licences were granted of which 27% were issued to coastal and related works and 11% were provided to land parcelling and another 11% to industrial development (Table 5.12).

During the same period, 19 PER licences were granted, out of which 26% were for industrial development projects.

### **5.5 Result of the Environment Module of the Continuous Multi-Purpose Household Survey (CMPHS), 2007**

#### **5.5.1 Waste**

The Continuous Multipurpose Household Survey (CMPHS) carried out in 2007 revealed that around 88% of households interviewed were prepared to separate waste and around 72% stated that they are satisfied with waste collections facilities.

Some 52% of households stated that they were prepared to compost waste. It was noted that 35% of the households used special bins placed around the island for collection of PET plastic

bottles. 75% of the main reasons for not using the bins were unawareness about the bins provided. Some 61% also stated that the bins were not accessible or too far (Table 5.19)

### **5.5.2 Plastic bags**

In 2007, around 70% of households used plastic bags provided or sold by sellers for shopping (Table 5.18).

### **5.5.3 Awareness of Environmental Programmes**

CMPHS 2007 revealed that more than 82% of the surveyed households stated that they were aware of Environmental programmes on radio and television. More than 70% of the households listened to or watched Environmental programmes (Table 5.19)

## **6. Human settlement**

### **6.1 *The economy***

Table 6.1 shows some main environment indicators over the ten year-period, 2001 - 2010. Table 6.2 provides some key socio-economic indicators showing the structural changes that have occurred during the same period.

Gross Domestic Product (GDP), which measures the total value of production, increased in nominal terms by about 123%, from Rs 134,392 million in 2001 to Rs 299,129 million in 2010. The share of agriculture in GDP fell from 6.9% in 2001 to 3.7% in 2010; that of manufacturing decreased from 22.5% to 18.0%, while that of transport and communications decreased from 12.8% to 9.5%.

During the same period, population of the Republic of Mauritius increased by 6.7% from 1,199,881 to 1,280,924 and population density from 609 to 651 per km<sup>2</sup>.

### **6.2 *Energy***

While being an essential ingredient for the economic development and for the well being of the population, energy-related activities are also a source of major concern for the environment. They are by far the most important contributors of air pollutants, through the emission of carbon dioxide and other greenhouse gases.

### **6.2.1 Primary energy requirement**

The total primary energy requirement of the country increased by 6.2%, from 1,347 ktoe in 2009, to 1,431 ktoe in 2010. Around 83% of the total primary energy requirement was met by imported fuels (oil, LPG and coal) and the remaining 17%, obtained from local sources (bagasse and hydro). Details on the primary energy requirement by energy source are shown in Table 6.14.

### **6.2.2 Inputs for electricity production**

Different types of fuel are used for electricity production. Coal remained the most important input and its share rose from 49% in 2009 to 51% in 2010. On the other hand, the contribution of bagasse fell from 25% to 23% and that of fuel oil from 24% to 23% (Table 6.16).

### **6.2.3 Final energy consumption**

In 2010, final energy consumption reached around 854 ktoe, an increase of 5.6% over the figure of 809 ktoe in 2009. Changes in the different sectors were as follows: "Transport" (+6.9%), "Commercial and Distributive Trade" (+5.8%), "Manufacturing" (+4.7%) and "Household" (+3.4%) (Table 6.18).

The largest consumers were the transport and manufacturing sectors, which accounted for 49% and 27% of the total energy consumption respectively (Table 6.19).

### **6.2.4 Transport**

Industrialisation, continuous economic growth and higher standard of living have led to a rapid increase in transport services over the recent years. A number of environmental problems are associated with transport, especially emission of carbon dioxide and other pollutants such as nitrogen oxide, volatile organic compounds, sulphur dioxide and particulate.

In 2010, petroleum products used for transportation were as follows; 160,591 tonnes of diesel oil, 118,226 tonnes of gasoline, 4,641 tonnes of liquefied petroleum gas (LPG) and 118,553 tonnes of aviation fuel (Table 6.17).

## **6.3 Stock of registered motor vehicles**

In 2010, the fleet of motor vehicles reached 384,115, up by 4.8% over the year 2009 (Table 6.20).

## **6.4 Complaints**

The number of complaints by category received by the Pollution Prevention and Control Division at the Ministry of Environment and Sustainable Development for the years 2001 to 2010 is shown in Table 6.33. The number of complaints increased from 522 in 2009 to 622 in 2010. The major causes for complaints were noise (26%), odour (21%) and solid waste (19%).

## **6.4 Contraventions**

In 2010, the Police de L'Environnement issued 1,284 contraventions of which illegal littering accounted for 75% (963).

During the same period, 1,651 notices were issued to drivers of vehicles emitting black smoke (Table 6.34).

## **7. Environment Economic Accounts (EEA)**

**7.1** The **Environment-Economic Accounts** (EEA) is a set of statistical accounts showing the interaction between the economy and the environment. Integrating these two permits investigation and analysis of sustainability in the patterns of production and consumption and the economic consequences of maintaining given environmental standards.

A set of EEA for Mauritius has been compiled using the results of the 2002 and 2007 Census of Economic Activities (CEA) and the National Accounts' Supply and Use Tables (SUT) as well as other available statistics on Energy and Water.

## **7.2 Main findings**

### **7.2.1 Energy efficiency**

The energy intensity of the economy shows that for every Rs 100,000 of GDP that was produced, 0.87 toe energy was used in 2009 as compared to 1.04 toe in 2002.

Energy efficiency of a sector is assessed by comparing the change in the amount of energy used by the sector to the change in its Gross Value Added (GVA) during the same period.

As shown in Table A, between 2002 and 2009, the activity groups where the energy use has decreased, as opposed to their increase in GVA, are: 'Agriculture', 'Food and Drink Manufacturing', 'Construction', 'Wholesale and Retail' and 'Hotels and Restaurants'. On the other hand, there were

increases in energy use coupled with increases in GVA, in 'Chemicals Manufacturing' and 'Transport and communications' sectors.

**Table A – Primary energy use and GVA changes, 2002 - 2009**

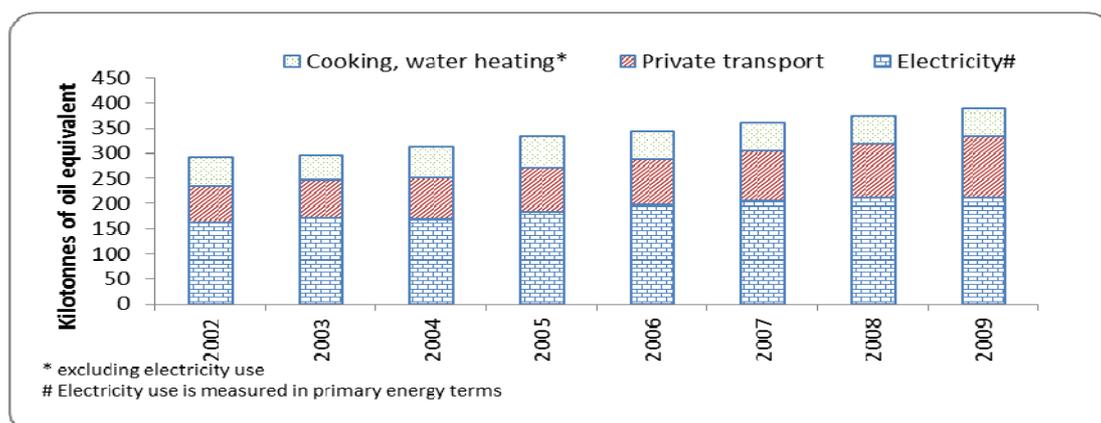
Industrial Activity	% changes from 2002 to 2009	
	Energy Use	GVA
Agriculture	-20	+16
Food and drinks manufacturing	-7	+51
Construction	-44	+58
Wholesale and retail trade	-2	+37
Hotels and Restaurants	-39	+33
Chemicals Manufacturing	+24	+3
Transport and communications	+18	+58

### 7.2.2 Energy use of households

Households consume energy mostly by making use of electricity for lighting and powering household appliances, gasoline and diesel for private transport and LPG and solar energy for cooking and water heating respectively.

Energy used by households has increased by 33% from 291 ktoe in 2002 to 388 ktoe in 2009 (Fig. 1). This was mainly driven by the demand for electricity which increased by around 30% and energy used for private transport which rose by 70%. On the other hand energy other than electricity used for cooking and water heating decreased by 4.2% during the same period.

**Figure 1 – Household Energy Use, 2002–2009**



### 7.2.3 Carbon dioxide emissions Accounts

Greenhouse gases (GHGs) mainly comprise Carbon dioxide (CO<sub>2</sub>), nitrous oxide (N<sub>2</sub>O) and methane (CH<sub>4</sub>). CO<sub>2</sub> is a major component of GHG emissions in Mauritius.

Table B shows the changes in CO<sub>2</sub> emissions from energy sources of some selected sectors compared to changes in the GVA. Between 2002 and 2009, the sectors where the CO<sub>2</sub> emissions have decreased, as opposed to their increase in GVA, are 'Agriculture', 'Construction' and 'Hotels and Restaurants'. Also, there were increases in CO<sub>2</sub> emissions coupled with increasing GVA, in the 'Food and drinks manufacturing', 'Wholesale and retail trade', 'Chemicals Manufacturing', 'Transport and communications' and 'Finance and real estate' sectors.

The sectors with the most prominent changes noted both in the CO<sub>2</sub> emissions and the GVA were the 'Finance and Real Estate' (CO<sub>2</sub> +112%, GVA +64%), 'Construction' (CO<sub>2</sub> -44%, GVA +58%), 'Food and Drinks' (CO<sub>2</sub> +60%, GVA +51%) and 'Mining and Quarrying' (CO<sub>2</sub> -55%, GVA -41%).

The most emission intensive sectors in 2009, in terms of tonnes of CO<sub>2</sub> per hundred thousand rupees of GVA, were the 'Water Supply industry' with 12 tonnes, 'Textiles' with 4.7 tonnes, 'Chemicals' with 4.1 tonnes, 'Transport and Communications' with 3.4 tonnes, and 'Food and Drinks' with 2.8 tonnes (Table 3.10).

**Table B – CO<sub>2</sub> emissions and GVA changes, 2002 - 2009**

Industrial Activity	% changes from 2002 to 2009	
	CO <sub>2</sub> emissions	GVA
Agriculture	-11	+16
Mining and quarrying	-55	-41
Food and drinks manufacturing	+60	+51
Textiles	-5	-8
Construction	-44	+58
Wholesale and retail trade	+3	+37
Hotels and Restaurants	-31	+33
Chemicals Manufacturing	+35	+3
Transport and communication	+18	+58
Finance and real estate	+112	+64

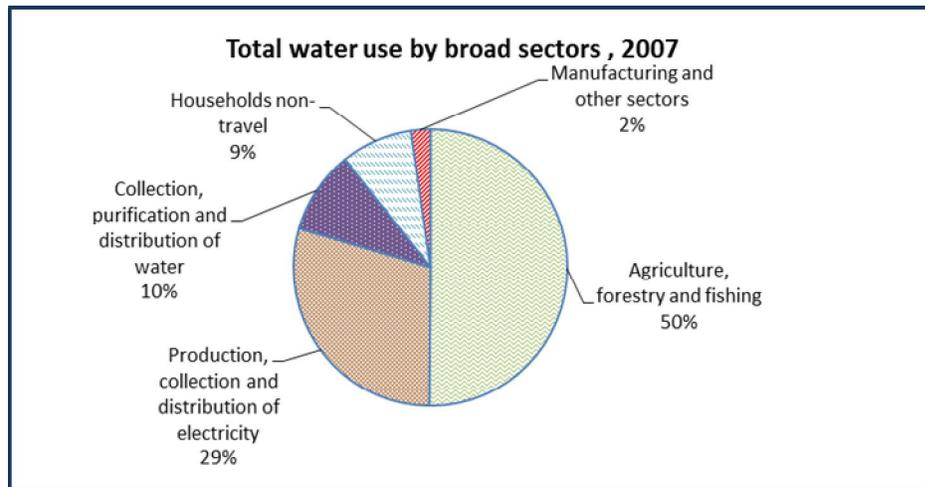
### 7.2.4 Water use Accounts

The water use account identifies the amount of water used in the different economic sectors and households and relates this use to the level of economic activity undertaken by the particular sectors.

### 7.2.5 Water Use

An analysis of water use by sector reveals that, agriculture is a relatively intensive user. In 2007 out of a total of about 880 million cubic metre of water abstracted, half (50%) was used by the agricultural sector. The hydro power stations used 29% for the production of electricity while households consumed 9% and manufacturing used 2%. The remaining 10% was mainly the water unaccounted for, by the 'collection, purification and distribution of water' sector (Fig. 2).

**Figure 2 – Share of water use<sup>1</sup> by broad sector, 2007**



<sup>1</sup> Total water, including use for hydropower and from public supply for which the loss is higher. This use differs from utilization already published as it includes both direct abstractions and water from public supply.

The total amount of water abstracted in 2007 dropped by 9.7% as compared to an amount of 975 million cubic metres recorded in 2002. Table C below, shows the percentage of water used by broad sectors out of the total water abstracted.

**Table C – Share of water used by sectors, 2002 and 2007**

Sectors	% use of total water abstracted	
	2002	2007
Agriculture	54	50
Production of hydro electricity	26	29
Households	7	9
Manufacturing and others	3	2
Water unaccounted for, including losses.	10	10
<b>Total</b>	<b>100</b>	<b>100</b>

Proportion of water used by the agricultural sector decreased from 54% to 50% while that for 'production of hydro electricity' rose from 26% to 29%. Households' use increased from 7% to 9% and Manufacturing and others (excluding agriculture) used a slightly less share of water from 3% to 2%. The remaining amount, mainly the water unaccounted for, including losses from 'collection, purification and distribution of water sector', remained virtually at the same proportion estimated as 10%.

### **7.2.6 Water Intensity**

Water use intensity indicates the amount of water in million cubic metres used by a particular sector of the economy per million rupees of Gross Value Added (GVA) generated in that sector. Sectors which are the most water intensive are 'Production of electricity' mainly as hydro power and 'Agriculture'. However, from 2002 to 2007, the water intensity of the 'Agriculture' sector dropped by 25% from 0.08 to 0.06 million cubic metres (Mm<sup>3</sup>) per million rupees of GVA. The same pattern was noted in 'Production of electricity' with a decline of 14% from 0.14 to 0.12.

The relatively low water intensive sectors were, among others, the 'Construction' and 'Wholesale and Retail' sectors with less than 100 million metre cubes per million rupees of GVA.

### **7.2.7 Water Productivity**

Water productivity measures the GVA generated in a particular sector per unit volume of water used. In 2007, this indicator was highest in 'Construction' and 'Wholesale and Retail' sectors with over Rs 20,000 million of GVA generated per Mm<sup>3</sup> of water used. 'Agriculture' and 'Production of electricity' sectors had the lowest rate with 17 million and 9 million rupees per Mm<sup>3</sup> of water used respectively.

### **7.2.8 Economy-wide Material Flow Accounts (MFA)**

The Economy-wide Material Flow Accounts set out the flow of natural materials used or moved by the economic activities of the country. Table 6.35 presents some of the main indicators of MFA for the years 2005 to 2009.

**Domestic extraction** (DE) of biomass and materials from the national environment totalled some 10.9 million tonnes in 2009, which is estimated to be about 10% higher than in 2005 (9.9 million tonnes). About 55% of this amount comprised aggregates (rocks) and another 43% were sugarcane. The remaining 2% were mostly salt products and biomass such as food crops, wood and fish.

**Direct Material Input** (DMI) consists of domestic extraction plus imports of quantity of materials in the country. DMI in 2009 was estimated at 14.6 million tonnes, up by 7% as compared to 2005 (13.6 million tonnes). Of this amount, 75% of the materials were extracted from the national environment (Domestic Extraction).

**Domestic Material Consumption** (DMC) is the indicator which is most used by the international community, as it can be most readily compared with GDP. It is defined as DMI less exports.

In 2009, DMC worked out to 13.5 million tonnes, up by 9% from 12.4 million tonnes in 2005. This was mainly driven by the 7.3% increase in DMI while exports of materials went down by 8% during that period.

The **Physical Balance of Trade** (PTB), that is imports less exports of materials, increased slightly from 2.5 to 2.6 million tonnes (+4%) during the period 2005 to 2009.

## **8 Environmental Performance Index (EPI)**

The Environmental Performance Index (EPI) ranks countries on performance indicators covering environmental health and ecosystem vitality. These indicators provide a gauge at a national government scale of how close countries are to established environmental policy goals.

Mauritius climbed to the sixth position in the 2010 EPI from the fifty eighth position in the 2008 EPI rankings. The improved result is mainly due to the performance scores in the ecosystem vitality, from 58.5 to 77.5 (Table 6.38).

# **CHAPTER 1**

## **FLORA**

Table 1.1 - Forest area by category, 2001 - 2010

Category	Hectares									
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
<b>State - owned</b>	<b>22,089</b>	<b>22,089</b>	<b>22,068</b>	<b>22,200</b>	<b>22,185</b>	<b>22,181</b>	<b>22,176</b>	<b>22,159</b>	<b>22,159</b>	<b>22,159</b>
Plantations	12,362	12,418	12,256	11,816	11,828	11,848	11,878	11,855	11,901	11,916
Nature reserves	799	799	799	799	799	799	799	799	799	799
<i>on mainland</i>	200	200	200	200	200	200	200	200	200	200
<i>islets</i>	599	599	599	599	599	599	599	599	599	599
National Park <sup>1</sup>	6,574	6,574	6,574	6,574	6,574	6,574	6,574	6,574	6,574	6,574
Islet National Park <sup>2</sup>	...	...	...	134	134	134	134	134	134	134
Bras D'Eau& Poste La Fayette Reserves <sup>3</sup>	...	...	...	472	472	472	472	472	472	472
ValleeD'Osterlog Endemic Garden	...	...	...	...	...	...	275	275	275	275
Other Forest Lands	1,702	1,646	1,804	1,770	1,743	1,719	1,413	1,419	1,373	1,358
Pas Geometriques	652	652	635	635	635	635	631	631	631	631
<i>Plantations</i>	230	243	226	226	226	226	222	222	222	222
<i>Leased for grazing and tree planting</i>	230	230	230	230	230	230	230	230	230	230
<i>Others (mostly rocky)</i>	192	179	179	179	179	179	179	179	179	179
<b>Privately - owned lands</b>	<b>34,540</b>	<b>34,540</b>	<b>34,540</b>	<b>25,000</b>						
Reserves	6,553	6,553	6,553	6,553	6,553	6,553	6,553	6,553	6,553	6,553
<i>Mountain reserves</i>	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800	3,800
<i>River reserves</i>	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740	2,740
<i>Nature reserves</i>	13	13	13	13	13	13	13	13	13	13
Other <sup>4</sup>	27,987	27,987	27,987	18,447	18,447	18,447	18,447	18,447	18,447	18,447
<b>Total</b>	<b>56,629</b>	<b>56,629</b>	<b>56,608</b>	<b>47,200</b>	<b>47,185</b>	<b>47,181</b>	<b>47,176</b>	<b>47,159</b>	<b>47,159</b>	<b>47,159</b>

Source : Forestry Service, Ministry of Agro Industry and Food Security.

<sup>1</sup>Black River Gorges National Park was proclaimed in 1994 and data on the area enclosed by the boundaries of the park were not available until 1997.

<sup>2</sup>Islet National Park was proclaimed in 1994.

<sup>3</sup>Bras D'Eau& Poste La Fayette Reserves were proclaimed in 2002 and data of the area is included as from the year 2001.

<sup>4</sup>Includes Plantations, forest lands, scrub and grazing lands. Forest area was decreasing gradually. New estimates in private lands worked out in 2004.

**Table 1.2 - Changes in forest-land cover, 2001 and 2010**

	Area (hectares)		% of total land area	
	2001	2010	2001	2010
Forests lands :	<b>56,629</b>	<b>47,159</b>	<b>30.4</b>	<b>25.3</b>
of which				
State owned	22,089	22,159	11.8	11.9
<i>Plantations</i>	12,362	11,916	6.6	6.4
<i>Land Protected areas and Nature reserves</i>	7,373	8,254	4.0	4.4
<i>Other Forest Land</i>	1,702	1,358	0.9	0.7
<i>Pas Geometriques</i>	652	631	0.3	0.7
Privately-owned lands <sup>1</sup>	34,540	25,000	18.5	13.4
<i>Reserves (land Protected areas)</i>	6,553	6,553	3.5	3.5
<i>Other</i>	27,987	18,447	15.0	9.9

<sup>1</sup> include plantations, reserves, scrub and grazing lands.

**Table 1.3 - Local production, imports and consumption of timber, poles and fuelwood, 2001 – 2010**

	cubicmetre (roundwood)									
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
<b>Local Production</b>	<b>16,945</b>	<b>15,910</b>	<b>14,007</b>	<b>13,973</b>	<b>12,098</b>	<b>14,532</b>	<b>13,952</b>	<b>10,885</b>	<b>10,531</b>	<b>14,328</b>
Timber	4,941	4,346	4,565	5,057	4,818	6,869	5,332	4,330	3,807	3,696
<i>State Lands</i>	4,401	3,796	3,730	4,587	4,628	6,067	4,874	4,260	3,762	3,231
<i>Private Lands</i> <sup>1</sup>	540	550	835	470	190	802	458	70	45	465
Poles	2,670	2,642	2,976	3,111	2,187	1,605	1,553	1,284	1,242	1,220
<i>State Lands</i>	1,580	1,612	1,911	2,356	1,677	1,060	1,022	1,002	1,102	787
<i>Private Lands</i> <sup>1</sup>	1,090	1,030	1,065	755	510	545	531	282	140	433
Fuelwood	9,334	8,922	6,466	5,805	5,093	6,058	7,067	5,271	5,482	9,412
<i>State Lands</i>	8,429	7,992	5,189	5,170	4,578	4,765	6,116	5,089	5,202	8,217
<i>Private Lands</i> <sup>1</sup>	905	930	1,277	635	515	1,293	951	182	280	1,195
<b>Imports of timber</b> <sup>2</sup>	<b>106,277</b>	<b>85,488</b>	<b>65,558</b>	<b>108,677</b>	<b>111,764</b>	<b>89,085</b>	<b>132,503</b>	<b>120,311</b>	<b>78,395</b>	<b>95,870</b>
<b>Total Consumption</b> <sup>3</sup>	<b>123,222</b>	<b>101,398</b>	<b>79,565</b>	<b>122,650</b>	<b>123,862</b>	<b>103,617</b>	<b>146,455</b>	<b>131,196</b>	<b>88,926</b>	<b>110,198</b>

Source: Forestry Service, Ministry of Agro Industry and Food Security.

<sup>1</sup>Estimates

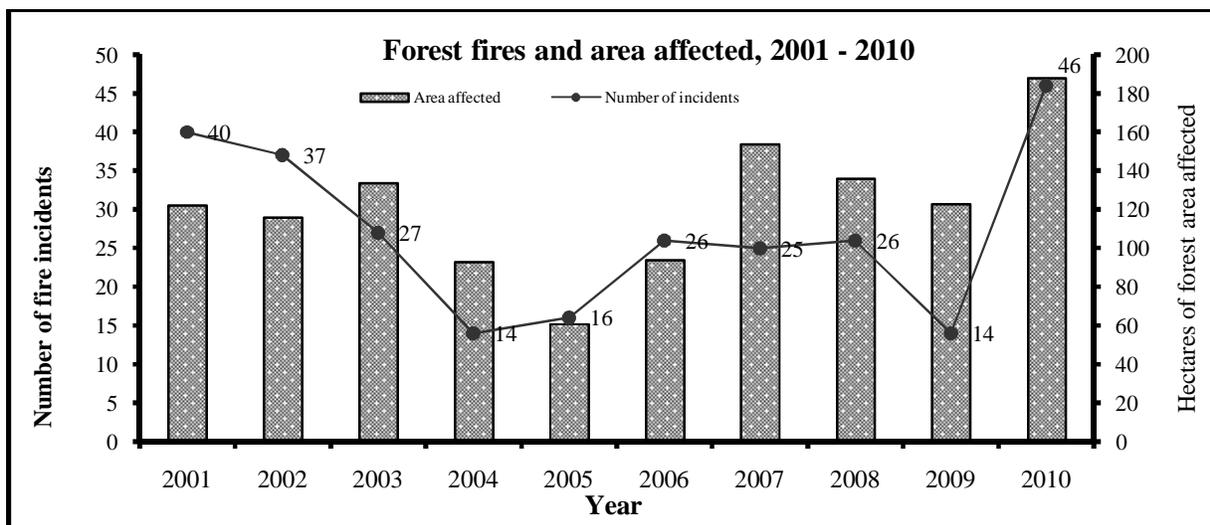
<sup>2</sup>Roundwood equivalent

<sup>3</sup>Excludes plywood, paper and other wood products.

**Table 1.4 - Forest fires and area affected, 2001 – 2010**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Number of incidents	40	37	27	14	16	26	25	26	14	46
Area affected (Ha)	122	116	134	93	61	94	154	136	123	188
of which										
<i>Protected areas</i>	67	44	13	-	4	8	4	1	0	53
<i>Unprotected areas</i>	55	72	121	93	57	86	150	135	123	135

Source : Forestry Service, Ministry of Agro Industry and Food Security.

**Figure 1 - Forest fires and area affected, 2001 - 2010****Table 1.5 - Silvicultural operations carried out in state forest land plantation, 2001 – 2010**

Type of operation	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Clearing for planting	34	84	56	97	107	54	56	90	96	37
Planting	133	151	110	110	92	80	50	96	90	55
Weeding	596	490	402	300	282	266	174	195	199	206
Recruiting	462	394	391	298	222	257	208	202	170	209
Staking	14	629	30	15	35	44	214	20	3	14
Cleaning	718	606	744	586	484	331	417	307	239	223
Pruning	50	33	89	46	49	26	5	27	5	5

Note: There may be overlapping of operations. For instance part of the area that is planted in a year could have been cleared in the same year.

Source : Forestry Service, Ministry of Agro Industry and Food Security.

**Table 1.6 - List of land protected areas, Republic of Mauritius, 2010**

Land protected areas	Hectares Area
<b>Black River Gorges National Park</b>	<b>6,574</b>
<b>Bras D'Eau &amp; Poste La Fayette Reserves</b>	<b>472</b>
<b>ValleeD'Osterlog Endemic Garden</b>	<b>275</b>
<b>Nature reserves (mainland)</b>	<b>225</b>
<i>Pouce</i>	69
<i>Perrier</i>	2
<i>Bois Sec</i>	6
<i>Gouly Pere</i>	11
<i>Corps de Garde</i>	90
<i>Cabinet</i>	18
<i>Les Mares</i>	5
<i>Grande Montagne (Rodrigues)</i>	14
<i>AnseQuitor (Rodrigues)</i>	10
<b>Islet National Park</b>	<b>134</b>
<b>Nature reserves (Islets)</b>	<b>621</b>
<i>Gunner's Quoin</i>	76
<i>Iles aux Aigrettes</i>	25
<i>Iles aux Serpents</i>	31
<i>Flat Island</i>	253
<i>Round Island</i>	169
<i>Gabriel Island</i>	42
<i>Illot Marianne</i>	2
<i>Iles aux Cocos (Rodrigues)</i>	15
<i>Iles aux Sables (Rodrigues)</i>	8
<b>Mountain Reserves (all privately owned)</b>	<b>3,800</b>
<b>River reserves (all privately owned)</b>	<b>2,740</b>
<b>Nature reserves (privately owned)</b>	<b>13</b>
<i>Mondrain</i>	5
<i>Sir Emile Series</i>	8
<b>Total</b>	<b>14,854</b>

Source : Forestry Service, Ministry of Agro Industry and Food Security.

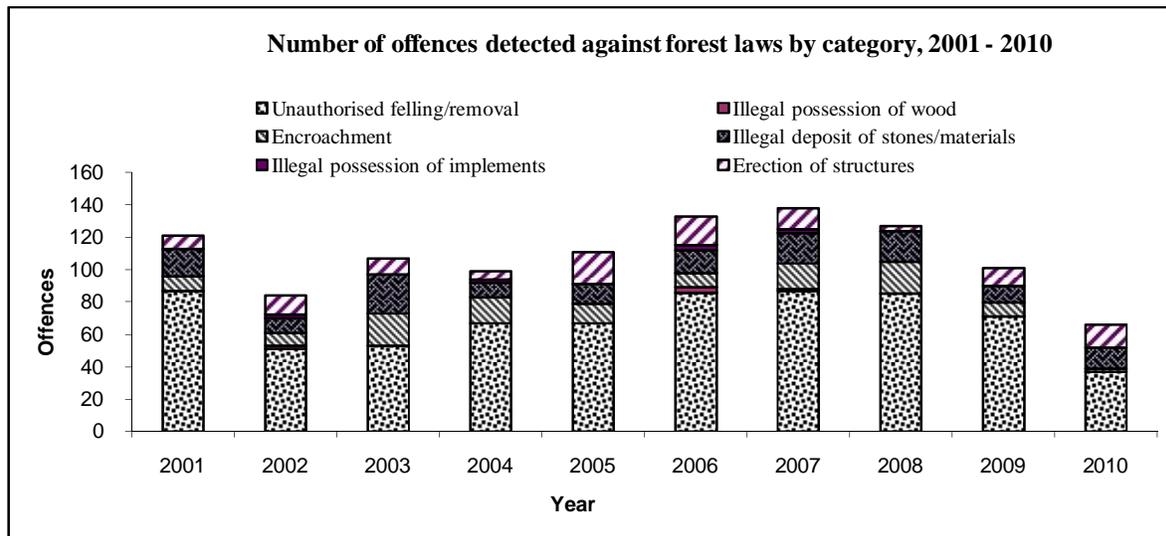
Note: The reserves constituted the state owned and privately-owned lands; under the state owned there were the "Reserves", "Nature Reserves (main land)" and the Nature Reserves (islets); the rest were privately-owned.

**Table 1.7 - Number of offences detected against forest laws<sup>1</sup> by category, 2001 – 2010**

Category	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Unauthorised felling/removal	87	51	53	67	67	86	87	85	71	37
Illegal possession of wood	-	2	-	-	-	3	1	1	0	1
Encroachment	9	8	20	16	12	9	16	20	9	2
Illegal deposit of stones/materials	17	9	24	9	12	14	19	19	10	13
Illegal possession of implements	-	2	-	2	-	3	2	1	0	0
Erection of structures and others	8	12	10	5	20	18	13	3	11	14
<b>Total</b>	<b>121</b>	<b>84</b>	<b>107</b>	<b>99</b>	<b>111</b>	<b>133</b>	<b>138</b>	<b>129</b>	<b>101</b>	<b>67</b>

Source : Forestry Service, Ministry of Agro Industry and Food Security.

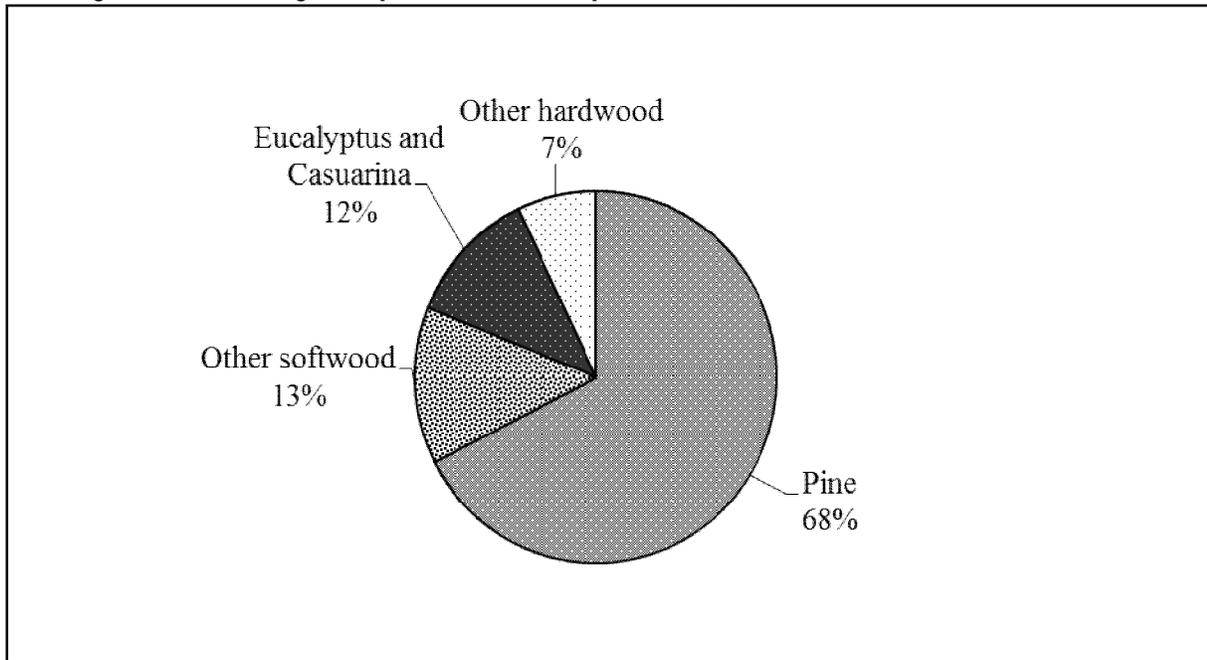
<sup>1</sup>include cases taken to court, treated departmentally, outstanding, and in which offenders were unknown.

**Figure 2 - Number of offences detected against forest laws by category, 2001 – 2010****Table 1.8 - Forest plantations<sup>1</sup> by type of plants, 2001 – 2010**

Type of plant	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010	Hectares
<b>Soft wood</b>											
<i>Pine</i>	8,035	8,062	8,113	8,136	8,143	8,162	8,195	8,197	8,197	8,199	
<i>Other softwood</i>	1,599	1,609	1,609	1,609	1,612	1,613	1,613	1,617	1,624	1,637	
<b>Hardwood</b>											
<i>Eucalyptus and Casuarina</i>	1,906	1,919	1,921	1,450	1,450	1,450	1,443	1,443	1,443	1,443	
<i>Other hardwood</i>	822	828	839	847	849	849	849	852	859	859	
<b>Total</b>	<b>12,362</b>	<b>12,418</b>	<b>12,482</b>	<b>12,042</b>	<b>12,054</b>	<b>12,074</b>	<b>12,100</b>	<b>12,077</b>	<b>12,123</b>	<b>12,138</b>	

Source : Forestry Service, Ministry of Agro Industry and Food Security.

<sup>1</sup> State land

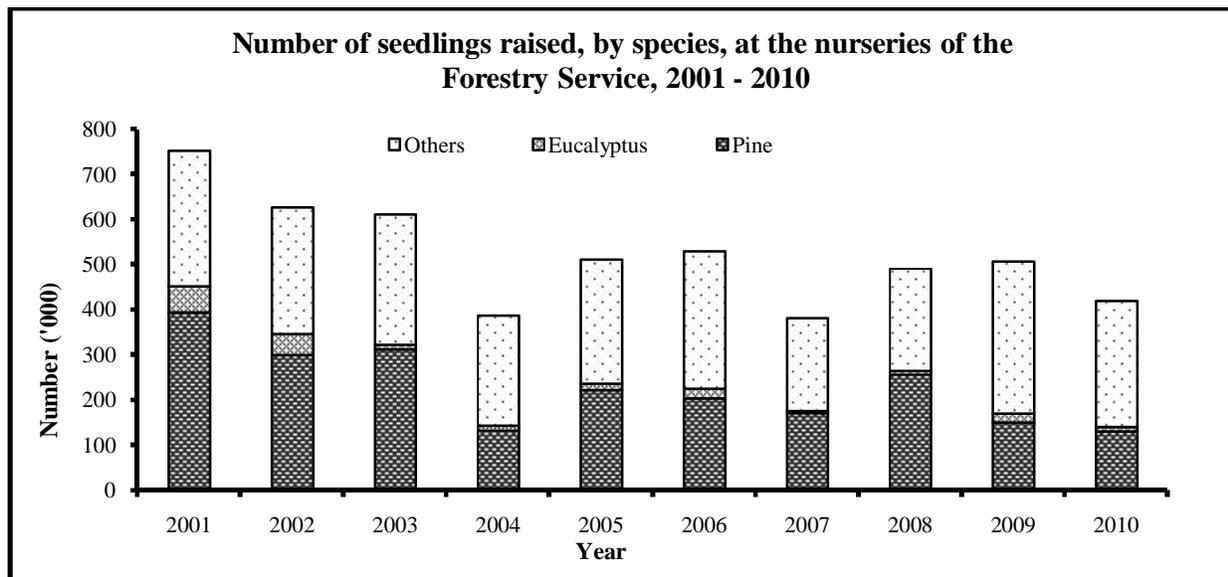
**Figure 3 - Percentage composition of forest plantations, 2010****Table 1.9 - Number of seedlings raised, by species, at the nurseries of the Forestry Service, 2001 – 2010**

Species	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Pine	393,768	300,119	313,293	133,162	222,975	203,594	170,840	256,748	150,216	130,988
Eucalyptus	57,871	47,018	10,000	11,400	12,535	20,950	5,000	7,700	20,500	9,925
Cryptomeria	4,100	14,531	6,265	14,722	8,820	455	1,382	1,688	1,852	4,766
Casuarina (Filao)	45,519	23,198	32,650	6,449	-	5,091	6,000	5,550	8,200	18,810
Araucaria	22,347	47,961	19,291	5,098	1,026	20,578	22,780	21,776	58,641	5,430
Juniper	-	818	-	55	-	7	-	423	114	160
Other <sup>1</sup>	228,313	193,063	231,219	189,397	264,990	279,615	200,578	197,135	267,384	250,149
<b>Total</b>	<b>751,918</b>	<b>626,708</b>	<b>612,718</b>	<b>360,283</b>	<b>510,346</b>	<b>530,290</b>	<b>406,580</b>	<b>491,020</b>	<b>506,907</b>	<b>420,228</b>

Source : Forestry Service, Ministry of Agro Industry and Food Security.

<sup>1</sup> includes ornamentals and indigenous forest trees.

**Figure 4 - Number of seedlings raised, by species, at the nurseries of the Forestry Service, 2001 - 2010**

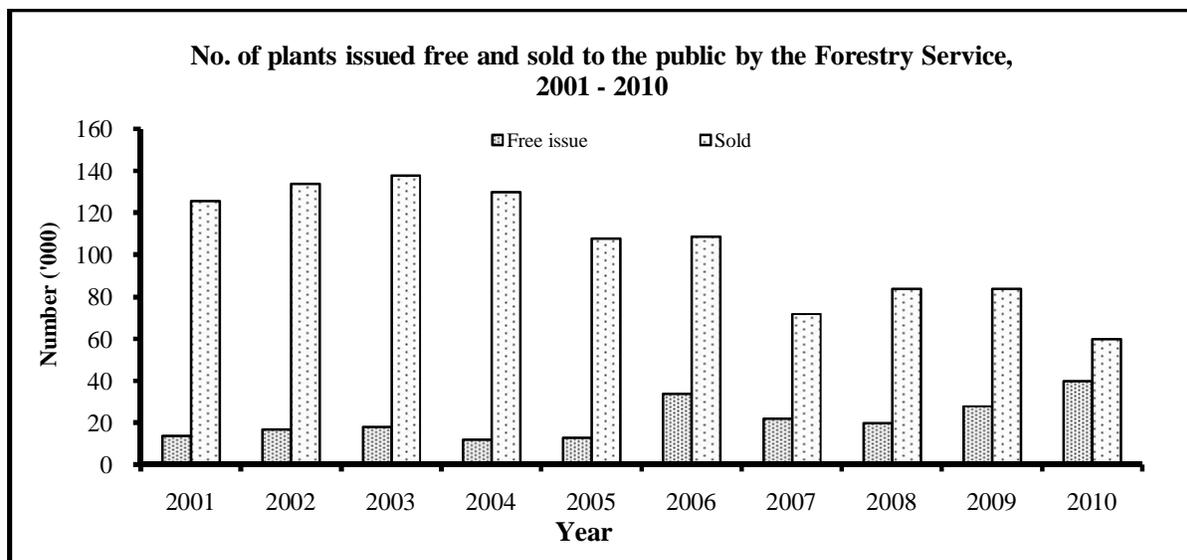


**Table 1.10 - Number of plants issued free and sold to the public by the Forestry Service, 2001 – 2010**

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Free issue	14,384	16,523	18,181	11,820	13,888	34,476	22,292	20,275	27,546	39,934
Sold	125,823	134,393	138,320	129,768	107,573	108,933	71,779	84,451	83,801	60,425

Source : Forestry Service, Ministry of Agro Industry and Food Security.

**Figure 5 - No. of plants issued free and sold to the public by the Forestry Service, 2001 – 2010**



**Table 1.11 - Revenue and expenditure<sup>1</sup> of the Forestry Service, 2001 – 2010**

Revenue item	Rupees thousand									
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Sales of forest produce	6,879	7,159	7,494	8,216	8,093	9,122	9,309	9,125	8,923	7,463
Shooting and fishing rights (Rental)	1,955	2,153	3,157	3,357	5,087	4,924	5,428	6,872	7,182	7,245
Registration Fees	...	...	...	...	...	...	1,374	143	14	42
Agricultural Lease	...	...	...	...	...	...	...	3	3	3
Horticulture Lease	...	...	...	...	...	...	24	-	-	0
Miscellaneous (Wood exploitation licence)	210	207	212	213	213	219	198	204	204	213
<b>Total revenue</b>	<b>9,044</b>	<b>9,519</b>	<b>10,863</b>	<b>11,786</b>	<b>13,393</b>	<b>14,265</b>	<b>16,333</b>	<b>16,344</b>	<b>16,326</b>	<b>14,966</b>
<b>Total expenditure</b>	<b>125,460</b>	<b>128,419</b>	<b>137,738</b>	<b>147,595</b>	<b>148,221</b>	<b>152,851</b>	<b>146,985</b>	<b>155,000</b>	<b>164,668</b>	<b>189,164</b>

Source : Forestry Service, Ministry of Agro Industry and Food Security.

<sup>1</sup>Total expenditure including both recurrent and capital expenditures.

**Table 1.12 - Selling rates of timber by type, class<sup>1</sup> and category<sup>2</sup>, 2001 – 2010**

Item	Rupees per cubic metre									
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
<b>Standing timber (basic royalty)</b>										
Class I	1,640	1,810	1,810	1,960	1,960	2,160	2,160	2,160	2,160	2,160
Class II	1,010	1,110	1,110	1,200	1,200	1,320	1,320	1,320	1,320	1,320
Class III										
<i>Category I</i>	800	880	880	950	950	1,050	1,050	1,050	1,050	1,050
<i>Category II</i>	650	715	715	770	770	850	850	850	850	850
Class IV	300	330	330	360	360	400	400	400	400	400
<b>Sound logs at roadside (basic royalty+labour)</b>										
Class I	2,400	2,640	2,640	2,850	2,850	3,140	3,140	3,140	3,140	3,140
Class II	1,770	1,950	1,950	2,110	2,110	2,320	2,320	2,320	2,320	2,320
Class III										
<i>Category I</i>	1,640	1,810	1,810	1,960	1,960	2,160	2,160	2,160	2,160	2,160
<i>Category II</i>	1,390	1,530	1,530	1,650	1,650	1,820	1,820	1,820	1,820	1,820
Class IV	1,080	1,190	1,190	1,290	1,290	1,420	1,420	1,420	1,420	1,420
<b>Sound logs at Curepipe timberstore (basic royalty+labour+transport)</b>										
Class I	3,540	3,900	3,900	4,210	4,210	4,630	4,630	4,630	4,630	4,630
Class II	2,910	3,200	3,200	3,460	3,460	3,810	3,810	3,810	3,810	3,810
Class III										
<i>Category I</i>	2,530	2,780	2,780	3,000	3,000	3,300	3,300	3,300	3,300	3,300
<i>Category II</i>	2,020	2,220	2,220	2,400	2,400	2,640	2,640	2,640	2,640	2,640
Class IV	1,770	1,950	1,950	2,110	2,110	2,320	2,320	2,320	2,320	2,320

Source: Forestry Service, Ministry of Agro Industry and Food Security.

<sup>1</sup> Quality of wood, in decreasing order from Class I to Class IV.

<sup>2</sup> Category I - timber of 24 cm diameter and above ; Category II - timber of 18 cm

**Table 1.13 – Proportion (%) of households using main fuel for cooking, 2000 and 2011 Housing Censuses, Republic of Mauritius.**

	2000	2011
Cooking Gas (LPG)	91.5	97.6
Electricity	0.5	0.3
Wood and Charcoal	4.5	1.9
Kerosene	3.4	0.1

# **CHAPTER 2**

## **FAUNA**

**Table 2.1 - Number of small breeders and livestock population by geographical district as at June 2010**

District	Cattle		Goat		Sheep		Pig	
	No. of farmers	Total no. of heads	No. of farmers	Total no. of heads	No. of farmers	Total no. of heads	No. of farmers	Total no. of heads
Pamplemousses	171	770	689	5,631	32	217	44	1,028
Riviere du Rempart	280	1,530	463	5,225	41	373	43	457
Flacq	237	778	795	5,921	30	278	91	3,533
Plaines Wilhems	86	625	97	1,438	9	238	23	891
Moka	87	1,323	56	678			13	375
Grand Port	107	650	270	2,382	19	182	54	1,393
Savanne	53	254	176	1,744	15	208	25	638
Black River/Port-Louis	106	1,561	383	4,800	11	526	208	14,335
<b>Total</b>	<b>1,127</b>	<b>7,491</b>	<b>2,929</b>	<b>27,819</b>	<b>157</b>	<b>2,022</b>	<b>501</b>	<b>22,650</b>

Source : Agricultural Research and Extension Unit, Ministry of Agro Industry and Food Security.

**Table 2.2 - Livestock herd and poultry status by geographical district as at June 2010**

District	Cattle						Pig						
	No. of farmers	Cows	Calves	Heifers	Bulls	Total no. of heads	No. of farmers	Boars	Sows	Piglets	Fatteners	Gilts	Total no. of heads
Pamplemousses	171	295	18	167	290	770	44	33	236	194	431	134	1,028
Riviere du Rempart	280	601	80	340	509	1,530	43	43	112	159	72	71	457
Flacq	237	314	51	226	187	778	91	111	351	867	2,071	133	3,533
Plaines Wilhems	86	235	49	179	162	625	23	24	112	272	427	56	891
Moka	87	583	232	368	140	1,323	13	17	31	113	174	40	375
Grand Port	107	217	44	272	117	650	54	55	236	344	558	200	1,393
Savanne	53	77	31	47	99	254	25	20	115	274	80	149	638
Black River/Port Louis	106	357	160	237	807	1,561	208	225	1,605	3,849	8,427	229	14,335
<b>Total</b>	<b>1,127</b>	<b>2,679</b>	<b>665</b>	<b>1,836</b>	<b>2,311</b>	<b>7,491</b>	<b>501</b>	<b>528</b>	<b>2,798</b>	<b>6,072</b>	<b>12,240</b>	<b>1,012</b>	<b>22,650</b>

Source: Agricultural Research and Extension Unit, Ministry of Agro Industry and Food Security.

**Table 2.2 (cont'd) - Livestock herd and poultry status by geographical district as at June 2010**

District	Sheep					Goat					Poultry <sup>1</sup>			
	No. of farmers	Ewes	Ram	Followers	Total no. of heads	No. of farmers	Bucks	Does	Kids	Total no. of heads	No. of farmers	Broilers	No. of farmers	Layers
Pamplemousses	32	65	789	74	217	689	1,697	1,319	2,615	5,631	40	89,250	39	93,555
Riviere du Rempart	41	192	159	22	373	463	1,803	2,083	1,339	5,225	42	73,831	64	24,241
Flacq	30	116	86	76	278	795	1,905	2,104	1,912	5,921	96	111,214	74	36,598
Plaines Wilhems	9	108	90	40	238	97	341	796	301	1,438	41	131,550	30	82,750
Moka	-	-	-	-	-	56	157	402	119	678	37	101,450	20	80,850
Grand Port	19	47	26	109	182	270	871	1,179	332	2,382	24	35,360	31	16,172
Savanne	15	88	44	76	208	176	378	769	597	1,744	63	321,660	58	113,875
Black River/Port Louis	11	176	160	190	526	383	1,016	1,386	2,398	4,800	25	130,200	21	18,790
<b>Total</b>	<b>157</b>	<b>792</b>	<b>643</b>	<b>587</b>	<b>2,022</b>	<b>2,929</b>	<b>8,168</b>	<b>10,038</b>	<b>9,613</b>	<b>27,819</b>	<b>368</b>	<b>994,515</b>	<b>337</b>	<b>466,831</b>

Source : Agricultural Research and Extension Unit, Ministry of Agro-industry and Food Security.

<sup>1</sup> Exclude industrial farms

**Table 2.3 - Production of selected agro-industrial products, Republic of Mauritius, 2001 – 2010**

Detail	Unit	2001	2002	2003	2004	2005	2006	2007	2008	2009 <sup>1</sup>	2010 <sup>2</sup>
Beef <sup>3</sup>	tonnes	2,248	2,428	2,505	2,456	2,484	2,187	1,847	1,902	2,090	2,194
<i>Local (including Rodrigues)</i>	"	375	208	202	137	73	99	90	27	37	88
<i>Imported</i>	"	1,873	2,221	2,303	2,319	2,411	2,088	1,757	1,875	2,054	2,106
Goat meat and mutton <sup>3</sup>	"	114	114	107	107	111	99	75	76	77	68
Pork <sup>3</sup>	"	882	756	785	743	709	681	511	330	428	623
Poultry	"	27,200	29,305	30,000	33,000	33,000	36,000	40,000	42,000	44,000	46,000
Milk	'000 Litres	4,000	4,000	4,000	4,000	4,000	4,000	3,500	3,300	3,400	3,600

<sup>1</sup> Revised<sup>2</sup> Provisional<sup>3</sup> abattoir slaughters only**Table 2.4 - Fish production by type of fishery (in fresh - weight equivalent), 2001 – 2010**

Type of fishery	Type	Tonnes									
		2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Artisanal fishery											
Island of Mauritius	Fresh	1,075	1,302	1,166	1,043	947	950	640	682	820	831
Sports fishery	Fresh	650	650	650	650	650	650	650	650	650	650
Amateur fishery	Fresh	300	300	300	300	300	300	300	300	300	300
Barachois	Fresh	6	7	6	4	4	2	2	2	0	0
Ponds (prawn and fish)	Fresh	52	39	27	437	374	436	17	62	57	66
Marine aquaculture (cage)	Fresh	-	-	-	-	-	-	150	181	366	498
FAD Fishery	Fresh	-	-	-	-	-	214	164	167	390	330
Offshore demersal fishery											
Shallow water banks	Frozen	3,366	3,943	3,713	3,216	2,178	3,112	2,848	2,428	2,685	2,137
Banks deep water snappers	Fresh	329	5	-	-	-	-	-	324	627	452
St Brandon inshore	Frozen & salted	557	491	578	311	414	235	177	560	437	421
Semi - industrial chilled fish	Chilled	188	204	234	178	223	311	171	173	459	446
Tuna fishery	Frozen	-	219	1,118	1,640	1,402	1,380	803	475	246	306
Semi - industrial pelagic fishery	Chilled	87	45	111	97	177	247	184	41	8	27
Demersal trawlers	Frozen	2,184	2,113	1,806	1,595	2,584	1,112	0	0	0	0
<b>Total</b>		<b>8,794</b>	<b>9,318</b>	<b>9,709</b>	<b>9,471</b>	<b>9,253</b>	<b>8,949</b>	<b>6,106</b>	<b>6,045</b>	<b>7,045</b>	<b>6,464</b>

Source : Albion Fisheries Research Centre, Ministry of Fisheries and Rodrigues.

**Table 2.5 - Annual fish catch of the coastal (artisanal) fishery by gear - type, 2001 – 2010**

Gear-type	Tonnes									
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Basket trap	357.5	450.8	492.6	425.3	433.8	343.8	251.2	270.9	257.8	266.5
Line	368.4	429.3	373.4	285.8	288.8	303.7	169.9	178.7	227.2	226.7
Basket trap and Line	59.1	91.8	17.5	54.9	16.8	19.6	16.2	13.9	18.3	28.0
Large net	172.9	183.4	160.6	168.1	121.5	201.1	132.7	143.6	222.9	213.5
Gill net	11.4	25.3	13.6	11.3	8.2	11.3	7.6	6.7	11.3	7.6
Cast net/Harpoon/on foot	105.9	121.1	108.1	97.4	78.2	70.5	62.4	68.2	82.8	89.1
<b>Total</b>	<b>1,075.2</b>	<b>1,301.7</b>	<b>1,165.8</b>	<b>1,042.8</b>	<b>947.3</b>	<b>950.0</b>	<b>640.0</b>	<b>682.0</b>	<b>820.4</b>	<b>831.4</b>

Source: Albion Fisheries Research Centre, Ministry of Fisheries and Rodrigues.

**Table 2.6 - Number of active fishermen by gear - type, 2001 – 2010**

Gear-type	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Basket trap	519	501	473	445	493	275	283	275	279	246
Line/Harpoon	678	734	749	896	789	764	770	795	733	594
Basket trap and Line	610	600	670	736	689	1,111	876	807	862	790
Large net	180	165	177	159	189	149	137	138	133	127
Gill net	27	28	17	20	14	13	12	13	13	13
<b>Total</b>	<b>2,014</b>	<b>2,028</b>	<b>2,086</b>	<b>2,256</b>	<b>2,174</b>	<b>2,312</b>	<b>2,078</b>	<b>2,028</b>	<b>2,020</b>	<b>1,770</b>

Source: Albion Fisheries Research Centre, Ministry Fisheries and Rodrigues.

**Table 2.7 - Fisherman-days and total catch <sup>1</sup> from the lagoon and off lagoon, 2001 – 2010**

Year	Fisherman-days			Catch (tonnes)
	Lagoon	Off lagoon	Total	
2001	144,927	93,744	238,671	1,075
2002	192,116	108,708	300,824	1,302
2003	189,988	83,362	273,350	1,166
2004	195,087	58,516	263,603	1,043
2005	153,771	77,429	231,200	947
2006	145,089	68,961	241,050	950
2007	92,261	51,622	144,883	640
2008	77,719	44,248	112,967	682
2009	83,880	43,463	127,343	820
2010	88,167	40,587	128,754	831

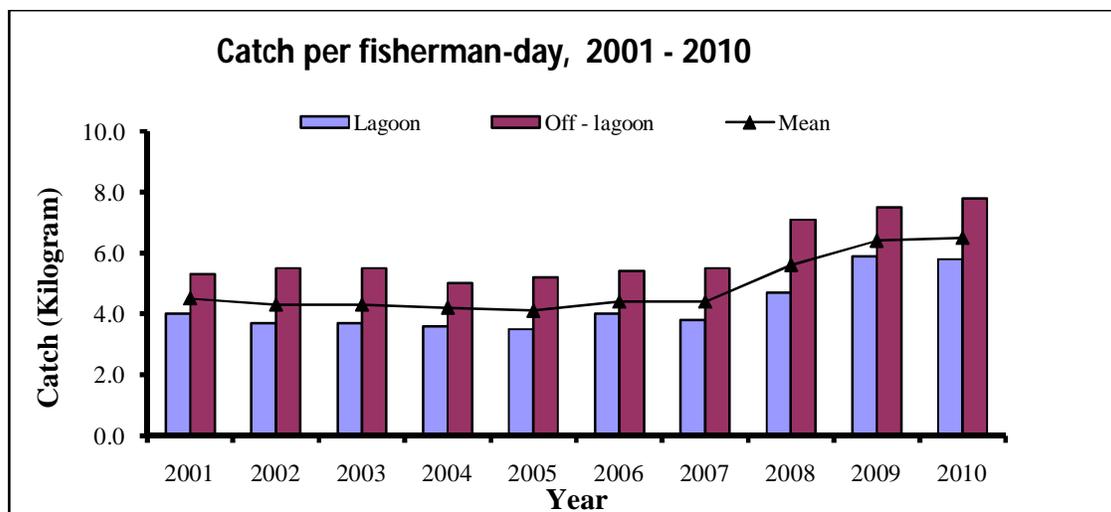
Source: Albion Fisheries Research Centre, Ministry of Fisheries and Rodrigues.

<sup>1</sup> Coastal (artisanal) fishery

**Table 2.8 – Catch per fisherman – day, 2001 – 2010**

Year	Kilogram		
	Lagoon	Off - lagoon	Mean
2001	4.0	5.3	4.5
2002	3.7	5.5	4.3
2003	3.7	5.5	4.3
2004	3.6	5.0	4.2
2005	3.5	5.2	4.1
2006	4.0	5.4	4.4
2007	3.8	5.5	4.4
2008	4.7	7.1	5.6
2009	5.9	7.5	6.4
2010	5.8	7.8	6.5

Source : Albion Fisheries Research Centre, Ministry of Fisheries and Rodrigues.

**Figure 6 - Catch per fisherman-day, 2001 – 2010**

**Table 2.9 - Average price of fresh fish and other sea food, 2001 – 2010**

Species	Rupees per kilogram									
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Homard	475	475	480	495	515	550	600	680	690	750
Crab and crevette	270	295	285	275	290	275	320	320	355	365
Vieille rouge	180	185	180	190	215	230	255	275	290	300
Vacoas, sacrechien	145	150	150	160	160	175	175	210	245	260
Capitaine	140	145	140	155	170	170	180	200	220	235
Dame berry	130	135	130	140	150	170	170	190	210	230
Octopus	100	100	100	105	125	130	135	150	160	170
Carangue	100	110	100	115	115	120	130	150	155	165
Cordonier	85	85	90	100	105	115	120	140	145	155
Rouget, tuna	80	80	85	90	95	110	115	136	150	160
Mulet voile	75	75	80	85	95	100	105	130	140	145
Bordemar	80	80	85	100	95	90	110	135	140	150
Licorne	85	95	95	100	115	115	125	150	160	165
Cateaux	65	70	75	75	70	85	90	105	110	120
Other fish	45	45	40	55	50	65	75	50	60	90
Shark	35	35	55	45	45	50	50	50	60	65

Source: Albion Fisheries Research Centre, Ministry of Fisheries and Rodrigues.

**Table 2.10 - Annual catch by banks, 2001 – 2010**

Year	Tonnes <sup>1</sup>					
	Saya de Malha	Nazareth	St. Brandon <sup>2</sup>	Chagos	Albatros <sup>3</sup>	Total catch
2001	1,283	1,366	359	228	202	3,438
2002	2,090	918	375	223	161	3,767
2003	2,355	469	510	235	172	3,741
2004	1,693	881	359	124	117	3,174
2005	1,028	578	344	0	163	2,113
2006	1,645	777	292	136	177	3,027
2007	1,513	732	140	130	74	2,589
2008	978	760	454	0	129	2,321
2009	1,835	237	390	161	0	2,623
2010	731	741	366	0	0	1,838

Source: Albion Fisheries Research Centre, Ministry of Fisheries and Rodrigues.

<sup>1</sup> Product weight = Brought frozen without offals

<sup>2</sup> St Brandon includes frozen, salted and chilled fish product weight

<sup>3</sup> Albatross include catch by banks and from St Brandon

**Table 2.11 - Import, export and trade balance of fish and fish products, 2001 – 2010**

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
<b>Imports</b>										
Quantity (tonnes)	52,050	87,335	63,515	81,315	104,830	150,728	129,085	113,608	139,342	155,000
Value (Rupees million)	1,754.3	3,984.7	2,540.4	3,186.6	4,261.2	6,720.9	7,068.0	8,457.4	7,108.3	7,810.0
<b>Exports</b>										
Quantity (tonnes)	27,381	49,558	50,329	54,241	67,249	79,707	86,170	66,205	87,938	107,740
Value (Rupees million)	1,840.8	4,078.6	3,167.3	3,358.1	4,842.1	7,120.4	8,172.8	8,015.2	9,041.2	10,118.0
Trade Balance (Rupees million)	86.5	93.9	624.9	171.5	580.9	395.5	1,104.8	-532.2	1,932.9	2,308.0

Source: Albion Fisheries Research Centre, Ministry of Fisheries and Rodrigues.

**Table 2.12 - Total number and type of fishing vessels calling at Port Louis, 2001 – 2010**

Type/category	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Tuna long liners and squid vessels	476	448	392	419	628	708	561	428	465	469
Purse seiners (local)	-	-	2	2	8	9	13	14	30	20
Reefers	50	39	42	33	32	48	62	83	72	65
Trawlers	52	22	20	20	13	13	8	15	12	19
Hand liners	56	108	179	217	190	179	137	176	168	152
Long liners (Ice cod fish sp.) (Patagonian tooth fish vessel)	62	44	51	24	19	21	18	25	21	18
Others, unspecified vessels	...	2	2	3	4	1	1	3	4	9
<b>Total</b>	<b>696</b>	<b>663</b>	<b>688</b>	<b>718</b>	<b>894</b>	<b>979</b>	<b>800</b>	<b>744</b>	<b>772</b>	<b>752</b>

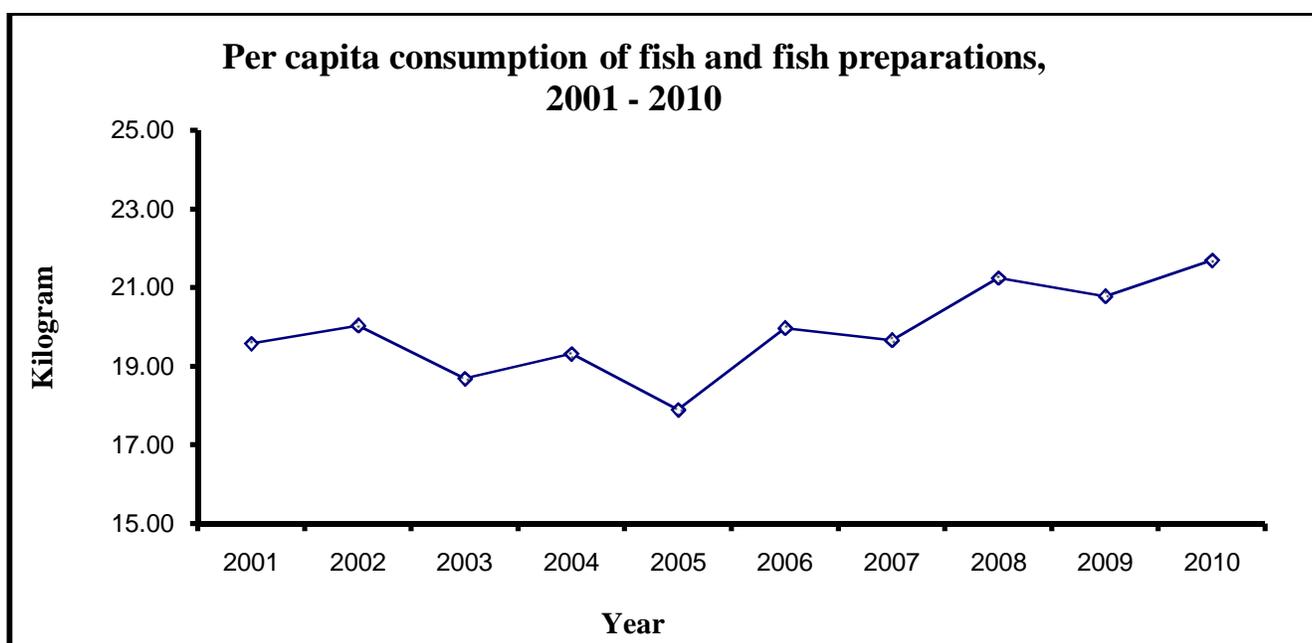
Source: Albion Fisheries Research Centre, Ministry of Fisheries and Rodrigues.

Table 2.13 - Per capita consumption of fish and fish preparations, 2001 – 2010

Kilogram/year

Year	Quantity
2001	19.58
2002	20.04
2003	18.69
2004	19.32
2005	17.90
2006	19.98
2007	19.67
2008	21.25
2009	20.79
2010	21.70

Figure 7 - Per capita consumption of fish and fish preparations, 2001 – 2010



**Table 2.14 - Cases of poisoning <sup>1</sup> by noxious fish and shellfish, venomous animals and toxic plants, 2001– 2010**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
<b>Total</b>										
General hospital discharges due to accidental poisoning by noxious fish and shellfish	67	26	79	50	60	46	32	39	32	39
General hospital discharges due to venomous animals and plants as the cause of poisoning and toxic reactions	189	93	159	222	193	287	150	116	109	168
<b>Male</b>										
General hospital discharges due to accidental poisoning by noxious fish and shellfish	33	12	40	19	24	21	18	20	14	15
General hospital discharges due to venomous animals and plants as the cause of poisoning and toxic reactions	144	71	109	176	137	167	112	77	82	131
<b>Female</b>										
General hospital discharges due to accidental poisoning by noxious fish and shellfish	34	14	39	31	36	25	14	19	18	24
General hospital discharges due to venomous animals and plants as the cause of poisoning and toxic reactions	45	22	50	46	56	120	38	39	27	37

Source: Statistics Unit, Ministry of Health and Quality of Life

<sup>1</sup> Cases treated as in - patients in Government General Hospitals**Table 2.15 - List of fishable areas, Republic of Mauritius**

Region	Depth	Area
Mauritius	Up to 100 metres	1,208
Banks		
Saint Brandon	0 - 35 metres	2,950
Nazareth	0 - 35 metres	7,625
Saya de Malha	0 - 100 metres	28,350
Chagos	0 - 35 metres	6,830
Rodrigues	0 - 100 metres	1,688
Agalega	0- 100 metres	15
Tromelin	...	...
<b>Total</b>		<b>48,666</b>

Source : State of the Environment Report - 1991

Table 2.16 - Percentage of substrate cover at various monitoring stations, 2009 – 2010

Site		Year	Coral	Algae	Abiotic <sup>1</sup>	Other <sup>2</sup>
Baie du Tombeau	Back reef	2009	27	15	58	n.o
		2010	34	20	46	n.o
Le Goulet	Fore reef	2009	29	5	60	6
		2010	29	46	19	6
Ile aux Benitiers	Fore reef	2009	13	3	82	2
		2010	17	2	79	2
	Back reef	2009	3	12	85	n.o
		2010	1	5	94	n.o
	Shore reef	2009	<1	46	54	n.o
		2010	1	72	27	n.o
BelOmbre	Back reef	2009	22	57	21	n.o
		2010	20	59	26	3
	Shore reef	2009	41	2	57	n.o
		2010	18	3	79	n.o
BambousVirieux	Back reef	2009	55	22	22	1
		2010	51	4	44	1
	Shore reef	2009	26	36	37	1
		2010	26	49	24	1
Troud'eauDouce	Back reef	2009	10	40	49	1
		2010	20	49	31	n.o
	Shore reef	2009	20	49	31	n.o
		2010	13	24	63	n.o
Anse La Raie	Back reef	2009	20	42	39	n.o
		2010	18	45	37	n.o
	Shore reef	2009	<1	49	51	n.o
		2010	0	28	72	n.o
Trou Aux Biches	Fore reef	2009	NM	NM	NM	NM
		2010	19	28	51	2
	Back reef	2009	31	4	65	n.o
		2010	21	14	65	n.o
Pointe Aux Sables	Fore reef	2009	12	16	73	n.o
		2010	7	12	80	1
	Back reef	2009	2	<1	93	5
		2010	1	6	92	1
Albion	Fore reef	2009	18	1	73	8
		2010	NM	NM	NM	NM
	Back reef	2009	1	14	84	2
		2010	9	4	86	1
Poudre D'Or Site I	Back reef	2009	7	50	43	n.o
		2010	2	46	51	1
Poudre D'Or Site II	Back reef	2009	<1	<1	100	n.o
		2010	0	6	94	n.o
Belle Mare (Site I)	Back reef	2009	52	26	22	n.o
		2010	56	26	18	n.o
Belle Mare (Site II)	Back reef	2009	47	11	43	n.o
		2010	47	13	38	2

Source : Albion Fisheries Research Centre, Ministry of Fisheries and Rodrigues.

<sup>1</sup> Rocks, sand, dead corals etc. <sup>2</sup> Sponges, crown of thorns (starfish), sea urchins etc ; n.o: Not observed NM: Not monitored

**Table 2.17 - List of Marine Protected Areas, 2010**

	Hectares
<b>Marine protected areas</b>	<b>Area</b>
<b>Marine parks</b>	<b>838</b>
Blue bay	353
Balaclava	485
<b>Fishing reserves</b>	<b>6,352</b>
Port Louis	331
Poudre d'Or	2,542
Poste La Fayette	280
Trou d'Eau Douce	574
Grand Port zone A	1,716
Grand Port zone B	112
Black River	797
<b>Wetland</b>	<b>26</b>
Rivulet Terre Rouge Estuary Bird Sanctuary	26
<b>Total</b>	<b>7,216</b>

Source: Albion Fisheries Research Centre, Ministry of Fisheries and Rodrigues.

# **CHAPTER 3**

## **ATMOSPHERE**

**Table 3.1- Monthly mean maximum temperature, 2001 – 2010**

YEAR	Degrees celcius																							
	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Mean	Difference from Normal	Mean	Difference from Normal	Mean	Difference from Normal	Mean	Difference from Normal	Mean	Difference from Normal	Mean	Difference from Normal	Mean	Difference from Normal	Mean	Difference from Normal	Mean	Difference from Normal	Mean	Difference from Normal	Mean	Difference from Normal	Mean	Difference from Normal
2001	29.8	0.5	29.6	0.3	29.7	0.6	28.4	0.3	27.3	0.7	24.6	-0.4	24.5	0.3	24.8	0.7	26.1	1.1	26.7	0.5	28.0	0.3	29.8	1.0
2002	29.3	0.0	30.2	0.8	29.5	0.4	28.5	0.3	26.6	0.0	24.6	-0.4	24.3	0.1	23.9	-0.2	25.2	0.2	26.6	0.4	28.5	0.8	29.2	0.4
2003	30.3	1.0	29.9	0.6	29.5	0.5	28.7	0.6	27.2	0.6	24.8	-0.3	23.3	-0.9	23.9	-0.2	24.9	-0.1	26.8	0.6	28.2	0.2	30.0	1.0
2004	29.5	-0.1	30.2	0.7	29.6	0.4	28.1	-0.2	25.8	-1.1	24.2	-1.0	24.5	0.2	24.8	0.4	25.8	0.7	26.8	0.4	27.9	-0.1	28.7	-0.3
2005	30.5	0.9	29.9	0.5	29.5	0.4	29.1	0.8	26.7	-0.1	25.1	0.0	24.1	-0.1	24.3	-0.1	24.7	-0.5	25.8	-0.6	27.3	-0.7	29.3	0.2
2006	29.6	0.0	29.4	0.1	29.1	-0.1	28.9	0.7	27.6	0.8	25.7	0.6	24.4	0.1	24.3	0.0	25.4	0.3	26.5	0.1	28.6	0.6	30.3	1.3
2007	30.3	0.7	29.8	0.4	29.2	0.0	28.6	0.4	27.5	0.7	25.2	0.0	25.1	0.9	24.9	0.6	25.7	0.5	26.2	-0.3	28.4	0.4	29.9	0.8
2008	29.5	0.0	29.4	0.0	28.7	-0.5	29.0	0.8	27.0	0.2	24.6	-0.6	24.0	-0.2	24.7	0.4	25.5	0.4	26.6	0.2	28.7	0.7	30.0	0.9
2009	30.9	1.4	30.3	0.9	29.7	0.5	28.9	0.6	27.5	0.7	26.2	1.1	24.2	0.0	24.3	0.0	25.4	0.2	26.8	0.4	27.7	-0.3	29.6	0.6
2010	29.9	0.4	30.5	1.1	29.9	0.7	29.2	0.9	28.0	1.1	26.5	1.3	24.7	0.5	24.6	0.3	25.8	0.6	27.3	0.9	28.1	0.1	29.7	0.7

Source: Meteorological Services

**Table 3.2 - Monthly mean minimum temperature, 2001 – 2010**

YEAR	Degrees Celcius																							
	JAN		FEB		MAR		APR		MAY		JUN		JUL		AUG		SEP		OCT		NOV		DEC	
	Mean	Difference from Normal	Mean	Difference from Normal	Mean	Difference from Normal	Mean	Difference from Normal	Mean	Difference from Normal	Mean	Difference from Normal	Mean	Difference from Normal	Mean	Difference from Normal	Mean	Difference from Normal	Mean	Difference from Normal	Mean	Difference from Normal	Mean	Difference from Normal
2001	22.7	1.0	22.6	0.5	22.3	0.5	21.5	0.7	19.9	1.0	17.0	-0.3	16.5	-0.2	...	...	17.1	0.3	18.1	0.1	19.0	-0.4	20.4	-0.6
2002	21.7	-0.1	22.0	0.0	22.4	0.5	20.8	0.0	20.2	1.4	17.8	0.6	17.9	1.2	17.1	0.7	17.2	0.4	18.7	0.8	20.3	0.9	22.1	0.2
2003	22.7	0.9	22.4	0.4	22.3	0.4	22.2	1.4	21.1	2.2	17.2	-0.1	17.1	0.4	16.8	0.4	18.3	1.5	18.8	0.8	20.0	0.7	21.7	0.8
2004	22.5	0.6	23.4	1.2	23.1	1.2	21.5	0.5	19.2	0.2	17.4	0.0	17.7	1.0	17.9	1.3	18.0	1.1	18.4	0.4	20.1	0.7	21.5	0.6
2005	23.1	1.1	22.8	0.6	22.6	0.8	21.4	0.5	20.2	1.1	17.9	0.5	17.3	0.5	16.9	0.2	18.1	1.2	17.9	-0.1	19.3	0.0	21.0	0.0
2006	22.3	0.4	22.8	0.6	23.1	1.3	21.6	0.6	18.9	-0.1	18.8	1.4	17.4	0.7	16.8	0.2	17.6	0.7	18.5	0.5	20.6	1.2	22.4	1.5
2007	23.5	1.5	23.5	1.3	22.2	0.4	21.9	1.0	20.1	1.0	17.7	0.3	17.7	1.0	17.1	0.4	17.7	0.8	18.8	0.8	19.9	0.5	21.9	1.0
2008	22.6	0.6	22.8	0.6	21.9	0.1	20.9	0.0	19.3	0.3	18.0	0.6	16.8	0.1	17.8	1.2	18.8	1.9	19.5	1.5	20.6	1.3	21.8	0.9
2009	22.8	0.8	23.3	1.1	22.7	0.9	22.6	1.7	20.0	0.9	18.6	1.2	17.8	1.0	17.5	0.9	17.6	0.7	19.2	1.2	20.6	1.3	22.0	1.0
2010	22.9	1.0	23.4	1.1	23.1	1.3	21.5	0.5	20.9	1.8	19.1	1.7	17.3	0.6	17.0	0.4	17.0	0.1	19.0	1.0	19.6	0.2	20.8	-0.1

**Table 3.3 - Monthly mean values of humidity (%) with extremes for the year 2010**

Region	Station		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
West	Medine	2010	81	79	80	78	78	75	80	73	77	72	72	76
		Highest Maximum	99	94	93	96	95	94	98	93	100	96	96	99
		Lowest Minimum	61	54	50	59	49	50	42	49	36	51	51	38
		LTM (1986 - 2000)	79	82	80	79	78	78	77	76	75	76	77	78
North	Pamplemousses	2010	79	78	83	84	81	76	74	86	83	85	85	86
		Highest Maximum	97	95	99	96	97	95	96	99	97	97	97	98
		Lowest Minimum	64	59	65	65	65	54	52	62	56	59	58	62
		LTM (1971 - 2000)	80	84	83	83	82	82	81	80	78	77	77	80
East	FUEL	2010	84	86	87	88	81	76	74	83	79	81	80	79
		Highest Maximum	96	95	95	96	92	97	89	94	98	96	94	92
		Lowest Minimum	60	58	65	70	51	52	56	52	45	50	49	49
		LTM (1981 - 2000)	84	87	84	85	83	81	82	82	82	82	81	83
South	Plaisance	2010	79	80	82	81	81	76	75	76	74	79	78	79
		Highest Maximum	96	98	97	97	96	97	95	97	95	97	98	97
		Lowest Minimum	56	57	60	59	52	47	46	51	50	53	50	56
		LTM (1981 - 2000)	82	84	84	84	82	79	78	78	78	78	78	80
Centre	Vacoas	2010	84	86	86	86	87	84	85	85	82	84	82	83
		Highest Maximum	99	99	98	98	100	99	99	98	99	99	99	99
		Lowest Minimum	56	57	60	57	57	55	57	57	49	53	53	52
		LTM (1971 - 2000)	81	84	84	84	82	82	82	81	80	80	79	81

LTM: Long Term Mean

Source : Meteorological Services

**Table 3.4 - Monthly total hours of sunshine by region and station, 2001 – 2010**

													Hours
Region : North, Station : Pamplemousses													
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YEARLY TOTAL
Year													
2001	190	192	240	247	249	221	235	270	249	244	269	185	2,791
2002	198	248	221	239	176	236	193	265	249	270	244	201	2,740
2003	213	181	230	162	219	237	190	264	250	272	218	287	2,723
2004	215	223	242	227	226	245	241	247	241	252	253	169	2,781
2005	279	143	175	271	212	256	209	267	241	257	240	275	2,825
2006	273	240	211	245	243	250	248	255	240	274	239	283	3,001
2007	187	156	219	236	225	187	240	239	256	236	290	285	2,756
2008	234	204	217	266	216	211	234	230	218	269	246	262	2,807
2009	248	193	218	201	248	239	216	216	229	258	248	232	2,746
2010	200	230	188	273	233	199	216	233	214	268	245	314	2,822
Mean 1971-2000	250	217	235	223	236	223	237	238	225	255	261	248	2,848

Table 3.4 (Cont'd) - Monthly total hours of sunshine by region and station, 2001 – 2010

Hours

Region: East, Station: Fuel													YEARLY TOTAL
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
<b>Year</b>													
2001	164	191	238	187	217	206	186	209	213	244	274	203	2,532
2002	200	241	192	204	129	177	134	186	210	241	217	145	2,276
2003	208	195	217	121	143	193	132	212	175	237	215	261	2,309
2004	197	217	207	193	194	195	182	214	195	231	193	161	2,379
2005	267	145	188	253	165	185	175	225	182	210	212	271	2,478
2006	251	207	186	219	232	195	192	195	215	200	195	215	2,502
2007	135	129	201	182	188	151	193	178	204	165	243	249	2,218
2008	176	165	177	224	181	173	205	169	158	227	201	235	2,291
2009	247	193	183	165	197	204	173	167	202	203	185	234	2,353
2010	172	183	172	235	189	185	196	196	167	224	243	289	2,451
Mean 1971-2000	216	186	209	179	194	183	188	188	190	210	220	217	2,380
Region : West, Station : Medine													YEARLY TOTAL
<b>Year</b>													
2001	203	178	220	213	237	209	225	233	235	254	264	241	2,712
2002	213	219	226	199	179	241	199	242	222	233	224	191	2,588
2003	227	186	206	135	203	233	164	249	219	267	206	263	2,558
2004	206	216	249	229	238	251	224	212	227	257	239	202	2,750
2005	300	198	198	270	223	221	205	256	219	262	254	277	2,883
2006	246	212	222	217	258	251	249	236	224	254	205	251	2,825
2007	185	176	224	228	227	188	250	250	252	222	269	259	2,730
2008	208	195	229	253	223	197	239	197	201	254	242	252	2,690
2009	257	198	195	201	235	238	204	225	225	211	248	233	2,670
2010	206	230	235	261	266	233	224	220	231	284	270	287	2,946
Mean 1981-2000	233	206	228	214	236	218	230	228	216	237	234	236	2,715
Region : Centre, Station : Vacoas													YEARLY TOTAL
2001	202	190	244	228	250	225	233	215	220	254	270	185	2,716
2002	184	223	208	209	160	212	181	230	236	249	241	196	2,529
2003	215	165	230	129	193	227	169	230	195	251	218	270	2,492
2004	189	185	214	207	210	208	202	217	206	236	239	178	2,491
2005	289	148	167	245	208	225	200	235	212	237	216	258	2,640
2006	268	203	200	227	238	229	218	220	225	265	229	281	2,803
2007	185	155	213	218	219	205	245	239	240	232	272	288	2,711
2008	230	194	220	259	221	184	226	214	227	269	222	260	2,726
2009	229	199	226	206	236	237	204	199	221	221	229	220	2,627
2010	164	213	190	267	237	227	213	205	194	254	238	280	2,680
Mean 1971-2000	226	194	225	206	228	216	225	222	219	237	236	223	2,657

Source : Meteorological Services

Table 3.4 (cont'd) - Monthly total hours of sunshine by region and station, 2001 – 2010

Region : South , Station : Plaisance													Hours
Month	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	YEARLY TOTAL
Year													
2001	224	223	252	210	218	185	190	215	234	263	280	249	2,743
2002	239	258	192	211	149	184	150	183	225	219	253	191	2,452
2003	218	201	239	147	171	195	119	199	174	276	251	304	2,494
2004	282	222	202	193	179	173	175	194	203	237	226	172	2,458
2005	259	154	175	240	162	165	148	225	182	213	208	286	2,417
2006	155	218	186	222	231	208	213	199	222	240	231	262	2,587
2007	155	165	218	188	184	137	186	167	219	198	286	293	2,396
2008	233	222	213	248	186	155	184	165	184	249	256	297	2,592
2009	281	197	216	156	184	194	143	162	222	216	221	256	2,448
2010	204	195	187	247	213	191	184	175	179	241	274	326	2,615
Mean 1971-1990	247	205	218	191	197	177	179	188	199	237	253	251	2,542

Source : Meteorological Services

Table 3.5 - Ambient air quality monitoring by mobile stations, 2010

Pollutant	Unit	Ambient air quality standard 24 hour average	Beau Bassin		La Tour Koenig		Bramsthan, Flacq		Cassis	
			Minimum	Maximum	Minimum	Maximum	Minimum	Maximum	Minimum	Maximum
			Period							
			Jan 2010 - Mar 2010	Apr 2010 - May 2010	Jun 2010 - Aug 2010	Oct 2010 - Dec 2010				
Dust (TSP) <sup>1</sup>	µg/m <sup>3</sup>	150	11.70	216.8	18.30	71.84	26.19	82.00	34.53	212.40
Dust (PM <sub>10</sub> ) <sup>2</sup>	µg/m <sup>3</sup>	100	Not measured		11.20	32.40	15.50	57.16	Not measured	

Table 3.5 (Cont'd) - Ambient air quality monitoring by mobile stations, Island of Mauritius, 2010

Pollutant	Unit	Ambient air quality standard (Average)	Le Hochet - Terre Rouge		Baie Du Tombeau	
			Minimum	Maximum	Minimum	Maximum
			Period			
			Feb 2010 - Apr 2010	June 2010 - Aug 2010		
Sulphur Dioxide	ppb <sup>3</sup>	122 (1 hour)	0.8	65.2	0.0	139.0
		70 (24 hours)	1.0	18.0	1.5	81.0
Nitrogen Dioxide	ppb <sup>3</sup>	98 (24 hours)	0.0	6.0	0.5	12.0
Carbon Monoxide	ppm <sup>4</sup>	20 (1 hour)	0.4	1.0	0.0	2.06
		8 (8 hours)	0.4	1.0	0.0	1.05

<sup>1</sup> TSP stands for Total Suspended Particles<sup>2</sup> PM<sub>10</sub> stands for Particulate Matter of size less or equal to 10 microns<sup>3</sup> ppb stands for Parts Per Billion<sup>4</sup> ppm stands for Parts Per Million

Source: Ministry of Environment and Sustainable Development

**Table 3.6 - Total emissions and removals of greenhouse gases, Republic of Mauritius, 2006 – 2010<sup>1</sup>**

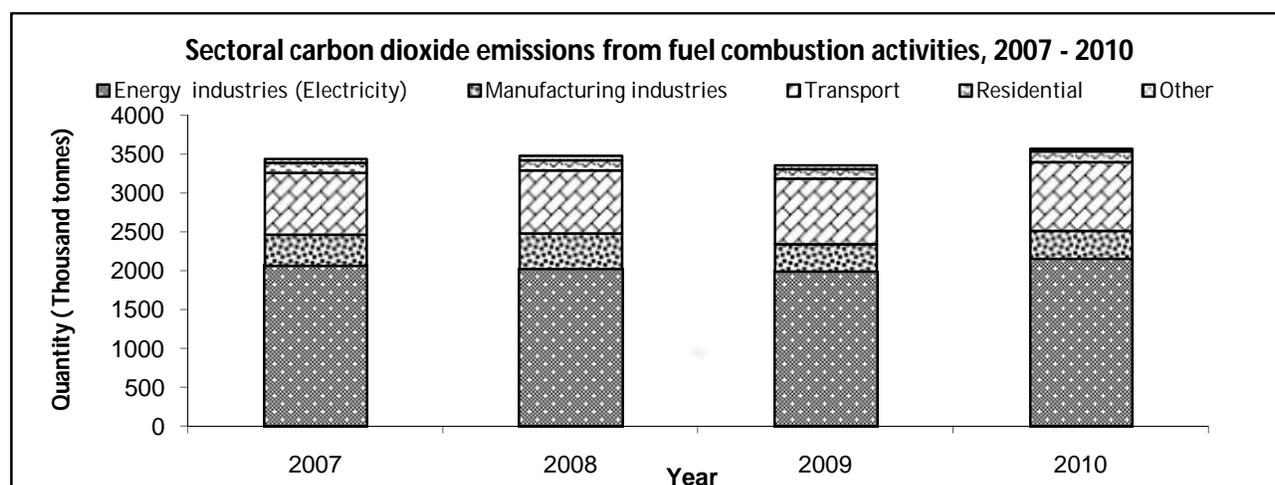
Greenhouse gas	Gg or thousand tonne				
	2006	2007	2008	2009	2010
<b>Emissions</b>					
Carbon Dioxide	3,348.9	3,449.6	3,487.1	3,367.6	3,583.2
Methane	13.0	12.6	37.3	21.3	37.4
Oxide of Nitrogen	16.6	16.6	18.1	17.5	18.8
Nitrous Oxide	1.2	1.3	1.1	1.0	1.0
Carbon Monoxide	64.8	65.4	66.6	64.0	68.4
NMVOC <sup>2</sup>	17.7	17.1	16.5	17.6	18.3
Sulphur Dioxide	33.0	35.1	33.2	33.6	34.0
<b>Removals</b>					
Carbon Dioxide	193.2	224.0	300.0	293.0	293.0
<b>Net emissions</b>					
Carbon Dioxide	<b>3,155.6</b>	<b>3,225.6</b>	<b>3,187.1</b>	<b>3,074.6</b>	<b>3,290.2</b>

<sup>1</sup> Provisional

Note: The inventory compilation is under revision

**Table 3.7 - Sectoral carbon dioxide emissions from fuel combustion activities, Republic of Mauritius, 2007 – 2010<sup>1</sup>**

	Gg or thousand tonne							
	2007		2008		2009		2010	
	Quantity	%	Quantity	%	Quantity	%	Quantity	%
Energy industries (electricity)	2,067.9	60.0	2,032.0	58.3	1,997.0	59.4	2,158.3	60.2
Manufacturing industries	400.3	11.6	456.0	13.1	351.6	10.4	360.4	10.1
Transport	800.1	23.2	813.0	23.3	844.8	25.1	887.0	24.8
Residential	130.6	3.8	131.0	3.8	122.8	3.6	135.6	3.8
Other <sup>2</sup>	49.3	1.4	53.8	1.5	49.1	1.5	39.7	1.1
<b>Total</b>	<b>3,346.7</b>	<b>100.0</b>	<b>3,485.8</b>	<b>100.0</b>	<b>3,365.3</b>	<b>100.0</b>	<b>3,581.0</b>	<b>100.0</b>

<sup>1</sup> Provisional<sup>2</sup> includes Agriculture and Trade**Figure 8 - Sectoral carbon dioxide emissions from fuel combustion activities, 2007 – 2010**

**Table 3.8 - National inventory of greenhouse gas emissions and removals by source categories, Republic of Mauritius, 2009 - 2010 <sup>1</sup>**

Gg or thousand tonne

	Carbon dioxide(CO <sub>2</sub> )		Methane		Nitrous oxide		Oxides of		Carbon monoxide		NMVOC <sup>2</sup>		Sulphur dioxide			
	Emissions		Removals		(CH <sub>4</sub> )		(N <sub>2</sub> O)		nitrogen (NO <sub>x</sub> )		(CO)		(SO <sub>2</sub> )			
	2009	2010	2009	2010	2009	2010	2009	2010	2009	2010	2009	2010	2009	2010		
1. Energy	3,365.3	3,581.0	-	-	0.4	0.5	0.0	0.0	17.5	18.8	64.0	68.4	8.2	8.8	33.6	34.0
Fuel combustion activities																
<i>(a) Energy industries (electricity)</i>	<i>1,997.0</i>	<i>2,158.3</i>	<i>-</i>	<i>-</i>	<i>0.3</i>	<i>0.3</i>	<i>0.0</i>	<i>0.0</i>	<i>8.5</i>	<i>8.9</i>	<i>7.9</i>	<i>8.0</i>	<i>0.1</i>	<i>0.1</i>	<i>27.7</i>	<i>26.4</i>
<i>(b) Manufacturing industries</i>	<i>351.6</i>	<i>360.4</i>	<i>-</i>	<i>-</i>	<i>0.1</i>	<i>0.1</i>	<i>0.0</i>	<i>0.0</i>	<i>1.2</i>	<i>0.4</i>	<i>13.9</i>	<i>14.5</i>	<i>0.1</i>	<i>0.1</i>	<i>4.9</i>	<i>6.5</i>
<i>(c) Transport</i>	<i>844.8</i>	<i>887.0</i>	<i>-</i>	<i>-</i>	<i>0.0</i>	<i>0.1</i>	<i>0.0</i>	<i>0.0</i>	<i>7.4</i>	<i>8.0</i>	<i>41.2</i>	<i>43.9</i>	<i>7.9</i>	<i>8.5</i>	<i>0.8</i>	<i>1.0</i>
<i>(d) Other sectors</i>	<i>171.9</i>	<i>175.3</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>-</i>	<i>0.0</i>	<i>0.0</i>	<i>0.4</i>	<i>1.5</i>	<i>1.0</i>	<i>2.0</i>	<i>0.1</i>	<i>0.1</i>	<i>0.2</i>	<i>0.1</i>
2. Industrial processes	2.3	2.2	-	-	-	-	-	-	-	-	-	-	9.4	9.5	-	-
3. Solvent and other product use	...	...	...	-	...	...	...	...	...	...	...	...	...	...	...	...
4. Agriculture	-	-	-	-	0.9	0.9	1.0	1.0	-	-	-	-	-	-	-	-
5. Land use change and forestry	-	-	293.0	293.0	-	-	-	-	-	-	-	-	-	-	-	-
6. Waste	-	-	-	-	20.0	36.0	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>3,367.6</b>	<b>3,583.2</b>	<b>293.0</b>	<b>293.0</b>	<b>21.3</b>	<b>37.4</b>	<b>1.0</b>	<b>1.0</b>	<b>17.5</b>	<b>18.8</b>	<b>64.0</b>	<b>68.4</b>	<b>17.6</b>	<b>18.3</b>	<b>33.6</b>	<b>34.0</b>

<sup>1</sup> Provisional

<sup>2</sup> Non - methane volatile organic compound

Note: The inventory compilation is under revision

**Table 3.9 – Carbon dioxide (CO<sub>2</sub>) Emissions Accounts by selected industry groups, 2002-2009**

	<i>Thousand metric tones</i>							
	2002	2003	2004	2005	2006	2007	2008	2009
<b>TOTAL ALL SECTORS</b>	2,973.2	3,125.3	3,203.4	3,392.8	3,738.8	3,822.5	3,880.3	3,761.6
<i>Of which</i>								
Agriculture	27.60	26.96	23.94	27.84	31.90	32.60	29.31	24.51
Mining and Quarrying	0.90	0.83	0.74	0.68	0.78	0.64	0.56	0.40
Food and Drink	144.76	156.87	162.63	173.36	212.53	227.92	234.24	232.02
Textiles	532.50	529.81	494.49	484.78	550.63	546.52	583.56	505.36
Chemicals	35.09	36.03	35.90	37.28	44.82	47.00	47.68	47.28
Water supply	38.96	42.83	42.94	47.72	55.38	57.05	57.71	56.03
Construction	148.77	155.06	141.56	123.35	122.15	109.99	99.98	83.22
Wholesale and Retail	146.92	145.64	144.53	153.14	168.20	163.41	160.65	151.2
Hotels and Restaurants	131.79	127.11	115.00	118.93	122.12	122.58	111.0	90.25
Transport and communications	689.35	760.03	821.18	851.92	907.75	884.27	876.18	811.33
Finance and real estate	40.54	45.63	48.47	56.42	67.94	75.39	81.52	85.93

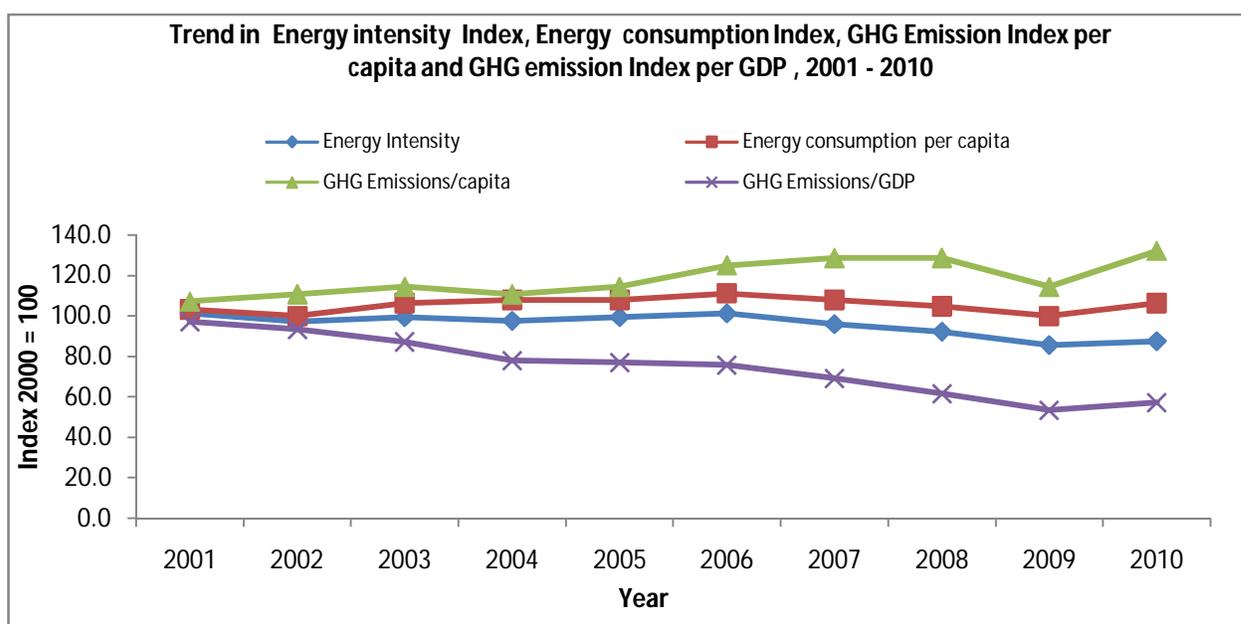
**Table 3.10 – Carbon dioxide (CO<sub>2</sub>) Emissions Intensity Accounts by industry groups, 2002-2009**

	<i>Tonnes/Rs 100,000</i>							
	2002	2003	2004	2005	2006	2007	2008	2009
Agriculture	0.42	0.40	0.33	0.40	0.45	0.48	0.42	0.32
Mining and Quarrying	1.11	1.25	1.11	1.12	1.47	1.42	1.02	0.84
Food and Drink	2.68	2.52	2.47	2.61	2.96	3.14	3.01	2.85
Textiles	4.53	4.78	4.78	5.19	5.60	5.06	5.39	4.68
Chemicals	3.16	2.75	3.35	4.44	5.40	4.79	4.45	4.15
Water Supply	9.10	9.71	9.78	10.42	11.91	12.40	12.80	12.26
Construction	2.34	2.15	1.96	1.79	1.67	1.30	1.06	0.83
Wholesale and Retail	1.13	1.10	1.03	1.01	1.05	0.97	0.91	0.85
Hotels and Restaurants	1.89	1.73	1.51	1.5	1.4	1.26	1.12	0.97
Transport and communications	4.54	4.7	4.71	4.54	4.52	4.09	3.82	3.38
Finance and real estate	0.22	0.22	0.22	0.25	0.28	0.29	0.28	0.29

**Table 3.11 – Trend in Energy intensity index, Energy consumption index per capita, GHG Emission index per capita and GHG Emission index per GDP, 2001 – 2010**

	Base Year 2000 = 100									
YEAR	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Energy Intensity	101.2	97.0	99.4	97.6	99.4	101.2	95.8	92.2	85.6	87.4
Energy consumption per capita	103.2	100.0	106.3	107.9	107.9	111.1	107.9	104.8	100.0	106.3
GHG Emissions/capita	107.1	110.7	114.3	110.7	114.3	125.0	128.6	128.6	114.3	132.1
GHG Emissions/GDP	97.1	87.2	87.2	78.0	76.9	75.8	69.2	61.5	53.5	57.1

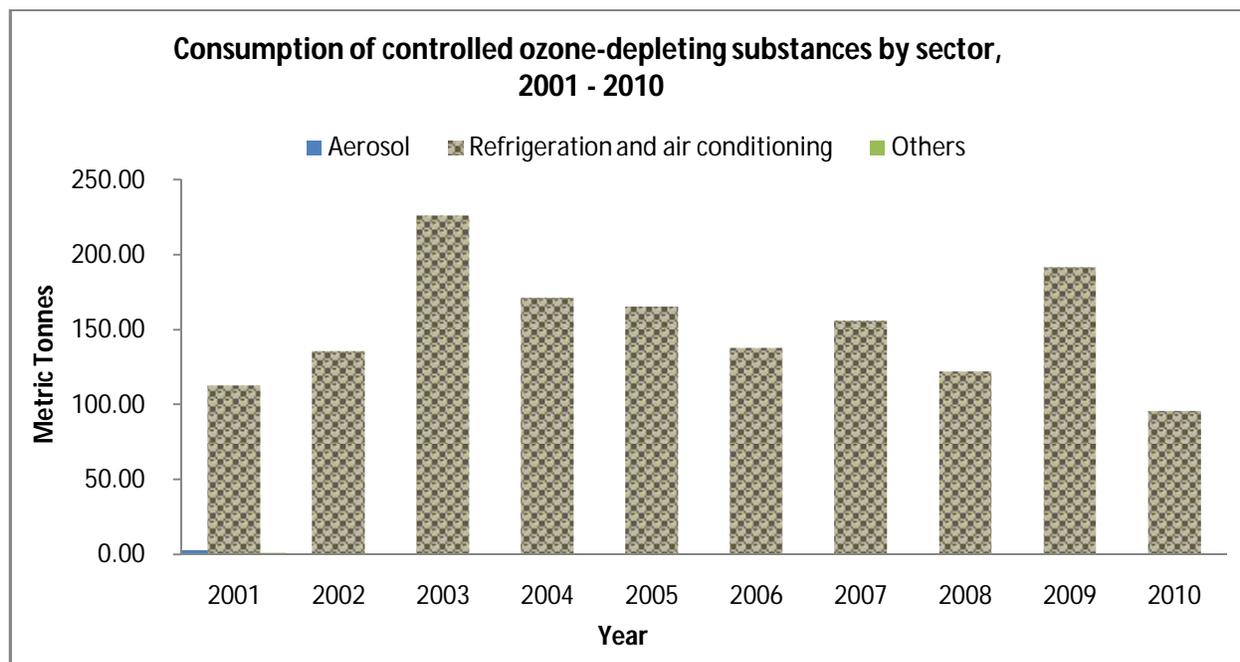
**Figure 9 – Trend in Energy intensity index, Energy consumption index per capita, GHG Emission index per capita and GHG Emission index per GDP, 2001 – 2010**



**Table 3.12 - Consumption of controlled ozone-depleting substances by sector, 2001 – 2010**

	Metric Tonnes									
Sector	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Aerosol	2.00	-	-	-	-	-	-	-	-	-
Foam	...	-	-	-	-	-	-	-	-	-
Process agent	-	-	-	-	0.03	-	-	-	-	-
Refrigeration and air conditioning	113.20	136.30	226.80	171.85	165.64	139.13	156.62	122.48	192.12	96.13
Solvent	0.01	0.02	0.03	0.02	-	-	-	-	-	-
Methyl bromide use	0.70	-	-	-	-	-	-	0.50	-	-
Tobacco fluffing	...	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>115.91</b>	<b>136.32</b>	<b>226.83</b>	<b>171.87</b>	<b>165.67</b>	<b>139.13</b>	<b>156.62</b>	<b>122.98</b>	<b>192.12</b>	<b>96.13</b>

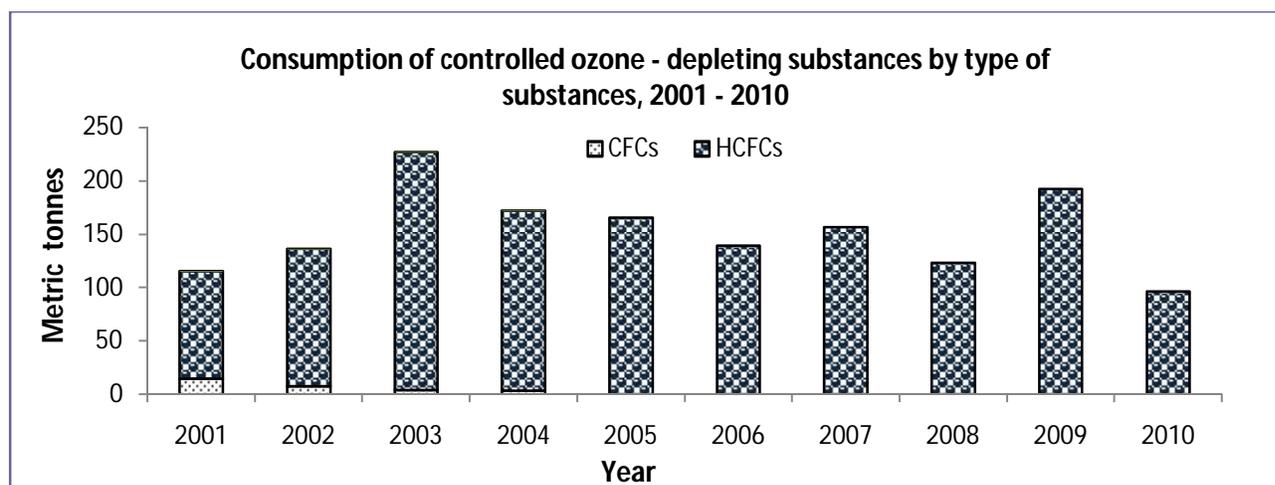
Source : Ministry of Environment and Sustainable Development .

**Figure 10 - Consumption of controlled ozone-depleting substances by sector, 2001-2010****Table 3.13 - Consumption of controlled ozone-depleting substances by type of substances, 2001 – 2010**

Type of substances	Metric Tonnes									
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Chlorofluorocarbon (CFC's)	14.71	7.40	4.07	3.40	-	1.00	-	-	-	-
Carbon tetrachloride	0.01	0.02	0.03	0.02	0.03	-	-	-	-	-
Methyl chloroform	-	-	-	-	-	-	-	-	-	-
Hydrochlorofluorocarbon (HCFC's)	100.49	128.90	222.73	168.45	165.64	138.13	156.62	122.98	192.12	96.13
Methyl bromide	0.70	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>115.91</b>	<b>136.32</b>	<b>226.83</b>	<b>171.87</b>	<b>165.67</b>	<b>139.13</b>	<b>156.62</b>	<b>122.98</b>	<b>192.12</b>	<b>96.13</b>

Source : Ministry of Environment and Sustainable Development.

Figure 11 - consumption of controlled ozone-depleting substances by type of substances, 2001-2010

Table 3.14 - Health services (as at 31<sup>st</sup> December) Republic of Mauritius, 2001 – 2010

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
<b>Hospitals</b>										
Regional hospitals	5	5	5	5	5	5	5	5	5	5
District hospitals	4	3	3	3	3	3	3	3	3	3
Specialised hospitals (Psychiatric, chest, eye and E N T ) <sup>1</sup>	4	4	4	4	4	4	4	4	4	4
Cardiac Centre	1	1	1	1	1	1	1	1	1	1
Mediclinics	2	2	2	2	2	2	2	2	2	2
Area health centres <sup>2</sup>	27	27	27	27	27	27	27	24	24	24
Health centres with beds ( Island of Rodrigues )	2	2	2	2	2	2	2	2	2	2
Community health centres <sup>2</sup>	121	122	122	125	126	127	128	127	127	127
Family health service centres	6	5	5	4	3	3	3	3	3	3
<b>Dispensaries</b>										
Private dispensaries on sugar estates	20	19	18	17	15	13	12	11	10	10
Mobile dispensaries	1	1	1	1	1	1	1	-	-	-
<b>Clinics</b>										
Dental (including oral surgery and orthodontics)	41	43	44	46	50	50	50	54	56	57
Day care centre for HIV Patient	1	1	1	1	1	1	1	1	1	2
Private <sup>3</sup>	14	12	12	12	12	13	13	17	19	17
Public mobile dental	1	1	1	2	2	2	2	3	3	3
Health offices	14	14	14	14	14	14	14	14	14	14

<sup>1</sup> The ENT centre is administratively attached to Victoria Hospital <sup>2</sup> Including Dr. Y. Cantin and Long Mountain Community Hospital

<sup>3</sup> Private clinics with in-patient service, including private hospitals

**Table 3.15 - Respiratory diseases registered in government hospitals, 2001 – 2010**

Detail	Number									
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
<b>Both sexes</b>										
General hospital discharges <sup>1</sup> (including deaths)	9,788	10,442	10,218	9,992	9,759	11,151	12,594	13,897	16,216	15,196
First attendances <sup>1</sup> at regional health centres	382,557	397,457	396,485	367,672	381,406	376,375	382,548	442,424	517,551	468,054
Discharges (including deaths) at P D'Or chest hospital	412	530	489	495	449	468	549	582	673	1,209
New cases diagnosed at specialist clinics in chest diseases	1,753	1,330	842	981	1,143	1,025	915	617	657	825
<b>Male</b>										
General hospital discharges <sup>1</sup> (including deaths)	5,088	5,337	5,335	4,984	4,914	5,783	6,687	7,127	8,311	7,727
First attendances <sup>1</sup> at regional health centres	184,994	193,393	190,477	178,608	183,640	181,462	184,487	212,454	247,318	223,242
Discharges (including deaths) at P D'Or chest hospital	289	391	350	354	332	332	405	435	469	834
New cases diagnosed at specialist clinics in chest diseases	962	766	447	522	546	547	487	350	340	432
<b>Female</b>										
General hospital discharges <sup>1</sup> (including deaths)	4,700	5,105	4,883	5,008	4,845	5,348	5,907	6,770	7,903	7,469
First attendances <sup>1</sup> at regional health centres	197,563	204,064	206,008	189,064	197,766	194,913	198,061	229,970	270,233	244,812
Discharges (including deaths) at P D'Or chest hospital	123	139	139	141	117	136	144	147	204	375
New cases diagnosed at specialist clinics in chest diseases	791	564	395	459	597	478	428	267	317	393

Source: Statistics Unit , Ministry of Health and Quality of Life.

<sup>1</sup> due to diseases of the respiratory system

**Table 3.16 - Cases of asthma treated as in-patients in government hospitals, 2001 – 2010**

Year	In-Patients		Number
	Male	Female	Total
2001	1,565	1,616	3,181
2002	1,573	1,667	3,240
2003	1,538	1,735	3,273
2004	1,453	1,689	3,142
2005	1,507	1,668	3,175
2006	1,613	1,577	3,190
2007	1,650	1,693	3,343
2008	1,299	1,469	2,768
2009	1,282	1,387	2,669
2010	1,211	1,354	2,565

Source: Statistics Unit, Ministry of Health and Quality of Life.

**Table 3.17 - Deaths registered due to asthma, 2001 – 2010**

Year	Deaths		Number
	Male	Female	Total
2001	74	94	168
2002	105	61	166
2003	97	99	196
2004	75	64	139
2005	104	75	179
2006	101	65	166
2007	86	68	154
2008	80	72	152
2009	105	79	184
2010	61	86	147

Source: Statistics Unit, Ministry of Health and Quality of Life.

**Table 3.18 - Cases of asthma treated as in-patients in government hospitals by age group and sex, 2009 – 2010**

Age group (years)	Number of cases					
	Male		Female		Total	
	2009	2010	2009	2010	2009	2010
Less than one year	18	6	4	6	22	12
1 - 4	192	203	135	80	327	283
5 - 9	232	258	134	132	366	390
10 - 14	98	92	54	64	152	156
15 - 19	43	33	55	51	98	84
20 - 24	38	14	37	34	75	48
25 - 29	29	21	43	38	72	59
30 - 34	30	21	39	34	69	55
35 - 39	38	22	52	45	90	67
40 - 44	38	25	68	74	106	99
45 - 49	55	47	87	95	142	142
50 - 54	44	33	85	92	129	125
55 - 59	98	78	129	111	227	189
60 - 64	57	93	122	115	179	208
65 - 69	74	58	89	65	163	123
70 - 74	68	64	84	101	152	165
75 - 79	47	64	75	102	122	166
80 - 84	65	49	62	69	127	118
85 and over	18	30	33	46	51	76
<b>Total</b>	<b>1,282</b>	<b>1,211</b>	<b>1,387</b>	<b>1,354</b>	<b>2,669</b>	<b>2,565</b>

Source: Statistics Unit , Ministry of Health and Quality of Life.

**Table 3.19 - Deaths registered due to asthma by age group and sex, 2009 – 2010**

Age group ( years )	Number of cases					
	Male		Female		Total	
	2009	2010	2009	2010	2009	2010
Less than one year	0	0	0	0	0	0
1 - 4	2	0	1	0	3	0
5 - 9	3	0	1	2	4	2
10 - 14	1	0	1	0	2	0
15 - 19	1	1	0	0	1	1
20 - 24	0	1	0	0	0	1
25 - 29	1	1	0	2	1	3
30 - 34	0	0	3	1	3	1
35 - 39	2	1	0	2	2	3
40 - 44	0	0	1	2	1	2
45 - 49	4	2	2	5	6	7
50 - 54	6	3	3	3	9	6
55 - 59	5	5	8	4	13	9
60 - 64	12	4	9	4	21	8
65 - 69	6	6	5	10	11	16
70 - 74	14	9	10	9	24	18
75 - 79	21	10	9	8	30	18
80 - 84	14	8	14	12	28	20
85 and over	13	10	12	22	25	32
<b>Total</b>	<b>105</b>	<b>61</b>	<b>79</b>	<b>86</b>	<b>184</b>	<b>147</b>

Source: Statistics Unit, Ministry of Health and Quality of Life.

**Table 3.20 - Households with members suffering from health problems related to air pollution by type of problem, Republic of Mauritius, 2001**

Health problem	Households reporting specific health problems		
	Number	as a % of households reporting health problems	as a % of all sampled households
Breathing difficulties	242	62.0	3.8
ENT problems	163	41.2	2.6
Asthma	138	35.4	2.2
Eye troubles	81	20.8	1.3
Skin diseases	65	16.7	1.0

Source: CSO - Continuous Multi-Purpose Household Survey 2001

# **CHAPTER 4**

## **WATER**

**Table 4.1 - Monthly rainfall, averaged over all sugar zones, 2001 – 2010**

		Millimetres									
MONTH	YEAR	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
<b>January</b>	Mean	278.6	573.1	118.4	416.2	139.0	352.9	325.7	233.8	227.5	339.4
	<i>Difference from Normal</i>	+ 0.3	+ 295.0	- 159.7	+ 162.4	-114.9	+99.0	+71.8	-15.6	-21.8	+89.7
<b>February</b>	Mean	205.1	99.0	331.3	305.1	401.3	331.5	535.3	224.2	265.0	359.8
	<i>Difference from Normal</i>	-92.7	-198.7	+ 33.5	-19.5	+ 76.8	+6.9	+210.7	-96.8	-55.9	+39.0
<b>March</b>	Mean	155.8	224.0	207.3	211.7	688.7	434.4	162.2	470.0	345.8	289.1
	<i>Difference from Normal</i>	-87.3	-19.1	- 36.0	-15.3	+ 463.3	+209.0	-63.2	+247.5	+123.3	+65.6
<b>April</b>	Mean	329.9	135.4	444.8	282.6	115.5	85.4	105.2	50.2	221.6	142.5
	<i>Difference from Normal</i>	102.0	-92.5	+ 216.8	+61.6	-105.4	-135.6	-115.8	-167.5	+3.9	-76.0
<b>May</b>	Mean	95.3	141.1	191.0	161.1	109.1	52.8	137.6	276.7	172.1	116.9
	<i>Difference from Normal</i>	-55.9	-10.1	+ 39.8	+7.3	-44.6	-101.0	-16.1	+125.0	+20.4	-35.5
<b>June</b>	Mean	79.1	127.6	117.4	111.2	134.3	95.4	136.4	151.5	92.6	52.1
	<i>Difference from Normal</i>	-38.7	+ 9.9	- 1.4	+3.2	+26.3	-12.6	+30.3	+45.4	-13.7	-54.2
<b>July</b>	Mean	93.3	139.9	175.2	85.6	158.0	156.4	108.7	108.7	126.8	137.6
	<i>Difference from Normal</i>	-26.9	+19.7	+55.0	- 24.2	+48.2	+46.6	+0.4	+0.4	+18.4	+29.2
<b>August</b>	Mean	74.1	111.9	92.4	39.8	91.7	81.2	53.8	67.8	122.3	132.8
	<i>Difference from Normal</i>	-35.1	+ 2.8	- 16.7	- 69.0	-17.1	-27.5	-53.2	-39.1	+15.1	+25.7
<b>September</b>	Mean	71.9	37.1	130.4	118.2	207.6	63.1	62.7	330.8	65.8	53.6
	<i>Difference from Normal</i>	-3.4	-38.2	+55.0	+47.1	+136.6	-8.0	-7.3	+260.9	-4.3	-16.5
<b>October</b>	Mean	83.8	60.4	29.7	29.5	55.8	51.1	90.3	51.7	213.6	37.2
	<i>Difference from Normal</i>	10.7	-12.8	- 43.5	- 42.9	-16.7	-21.4	+19.0	-19.6	+142.0	-34.4
<b>November</b>	Mean	33.2	34.4	81.1	124.8	38.3	76.7	43.6	147.0	180.0	81.4
	<i>Difference from Normal</i>	-61.1	-60.0	+ 1.8	+ 45.5	-41.1	-2.7	-34.8	+68.6	+101.2	+2.5
<b>December</b>	Mean	153.3	222.4	54.0	168.8	69.5	42.2	53.7	79.4	202.7	10.9
	<i>Difference from Normal</i>	-62.3	+ 6.8	- 139.1	- 24.3	- 123.6	-151.0	-137.4	-111.7	+10.8	-182.2
<b>Total Year</b>	Mean	1,653.4	1,906.3	1,973.0	2,054.6	2,208.8	1,823.1	1,814.8	2,192.1	2,235.8	1,753.3
	<i>Difference from Normal</i>	-102.9	+150	+216.8	+298.3	+451.6	+66.8	+58.5	+24.8	+339.5	-147.1

Source : Meteorological Services

Figure 12 - Rainfall difference from normal, 2010

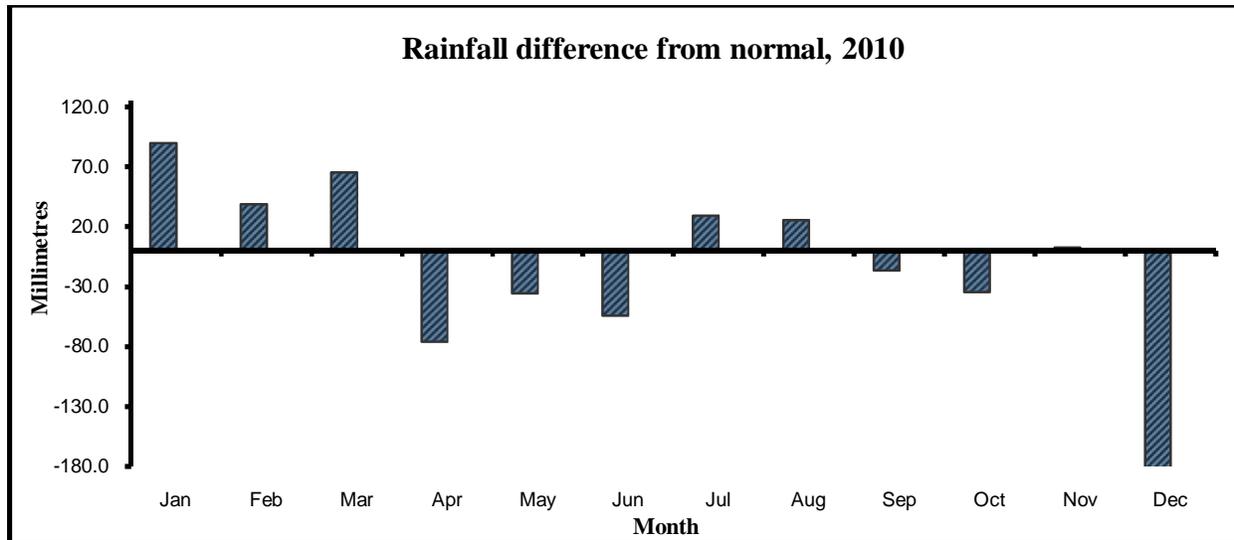


Table 4.2 - Yearly rainfall by region, 2001 – 2010

		Millimetres									
REGION	YEAR	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
North	Mean	1,019.6	1,040.0	1,201.3	1,350.8	1,404.1	1,348.9	1,072.0	1,609.9	1,667.7	1,006.9
	<i>Difference from Normal</i>	-274.7	-254.3	-93.0	+ 56.5	+ 109.8	+54.6	-222.3	+315.6	+359.5	-308.3
South	Mean	2,124.0	2,314.0	2,285.4	2,288.3	2,670.7	2,076.5	2,215.7	2,553.3	2,548.5	2,237.6
	<i>Difference from Normal</i>	-196.2	-6.2	-34.8	-31.9	+ 350.5	-243.7	-104.5	+233.1	+313.0	-4.3
East	Mean	1,983.8	2,303.9	2,622.4	2,692.9	2,774.9	2,226.2	2,125.2	2,578.1	2,699.1	2,346.8
	<i>Difference from Normal</i>	-329.7	-9.6	+ 308.9	+ 379.4	+ 461.4	-87.3	-188.3	+264.6	+385.6	+33.4
West	Mean	799.3	1,357.7	975.2	949.3	1,097.8	750.9	966.5	1,106.7	1,233.9	601.1
	<i>Difference from Normal</i>	-29.4	+ 529.0	+ 146.5	+ 120.6	+ 269.1	-77.8	+137.8	+278	+405.4	-227.5
Centre	Mean	1,536.1	2,105.6	1,995.7	2,262.6	2,134.9	1,988.0	2,179.5	2,320.4	2,244.1	1,461.8
	<i>Difference from Normal</i>	-488.6	+ 80.9	-29.0	+ 237.9	+110.2	-36.7	+154.8	+295.7	+220.1	-562.3
Island	Mean	1,653.4	1,906.3	1,973.1	2,054.6	2,207.9	1,823.1	1,814.8	2,192.1	2,235.8	1,753.3
	<i>Difference from Normal</i>	-102.9	+150.0	+ 216.8	+ 298.3	+ 451.6	+66.8	+58.5	+435.8	+339.5	-147.1

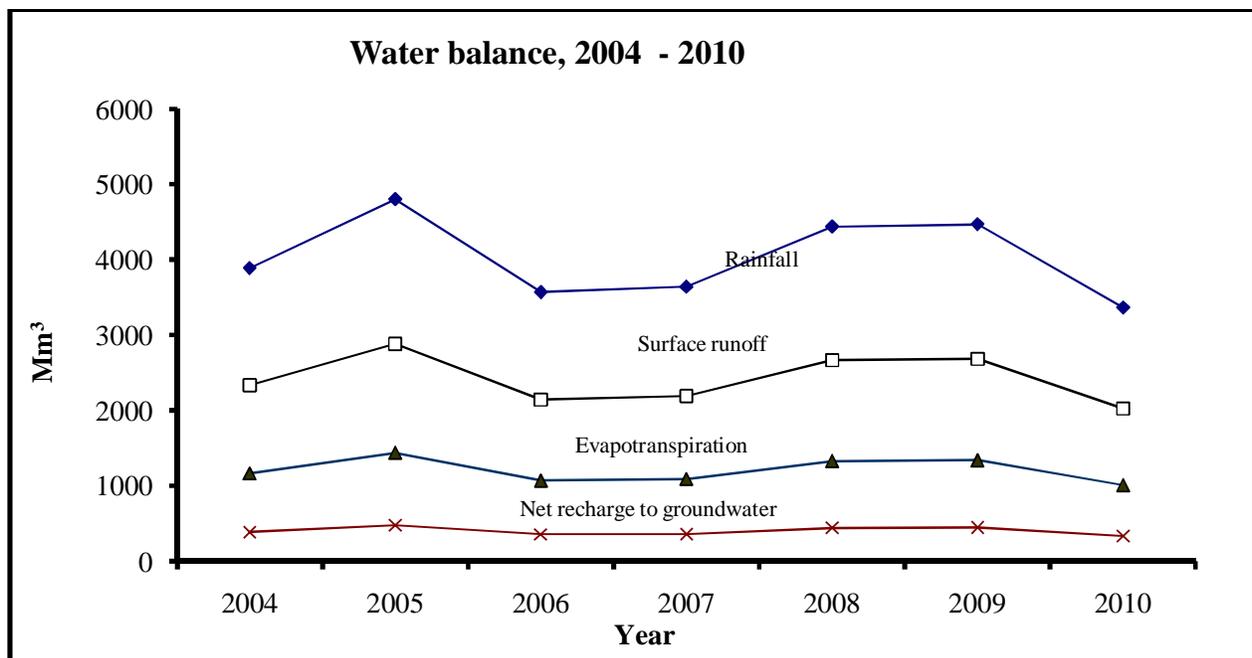
Source : Meteorological Services

Table 4.3 - Water balance, 2004 – 2010

	2004	2005	2006	2007	2008	2009	2010
Rainfall	3,890	4,801	3,571	3,644	4,440	4,470	3,368
Surface runoff	2,334	2,881	2,143	2,186	2,664	2,682	2,021
Evapotranspiration	1,167	1,440	1,071	1,093	1,332	1,341	1,010
Net recharge to groundwater	389	480	357	364	444	447	337

Source: Water Resources Unit, Ministry of Energy and Public Utilities

Figure 13 - Water balance, 2004 – 2010



**Table 4.4 - Water utilisation, 2010.**

Use	Surface water		Ground water	Total
	River-run offtakes	Storage		
	Domestic, Industrial <sup>a</sup> and Tourism	36 <sup>1</sup>	74	113
Industrial <sup>b</sup>	5	-	5	10
Agricultural	320	78 <sup>2</sup>	6	404
Hydropower	147	151 <sup>3</sup>	-	298
<b>Total</b>	<b>508</b>	<b>303</b>	<b>124</b>	<b>935</b>

Source: Water Resources Unit, Ministry of Energy and Public Utilities

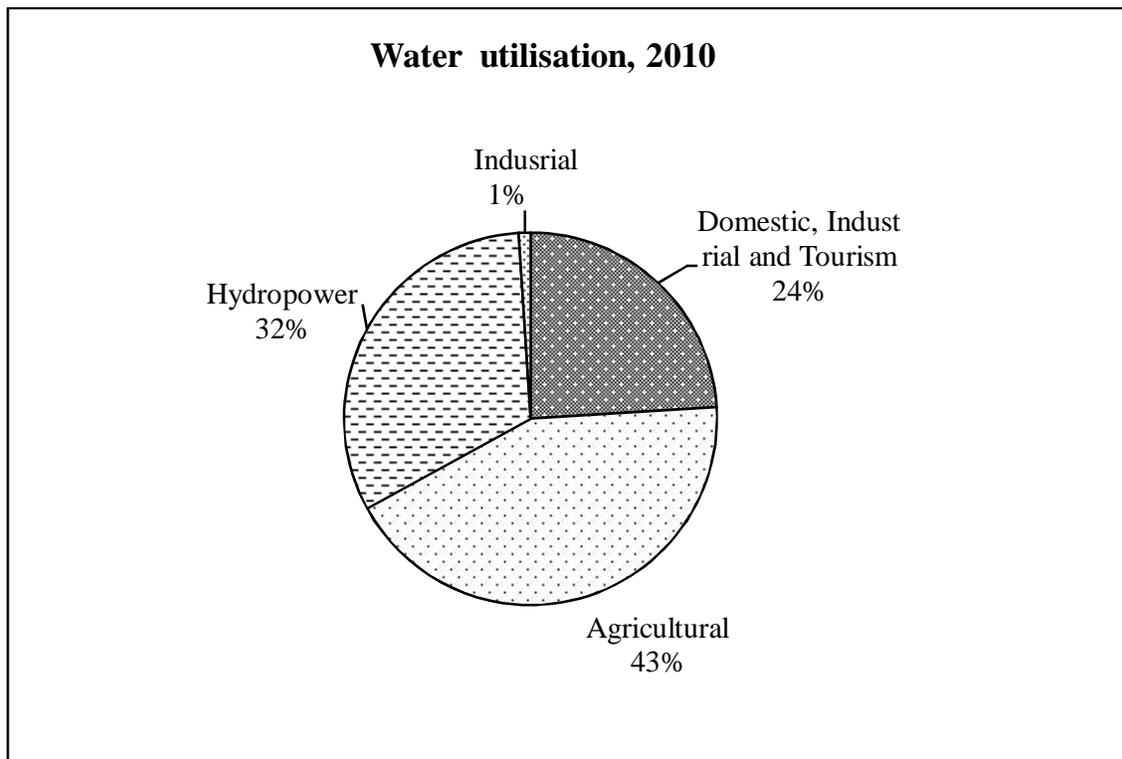
<sup>1</sup> includes 20 Mm<sup>3</sup> for Redit Hydro Power Station

<sup>2</sup> includes 30 Mm<sup>3</sup> for Tamarind Falls and Magenta Hydropower Stations

<sup>3</sup> includes 13 Mm<sup>3</sup> used twice for Le Val and Ferney Hydropower Stations and 22 Mm<sup>3</sup> for Tamarind Falls and Magenta Hydropower station

<sup>a</sup> used through CWA

<sup>b</sup> used by water right owners and ground water licensees

**Figure 14 - Water utilisation, 2010**

**Table 4.5 - Water use account, 2002 and 2007**

Sector	Direct abstractions (withdrawals)		Public Water Supply		Total use	
	Thousand m <sup>3</sup>		Thousand m <sup>3</sup>		Thousand m <sup>3</sup>	
	2002	2007	2002	2007	2002	2007
Agriculture, forestry and fishing	514,000	423,000	10,133	11,025	524,133	434,025
Mining and Quarrying			5	2	5	2
Food, drink beverages and tobacco manufacturing	10,000	6,000	1,818	2,545	11,818	8,545
Manufacture of Textiles, wearing apparels, leathers, bags, etc	...	...	6,402	4,994	6,402	4,994
Manufacture of Wood and products of Wood			40	33	40	33
Manufacture of Paper and Paper products	...	...	56	49	56	49
Publishing, Printing and Reproduction of recorded media	...	...	85	157	85	157
Manufacture of chemicals and chemical products, rubber and plastics	...	...	424	298	424	298
Manufacture of other Non-Metallic Mineral products			522	931	522	931
Manufacturing of Basic Metals	...	...	165	260	165	260
Manufacture of Machinery and Equipment n.e.c			15	0	15	0
Other manufacturing	...	...	336	653	336	653
Production, collection and distribution of electricity	249,000	254,000	45	369	249,045	254,369
Collection, purification and distribution of water	101,235	84,359	...	...	101,235	84,359
Construction			408	437	408	437
Wholesale and retail trade and repairs	...	...	1,699	1,050	1,699	1,050
Hotels and restaurants	...	...	4,033	4,584	4,033	4,584
Transport and communications	...	...	593	1,653	593	1,653
Financial Intermediation, insurance, pension and real estate	...	...	461	1,041	461	1,041
Public administration and defense; compulsory social security	...	...	1,498	1,819	1,498	1,819
Education	...	...	1,717	2,780	1,717	2,780
Health and social work	...	...	2,456	2,666	2,456	2,666
Refuse disposal, cleaning services etc	...	...	5	56	5	56
Sewerage	...	...	16	0	16	0
Households			67,618	79,007	67,618	79,007
Other service activities			217	231	217	231
<b>Total</b>	<b>874,235</b>	<b>767,359</b>	<b>100,767</b>	<b>110,640</b>	<b>975,002</b>	<b>883,999</b>

**Table 4.6 - Fresh water abstractions<sup>1</sup> by source, 2001 - 2010<sup>2</sup>**

Source	Mm <sup>3</sup>									
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Surface water	532	578	577	575	541	528	518	497	511	513
<i>Reservoirs</i>	124	128	169	167	154	146	145	137	150	152
<i>Rivers and streams</i>	408	450	408	408	387	382	373	360	361	361
Ground water	145	148	148	150	150	154	112	119	121	124
<b>Total</b>	<b>677</b>	<b>726</b>	<b>725</b>	<b>725</b>	<b>691</b>	<b>682</b>	<b>630</b>	<b>616</b>	<b>632</b>	<b>637</b>

Source: Water Resources Unit, Ministry of Energy and Public Utilities

<sup>1</sup> for agricultural, domestic and industrial purposes.<sup>2</sup> Hydrologic year (i.e. From November n-1 to October n, where n = year)

Table 4.7 - Fresh water abstractions<sup>1</sup> by water supply industry, 2004 - 2010<sup>2</sup>

	Mm <sup>3</sup>						
Source	2004	2005	2006	2007	2008	2009	2010
<b>Gross fresh surface water abstraction</b>	<b>575</b>	<b>541</b>	<b>528</b>	<b>518</b>	<b>497</b>	<b>511</b>	<b>513</b>
<i>Surface water abstraction</i>	110	99	100	102	107	112	110
Manufacturing	0	0	5	5	5	5	5
<i>Agriculture, forestry and fishing</i>	465	442	423	411	385	394	398
<b>Gross ground water abstraction</b>	<b>150</b>	<b>150</b>	<b>154</b>	<b>112</b>	<b>119</b>	<b>121</b>	<b>124</b>
<i>Ground water abstraction</i>	114	115	116	99	107	111	113
<i>Agriculture, forestry and fishing</i>	25	24	25	7	6	5	6
<i>Manufacturing</i>	11	11	13	6	6	5	5
<b>Total</b>	<b>725</b>	<b>691</b>	<b>682</b>	<b>630</b>	<b>616</b>	<b>632</b>	<b>637</b>

Source: Water Resources Unit, Ministry of Energy and Public Utilities

<sup>1</sup> for agricultural, domestic and industrial purposes.

<sup>2</sup> Hydrologic year (i.e. From November n-1 to October n, where n = year)

Table 4.8 - Characteristics of major reservoirs

Name of reservoir	Mare aux Vacoas	Nicoliere	Piton du Milieu	Mare Longue	La Ferme	Tamarin d Falls	Eau Bleue	Diamamove	Midlands Dam
	Characteristics								
Purpose	Domestic	Domestic, Irrigation and Industrial	Domestic	Hydro - power and irrigation	Irrigation	Hydro - power and irrigation	Hydro - power	Hydro - power	Domestic, Irrigation and Industrial
Total capacity (Mm <sup>3</sup> )	25.89	5.26	2.99	6.28	11.52	2.30	4.10	4.30	25.50
Full reservoir level , m (a.m.s.l) <sup>1</sup>	566.35	249.02	438.00	576.91	146.00	492.36	355.00	241.00	395.00
Maximum water spread area (km <sup>2</sup> )	5.60	1.02	0.76	1.05	2.28	1.68	0.75	0.43	2.98

Source: Water Resources Unit, Ministry of Energy and Public Utilities

<sup>1</sup>a.m.s.l: above mean sea level

**Table 4.9 - Gross storage capacity of reservoirs**Mm<sup>3</sup>

Reservoir	Gross capacity
Mare aux Vacoas <sup>1</sup>	25.89
Mare Longue	6.28
La Ferme <sup>1</sup>	11.52
Piton du Milieu <sup>1</sup>	2.99
La Nicoliere <sup>1</sup>	5.26
Tamarind Falls	2.3
Eau Bleue	4.1
Diamamove	4.3
Dagotiere	0.6
Valetta	2.0
Midlands Dam	25.5
<b>Total Storage Capacity</b>	<b>90.7</b>

Source: Water Resources Unit, Ministry of Energy and Public Utilities

<sup>1</sup>Based on hydrographic survey of 1997

**Table 4.10 - Percentage water level by month and reservoir, 2010**

Month	<b>Mm<sup>3</sup></b>																				
	Mare aux Vacoas			La Nicoliere			Piton du Milieu			La Ferme			Mare Longue			Midlands Dam			All reservoirs (excl Midlands Dam)		
	<b>Capacity</b>																				
	25.89 Mm <sup>3</sup>			5.26 Mm <sup>3</sup>			2.99 Mm <sup>3</sup>			11.52 Mm <sup>3</sup>			6.28 Mm <sup>3</sup>			25.5 Mm <sup>3</sup>			51.94 Mm <sup>3</sup>		
	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max	Mean	Min	Max
<b>Jan</b>	72	69	77	91	70	100	95	89	100	100	98	100	83	79	90	100	100	100	83	79	87
<b>Feb</b>	88	76	98	97	86	100	100	98	100	100	100	100	97	91	100	100	100	100	94	87	98
<b>Mar</b>	96	95	97	94	87	99	99	99	100	100	99	100	100	99	100	100	100	100	97	96	98
<b>Apr</b>	94	91	96	90	84	93	96	93	99	96	93	100	95	86	100	100	100	100	94	91	97
<b>May</b>	86	83	91	86	78	93	90	87	94	87	81	92	73	64	85	100	100	100	85	80	91
<b>Jun</b>	78	74	83	77	68	90	82	75	88	75	69	81	55	51	63	98	95	100	75	70	81
<b>Jul</b>	75	74	77	84	73	100	74	72	77	67	66	69	55	50	65	91	88	94	71	70	76
<b>Aug</b>	79	78	82	82	68	100	85	78	97	72	68	81	76	66	86	96	91	100	78	74	84
<b>Sep</b>	80	75	83	81	68	97	96	90	99	83	81	84	86	77	91	99	96	100	82	77	86
<b>Oct</b>	72	67	76	70	67	73	82	72	90	75	68	81	71	63	76	88	78	96	73	67	77
<b>Nov</b>	60	55	67	78	70	87	62	54	71	62	57	68	53	45	62	67	57	78	62	57	67
<b>Dec</b>	48	41	55	70	53	85	45	37	54	50	43	56	36	29	44	49	41	57	49	41	57

**Table 4.11 - Average monthly potable water production from treatment plants and boreholes to distribution systems, 2010**

Mm<sup>3</sup>

Month	Mare Aux Vacoas (Upper)			Mare Aux Vacoas (Lower)			Port -Louis			District water supply - North			District water supply - South			District water supply - East			Total production				
	Surface	Borehole	Total	Surface	Borehole	Total	Surface	Borehole	Total	Surface	Borehole	Total	Surface	Borehole	Total	Surface	Borehole	Total	Surface	Borehole	Total	Surface (%)	Borehole (%)
Jan	3.6	0.5	4.1	-	2.7	2.7	1.8	1.2	3.0	2.2	2.1	4.3	0.8	1.4	2.2	0.9	1.9	2.8	9.3	9.8	19.1	49%	51%
Feb	3.2	0.5	3.7	-	2.0	2.0	1.5	1.1	2.6	2.0	1.9	3.9	0.7	1.2	1.9	0.8	1.7	2.5	8.2	8.4	16.6	49%	51%
Mar	3.7	0.6	4.3	-	2.6	2.6	1.8	1.2	3.0	2.1	2.2	4.3	0.9	1.4	2.3	0.9	1.9	2.8	9.4	9.9	19.3	49%	51%
Apr	3.6	0.5	4.1	-	2.5	2.5	1.9	1.2	3.1	2.0	2.2	4.2	0.9	1.3	2.2	0.8	1.8	2.6	9.2	9.5	18.7	49%	51%
May	3.2	0.5	3.7	-	2.6	2.6	1.8	1.6	3.4	1.9	2.3	4.2	0.9	1.4	2.3	0.9	1.9	2.8	8.7	10.3	19.0	46%	54%
Jun	3.7	0.6	4.3	-	2.6	2.6	1.8	1.1	2.9	2.0	2.2	4.2	0.9	1.3	2.2	0.8	1.8	2.6	9.2	9.6	18.8	49%	51%
Jul	3.3	0.6	3.9	-	2.5	2.5	1.9	1.1	3.0	2.0	2.2	4.2	0.9	1.4	2.3	0.9	1.9	2.8	9.0	9.7	18.7	48%	52%
Aug	3.3	0.5	3.8	-	2.6	2.6	1.9	1.1	3.0	2.3	2.3	4.6	0.9	1.4	2.3	0.9	1.9	2.8	9.3	9.8	19.1	49%	51%
Sep	3.3	0.5	3.8	-	2.5	2.5	1.8	1.0	2.8	2.2	2.1	4.3	0.9	1.4	2.3	0.9	1.8	2.7	9.1	9.3	18.4	49%	51%
Oct	3.5	0.5	4.0	-	2.5	2.5	1.9	1.1	3.0	2.3	2.1	4.4	0.9	1.4	2.3	0.9	1.9	2.8	9.5	9.5	19.0	50%	50%
Nov	3.3	0.5	3.8	-	2.5	2.5	1.8	1.1	2.9	2.3	2.0	4.3	0.9	1.3	2.2	0.9	1.7	2.6	9.2	9.1	18.3	50%	50%
Dec	3.5	0.5	4.0	-	2.6	2.6	1.7	1.0	2.7	2.3	2.1	4.4	0.7	1.4	2.1	0.8	1.8	2.6	9.0	9.4	18.4	49%	51%
<b>Total year</b>	<b>41.2</b>	<b>6.3</b>	<b>47.5</b>	<b>-</b>	<b>30.2</b>	<b>30.2</b>	<b>21.6</b>	<b>13.8</b>	<b>35.4</b>	<b>25.6</b>	<b>25.7</b>	<b>51.3</b>	<b>10.3</b>	<b>16.3</b>	<b>26.6</b>	<b>10.4</b>	<b>22.0</b>	<b>32.4</b>	<b>109.1</b>	<b>114.3</b>	<b>223.4</b>	<b>49%</b>	<b>51%</b>

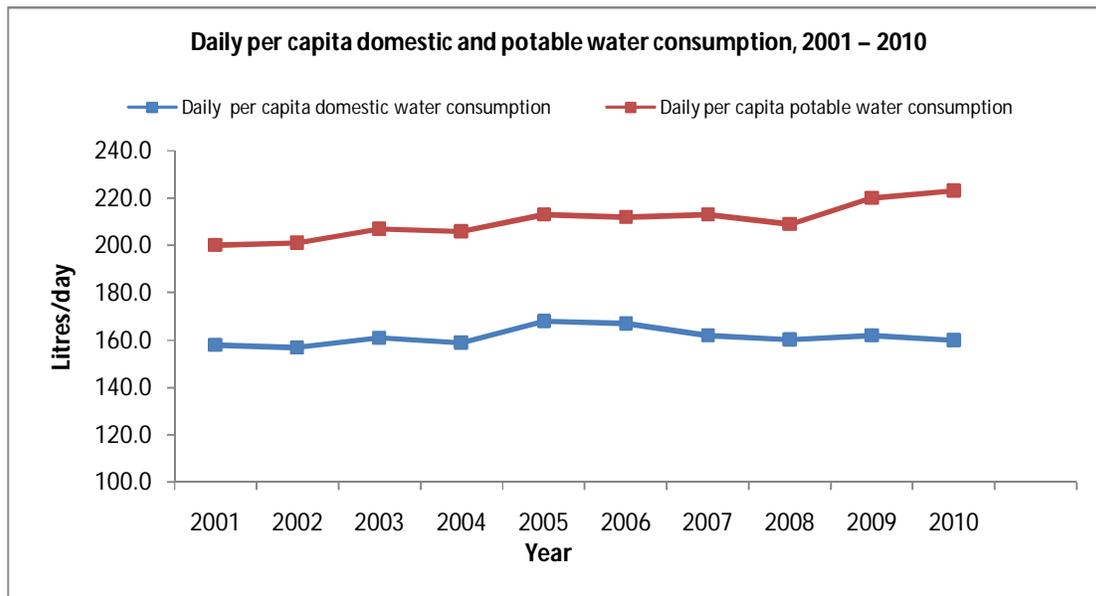
**Table 4.12 - Water sales by type of tariff of subscribers, 2006 – 2010**

Type of tariff	2006		2007		2008		2009		2010	
	No. of subscribers	Volume ('000 m <sup>3</sup> )	No. of subscribers	Volume ('000 m <sup>3</sup> )	No. of subscribers	Volume ('000 m <sup>3</sup> )	No. of subscribers	Volume ('000 m <sup>3</sup> )	No. of subscribers	Volume ('000 m <sup>3</sup> )
Domestic	272,269	73,158	278,625	73,007	284,592	72,093	292,294	75,119	299,300	76,521
Commercial	10,102	5,987	11,260	6,743	11,855	7,086	12,822	7,543	13,308	7,973
Government	3,763	4,631	3,879	4,686	4,053	4,788	4,184	4,956	4,224	4,887
Agriculture and Livestock Producers	2,871	1,433	3,129	1,421	3,281	1,403	3,611	1,455	3,774	1,536
Industrial	736	4,712	744	4,827	716	3,995	697	4,055	661	4,285
Hotels , Guest houses	206	4,267	224	4,429	264	4,595	280	4,652	297	5,052
Acquired/concessionary prizes	45	17	43	16	44	15	43	14	29	14
<b>Total Potable water</b>	<b>289,992</b>	<b>94,205</b>	<b>297,904</b>	<b>95,129</b>	<b>304,806</b>	<b>94,025</b>	<b>313,932</b>	<b>97,847</b>	<b>321,604</b>	<b>100,321</b>
<b>Total non - treated water</b>	<b>276</b>	<b>14,412</b>	<b>278</b>	<b>15,490</b>	<b>286</b>	<b>14,799</b>	<b>294</b>	<b>12,419</b>	<b>296</b>	<b>14,678</b>
<b>TOTAL</b>	<b>290,268</b>	<b>108,617</b>	<b>298,182</b>	<b>110,619</b>	<b>305,092</b>	<b>108,824</b>	<b>314,226</b>	<b>110,266</b>	<b>321,900</b>	<b>114,999</b>

**Table 4.13 – Daily per capita domestic and potable water consumption, 2001 – 2010**

Year	Litres/day	
	Daily per capita domestic water consumption	Daily per capita potable water consumption
2001	157.8	200
2002	157.0	201
2003	161.0	207
2004	159.0	206
2005	168.0	213
2006	167.0	212
2007	162.0	213
2008	160.1	209
2009	162.0	220
2010	160.0	223

Source: Central Water Authority

**Figure 15 – Daily per capita domestic and potable water consumption, 2001 – 2010****Table 4.14 - Volume of water used by the CEB for hydropower generation, 2001 – 2010**

Power station	Mm <sup>3</sup>									
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Champagne	56	71	108	117	105	62	61	91	105	87
Ferney	80	81	119	117	116	79	95	99	125	100
Tamarind Falls	25	31	34	37	37	26	27	22	33	29
Le Val	4	9	15	17	14	10	13	16	13	13
Reduit	11	19	30	30	26	21	20	30	36	20
Cascade Cecile	16	19	21	14	8	7	17	20	23	19
Magenta	14	17	17	13	25	17	16	5	17	22
La Ferme	1	4	-	-	-	5	5	9	14	8
<b>Total</b>	<b>207</b>	<b>251</b>	<b>344</b>	<b>345</b>	<b>331</b>	<b>227</b>	<b>254</b>	<b>292</b>	<b>366</b>	<b>298</b>

Source: Central Electricity Board

**Table 4.15 - Guidelines for inland surface water<sup>1</sup> quality**

Parameters	Unit	Maximum Limits
<u>Inorganics</u>		
Boron	µg/l	0.75
Cadmium	"	0.70
Chlorine Residual	"	2.0
Chromium (total)	"	2.0
Copper	"	6.5
Cyanide	"	5.2
Dissolved Oxygen	mg/l	6.0 <sup>2</sup>
Iron	mg/l	1.0
Lead	µg/l	1.3
Mercury	"	0.1
Methyl Mercury compounds	"	0.012
Nickel	"	87.6
pH		6.5 - 9.0
Selenium	µg/l	1.0
Silver	"	1.2
Zinc	"	59
Sulphide H <sub>2</sub> S	"	2.0
Phosphate ( for a lake)	"	25
(for streams entering a lake)	"	50
(for streams not entering a lake)	"	100
<u>Organics</u>		
Dieldrin	µg/l	0.0019
Chlordane	"	0.0043
Pentachlorophenol (for pH 6.5 - 7.5 )	"	3.5 - 9.5
DDT	"	0.001
Endosulfan (alpha and beta forms)	"	0.056
Endrin	"	0.0023
Guthion	"	0.01
Lindane	"	0.08
Oil and Greases	"	Undetectable
PCBs	"	0.014
Suspended solids (at background concentration <100 mg/l)	mg/l	10
(when background conc.> 100 mg/l)	mg/l	10% of background concentration

Source: Ministry of Environment and Sustainable Development .

<sup>1</sup> Water of river, watercourse, stream, lake, pond, dam or reservoir.

<sup>2</sup> Lower limit at 250 C.

**Table 4.16 - River water quality by selected physico-chemical parameters, 2010**

Parameters	Unit	Riv du Rempart	RivPlaineWilhems	Riv du Poste (East)	River Moka (Old)	RivLabourdonnais	Riv Francoise	Riv des Creoles
Temperature	°C	24 - 29	21 - 25	24 - 27	20 - 25	21 - 27	24 - 27	23 - 26
pH		6.9 -7.2	7.5 – 7.7	7.5 – 8.0	7.3 – 7.5	7.9 – 8.0	7.5 – 7.7	6.9 - 7.2
Dissolved Oxygen	mg/L	5.5 -7.2	8.0	7.4 – 8.6	7.4 – 7.6	7.5 – 8.7	8.1	7.5 -7.6
Total Suspended Solids	mg/L	ND	ND	6 - 8	ND - 3	ND	ND	ND - 11
Total Reactive Phosphorus as P	mg/L	0.02	0.02	<0.01	0.03	0.03	<0.01	0.01
Chemical Oxygen Demand	mg O <sub>2</sub> /L	ND	2 - 52	ND	ND	ND	ND	ND
Chloride	mg/L	26.8 - 28.2	14.6 - 19.1	13.0 - 24.0	15.4 - 17.5	25.0 - 33.7	13.0 – 14.6	4.5 -11.2
Sodium	mg/L	21.0 - 22.5	13.1 - 15.2	15.3 -20.5	11.3 - 13.6	20.8 - 24.9	13.5 - 13.8	8.0- 10.3
Potassium	mg/L	1.2	0.9 -1.1	0.9 - 2.2	0.5 - 0.8	0.5 - 0.7	0.8 -1.0	0.5 -0.6
Calcium	mg/L	7.04 - 9.66	14.22 - 18.16	10.07 - 16.34	5.59 - 7.83	8.04 - 11.12	5.93 - 8.62	2.77 - 6.94
Magnesium	mg/L	5.97 - 10.49	8.57 - 9.32	5.61 - 11.00	6.30 - 6.33	5.44 - 11.19	6.01 - 6.14	3.13 - 4.71

**Table 4.16 Con't - River water quality by selected physico-chemical parameters, 2010**

Parameters	Unit	Riv Cascade	Riv des Anguilles	Black River	Grand River South East	Riv La Chaux	Riv des Galets	RivBaie du Cap
Temperature	°C	21 - 26	23 - 25	21 - 26	23 - 27	23 - 25	21 - 25	21 - 25
pH		7.5 - 7.9	7.5 - 7.9	7.4 - 7.9	7.5 - 8.0	7.5 - 7.6	7.5 - 7.6	7.5 - 7.6
Dissolved Oxygen	mg/L	7.8 - 8.2	8.4 - 9.2	7.0 - 7.9	7.4 - 8.4	7.9 - 8.7	7.8 - 8.3	7.6 - 8.1
Total Suspended Solids	mg/L	13 - 22	2 - 16	ND	4 - 5	ND - 52	26 - 54	10 - 11
Total Reactive Phosphorus as P	mg/L	0.08	<0.01	0.01	<0.01	0.06	0.05	0.01
Chemical Oxygen Demand	mgO <sub>2</sub> /L	ND - 1	ND	ND	ND	ND - 2	ND - 6	ND
Chloride	mg/L	17.3 - 17.9	7.3 - 11.4	12.8 - 18.5	9.5 - 13.6	5.5 - 13.0	7.5 - 10.4	13.4 - 15.4
Sodium	mg/L	10.7 - 11.8	9.7 - 9.9	12.3 - 15.3	11.4 - 12.5	9.4 - 12.4	9.4 - 9.8	12.0 - 12.1
Potassium	mg/L	0.6 - 0.7	0.4 - 0.5	0.6	0.6	0.5 - 1.1	0.6 - 0.7	0.8
Calcium	mg/L	5.31 - 7.80	2.77 - 5.44	2.90 - 6.96	4.81 - 8.32	4.03 - 6.94	1.22 - 2.67	1.64 - 4.15
Magnesium	mg/L	6.11 - 8.44	5.93 - 6.22	5.48 - 7.44	5.49 - 5.97	5.16 - 6.42	2.85 - 3.41	4.38

**Table 4.17 - Range of levels of Nitrate-Nitrogen, Phosphate and Chemical Oxygen Demand (COD) for selected regions, 2010**

Region	Chemical water quality parameter		
	Nitrate-Nitrogen (NO <sub>3</sub> - N)	Phosphate (PO <sub>4</sub> <sup>3</sup> )	Chemical Oxygen Demand (COD)
	Milligram per litre		
Ile aux Benitiers	<0.1	0.01 - 0.08	0.1 – 1.7
BelOmbre	<0.1	0.02 - 0.08	0.1 – 1.0
BambousVirieux	<0.1	0.03 - 0.08	0.2 – 0.5
TrouD'EauDouce	<0.1	0.07 - 0.09	0.1 – 0.2
Anse la Raie	<0.1	0.02 - 0.08	0.2 – 1.4
Trou aux Biches	<0.1	0.01 - 0.08	0.0 – 0.9
Pointe aux Sables	<0.1	0.01 - 0.08	0.0 – 0.9
Tombeau Bay	<0.1	0.02 - 0.08	0.0 – 2.2
Port Louis Harbour	<0.1	0.03 - 0.09	0.1 – 1.0

Source: Albion Fisheries Research Centre, Ministry of Fisheries and Rodrigues.

**Table 4.18 - Volume of wastewater treated by public treatment stations, 2001 – 2010**

Station	Mm <sup>3</sup>									
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Montagne Jacquot	5.30	5.30	8.10	5.06	5.20	7.84	-	10.00	16.50	11.40
Baie du Tombeau	4.85	4.85	8.26	8.27	8.27	8.40	8.20	8.21	8.21	8.21
Pailles TP	0.08	0.08	0.11	0.12	0.18	0.07	0.07	0.10	0.10	0.10
B. Marchand	0.18	0.18	0.26	0.27	0.19	0.17	0.17	0.20	0.20	0.20
Riviere du Rempart	0.05	0.05	0.05	0.05	0.05	0.05	0.06	0.10	0.10	0.10
Grand Bay	-	-	-	-	-	-	-	0.60	0.60	0.60
St. Martin	8.20	8.20	10.89	13.10	13.88	14.93	15.50	16.70	15.95	14.00
Robinson	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03
Vuillemin	0.08	0.08	0.07	0.07	0.07	0.10	0.10	0.10	0.10	0.10
Flacq	0.03	0.03	0.03	0.18	0.23	0.10	0.10	0.10	0.10	0.10
Dubreuil	0.13	0.13	1.22	0.68	0.68	0.10	0.10	0.10	0.10	0.10
<b>Total</b>	<b>18.91</b>	<b>18.92</b>	<b>29.01</b>	<b>27.82</b>	<b>28.77</b>	<b>31.79</b>	<b>24.33</b>	<b>36.24</b>	<b>41.99</b>	<b>34.94</b>

Source : Wastewater Management Authority

**Table 4.19 - Water quality in coastal area - (Terre Rouge Rivulet Bird Sanctuary), 2001 – 2010**

Variable	Unit	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Chemical Oxygen Demand (COD)	mg O <sub>2</sub> /l	1.0	0.4	2.1	0.4	0.4	0.6	2.0	1.2	0.8	0.8
Total Phosphorus <sup>1</sup>	mg P/l	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Total Nitrogen <sup>2</sup>	mg N/l	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

Source : Albion Fisheries Research Centre, Ministry of Fisheries and Rodrigues.

<sup>1</sup> Data given are for the variable Phosphate

<sup>2</sup> Data given are for the variable Nitrate-nitrogen

Note : All values below detection limit are taken as zero.

**Table 4.20 - Certain notifiable diseases reported to sanitary authorities, 2001 – 2010**

Disease Year									Number
	Amoebiasis	Food Poisoning	Infective Hepatitis	Leptospirosis	Malaria		Schistosomiasis	Typhoid Fever	Total
					Indigenous	Imported			
2001	8	23	41	3	-	62	-	1	138
2002	-	33	11	1	-	38	-	1	84
2003	-	60	20	3	-	40	-	2	125
2004	-	160	19	3	-	45	-	1	228
2005	-	29	12	6	-	35	-	5	87
2006	1	78	5	6	-	38	-	4	132
2007	-	766	5	9	-	42	-	15	837
2008	-	129	4	3	-	27	-	6	169
2009	-	718	23	7	-	23	-	5	776
2010	-	156	28	28	-	52	-	3	267

Source : Statistics Unit, Ministry of Health and Quality of Life

**Table 4.21 - Enteritis and other diarrhoeal diseases, 2001 – 2010**

YEAR	Number									
	Cases treated as in-patients in government hospitals					Deaths in whole island				
	Under one Year	1 - 4 Years	5 - 14 Years	15 Years and over	Total	Under one Year	1 - 4 Years	5 - 14 Years	15 Years and over	Total
2001	616	880	483	2,517	4,496	3	2	-	9	14
2002	862	1,652	603	2,777	5,894	3	2	-	6	11
2003	487	1,029	528	2,515	4,559	3	2	1	7	13
2004	566	2,044	1,024	2,218	5,852	6	5	-	6	17
2005	538	1,380	648	2,588	5,154	1	1	-	8	10
2006	742	2,373	975	3,853	7,943	2	2	-	24	28
2007	636	1,483	945	3,260	6,324	2	-	-	11	13
2008	771	2,073	818	3,584	7,246	1	2	1	16	20
2009	545	1,220	722	2,989	5,476	1	2	-	22	25
2010	513	1,482	830	3,073	5,898	1	1	-	26	28

Table 4.22 - Sea transport<sup>1</sup>, 2001 – 2010

Period	Vessels entering		Vessels leaving		Goods	
	Number	Net registered tonnage (000t)	Number	Net registered tonnage (000t)	Unloaded (000t)	Loaded <sup>2</sup> (000t)
2001	1,643	7,026	1,782	6,482	4,362	1,365
2002	1,664	8,595	1,612	7,871	3,961	947
2003	1,588	8,399	1,578	8,843	4,076	1,165
2004	1,330	7,800	1,481	8,662	4,696	1,773
2005	1,407	6,786	1,318	6,713	4,709	1,197
2006	1,365	7,400	1,321	7,265	4,619	1,226
2007	2,317	-	-	-	5,080	1,179
2008	2,008	-	-	-	5,140	1,155
2009	2,079	-	-	-	4,761	1,177
2010	2,172	-	-	-	5,100	1,130

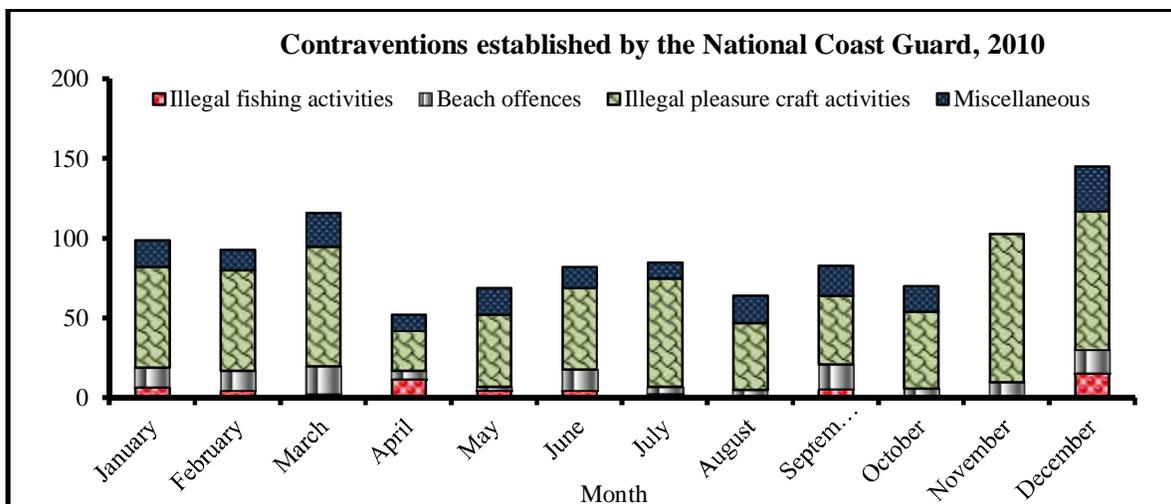
<sup>1</sup> exclude fishing vessels berthed in Port Louis only.

<sup>2</sup> exclude bunkers.

Table 4.23 - Contraventions established by the National Coast Guard, 2010

Month	Illegal fishing activities	Beach offences	Illegal pleasure craft activities	Miscellaneous	Total
January	7	12	63	17	99
February	5	12	63	13	93
March	3	17	75	21	116
April	12	5	25	10	52
May	5	2	45	17	69
June	5	13	51	13	82
July	3	4	68	10	85
August	0	5	42	17	64
September	6	15	43	19	83
October	2	4	48	16	70
November	0	10	93	0	103
December	16	14	87	28	145
<b>Total</b>	<b>64</b>	<b>113</b>	<b>703</b>	<b>181</b>	<b>1,061</b>

Figure 16 - Contraventions established by the National Coast Guard, 2010



**Table 4.24 - Mean sea surface temperature around the Island of Mauritius, 2001 – 2010**

		January	February	March	April	May	June	July	August	September	October	November	December	Degrees celcius Average for the year
2001	Mean	25.5	27.3	26.6	26.6	25.3	23.7	23.5	22.7	22.5	23.2	24.2	25.9	<b>24.8</b>
	<i>Difference from Normal</i>	1.9	0.4	1.2	0.5	0.8	1.3	0.5	0.8	1.0	0.9	1.0	0.7	
2002	Mean	26.3	27.6	28.1	26.3	26.2	24.2	23.9	22.6	24.0	24.7	25.1	27.2	<b>25.5</b>
	<i>Difference from Normal</i>	1.1	0.1	-0.3	0.8	-0.1	0.8	0.1	0.9	-0.5	-0.6	0.1	-0.6	
2003	Mean	27.7	28.1	27.9	27.2	26.5	25.4	23.9	23.1	23.4	23.9	25.5	26.7	<b>25.8</b>
	<i>Difference from Normal</i>	-0.3	-0.4	-0.1	-0.1	-0.4	-0.4	0.1	0.4	0.1	0.2	-0.3	-0.1	
2004	Mean	26.9	28.6	27.7	27.7	27.3	24.6	23.9	23.6	23.4	24.0	25.3	26.5	<b>25.8</b>
	<i>Difference from Normal</i>	0.5	-0.9	0.1	-0.6	-1.2	0.4	0.1	-0.1	0.1	0.1	-0.1	0.1	
2005	Mean	27.8	28.6	28.0	27.4	26.5	25.0	24.1	24.0	23.5	24.9	24.9	26.3	<b>25.9</b>
	<i>Difference from Normal</i>	-0.4	-0.9	-0.2	-0.3	-0.4	0.0	-0.1	-0.5	0.0	-0.8	0.3	0.3	
2006	Mean	27.7	27.1	27.5	27.5	27.3	24.5	24.1	23.5	23.8	24.1	25.1	26.7	<b>25.7</b>
	<i>Difference from Normal</i>	-0.3	0.6	0.3	-0.4	-1.2	0.5	-0.1	0.0	-0.3	0.0	0.1	-0.1	
2007	Mean	27.7	28.6	27.2	26.8	26.2	25.3	24.3	23.8	23.6	24.0	25.5	26.1	<b>25.8</b>
	<i>Difference from Normal</i>	0.3	0.9	-0.6	-0.3	0.1	0.3	0.3	0.3	0.1	-0.1	0.3	-0.5	
2008	Mean	26.8	27.7	27.2	27.0	26.4	25.2	23.6	23.5	23.9	24.3	26.1	27.7	<b>25.8</b>
	<i>Difference from Normal</i>	-0.6	0.0	-0.6	-0.1	0.3	0.2	-0.4	0.0	0.4	0.2	0.9	1.1	
2009	Mean	29.5	28.5	28.7	28.3	27.1	26.1	25.1	24.1	24.1	24.8	25.8	27.6	<b>26.6</b>
	<i>Difference from Normal</i>	2.1	0.8	0.9	1.2	1.0	1.1	1.1	0.6	0.6	0.7	0.6	1.0	
2010	Mean	28.2	29.0	28.6	28.6	27.7	26.0	25.0	24.7	24.0	25.0	26.2	27.2	<b>26.7</b>
	<i>Difference from Normal</i>	0.8	1.3	0.8	1.5	1.6	1.0	1.0	1.2	0.5	0.9	1.0	0.6	
Mean 1971 -2000		27.4	27.7	27.8	27.1	26.1	25.0	24.0	23.5	23.5	24.1	25.2	26.6	<b>25.7</b>

Source : Meteorological Services

**Table 4.25 - Percentage distribution of households by type of water supply and other amenities available, Republic of Mauritius, 2000 and 2011 Housing Censuses.**

Amenity available	Housing Censuses	
	2000 (%)	2011 (%)
1. Water supply		
(i) Piped water inside house	83.7	94.2
(ii) Piped water outside on premises	14.5	5.2
(iii) Public fountain, well, rivers , etc.	1.8	0.6
2. Availability of water tank / Reservoir	36.4	49.5
3. Bathroom		
(i) With running water	89.0	95.5
(ii) Without running water	10.1	4.0
(iii) None	1.0	0.5
4. Toilet		
(i) Flush toilet	88.8	96.4
(ii) Pit latrine	11.0	3.4
(iii) Other and None	0.2	0.2

# **CHAPTER 5**

## **LAND**

**Table 5.1 - Land use by category, 1995 and 2005**

	1995		2005 <sup>1</sup>		Change	
	Hectares	%	Hectares	%	Hectares	%
<i>Sugar cane plantations (Source SIFB)</i>	76,840	41.2	72,000	38.6	-4,840	-6.3
<i>Tea plantations (Source Tea Board)</i>	3,660	2.0	674	0.4	-2,986	-81.6
<i>Other agricultural activities</i>	6,000	3.2	8,000	4.3	2,000	33.3
<b>Total agricultural land</b>	<b>86,500</b>	<b>46.4</b>	<b>80,674</b>	<b>43.2</b>	<b>-5,826</b>	
Forests, scrubs & grazing lands	57,000	30.6	47,200	25.3	-9,800	-17.2
Infrastructure	4,000	2.1	4,500	2.4	500	12.5
Inland water resource systems	2,600	1.4	2,900	1.6	300	11.5
Built-up areas	36,400	19.5	46,500	24.9	10,100	27.7
Abandoned cane fields	...	...	4,726	2.5	...	...
<b>Total</b>	<b>186,500</b>	<b>100.0</b>	<b>186,500</b>	<b>100.0</b>		

Source: Stocktaking and Stakeholders Consultation - Climate Change Activities Report, National Climate Committee Mauritius Meteorological Services, Republic of Mauritius, 2006

<sup>1</sup> Estimates

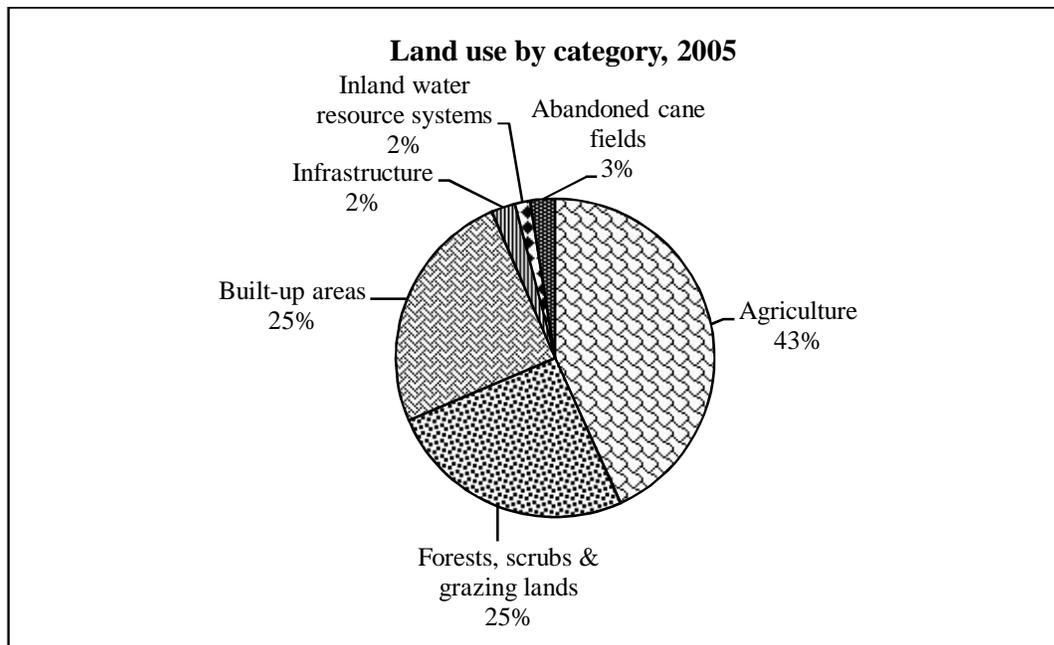
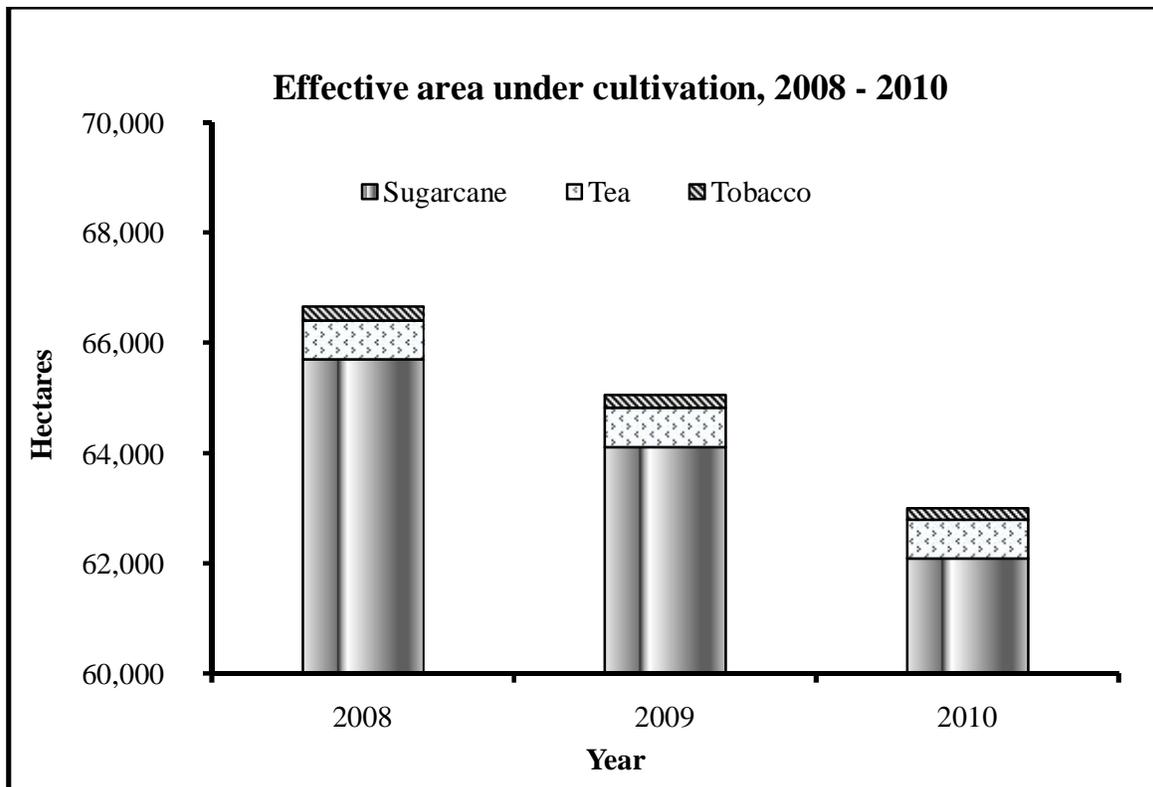
**Figure 17 - Land use by Category, 2005**

Table 5.2 - Effective area under cultivation of sugar cane, tea and tobacco, 2008 – 2010

Hectares			
Crops	2008	2009	2010
Sugarcane	65,710	64,120	62,100
Tea	701	713	698
Tobacco	256	230	210

Figure 18 - Effective area under cultivation, 2008 - 2010



**Table 5.3 - Road network, 2001 – 2010**

Year	Length of roads ( km )					% of roads paved	Density of total network in km per sq km <sup>1</sup>	Number of vehicles per km of road
	Motorways	Main roads	Secondary roads	Other roads	Total			
2001	60	950	592	398	2,000	98	1.07	128
2002	60	950	592	398	2,000	98	1.07	133
2003	75	950	592	398	2,015	98	1.08	137
2004	75	955	592	398	2,020	98	1.08	144
2005	75	955	592	398	2,020	98	1.08	151
2006	75	955	593	398	2,021	98	1.08	158
2007	75	962	593	398	2,028	98	1.09	165
2008	75	962	593	398	2,028	98	1.09	173
2009	75	1000	593	398	2,066	98	1.11	177
2010	...	...	...	...	2,080	...	1.11	185

<sup>1</sup> density of total network in km per sq km is the ratio of the total number of km of roads to the area of Mauritius ( 1,865 sq km )

**Table 5.4 - Number of accidents by severity of accident, 2001 – 2010**

Year	Severity of accident				
	Fatal <sup>1</sup>	Serious	Slight	No injury	Total
2001	112	218	2,147	16,040	18,517
2002	144	162	1,852	15,846	18,022
2003	121	211	1,729	17,177	19,178
2004	131	184	1,845	17,335	19,495
2005	116	295	1,733	20,410	22,554
2006	122	296	1,529	18,295	20,242
2007	133	403	1,654	18,329	20,519
2008	162	380	1,681	18,650	20,873
2009	140	516	3,005	15,881	19,542
2010	158	587	2,930	17,581	21,256

<sup>1</sup> Prior to 2002, a fatal accident was defined as an accident where death occurred within 7 days .  
As from 2002 a fatal accident is defined as an accident where death occurred within 30 days.

Table 5.5 - Imports of fertilizers and pesticides, 2001 – 2010

	Tonnes									
	2001	2002	2003	2004	2005	2006	2007	2008	2009 <sup>1</sup>	2010 <sup>2</sup>
Fertilizers	68,966	43,877	64,081	48,749	61,605	55,313	45,336	46,677	57,169	46,254
<b>Pesticides</b>	1,824	1,959	2,222	2,072	2,141	2,387	1,965	2,249	2,324	2,606
<i>Insecticides</i>	605	755	809	642	707	1,288	648	645	837	1,169
<i>Fungicides</i>	177	199	201	210	242	188	212	210	207	239
<i>Weedkillers</i>	1,042	1,005	1,212	1,220	1,192	911	1,105	1,394	1,280	1,198

<sup>1</sup> Revised<sup>2</sup> provisional

Figure 19 - Imports of fertilisers and pesticides, 2001 – 2010

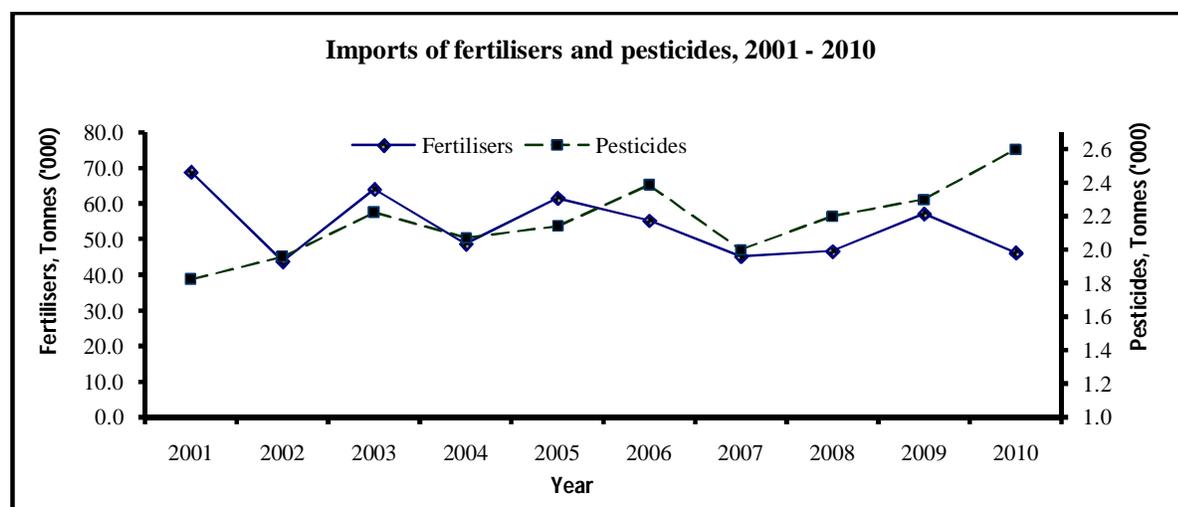


Table 5.6 - Imports of fertilizers, 2008 - 2010

Year	Quantity (tonnes)	Value	
		FOB (Rs million)	CIF (Rs million)
2008	46,677	783.7	935.2
2009	57,169	712.8	832.2
2010	46,254	487.1	585.7

FOB: Free on board

CIF: Cost, Insurance, Freight

Figure 20 - Imports of fertilizers, 2008 - 2010

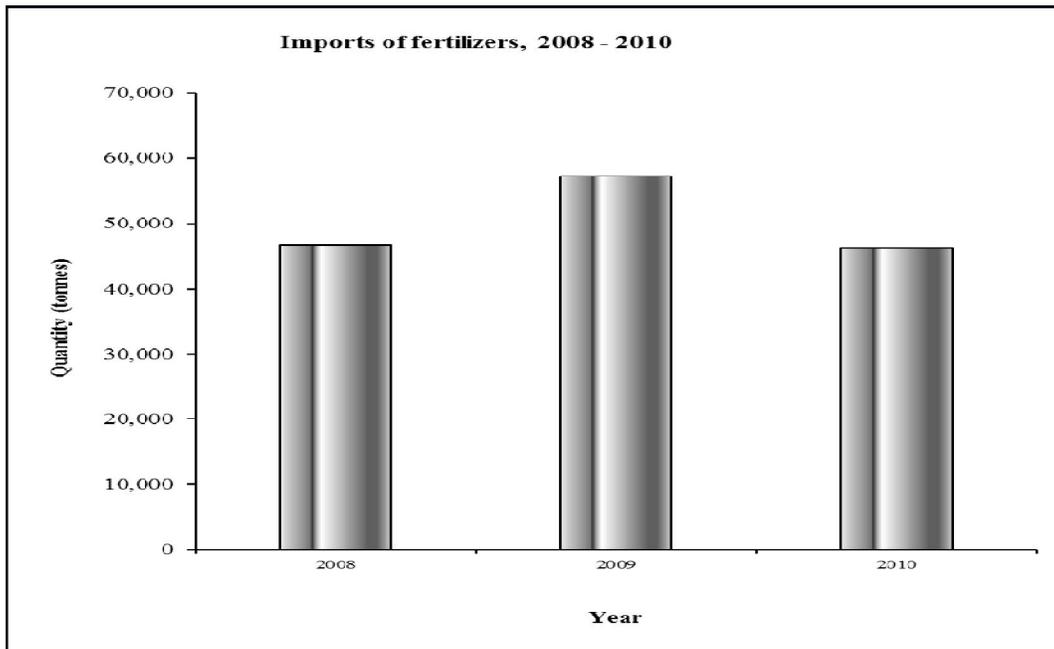


Table 5.7 - Land under irrigation, 2003– 2010

Year	Hectares			
	Overhead	Surface	Drip	Total
2003	17,706	2,032	1,881	21,619
2004	17,548	1,837	2,032	21,417
2005	16,761	1,768	2,129	20,658
2006	17,576	1,737	2,109	21,422
2007	17,602	1,618	2,101	21,321
2008	18,264	1,053	2,140	21,457
2009	18,818	875	1,850	21,543
2010	17,023	714	2,110	19,847
<b>(By region) 2010</b>				
North	5,895	373	1,132	7,400
East	2,939	-	244	3,183
Centre	449	-	-	449
West	3,672	341	173	4,186
South	4,068	-	561	4,629

**Table 5.8 - Number of permits <sup>1</sup> and floor area by region, 2005 – 2010**

Region	2005		2006		2007		2008		2009		2010	
	No of permits issued	Floor area (m <sup>2</sup> )	No of permits issued	Floor area (m <sup>2</sup> )	No of permits issued	Floor area (m <sup>2</sup> )	No of permits issued	Floor area (m <sup>2</sup> )	No of permits issued	Floor area (m <sup>2</sup> )	No of permits issued	Floor area (m <sup>2</sup> )
<b>Urban areas</b>	<b>2,902</b>	<b>556,974</b>	<b>3,560</b>	<b>650,202</b>	<b>3,048</b>	<b>639,398</b>	<b>2,617</b>	<b>571,730</b>	<b>2,546</b>	<b>634,853</b>	<b>2,491</b>	<b>436,682</b>
Port Louis	642	162,633	894	172,647	746	140,920	577	109,089	596	128,193	499	94,586
Beau Bassin - Rose Hill	505	87,932	440	76,880	454	69,200	414	66,918	489	87,592	300	40,447
Curepipe	486	69,360	534	82,975	463	66,081	340	41,808	347	55,040	312	64,964
Quatre Bornes	570	114,620	569	157,931	466	175,162	479	220,144	392	247,363	422	90,252
Vacoas - Phoenix	699	122,429	1,123	159,769	919	188,035	807	133,771	722	116,665	958	146,433
<b>Rural areas</b>	<b>5,088</b>	<b>866,064</b>	<b>5,130</b>	<b>918,479</b>	<b>6,052</b>	<b>1,320,195</b>	<b>5,026</b>	<b>995,153</b>	<b>4,881</b>	<b>1,060,091</b>	<b>4,862</b>	<b>985,335</b>
Pamplemousses	914	159,098	866	142,443	808	154,881	575	94,899	687	128,579	731	137,568
Riviere du Rempart	773	142,013	781	131,390	1,041	242,050	692	166,758	906	186,620	777	164,676
Flacq	1,007	137,560	986	173,616	1,181	205,193	908	148,582	687	96,721	692	108,715
Grand Port	576	76,560	708	120,150	697	135,810	720	99,518	634	144,078	685	100,274
Savanne	548	85,765	664	93,563	801	124,666	645	92,095	617	85,565	580	77,846
Plaines Wilhems	40	5,287	63	10,513	35	6,613	53	6,525	34	4,333	46	6,002
Moka	571	71,606	632	117,818	611	138,233	441	81,634	406	71,522	367	70,395
Black River	659	188,175	430	128,986	878	312,749	992	305,142	910	342,673	984	319,859
<b>Total</b>	<b>7,990</b>	<b>1,423,038</b>	<b>8,690</b>	<b>1,568,681</b>	<b>9,100</b>	<b>1,959,593</b>	<b>7,643</b>	<b>1,566,883</b>	<b>7,427</b>	<b>1,694,944</b>	<b>7,353</b>	<b>1,422,017</b>

<sup>1</sup> includes new buildings and additions for which permits have been issued by Municipalities and Districts Councils

**Table 5.9 - Number of permits<sup>1</sup> and floor area by type of building, 2006 – 2010**

Type of building	2006		2007		2008		2009		2010	
	No of permits issued	Floor area (m <sup>2</sup> )	No of permits issued	Floor area (m <sup>2</sup> )	No of permits issued	Floor area (m <sup>2</sup> )	No of permits issued	Floor area (m <sup>2</sup> )	No of permits issued	Floor area (m <sup>2</sup> )
<b>Residential</b>	<b>8,122</b>	<b>1,250,115</b>	<b>8,133</b>	<b>1,292,860</b>	<b>7,010</b>	<b>1,124,110</b>	<b>6,896</b>	<b>1,158,832</b>	<b>6,871</b>	<b>1,189,726</b>
New buildings	4,611	884,513	4,740	932,465	3,915	802,112	3,888	834,622	4,047	882,368
Additions	3,511	365,602	3,393	360,395	3,095	321,998	3,008	324,210	2,824	307,358
<b>Non residential</b>	<b>568</b>	<b>318,566</b>	<b>967</b>	<b>666,733</b>	<b>633</b>	<b>442,773</b>	<b>531</b>	<b>536,112</b>	<b>482</b>	<b>232,291</b>
Agriculture, forestry, hunting and fishing	23	16,184	62	47,372	39	24,932	17	2,304	34	23,473
Manufacturing	31	37,857	98	191,190	64	66,895	36	28,084	22	8,508
Electricity and water	2	877	-	-	3	2,157	1	1,122	-	-
Construction	-	-	4	11,360	2	3,908	0	0	-	-
Wholesale and retail trade, restaurant and hotels	386	172,071	575	225,275	385	131,408	33	336,286	306	119,194
Transport, storage & communication	14	13,170	32	15,316	39	29,294	43	76,464	24	8,746
Banking, insurance and real estate	38	49,973	67	112,226	42	139,489	33	67,745	46	53,804
Community, social & personal services	74	28,434	129	63,994	59	44,690	67	24,107	50	18,566
<b>Total</b>	<b>8,690</b>	<b>1,568,681</b>	<b>9,100</b>	<b>1,959,593</b>	<b>7,643</b>	<b>1,566,883</b>	<b>7,427</b>	<b>1,694,944</b>	<b>7,353</b>	<b>1,422,017</b>

<sup>1</sup> includes new buildings and additions for which permits have been issued by Municipalities and District Councils

**Table 5.10 - Solid waste input by type at Mare Chicose landfill site, 2005 – 2010**

Waste type	2005	2006	2007	2008	2009	Tonnes 2010
Construction	3,756	1,109	502	2,065	671	2,394
Domestic	363,776	387,751	365,824	373,860	389,999	402,816
Industrial ( inc. textile )	2,340	2,619	2,157	1,798	1,470	1,572
Tuna/Sludge	5,913	8,056	13,077	12,148	9,126	10,949
Poultry	3,930	3,752	3,387	6,867	7,209	6,339
Rubber tyres	394	465	223	347	365	481
Asbestos	85	14	260	32	26	44
Condemned goods	2,114	3,265	2,036	2,361	1,164	1,388
Difficult and hazardous	22	8	4	5	0	42
Paper waste	-	-	-	-	-	6
Others	-	-	6,648	5	5,918	1,771
<b>TOTAL</b>	<b>382,330</b>	<b>407,039</b>	<b>394,118</b>	<b>399,488</b>	<b>415,948</b>	<b>427,802</b>

Source: Ministry for Local Government and Outer Islands.

**Table 5.11 – Solid waste input by type at Mare Chicose landfill site, 2010**

Waste type	Tonnes												Total
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
Domestic	38,068	35,332	35,480	33,429	31,180	32,043	31,885	31,972	31,305	31,619	32,816	37,685	402,816
Textile	54	33	27	46	34	38	39	38	34	35	23	32	432
Poultry	459	437	516	413	425	521	617	594	582	553	600	620	6,339
Tuna/Sludge	834	694	910	905	769	877	688	744	818	1229	1226	1255	10,949
Rubber tyres	37	38	30	30	40	48	42	53	35	52	30	46	481
Industrial	83	91	145	211	150	72	54	84	65	59	65	61	1,140
Construction waste	-	6	39	40	18	135	164	321	385	203	369	715	2,394
Asbestos	-	4	-	2	9	-	21	4	-	-	-	4	44
Condemned goods	291	48	196	176	64	90	100	91	96	115	65	56	1,388
Difficult and hazardous	-	-	6	1	0	7	7	-	0	-	-	21	42
Paper waste	-	-	-	-	-	3	-	-	-	-	3	-	6
Others	-	-	1771	-	-	-	-	-	-	-	-	-	1771
<b>Total</b>	<b>39,827</b>	<b>36,686</b>	<b>37,362</b>	<b>35,267</b>	<b>32,697</b>	<b>33842</b>	<b>33629</b>	<b>33904</b>	<b>33325</b>	<b>33871</b>	<b>35208</b>	<b>40494</b>	<b>427,802</b>

Source: Ministry for Local Government and Outer Islands.

**Table 5.12 - Number of Environmental Impact Assessment (EIA) and Preliminary Environmental Report (PER) licenses granted by type of project, 2007 – 2010**

Project	EIA				PER			
	2007	2008	2009	2010 <sup>1</sup>	2007	2008	2009	2010 <sup>1</sup>
Land parcelling (morcellement)	3	12	2	5	5	-	-	-
Poultry rearing	18	-	-	-	19	10	9	3
Industrial development	11	-	7	5	28	16	6	5
Coastal hotels & related works	-	8	7	12	23	-	-	-
Livestock rearing	10	-	-	-	-	-	-	4
Housing	-	-	1	1	4	-	-	-
Stone crushing plants	-	-	-	3	-	-	-	-
Development in port area	-	-	-	1	-	-	-	-
Service ("filling") station	-	-	-	-	-	-	-	-
Other	13	24	6	17	17	14	16	7
<b>Total</b>	<b>55</b>	<b>44</b>	<b>23</b>	<b>44</b>	<b>96</b>	<b>40</b>	<b>31</b>	<b>19</b>

Source : Ministry of Environment and Sustainable Development.

<sup>1</sup> Provisional.

Table 5.13 - Number of establishments<sup>1</sup> by industrial group, Republic of Mauritius, 2006 – 2010

	2006	2007	2008	2009	2010
<b>Agriculture, forestry and fishing</b>	<u>218</u>	<u>219</u>	<u>213</u>	<u>216</u>	<u>194</u>
<i>Sugarcane</i>	117	112	106	104	78
<i>Tea</i>	8	8	8	7	7
<i>Tobacco</i>	31	35	32	32	29
<i>Other agriculture</i>	62	64	67	73	80
<b>Mining and quarrying</b>	<u>6</u>	<u>5</u>	<u>5</u>	<u>5</u>	<u>5</u>
<b>Manufacturing</b>	<u>824</u>	<u>838</u>	<u>841</u>	<u>789</u>	<u>730</u>
<i>Food</i>	114	115	116	116	112
<i>Beverage and tobacco</i>	15	16	16	16	16
<i>Textile and wearing apparel (except footwear)</i>	291	299	292	256	230
<i>Other manufacturing</i>	404	408	417	401	372
<b>Electricity, gas and water</b>	<u>7</u>	<u>8</u>	<u>8</u>	<u>8</u>	<u>9</u>
<b>Construction</b>	<u>90</u>	<u>85</u>	<u>89</u>	<u>98</u>	<u>101</u>
<b>Wholesale and retail trade, repair of m/vehicles, motorcycle, personal &amp; household goods</b>	<u>364</u>	<u>377</u>	<u>414</u>	<u>413</u>	<u>418</u>
<i>Wholesale and retail trade</i>	321	317	337	343	374
<i>Maintenance and repair of motor vehicles and motorcycles</i>	12	11	13	13	13
<i>Sales of motor vehicles, motorcycles and related parts; automotive fuel</i>	31	29	29	30	31
<b>Hotels and restaurants</b>	<u>151</u>	<u>150</u>	<u>153</u>	<u>160</u>	<u>173</u>
<b>Transport , storage and communication</b>	<u>105</u>	<u>106</u>	<u>111</u>	<u>117</u>	<u>119</u>
<b>Financial intermediation</b>	<u>77</u>	<u>89</u>	<u>88</u>	<u>90</u>	<u>93</u>
<b>Real estate, renting and business activities</b>	<u>217</u>	<u>221</u>	<u>229</u>	<u>256</u>	<u>291</u>
<b>Public administration &amp; defence; compulsory social security</b>	<u>154</u>	<u>154</u>	<u>160</u>	<u>162</u>	<u>162</u>
<b>Education</b>	<u>175</u>	<u>180</u>	<u>176</u>	<u>176</u>	<u>181</u>
<b>Health and social work</b>	<u>41</u>	<u>44</u>	<u>50</u>	<u>52</u>	<u>62</u>
<b>Other community, social and personal services</b>	<u>82</u>	<u>90</u>	<u>99</u>	<u>101</u>	<u>112</u>
<b>Total</b>	<b>2,511</b>	<b>2,566</b>	<b>2,636</b>	<b>2,644</b>	<b>2,650</b>

<sup>1</sup> Only large establishments have been considered, i.e those engaging 10 or more persons.

**Table 5.14 - List of Proclaimed Public Beaches by districts**

Name	Extent (ha)	Sea Frontage (m) (Approx)
<b>PAMPLEMOUSSES</b>		
Le Goulet	3.5	470
Ville Valio	1.3	65
Pointe aux Piments (Pointe Oberoi)	1.2	147
Pointe aux Piments (Between Le Meridien & Victoria Hotel)	1.1	...
Pointe aux Piments (Fish Landing Station)	2.5	715
Pointe aux Piments (Main Beach)	0.2	111
Pointe aux Piments (Opposite Aquarium)	1.4	300
Pointe aux Piments (Near Colonial Hotel)	0.6	244
Pointe aux Piments (Known as Pointe Cimetiere)	1.3	...
Pointe aux Piments (Pointe aux Biches)	2.6	447
Trou aux Biches (Opposite Aquarium)	2.6	700
Trou aux Biches (In front of Police Station)	0.9	73
Trou aux Biches (Opp. Casuarina)	1.0	215
Mon Choisy	17.3	1457
The Vale	0.3	63
<b>RIVIERE DU REMPART</b>		
Grand Baie (NCG Post)	0.01	...
Grand Baie	1.2	336
La Cuvette	1.7	310
Pereybere	1.8	108
Bain Boeuf	2.2	727
Cap Malheureux	0.2	39
P.G. Union Ribet	16.9	1163
Anse La Raie	0.6	110
Butte a l'Herbe	8.8	560
Belle Vue Cugnet	0.3	156
Belle Vue Cugnet	0.6	198
Belle Vue Cugnet	0.3	62
Grand Gaube	0.7	220
Islet Matapan & Pt. of P.G. Melville	5.0	1050
Melville Public Beach	2.1	...
Melville Public Beach	2.1	...
Poudre d'Or	4.2	848
Volke Molke	0.7	167
<b>FLACQ</b>		
Roches Noires	2.1	350
Poste Lafayette	1.0	130
Poste Lafayette (Near Police Memorial)	7.2	620
Poste Lafayette	0.4	30
Bras d'Eau	2.7	650
Part of P.G Choisy	1.7	200
Belle Mare (Part of P.G)	0.3	280
Belle Mare (Main Beach)	17.4	1500
Belle Mare (Near Residence Hotel)	8.4	430
Belle Mare (Near Residence Thalassa Hotel)	3.0	210
Palmar (Near Ambre Hotel)	1.1	150
Palmar (Near Surcouf Hotel)	0.6	230
Palmar (Main Beach)	18.5	1400
Quatres Cocos Village (Near Carro Bringel)	0.3	100
Trou d'Eau Douce (Near Le Tropical Hotel)	0.9	360
Trou d'Eau Douce (Four a Chaux)	3.2	750
Grand River South East	0.5	110

**Table 5.14 Con't - List of Proclaimed Public Beaches by districts**

<b>Name</b>	<b>Extent (ha)</b>	<b>Sea Frontage (m) (Approx)</b>
<b>GRAND PORT</b>		
Grand Sable	0.1	15
Grand Sable	0.1	66
Pointe du Diable	0.2	71
Pointe des Bambous	0.1	148
Bois des Amourettes	1.0	275
Old Grand Port	0.2	59
Riviere des Creoles	0.4	257
Pointe Canon	1.0	400
Mahebourg Village (Portion No.2)	0.2	107
Remy Ollier Square(Portion No.1)	0.4	180
Blue Bay	4.8	400
La Cambuse	5.5	692
Le Bouchon	11.0	1475
Pont Naturel	0.8	163
Le Souffleur	2.1	180
P.G Petit Sable	0.8	...
P.G Anse Jonchee	0.1	...
P.G Anse Jonchee	0.2	...
P.G Anse Jonchee	0.2	...
<b>SAVANNE</b>		
Terracine	6.1	1048
Gris Gris	3.8	220
Telfair	1.4	285
Surinam	0.3	100
Near Souillac Cemetery	1.3	885
Saint Felix	0.6	391
Saint Felix	6.7	819
Riviere des Galets	11.6	1530
Bel Ombre	6.5	579
<b>BLACK RIVER</b>		
La Prairie	2.2	300
P.G L'Embrasure	4.7	1930
Le Morne Brabant	21.5	1900
P.G Le Morne (Pte Sud Ouest)	0.5	40
P.G Le Morne (Berjaya Hotel)	5.3	500
P.G. Comtesse La Marque	8.9	...
La Preneuse	0.5	83
Tamarin	2.2	410
Wolmar	1.3	50
Flic en Flac ( Wolmar (Near Pearl Beach Hotel)	12.8	1795
Flic en Flac (Near Manisa Hotel)	2.1	545
Flic en Flac (Opposite Restaurant Ocean)	2.1	512
P.G Anna	0.4	105
P. G Albion	1.9	205
P.G. Mon Plaisir	211	250
Petit Verger	0.2	62
Petit Verger	0.2	50
Pointe aux Sables	1.1	88
Pointe aux Sables (near Fisheries Post and Training Centre)	0.3	68
Pointe aux Sables (Martello Tower)	0.6	...
<b>PORT LOUIS</b>		
Grand River North West	0.7	198

Source: Beach Authority

**Table 5.15 - Rating of the state of the environment by head of household surveyed, Continuous Multi-Purpose Household Survey (CMPHS) 2001, (Republic of Mauritius)**

Situation	Percentage of households having rated the situation as :					Total
	Very Good	Good	Satisfactory	Poor	Bad	
Vicinity of house	3.4	34.3	38.0	17.5	6.8	100.0
Rivers/riverside	0.7	17.4	32.3	33.2	16.4	100.0
Industrial/commercial sites	0.6	21.0	40.8	26.4	11.2	100.0
Beaches	5.6	40.3	40.3	10.3	3.5	100.0
Country in general	1.6	24.4	48.4	19.8	5.8	100.0

Source: CSO, Continuous Multi-Purpose Household Survey, 2001

**Table 5.16 – Percentage distribution of households surveyed by specified environment problem, Continuous Multi-Purpose Household Survey (CMPHS) 2002, (Republic of Mauritius)**

Environmental problem	Percentage of household affected			Total
	Not affected at all	Affected to some extent	Seriously affected	
Dumping of solid waste	80.4	12.8	6.8	100.0
Waste/stagnant water	83.1	10.8	6.1	100.0
Stray dogs	62.1	25.6	12.3	100.0
Breeding of animals by neighbours	89.6	7.5	2.9	100.0
Rats/mice	64.9	26.3	8.8	100.0
Presence of crows	90.8	6.8	2.4	100.0
Traffic noise	75.7	18.0	6.3	100.0
Industrial noise	95.2	3.3	1.5	100.0
Other noise	86.8	9.8	3.4	100.0
Smoke/dust	81.7	13.0	5.3	100.0
Odours	83.1	10.8	6.1	100.0

Source: CSO, Continuous Multi-Purpose Household Survey, 2002

**Table 5.17 - Distribution of households surveyed by methods of carrying goods purchased, Continuous Multi-Purpose Household Survey (CMPHS) 2002, (Republic of Mauritius)**

Method of carrying goods purchased	Number of households	%
Plastic bags provided and own bag/basket	4,414	70.1
Only plastic bags provided	1,388	22.0
Own bag/basket only	498	7.9
<b>Total</b>	<b>6,300</b>	<b>100.0</b>

Source: CSO, Continuous Multi-Purpose Household Survey, 2002

**Table 5.18 - Percentage distribution of households by response on solid waste issues, Continuous Multi-Purpose Household Survey (CMPHS) 2007, (Republic of Mauritius)**

Household Response	Yes (%)	No (%)
(i) Prepared to separate waste	87.8	12.2
(ii) Prepared to transport by own means	23.5	76.5
(iii) Satisfied with waste collection	72.3	27.7
(iv) Aware that waste can be composted	70.7	29.3
(v) Do composting	65.0	35.0
(vi) Prepared to make compost	52.2	47.8

Source: CSO, Continuous Multi-Purpose Household Survey, 2007

**Table 5.19 - Percentage distribution of households by environmental issues, Continuous Multi-Purpose Household Survey (CMPHS) 2007, (Republic of Mauritius)**

	Yes (%)	No (%)
<b>1. Awareness of Environmental programmes</b>		
(i) Aware of Environmental Programmes on		
Radio	82.5	17.5
Television	84.3	15.7
(ii) Listened to or watched Environmental Programmes		
Radio	70.2	29.8
Television	72.8	27.2
<b>2. Participation in Clean up Campaigns</b>		
Participated in Clean up Campaigns	20.0	80.0
<b>3. PET Bins</b>		
(i) Used bins	35.3	64.7
(ii) Reason for not using bins		
a. Not aware	25.4	74.6
b. Not accessible/too far	39.1	60.9
c. No transport available	7.1	92.9
d. Not interested	4.0	96.0
<b>4. Plastic bags</b>		
Used for shopping		
(i) Own bag	96.1	3.9
(ii) Plastic bag provided/sold by sellers	69.7	30.3

Source: CSO, Continuous Multi-Purpose Household Survey, 2007

**Table 5.20 – Areal estimates for the various Environmentally Sensitive Areas (ESA) by type and sub category, 2009**

ESA Type	Estimated Area (ha)		
	Mauritius	Rodrigues	TOTAL
<b>Seagrass &amp; mixed Algae</b>	<b>3,278</b>	<b>17,765</b>	<b>21,043</b>
Sparse Seagrass	1,401		
Frequent Seagrass	957		
Abundant Seagrass	722		
Dense Seagrass	198		
<b>Coral reefs</b>	<b>6,306</b>	<b>7,005</b>	<b>13,311</b>
Reef flat	2,485		
Sparse Corals	787		
Frequent Corals	1,559		
Abundant Corals	732		
Dense Corals	743		
<b>Mangrove</b>	<b>145</b>	<b>24</b>	<b>169</b>
Sparse Mangrove	5		
Frequent Mangrove	28		
Abundant Mangrove	70		
Dense Mangrove	42		
<b>Mud Flats</b>	<b>919</b>	<b>656</b>	<b>1,575</b>
<b>Offshore Islets</b>	<b>1,269</b>	<b>181</b>	<b>1,450</b>
Volcanic	1,139	22	
Sand	94	34	
Calcarenitic limestone	36	125	
<b>Coastal Freshwater Marshlands</b>	<b>406</b>		<b>406</b>
<b>Upland Marsh</b>	<b>65</b>		<b>65</b>
<b>Forests with Native Content</b>	<b>8,700</b>		<b>8,700</b>
Very High Quality (Grade 1)	490		
High Quality (Grade 2)	1,162		
Low Quality (Grade 3)	7,048		
<b>Steep Slopes</b>	<b>45,210</b>	<b>8,051</b>	<b>53,261</b>
Moderately Steep (10 - 20%)	16,352	3,078	
Steep to Very Steep (> 20%)	28,858	4,973	

Figure 21: Map of Areal estimates for the various Environmentally Sensitive Areas by type and sub category, 2009

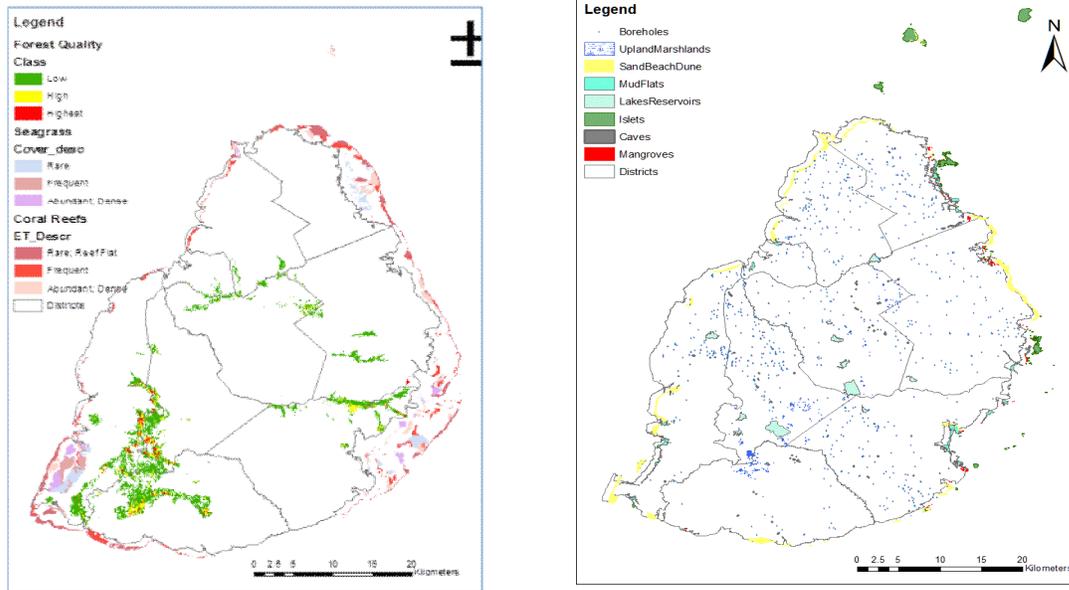
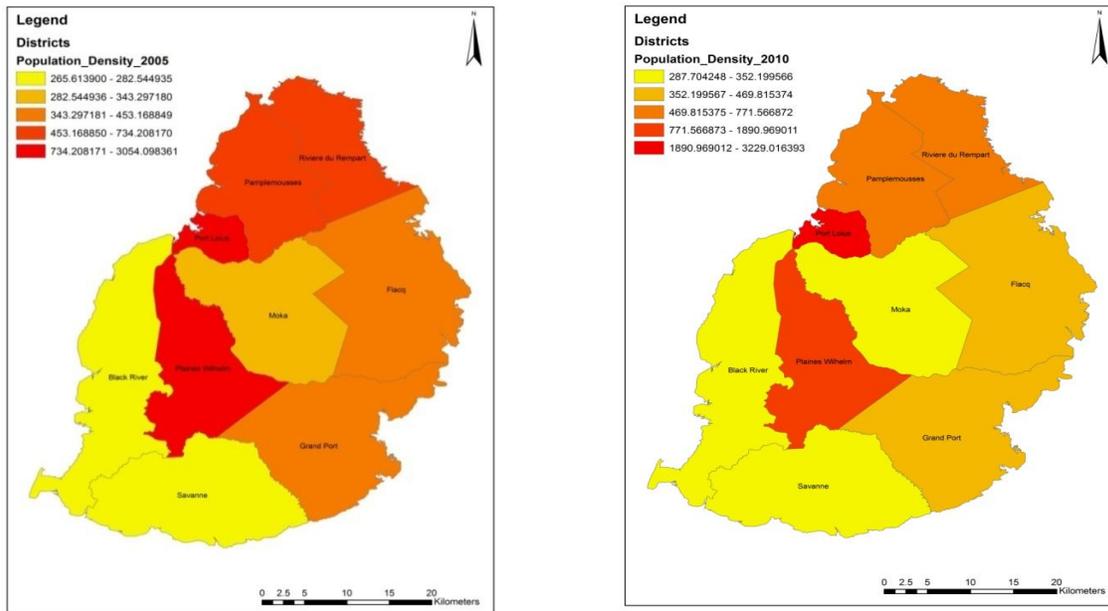


Figure 22: Population Density by district, 2005 – 2010



Source: Environmentally Sensitive Areas and Classification Report, Ministry of Environment and Sustainable Development, Republic of Mauritius, 2009

**Table 5.21 - Percentage distribution of households surveyed by type of vehicles owned, Continuous Multi-Purpose Household Survey (CMPHS) 2009, (Republic of Mauritius)**

Vehicle type	Yes (%)	No (%)	Total (%)
Motorcycle	24.6	75.4	100.0
Car	20.1	79.9	100.0
Dual Purpose Vehicle	2.3	97.7	100.0
Van	4.4	95.6	100.0
Truck	1.1	98.9	100.0
Other	0.4	99.6	100.0

Source: CSO - Continuous Multi-Purpose Household Survey ,2009

**Table 5.22 - Percentage distribution of households surveyed reporting on average kilometres travelled per year by type of vehicles owned, Continuous Multi - Purpose Household Survey (CMPHS) 2009, (Republic of Mauritius)**

Vehicle type	Average kilometres travelled				Total
	<10,000	10,000 - 15,000	15,001 - 20,000	>20,000	
Motorcycle/autocycle gasoline	72.6	19.3	4.6	3.5	100.0
Car gasoline	37.7	33.6	14.2	14.5	100.0
Car gasoline/gas	24.2	24.2	24.2	27.4	100.0
Car diesel	22.1	41.3	11.5	25.0	100.0
Car blended ethanol	-	-	-	-	-
Car other fuel	44.4	22.2	16.7	16.7	100.0
Dual Purpose Vehicle gasoline	20.0	32.0	20.0	28.0	100.0
Dual Purpose Vehicle gasoline/gas	-	16.7	33.3	50.0	100.0
Dual Purpose Vehicle diesel	26.1	31.1	18.5	24.4	100.0
Dual Purpose blended ethanol	-	-	-	-	-
Dual Purpose Vehicle other fuel,	-	100.0	-	-	100.0
Van gasoline	40.6	33.3	17.4	8.7	100.0
Van gasoline/gas	33.3	22.2	22.2	22.2	100.0
Van diesel	27.6	28.6	18.6	25.1	100.0
Van blended ethanol	50.0	-	-	50.0	100.0
Van other fuel	-	-	-	-	-
Truck diesel	15.3	27.8	22.2	34.7	100.0
Other vehicle and fuel	37.5	16.7	4.2	41.7	100.0

Source: CSO - Continuous Multi-Purpose Household Survey, 2009

**Table 5.23 - Percentage distribution of households surveyed by awareness of global environmental challenges, Continuous Multi - Purpose Household Survey (CMPHS) 2009, (Republic of Mauritius)**

Environmental Challenge	Yes (%)	No (%)	Total
Climate change (e.g impacts such as abnormal weather , flooding, cyclone, sea level rise, coastal erosion, etc)	82.7	17.3	100.0
Ozone layer depletion (e.g use of substances that deplete ozone layer such as sprays, refrigerators, air conditioned. Also impacts such as skin burnt, skin cancer, eye cataract, etc	49.8	50.2	100.0
Loss of biodiversity (e.g deforestation, extinction of animals, plants, habitat loss, etc)	46.2	53.8	100.0
Other (e.g pollutions, oil spills etc)	29.5	70.5	100.0

Source: CSO - Continuous Multi-Purpose Household Survey, 2009

**Table 5.24 - Percentage distribution of households surveyed by type and number of vehicles owned, Continuous Multi-Purpose Household Survey (CMPHS) 2009, (Republic of Mauritius)**

Type Number	Motorcycle/Autocycle	Car	Dual Purpose	Van	Truck	Other
0	75.4	79.9	97.7	95.6	98.9	99.6
1	23.1	18.4	2.3	4.3	1.1	0.3
2	1.4	1.6	0.0	0.1	0.0	0.1
3	0.1	0.1	-	-	-	-
3 or more	-	-	-	-	-	-
<b>Total</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>	<b>100</b>

Source: CSO - Continuous Multi-Purpose Household Survey, 2009

# **CHAPTER 6**

## **HUMAN SETTLEMENTS**

**Table 6.1 - Main environment and socio - economic indicators, Republic of Mauritius, 2001 and 2010**

	Units	2001	2010 <sup>1</sup>
<b>Environment indicators</b>			
1. Total land area	000 ha	204.0	204.0
2. Irrigated land	ha	21,631	19,847
3. Forest area (as a % of total land area)	%	30.4	25.3
4. Land protected areas	ha	13,973	14,854
5. Marine protected areas	ha	7,190	7,216
6. Threatened plant species (IUCN Red List)	Number	...	88
7. Threatened animal species (IUCN Red List)	Number	...	65
8. Total fish catch	tons	8,794	7,502
9. Mean catch per fisherman day	kg	4.5	6.5
10. Total Carbon dioxide emission	000 tons	2,597.7	3,583.2
11. Per capita carbon dioxide emission	tons	2.2	2.8
12. Mean annual rainfall	millimetres	1,891	1,806
13. Annual fresh water abstraction	Mm <sup>3</sup>	677	637
14. Daily per capita domestic water consumption	litres	158	160
15. Daily per capita solid waste generated ( <i>estimate</i> )	Kg	0.7	0.9
16. Total electricity production	GWh	1,911	2,689
17. Per capita primary energy requirement	toe	1.0	1.1
18. Per capita final energy consumption	toe	0.7	0.7
	toe per Rs 100,000		
19. Energy intensity	GDP	1.7	1.5
<b>Socio - economic indicators</b>			
1. Gross Domestic Product (GDP) at market prices	Rs mn	134,392	299,129
2. Sectoral contribution to GDP			
<i>Agriculture</i>	%	6.9	3.7
<i>Manufacturing</i>	%	22.5	18.0
<i>Construction</i>	%	5.2	6.9
<i>Wholesale and retail trade</i>	%	10.9	11.8
<i>Hotels and restaurants</i>	%	6.9	7.0
<i>Transport and communications</i>	%	12.8	9.5
<i>Financial intermediation and business services</i>	%	8.0	10.0
<i>Other</i>	%	26.8	33.1
3. GDP annual growth rate (basic prices)	%	4.6	4.2
4. Per capita GDP at market prices	Rs	111,977	233,473
5. Per capita GDP in US dollars	US\$	3,852	7,558
6. Investment (GDFCF)	Rs mn	29,981	74,395
7. Exports (f.o.b) (include ship's stores and bunkers)	Rs mn	47,511	69,556
8. Imports (c.i.f)	Rs mn	57,940	135,394
9. Population	Number	1,199,881	1,280,924
10. Population annual growth rate	%	1.0	0.4
11. Population density (per kilometre square)	Number	609	651
12. Total labour force <sup>2</sup>	000	538.5	603.3
13. Total employment <sup>2</sup>	000	493.6	558.1
<i>Agriculture (as a % of total)</i>	%	11.0	8.0
<i>Manufacturing (as a % of total)</i>	%	28.6	20.5
14. Unemployment rate <sup>2</sup>	%	6.9	7.8
15. Inflation rate	%	5.4	2.9
16. Tourist arrivals	000	660.0	934.8

<sup>1</sup> Provisional<sup>2</sup> Labour force, employment and unemployment, 16 years and over

**Table 6.2 - Evolution of the population by urban<sup>1</sup>/rural residence and sex between the 1990 and 2000 censuses**

Urban\Rural Residence	1990 census <sup>2</sup>			2000 census <sup>2</sup>			Intercensal increase	
	Both sexes	Male	Female	Both sexes	Male	Female	Number	Annual average (%)
Island of Mauritius	1,022,456	510,676	511,780	1,143,069	566,056	577,013	120,613	1.12
Urban population	414,242	206,104	208,138	503,045	247,844	255,201	88,803	1.96
Port Louis	132,460	65,873	66,587	144,303	71,720	72,583	11,843	0.86
Beau-Bassin/Rose Hill	91,518	45,497	46,021	103,872	50,730	53,142	12,354	1.27
Quatre Bornes	68,398	33,875	34,523	75,884	37,306	38,578	7,486	1.04
Vacoas/Phoenix	56,452	28,235	28,217	100,066	49,452	50,614	43,614	5.89
Curepipe	65,414	32,624	32,790	78,920	38,636	40,284	13,506	1.89
Rural population	608,214	304,572	303,642	640,024	318,212	321,812	31,810	0.51

<sup>1</sup> Urban population refers to the population in the five Municipal Council Areas defined according to proclaimed boundaries, altered in 1963 (Proclamation No 12 and 13 ) and subsequently enlarged in 1965 (Proclamation No 23 ), 1967 (Proclamation No 2 ) and in 1990 (Proclamation No 8 )

<sup>2</sup> Unadjusted " de jure " population

**Table 6.3 - Evolution of the population by geographical district and sex between the 1990 and 2000 censuses**

Geographical district	1990 census <sup>1</sup>			2000 census <sup>1</sup>			Intercensal increase	
	Both sexes	Male	Female	Both sexes	Male	Female	Number	Annual average (%)
Port Louis	133,073	66,179	66,894	127,855	63,458	64,397	-5,218	-0.40
Pamplemousses	101,666	51,212	50,454	122,252	60,533	61,719	20,586	1.86
Riviere du Rempart	86,779	43,362	43,417	98,854	49,116	49,738	12,075	1.31
Flacq	112,773	56,452	56,321	126,839	63,549	63,290	14,066	1.18
Grand Port	96,667	48,425	48,242	106,665	53,011	53,654	9,998	0.99
Savanne	60,841	30,444	30,397	66,356	32,787	33,569	5,515	0.87
Plaine Wilhems	321,713	160,252	161,461	358,182	175,852	182,330	36,469	1.08
Moka	65,176	32,378	32,798	75,479	37,275	38,204	10,303	1.48
Black River	43,768	21,972	21,796	60,587	30,475	30,112	16,819	3.31
<b>Island of Mauritius</b>	<b>1,022,456</b>	<b>510,676</b>	<b>511,780</b>	<b>1,143,069</b>	<b>566,056</b>	<b>577,013</b>	<b>120,613</b>	<b>1.12</b>

<sup>1</sup> "de jure" population; not adjusted for under enumeration of young children

**Table 6.4 - Age distribution of the population<sup>1</sup> as enumerated at the 1990 and 2000 censuses**

Age group  (Years)	1990				2000			
	Male	Female	Both sexes		Male	Female	Both sexes	
			Number	%			Number	%
0	10,088	9,908	19,996	2.0	9,163	8,965	18,128	1.6
1 - 4	36,743	36,039	72,782	7.1	36,697	35,910	72,607	6.3
5 - 9	50,011	48,443	98,454	9.6	51,229	50,271	101,500	8.9
10 - 14	54,708	53,684	108,392	10.6	47,438	46,410	93,848	8.2
15 - 19	47,231	45,982	93,213	9.1	49,447	48,126	97,573	8.5
20 - 24	50,784	48,694	99,478	9.7	53,325	53,993	107,318	9.4
25 - 29	52,451	50,576	103,027	10.1	45,390	45,656	91,046	8.0
30 - 34	46,603	44,800	91,403	8.9	48,739	48,307	97,046	8.5
35 - 39	40,437	39,142	79,579	7.8	50,503	49,151	99,654	8.7
40 - 44	29,457	29,689	59,146	5.8	44,739	43,568	88,307	7.7
45 - 49	21,219	22,102	43,321	4.2	38,340	38,069	76,409	6.7
50 - 54	17,892	18,974	36,866	3.6	27,168	28,556	55,724	4.9
55 - 59	15,219	16,016	31,235	3.1	18,623	20,647	39,270	3.4
60 - 64	14,426	15,747	30,173	3.0	14,808	17,248	32,056	2.8
65 - 69	11,062	12,698	23,760	2.3	11,404	13,602	25,006	2.2
70 - 74	6,307	8,040	14,347	1.4	9,267	11,954	21,221	1.9
75 - 79	3,815	5,924	9,739	1.0	5,905	8,681	14,586	1.3
80 - 84	1,514	3,110	4,624	0.4	2,506	4,416	6,922	0.6
85 +	680	2,172	2,852	0.3	1,324	3,410	4,734	0.4
Age unknown	29	40	69	0.0	41	73	114	0.0
<b>All ages</b>	<b>510,676</b>	<b>511,780</b>	<b>1,022,456</b>	<b>100.0</b>	<b>566,056</b>	<b>577,013</b>	<b>1,143,069</b>	<b>100.0</b>

<sup>1</sup> 'de jure' population; not adjusted for under enumeration of young children

**Table 6.5 - Population growth in intercensal periods, Republic of Mauritius<sup>1</sup> 1851 – 2011**

Census date	Republic of Mauritius			Island of Mauritius			Island of Rodrigues		
	Population enumerated at census	Density per km <sup>2</sup>	Average annual rate of increase(%)	Population enumerated at census	Density per km <sup>2</sup>	Average annual rate of increase(%)	Population enumerated at census	Density per km <sup>2</sup>	Average annual rate of increase (%)
20 <sup>th</sup> November 1851	181,318	92	...	180,823	97	2.55	495	5	...
8 <sup>th</sup> April 1861	310,743	158	5.91	310,050	166	5.91	693	7	3.65
11 <sup>th</sup> April 1871	317,150	161	0.20	316,042	169	0.19	1,108	11	4.80
4 <sup>th</sup> April 1881	361,305	184	1.31	359,874	193	1.31	1,431	14	2.59
6 <sup>th</sup> March 1891	372,656	189	0.31	370,588	199	0.29	2,068	20	3.75
1st April 1901	374,185	190	0.04	371,023	199	0.01	3,162	30	4.34
31 <sup>st</sup> March 1911	373,620	190	-0.02	368,791	198	-0.06	4,829	46	4.33
21 <sup>st</sup> May 1921	383,069	195	0.25	376,485	202	0.21	6,584	63	3.15
26 <sup>th</sup> April 1931	401,440	204	0.47	393,238	211	0.44	8,202	79	2.22
11 <sup>th</sup> June 1944	431,070	219	0.55	419,185	225	0.49	11,885	114	2.89
30 <sup>th</sup> June 1952	514,748	261	2.24	501,415	269	2.26	13,333	128	1.45
30 <sup>th</sup> June 1962 <sup>2</sup>	699,954	356	3.12	681,619	366	3.12	18,335	176	3.24
30 <sup>th</sup> June 1972 <sup>2</sup>	850,968	432	1.97	826,199	443	1.94	24,769	238	3.05
2 <sup>nd</sup> July 1983 <sup>2</sup>	999,945	508	1.48	966,863	518	1.44	33,082	318	2.67
1 <sup>st</sup> July 1990 <sup>3</sup>	1,056,660	537	0.79	1,022,456	548	0.80	34,204	329	0.48
1 <sup>st</sup> July 2000 <sup>3</sup>	1,178,848	599	1.10	1,143,069	613	1.12	35,779	344	0.45
3 <sup>rd</sup> July 2011	1,257,900	639	6.70	1,217,175	652	6.50	40,440	389	13.0

<sup>1</sup>excluding Agalega and St Brandon<sup>2</sup>"de facto" population<sup>3</sup>"de jure" population

**Table 6.6 - Growth of the resident population and vital statistics - Republic of Mauritius<sup>1</sup>, 2001– 2010**

Year	Population at beginning of year	Natural movement			Net international migration	Total increase	% change during the year due to:			Population at end of year
		Live births	Deaths	Natural increase			Natural increase	International migration	Total	
2001	1,193,175	19,696	7,983	11,713	+500	12,213	0.98	+0.04	1.02	1,205,388
2002	1,205,388	19,983	8,310	11,673	-569	11,104	0.97	-0.05	0.92	1,216,492
2003	1,216,492	19,343	8,520	10,823	+524	11,347	0.89	+0.04	0.93	1,227,839
2004	1,227,839	19,230	8,475	10,755	-822	9,933	0.88	-0.07	0.81	1,237,772
2005	1,237,772	18,820	8,646	10,174	+350	10,524	0.82	+0.03	0.85	1,248,296
2006	1,248,296	17,604	9,162	8,442	-300	8,142	0.68	-0.02	0.66	1,256,438
2007	1,256,438	17,034	8,498	8,536	-400	8,136	0.68	-0.03	0.65	1,264,574
2008	1,264,574	16,372	9,004	7,368	-200	7,168	0.58	-0.02	0.56	1,271,742
2009	1,271,742	15,344	9,224	6,120	-300	5,820	0.48	-0.02	0.46	1,277,562
2010	1,277,562	15,005	9,131	5,874	-310	5,564	0.46	-0.02	0.44	1,283,126

<sup>1</sup> Excl. Saint Brandon and Agalega**Table 6.7 - Life Expectancy at birth, 2001 - 2010**

Year	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010 <sup>1</sup>
Male	68.4	68.6	68.7	68.7	68.9	69.1	69.2	69.4	69.5	69.6
Female	75.3	75.3	75.4	75.5	75.7	75.9	76.1	76.6	76.7	76.8

<sup>1</sup> Provisional**Table 6.8 - Infant mortality<sup>1</sup> rate by geographical district, 2001 – 2010**

Geographical district	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Port Louis	16.0	13.8	9.7	17.9	18.8	13.9	20.2	16.7	11.6	16.7
Pamplemousses	13.8	11.9	12.7	16.4	16.6	21.3	11.6	15.7	13.7	8.5
Riviere du Rempart	12.0	19.1	8.7	17.8	12.7	15.2	17.1	11.7	12.7	13.7
Flacq	14.4	12.5	9.5	12.5	11.1	11.2	20.5	14.5	11.6	10.2
Grand Port	16.8	20.9	17.2	17.0	13.2	15.7	11.2	13.2	15.1	11.7
Savanne	7.3	17.6	13.2	17.6	13.8	7.2	11.4	16.7	14.9	15.1
Plaines Wilhems	13.1	11.8	13.9	9.8	10.7	11.0	16.4	13.7	13.8	13.0
Moka	14.2	13.4	12.0	14.9	17.7	12.7	13.9	10.5	16.1	13.2
Black River	17.3	18.4	14.5	8.5	8.1	13.7	7.5	16.0	11.8	10.2
<b>Island of Mauritius</b>	<b>13.9</b>	<b>14.5</b>	<b>12.4</b>	<b>14.0</b>	<b>13.2</b>	<b>13.5</b>	<b>15.3</b>	<b>14.3</b>	<b>13.3</b>	<b>12.4</b>

<sup>1</sup> The number of infant deaths in a year per 1000 live births during the year

**Table 6.9 - Number of buildings by type, Republic of Mauritius, 2000 and 2011 Housing Censuses**

	Number		%	
	2000	2011	2000	2011
Under construction	12,100	13,100	4.5	4.2
Wholly residential	229,000	264,100	85.4	84.8
Partly residential	11,400	14,500	4.2	4.7
Hotels, Tourist residence & Guest house	400	1,100	0.1	0.4
Institutions	100	200	0.0	0.1
Non - residential	15,300	18,500	5.7	5.9
<b>All Buildings</b>	<b>268,300</b>	<b>311,500</b>	<b>100.0</b>	<b>100.0</b>

**Table 6.10 - Distribution of residential and partly residential buildings <sup>1</sup> by type, Republic of Mauritius, 2000 and 2011 Housing Censuses**

Type of building	Number		%	
	2000	2011	2000	2011
Separate houses	193,400	215,600	81.0	77.6
Semi-detached houses and block of flats	27,500	46,000	11.5	16.6
Partly residential buildings	11,400	14,500	4.8	5.2
Other dwellings	6,600	1,800	2.8	0.6
<b>Total</b>	<b>238,900</b>	<b>277,900</b>	<b>100.0</b>	<b>100.0</b>

<sup>1</sup> Figures exclude detached rooms (1500 for 2000 and 700 for 2011), used by part of household

**Table 6.11 – Distribution of residential and partly residential buildings<sup>1</sup> by type of construction materials, Republic of Mauritius, 2000 and 2011 Housing Censuses.**

Type of construction materials	Number				Change 1990-2000	
	2000		2011		No.	%
	No.	%	No.	%		
Concrete walls and roof	206,200	86.3	255,700	92.0	49,500	24.0
Concrete walls & iron/tin roof	9,400	3.9	7,400	2.7	-2,000	-21.3
Iron/tin walls and roof	19,300	8.1	12,600	4.5	-6,700	-34.7
Wood walls & iron/tin/shingle roof	2,200	0.9	1,000	0.4	-1,200	-54.5
Other	1,800	0.8	1,200	0.4	-600	-33.3
<b>Total</b>	<b>238,900</b>	<b>100.0</b>	<b>277,900</b>	<b>100.0</b>	<b>39,000</b>	<b>16.3</b>

<sup>1</sup> Figures exclude detached rooms (1500 for 2000 and 700 for 2011), used by part of household

**Table 6.12 - Distribution of housing units by occupancy status, Republic of Mauritius, 2000 and 2011 Housing Censuses**

Type of occupancy	2000		2011	
	Number	%	Number	%
Housing units occupied as:				
Principal residence	278,200	93.5	323,000	90.5
Secondary residence	4,000	1.3	5,900	1.7
Vacant housing units	15,500	5.2	28,000	7.8
<b>Total</b>	<b>297,700</b>	<b>100.0</b>	<b>356,900</b>	<b>100.0</b>

Table 6.13 - Main energy indicators, Republic of Mauritius, 2001 – 2010

Details	Unit	2001	2002	2003	2004	2005	2006	2007	2008	2009 <sup>1</sup>	2010 <sup>2</sup>
Total primary energy requirement	ktoe	1182.0	1157.3	1222.8	1255.8	1293.2	1376.8	1381.8	1404.4	1346.9	1430.7
<i>Imported</i>	ktoe	901.2	898.8	956.3	980.1	1030.5	1122.1	1136.0	1140.9	1110.6	1189.0
<i>Local</i>	ktoe	280.9	258.6	266.5	275.7	262.6	254.6	245.8	263.5	236.3	241.6
Total primary energy requirement index (1990 = 100)		161.8	158.4	167.3	171.8	177.0	188.4	189.1	192.2	184.3	195.8
Annual increase	%	+6.2	-2.1	+5.7	+2.7	+3.0	+6.5	+0.4	+1.6	-4.1	+6.2
Import dependency	%	76.2	77.7	78.2	78.0	79.7	81.5	82.2	81.2	82.5	83.1
Energy intensity	toe per Rs.100,000 GDP	1.69	1.62	1.66	1.63	1.66	1.69	1.60	1.54	1.43	1.46
Per capita primary energy requirement	toe	0.99	0.96	1.00	1.02	1.04	1.10	1.10	1.11	1.06	1.12
Per capita final energy consumption	toe	0.65	0.63	0.67	0.68	0.68	0.70	0.68	0.66	0.63	0.67
Per capita consumption of electricity sold	kWh	1,222	1,248	1,330	1,382	1,430	1,501	1,567	1,619	1,623	1697

<sup>1</sup> Revised<sup>2</sup> provisional

**Table 6.14 - Primary energy requirement, (Energy unit), Republic of Mauritius, 2001 – 2010**

	Thousand tonnes of oil equivalent (ktoe)									
	2001	2002	2002	2004	2005	2006	2007	2008	2009	2010
<b>Imported (Fossil fuels)</b>	<b>901.2</b>	<b>898.7</b>	<b>956.2</b>	<b>980.1</b>	<b>1,030.5</b>	<b>1,122.2</b>	<b>1,136.0</b>	<b>1,140.9</b>	<b>1,110.6</b>	<b>1,189.1</b>
Coal	185.5	193.9	196.0	179.4	225.6	300.4	355.0	403.9	369.3	414.1
<b>Petroleum product</b>	<b>715.7</b>	<b>704.8</b>	<b>760.2</b>	<b>800.7</b>	<b>805.0</b>	<b>821.8</b>	<b>781.0</b>	<b>737.0</b>	<b>741.2</b>	<b>775.0</b>
Gasolene	94.8	94.5	96.4	97.6	100.1	96.2	106.9	109.5	120.6	127.7
Diesel Oil	190.6	198.7	210.9	216.0	214.2	230.6	207.4	205.4	206.7	213.6
Dual Purpose Kerosene	143.4	127.7	147.4	168.8	171.7	152.7	146.0	140.9	117.2	131.3
Aviation Fuel	129.6	113.3	128.6	142.5	143.1	146.7	143.6	136.9	110.5	123.3
Kerosene	13.8	14.4	18.9	26.3	28.6	6.0	2.4	4.0	6.7	8.0
Fuel Oil	236.1	231.4	249.7	259.1	253.3	273.3	251.9	213.3	227.9	232.2
LPG	50.8	52.5	55.8	59.2	65.7	69.0	68.9	67.9	68.9	70.2
<b>Local (Renewables)</b>	<b>280.9</b>	<b>258.6</b>	<b>266.5</b>	<b>275.7</b>	<b>262.6</b>	<b>254.6</b>	<b>245.8</b>	<b>263.5</b>	<b>236.3</b>	<b>241.6</b>
Hydro/Winds	6.1	7.4	10.1	10.6	9.9	6.6	7.2	9.3	10.7	8.9
Bagasse <sup>1</sup>	267.4	243.9	249.1	257.8	245.1	240.0	230.5	246.4	218.0	225.0
Fuelwood <sup>1</sup>	7.3	7.3	7.3	7.3	7.6	8.0	8.0	7.7	7.7	7.7
<b>Total</b>	<b>1,182.0</b>	<b>1,157.3</b>	<b>1,222.8</b>	<b>1,255.8</b>	<b>1,293.2</b>	<b>1,376.8</b>	<b>1,381.8</b>	<b>1,404.4</b>	<b>1,346.9</b>	<b>1,430.7</b>

<sup>1</sup> estimates**Table 6.15 - Imports of energy sources (Energy unit), Republic of Mauritius, 2001 – 2010**

	Thousand tonnes of oil equivalent (ktoe)									
Energy source	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Gasolene	93.7	86.7	93.7	94.7	93.7	96.0	104.1	117.2	112.8	144.7
Diesel oil	341.4	349.9	312.3	322.9	333.2	330.8	310.6	331.7	290.9	313.5
Dual purpose kerosene	222.7	234.5	236.8	267.1	257.9	251.7	277.0	278.8	217.2	251.3
Kerosene	12.5	14.9	21.0	31.0	29.0	6.3	3.9	6.1	4.3	7.0
Aviation fuel	210.3	219.6	215.8	236.1	228.9	245.4	273.1	272.7	212.9	244.2
Fuel oil	264.1	200.2	276.5	277.3	324.0	292.2	320.6	279.4	330.0	327.8
LPG	47.4	58.4	52.7	58.1	67.7	63.5	67.8	68.2	67.6	68.5
Coal	215.4	193.5	179.4	205.7	235.1	304.0	401.6	376.0	347.1	409.6
<b>Total</b>	<b>1,184.8</b>	<b>1,123.2</b>	<b>1,151.5</b>	<b>1,225.8</b>	<b>1,311.7</b>	<b>1,338.1</b>	<b>1,481.7</b>	<b>1,451.4</b>	<b>1365.6</b>	<b>1515.1</b>

Figure 23 - Imports of energy sources, Republic of Mauritius, 2001 – 2010

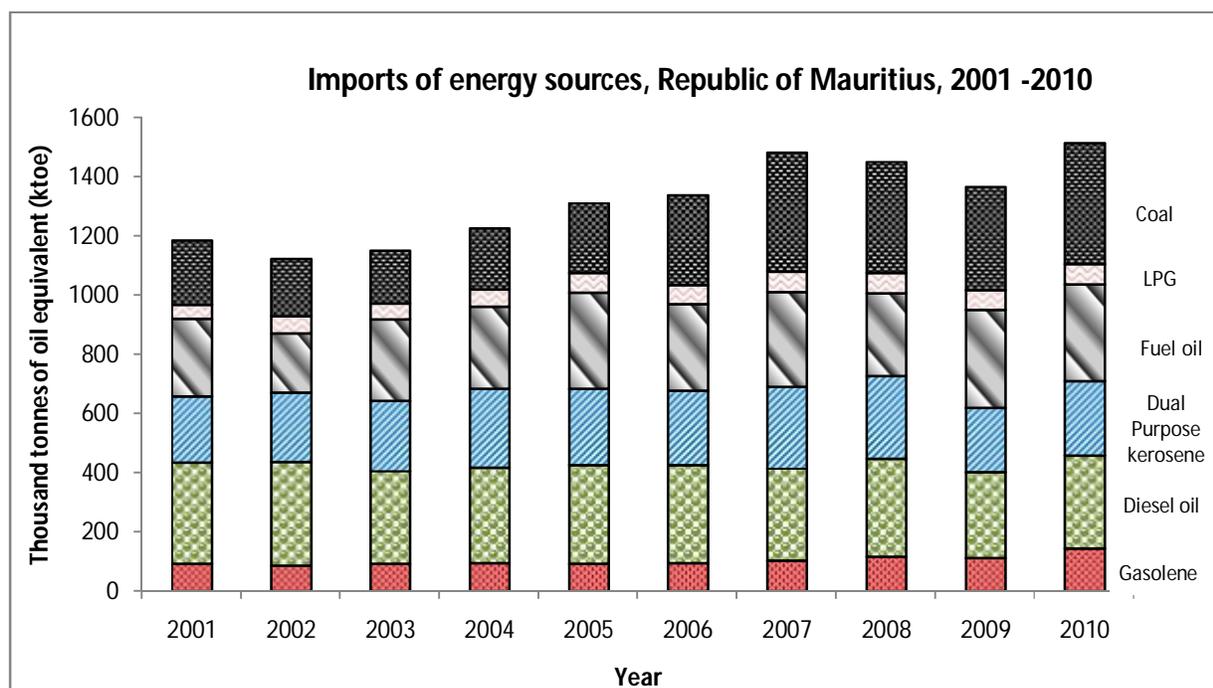


Table 6.16 - Fuel input for electricity production, (Energy unit), Republic of Mauritius, 2001 – 2010

Fuel	Thousand tonnes of oil equivalent (ktoe)									
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
<u>Island of Mauritius</u>										
Fuel oil	173.8	167.9	192.1	206.7	201.7	211.2	187.3	153.9	176.3	182.5
Diesel oil	2.6	2.8	2.4	2.4	1.9	2.3	2.7	1.7	2.6	1.9
Kerosene	3.9	5.7	10.3	17.2	18.4	1.9	1.1	2.2	5.1	6.3
Coal	169.5	177.9	178.0	164.4	211.2	286.9	342.6	378.0	356.0	398.7
Bagasse <sup>1</sup>	182.8	173.1	167.5	174.9	168.9	165.9	166.4	208.2	181.7	182.5
<u>Island of Rodrigues</u>										
Fuel oil	4.2	4.5	4.2	4.6	6.6	6.3	6.5	6.9	6.7	6.5
Diesel oil	0.6	0.7	1.5	1.6	0.2	0.3	0.1	0.2	0.2	0.1
<b>Total</b>	<b>537.3</b>	<b>532.5</b>	<b>556.0</b>	<b>571.8</b>	<b>609.1</b>	<b>674.8</b>	<b>706.7</b>	<b>751.1</b>	<b>728.6</b>	<b>778.4</b>

<sup>1</sup> Estimates

**Table 6.17 - Final energy consumption by sector and type of fuel (Physical unit), Republic of Mauritius, 2001 – 2010**

Sector	Unit	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
<b>Manufacturing</b>											
Fuel oil	tonne	60,630	61,439	55,615	49,857	46,763	58,098	60,567	54,639	46,824	45,009
Diesel oil	tonne	37,533	37,409	41,273	43,372	41,127	49,767	48,336	46,301	45,882	46,543
LPG	tonne	3,650	3,502	2,964	2,756	3,904	3,965	4,068	4,920	5,007	5,122
Coal	tonne	25,781	25,888	29,000	24,220	23,162	21,666	19,964	41,672	21,572	24,786
Fuel wood <sup>1</sup>	tonne	1,500	1,450	1,430	1,415	1,400	1,425	1,425	1,425	1,426	1,426
Electricity	GWh	711.4	711.7	742.2	768.9	778.3	841.2	879.6	912.9	897.2	934.3
Bagasse <sup>1</sup>	tonne	529,000	442,722	510,246	518,379	476,198	463,563	400,646	239,276	226,759	265,988
<b>Transport</b>											
LPG	tonne	820	1,216	2,223	2,691	6,726	6,887	6,633	5,184	4,587	4,641
Gasolene	tonne	87,749	87,507	89,242	90,350	92,673	89,117	98,940	101,406	111,667	118,226
Diesel oil	tonne	145,555	153,437	161,267	164,120	166,510	173,689	151,779	152,910	153,707	160,591
Aviation fuel (local aircraft)	tonne	124,652	108,972	123,627	137,002	137,560	141,053	138,104	131,631	106,246	118,553
<b>Household</b>											
Kerosene	tonne	9,480	8,409	8,265	8,726	9,765	3,923	1,238	1,772	1,476	1,731
LPG	tonne	37,850	39,023	40,559	42,856	43,206	41,599	42,088	42,394	43,237	44,059
Fuel wood <sup>1</sup>	tonne	15,900	15,850	15,780	15,940	16,540	17,473	17,497	16,726	16,619	16,597
Charcoal <sup>1</sup>	tonne	150	130	125	120	130	123	126	119	119	119
Electricity	GWh	522.8	532.6	564.6	575.0	607.5	617.9	643.0	652.2	680.1	710.7
<b>Commercial and Distributive Trade</b>											
LPG	tonne	4,450	4,559	5,749	6,372	6,985	11,436	10,927	10,094	10,575	10,925
Charcoal <sup>1</sup>	tonne	330	340	350	360	380	393	407	422	437	453
Electricity	GWh	415.5	424.9	479.3	516.2	556.4	581.8	618.0	672.7	704.2	748.0
<b>Agriculture</b>											
Diesel oil <sup>1</sup>	tonne	2,460	2,430	2,410	2,375	2,345	2,289	2,456	2,241	2,286	2,325
Electricity	GWh	26.8	27.5	27.0	23.8	27.1	28.7	28.2	25.8	20.5	23.8

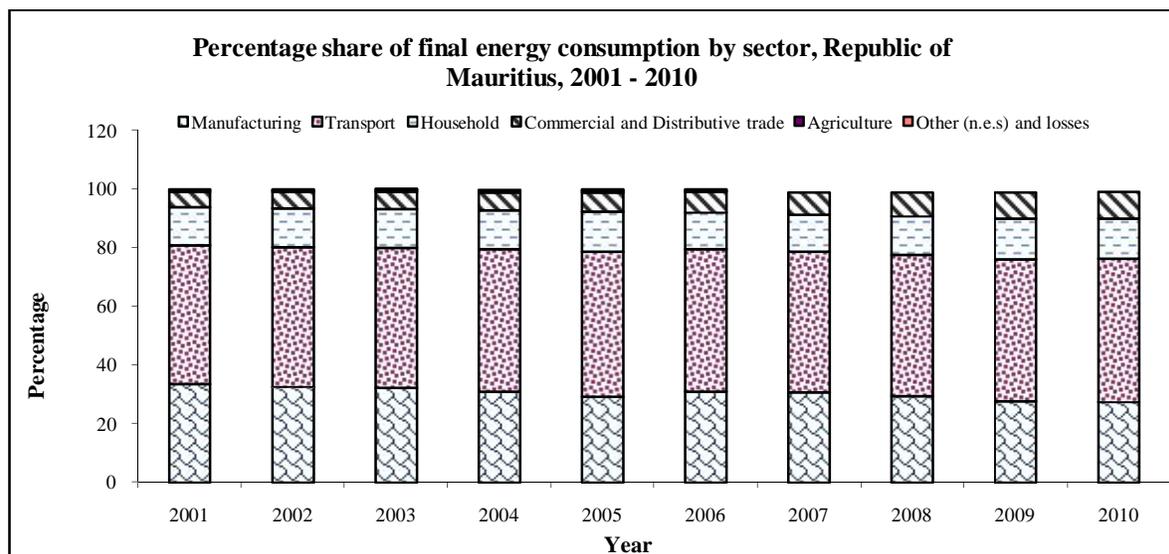
<sup>1</sup> estimates

**Table 6.18 - Final energy consumption by sector (Energy unit), Republic of Mauritius, 2001 – 2010**

Sector	Thousand tonnes of oil equivalent (ktoe)									
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Manufacturing	262.4	249.2	262.3	259.3	248.7	270.8	264.0	247.7	224.1	234.6
Transport	372.3	364.1	390.2	408.7	418.6	425.8	410.9	406.4	391.3	418.2
Household	101.8	102.8	107.0	111.0	115.4	108.9	108.8	110.2	113.1	116.9
Commercial and Distributive Trade	40.8	41.7	47.7	51.5	55.7	62.7	65.2	69.1	72.3	76.5
Agriculture	4.8	4.8	4.8	4.4	4.7	4.8	4.9	4.5	4.1	4.4
Other (n.e.s) and losses	2.3	2.4	2.9	3.2	3.0	3.3	3.6	3.8	3.7	3.5
<b>TOTAL</b>	<b>784.4</b>	<b>765.1</b>	<b>814.9</b>	<b>838.1</b>	<b>846.1</b>	<b>876.3</b>	<b>857.5</b>	<b>841.7</b>	<b>808.6</b>	<b>854.0</b>

**Table 6.19 - Percentage share of final energy consumption by sector, Republic of Mauritius, 2001 – 2010**

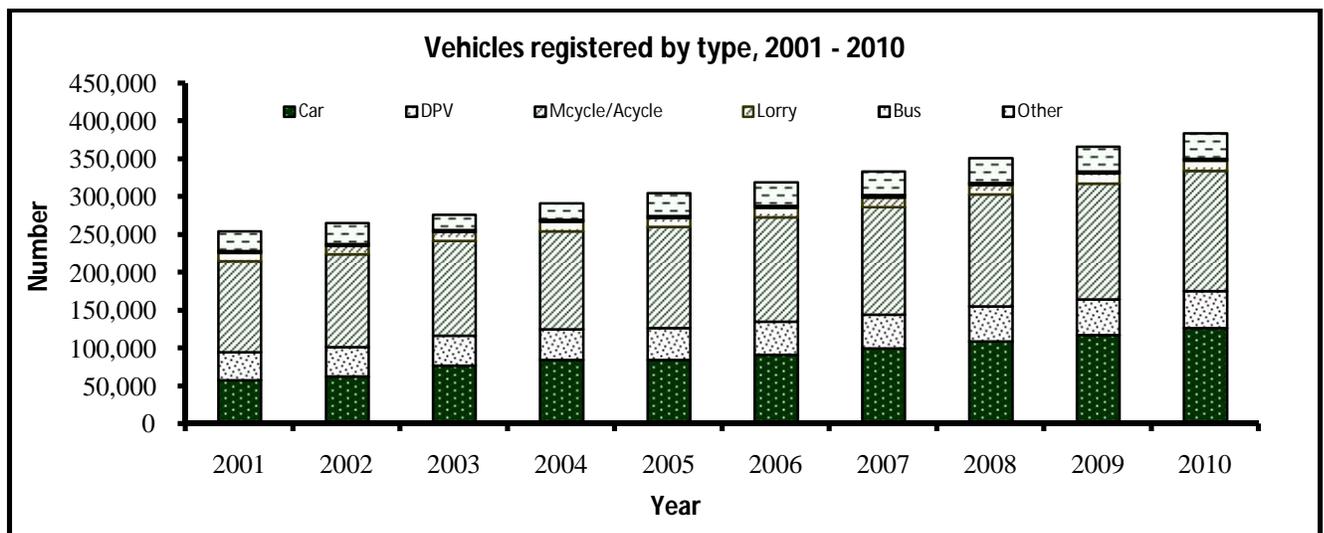
Sector	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Manufacturing	33.5	32.6	32.2	30.9	29.4	30.9	30.8	29.4	27.7	27.4
Transport	47.5	47.6	47.9	48.8	49.5	48.6	47.9	48.3	48.4	49.0
Household	13.0	13.4	13.1	13.2	13.6	12.4	12.7	13.1	14.0	13.7
Commercial and Distributive trade	5.2	5.5	5.9	6.1	6.6	7.2	7.6	8.2	8.9	9.0
Agriculture	0.6	0.6	0.6	0.5	0.6	0.5	0.6	0.5	0.5	0.5
Other (n.e.s) and losses	0.3	0.3	0.4	0.4	0.4	0.4	0.4	0.4	0.5	0.4
<b>TOTAL</b>	<b>100.0</b>									

**Figure 24 - Percentage share of final energy consumption by sector, Republic of Mauritius, 2001 - 2010**

**Table 6.20 - Vehicles <sup>1</sup> registered by type, 2001 – 2010**

Type of vehicle	Number									
	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Car	58,082	63,307	68,524	77,342	84,818	91,911	99,770	109,507	117,890	127,363
(of which taxi car)	(5,318)	(5,801)	(5,979)	(6,482)	(6,798)	(6,860)	(6,885)	(6,941)	(6,921)	(6,924)
Dual purpose vehicle	36,984	38,129	39,383	40,667	42,026	43,221	44,635	46,021	47,146	48,271
Heavy motor car	923	944	958	1,020	1,045	1,118	1,223	1,290	1,275	1,249
Motor cycle	25,104	25,723	26,744	28,646	30,927	33,936	36,969	40,804	44,222	48,655
Auto cycle	94,849	97,078	98,858	100,854	102,503	104,238	105,637	107,184	108,713	110,674
Lorry and truck	10,888	11,236	11,501	11,774	12,047	12,272	12,536	12,726	12,950	13,186
Van	20,694	21,750	22,496	23,326	23,989	24,522	24,934	25,334	25,622	25,914
Bus	2,408	2,450	2,460	2,457	2,560	2,612	2,753	2,762	2,803	2,845
Tractor and dumper	2,683	2,683	2,877	2,935	2,982	3,001	3,025	3,045	3,102	3,119
Prime mover	335	349	369	388	412	436	452	505	558	596
Trailer	1,776	1,770	1,772	1,771	1,765	1,756	1,795	1,809	1,823	1,821
Road roller	100	101	100	99	96	96	96	96	97	98
Other	323	321	329	326	326	321	320	323	319	324
<b>Total</b>	<b>255,149</b>	<b>265,841</b>	<b>276,371</b>	<b>291,605</b>	<b>305,496</b>	<b>319,440</b>	<b>334,145</b>	<b>351,406</b>	<b>366,520</b>	<b>384,115</b>

<sup>1</sup> Excluding pedal cycles, but including government vehicles

**Figure 25 - Vehicles registered by type, 2001 – 2010**

**Table 6.21 - Road traffic accidents <sup>1</sup> and casualties, 2001 – 2010**

	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
1. Road traffic accidents:										
Number	18,517	18,022	19,178	19,495	22,554	20,242	20,519	20,873	19,542	21,256
Rate per 100,000										
Population	1,591	1,535	1,616	1,629	1,869	1,665	1,678	1,696	1,579	1,710
Rate per 1,000 registered										
motor vehicles	75	69	72	69	76	65	63	61	54	57
2. Motor vehicles involved :										
Number	33,988	33,119	35,239	35,506	43,741	40,023	41,178	42,910	38,058	41,263
Rate per 1,000 registered										
motor vehicles	137	127	133	126	148	129	127	125	106	110
3. Casualties :										
Total number of casualties	3,264	2,904	2,698	2,951	2,760	2,522	3,055	3,435	3,661	3,675
Fatal <sup>2</sup>	126	158	131	144	136	134	140	168	140	158
Seriously injured	288	216	291	245	358	348	500	512	516	587
Slightly injured	2,850	2,530	2,276	2,562	2,266	2,040	2,415	2,755	3,005	2,930
4. Fatality :										
Rate per 100,000 population	10.8	13.5	11.0	12.0	11.3	11.0	11.4	13.6	11.3	12.7
Rate per 1,000 registered										
motor vehicle	0.5	0.6	0.5	0.5	0.4	0.4	0.4	0.5	0.4	0.4
Fatality Index <sup>3</sup>	3.9	5.4	4.8	4.9	4.9	5.3	4.6	4.9	3.8	3.8

<sup>1</sup> Exclude number of accidents involving bicycles only or bicycle and pedestrian

<sup>2</sup> Prior to 2002, a fatal accident was defined as an accident where deaths occurred within 7 days. As from 2002, a fatal accident is defined as an accident where deaths occurred within 30 days.

<sup>3</sup> Fatality index is the number of fatalities per 100 casualties

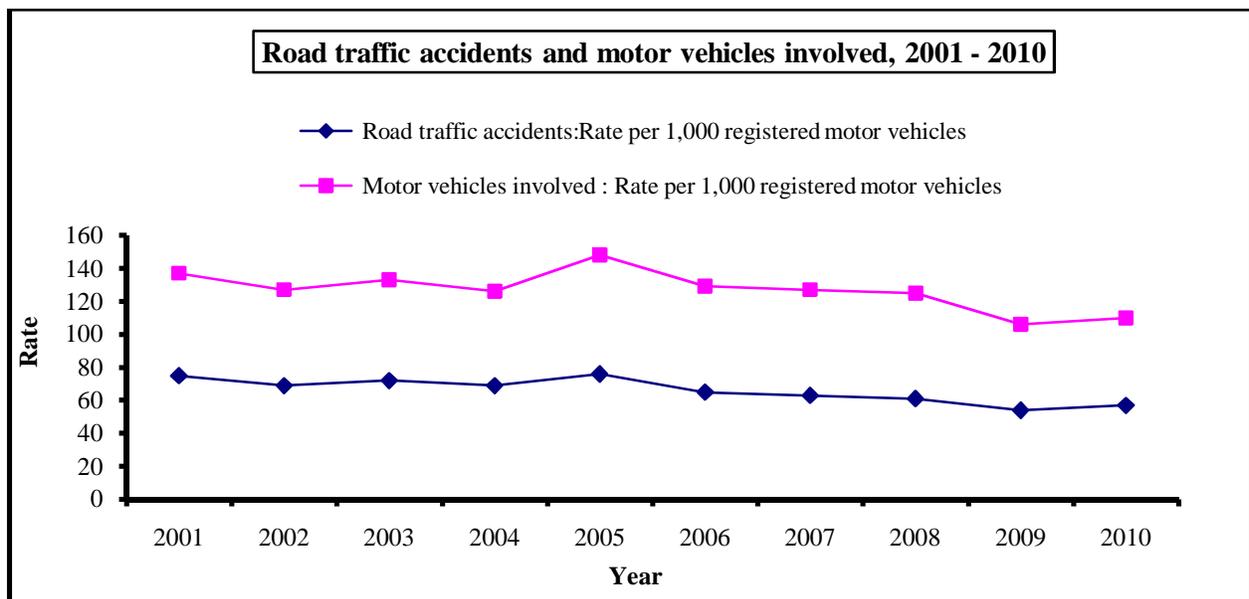
**Figure 26 - Road traffic accidents and motor vehicles involved, 2001 – 2010**

Table 6.22 - Imports of motor spirit and gas oil by country of origin, 2006 - 2010

(C.I.F. Value Rs ' 000 )

Item/ Country of origin	Unit	2006		2007		2008		2009		2010 <sup>1</sup>	
		Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
<b>Motor spirit</b>	000										
<b>(Gasoline)</b>	Litres										
Bahrain		18,108	301,504	-	-	-	-	-	-	-	-
Saudi Arabia	"	6,260	82,715	-	-	-	-	-	-	-	-
South Africa Rep.	"	-	-	-	-	-	-	-	-	-	-
Singapore	"	-	-	-	-	-	-	-	-	-	-
United Arab Emirates	"	29,924	469,447	-	-	-	-	-	-	-	-
Tanzania	"	-	-	-	-	-	-	-	-	-	-
India	"	63,785	1,023,653	125,919	2,180,054	141,913	2,690,298	135,755	2,022,369	172,886	3,417,865
Reunion	"	-	-	-	-	-	-	-	-	-	-
<b>Total</b>		<b>118,077</b>	<b>1,877,319</b>	<b>125,919</b>	<b>2,180,054</b>	<b>141,913</b>	<b>2,690,298</b>	<b>135,755</b>	<b>2,022,369</b>	<b>172,886</b>	<b>3,417,865</b>
<b>Gas oil</b>											
<b>( Diesel )</b>											
	000										
Bahrain	Litres	16,890	225,438	-	-	-	-	-	-	-	-
Saudi Arabia	"	130,303	2,103,149	-	-	-	-	-	-	-	-
South Africa Rep.	"	-	-	-	-	-	-	-	-	-	-
Singapore	"	-	-	-	-	-	-	-	-	2	26
United Arab Emirates	"	20,380	300,066	-	-	-	-	-	-	-	-
India	"	226,030	3,722,367	369,513	6,442,993	397,859	8,908,957	346,171	4,852,942	372,340	6,945,099
Yemen	"	-	-	-	-	-	-	-	-	-	-
Kuwait	"	-	-	-	-	-	-	-	-	-	-
<b>Total</b>		<b>393,603</b>	<b>6,351,020</b>	<b>369,513</b>	<b>6,442,993</b>	<b>397,859</b>	<b>8,908,957</b>	<b>346,171</b>	<b>4,852,942</b>	<b>372,342</b>	<b>6,925,125</b>

<sup>1</sup> Provisional

Figure 27 - Imports of motor spirits and gas oil, 2006 – 2010

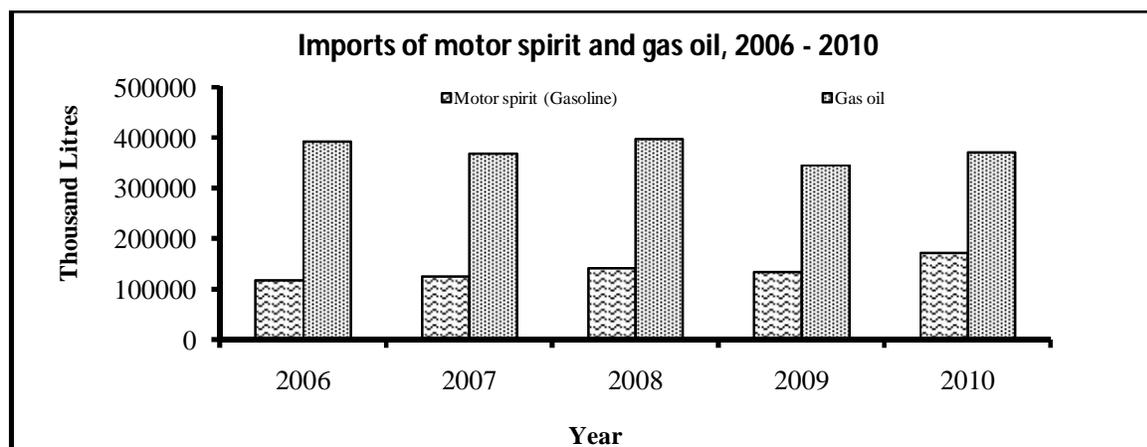


Table 6.23 - Imports of lubricating oils and greases by country of origin, 2006 – 2010

Item	Country of origin	2006		2007		2008		2009		2010 <sup>1</sup>	
		Quantity (M/ton)	Value (Rs '000)	Quantity (M/ton)	Value (Rs '000)						
Lubricating oil containing not less than 70% by weight of petroleum products	France	181	12,102	144	13,038	198	16,116	175	16,455	200	17,342
	Japan	5	525	14	1,062	20	1,651	7	1,370	23	3,445
	Singapore	1,277	52,668	2,192	106,746	1,914	99,429	1,607	80,334	2,125	113,579
	South Africa Rep.	5,593	247,215	3,443	167,982	2,275	127,131	3,050	160,482	3,211	199,911
	Thailand	17	972	30	1,637	677	37,040	643	29,303	619	30,487
	United Kingdom	45	4,323	64	5,640	32	3,426	43	4,233	46	6,311
	United States	59	11,072	81	15,695	68	13,067	57	14,577	10	1,915
	Other countries	1,129	43,090	1,254	60,353	1,208	64,076	1,452	78,327	1,858	133,446
		8,306	371,967	7,222	372,153	6,392	361,936	7,034	385,081	8,092	506,436
Lubricating greases containing not less than 70% by weight of petroleum products	France	-	48	1	146	5	709	2	636	1	456
	Singapore	-	11	8	506	3	287	2	459	-	24
	South Africa Rep.	125	8,202	71	5,659	92	7,242	64	4,451	56	5,309
	Thailand	-	-	-	-	11	779	11	835	-	-
	Other countries	27	2,114	37	2,497	108	5,437	9	2,754	62	7,428
		152	10,375	117	8,808	219	14,454	97	9,135	119	13,217

<sup>1</sup> Provisional

**Table 6.24 - Air transport, 2001 – 2010**

Year	Number of movements <sup>1</sup>		Freight	
	Landings	Take - offs	Unloaded (Tonnes)	Loaded (Tonnes)
2001	8,765	8,753	18,107	20,754
2002	9,172	9,170	19,114	25,662
2003	9,455	9,454	20,029	24,338
2004	9,316	9,315	22,381	26,049
2005	9,705	9,820	23,920	25,185
2006	9,211	9,232	21,218	24,389
2007	8,543	8,418	22,663	24,894
2008	9,384	9,393	22,152	24,522
2009	9,824	9,383	20,400	21,924
2010	10,160	10,160	23,992	24,267

<sup>1</sup> As from 2005, excludes ferry flights (empty flights)

**Table 6.25 - Tourist<sup>1</sup> arrivals by mode of transport and tourist nights spent during period, 2001 – 2010**

Period	Tourist arrivals during period			Tourist nights spent during period <sup>2</sup>	% change over previous year	
	Sea	Air	Total		Tourist arrivals	Tourist nights
2001	10,532	649,786	660,318	6,527,800	+ 0.6	+ 1.8
2002	14,180	667,468	681,648	6,768,870	+ 3.2	+ 3.7
2003	12,155	689,863	702,018	6,952,313	+ 3.0	+ 2.7
2004	11,390	707,471	718,861	7,118,603	+ 2.4	+ 2.4
2005	13,321	747,742	761,063	7,498,251	+ 5.9	+ 5.3
2006	13,249	775,027	788,276	7,760,679	+ 3.6	+ 3.5
2007	12,163	894,808	906,971	8,986,934	+ 15.1	+ 5.8
2008	15,961	914,495	930,456	9,218,965	+ 2.6	+ 2.6
2009	23,265	848,091	871,356	8,639,304	- 6.4	- 6.3
2010	23,648	911,179	934,827	9,495,000	+ 7.3	+ 9.9

<sup>1</sup> A tourist is defined as a non - resident staying in the island for more than 24 hours but less than a year

<sup>2</sup> Including nights spent during reference period by tourist arriving prior to the period.

**Table 6.26 - Percentage distribution of tourists interviewed by rating of the state of the environment at various sites, Survey of outgoing tourists 2000 & 2002**

Site	Number of Parties		Very Poor		Poor		Satisfactory		Good		Excellent	
	2000	2002	2000	2002	2000	2002	2000	2002	2000	2002	2000	2002
Beaches	13,166	15,760	0.8	0.5	4.4	4.2	15.6	13.0	57.9	59.8	21.3	22.6
Public places	13,019	15,710	2.0	1.2	16.4	13.0	31.7	26.0	41.6	47.5	8.4	12.3
Tourist Sites	11,708	14,937	0.5	0.3	3.5	3.4	19.4	18.5	61.9	61.3	14.6	16.5
Country in general	13,476	15,906	2.1	0.5	12.2	5.4	28.9	24.2	46	56.4	10.8	13.5

**Table 6.26 (Cont'd) - Percentage distribution of tourists interviewed by rating of the state of the environment at various sites, Survey of outgoing tourists 2004 & 2006**

Site	Number of Parties		Very Poor		Poor		Satisfactory		Good		Excellent	
	2004	2006	2004	2006	2004	2006	2004	2006	2004	2006	2004	2006
Beaches	16,151	15,648	0.7	0.7	4.1	4.6	11.7	12.5	63.6	56.9	20.0	25.3
Public places	16,189	15,399	1.3	1.2	13.3	10.7	25.5	23.2	50.0	53.0	9.8	11.9
Tourist Sites	15,396	14,669	0.4	0.4	4.7	3.2	18.1	15.8	63.7	63.1	13.0	17.5
Country in general	16,400	15,996	0.6	0.6	6.0	5.2	22.3	20.4	60.0	59.3	11.1	14.5

**Table 6.27 - Broadcasting services (end of period), Republic of Mauritius, 2001 – 2010**

	Unit	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
<b>A. Sound</b>											
Channels	Number	8	8	8	8	8	8	9	9	9	10
Transmitters	"	18	21	36	36	36	36	44	45	47	63
Aerial output:											
Medium wave	kW	10 / 2	10 / 2	10 / 2	10 / 2	10 / 2	10 / 2	10 / 2	10 / 2	10 / 2	10 / 2
F.M.	kW	1 / 0.5	1 / 0.5	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2
Weekly transmission time	Hour	1,344	1,344	1,848	1,848	1,848	1,848	2,016	2,016	2,016	2,184
Private operators	Number	2	3	3	3	3	3	3	3	3	3
<b>B. Television</b>											
Channels <sup>1</sup>	Number	4	4	4	10	10	10	15	20	20	25
Transmitters	"	78	78	86	89	129	140	160	165	168	208
Aerial output (ERP)	kW	0.4 - 30	0.4 - 30	0.4 - 30	0.1 - 30	0.1 - 30	0.1 - 30	0.1 - 30	0.1 - 30	0.1 - 30	0.1 - 30
Weekly transmission time	Hour	672	672	1,008	2,016	2,016	2,016	2,520	3,360	3,360	4,200
Television sets licensed											
Isl. of Mauritius	Number	230,676	236,551	253,126	254,000	268,875	269,166	280,675	308,194	305,010	304,616
Isl. of Rodrigues	"	4,760	4,934	6,286	6,300	6,880	8,228	9,255	9,763	9,967	10,145
Private operators	"	3	3	2	2	3	3	3	3	3	3

<sup>1</sup> transmission of same channels on analogue and digital has been counted as two channels  
Source: Mauritius Broadcasting Corporation, and Multicarrier (Mauritius) Ltd

**Table 6.28 - Telephone services (end of period), 2001 – 2010**

	Unit	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Total line capacity of local exchanges	Number	315,000	335,000	351,146	368,481	396,797	446,797	531,551	497,194	443,239	452,927
Main telephone lines in operation	"	306,773	325,774	348,202	353,808	357,490	357,340	361,319	363,536	375,160	405,224
Cellular mobile telephone subscribers	"	278,500	366,438	466,327	547,831	656,828	772,395	928,622	1,033,259	1,086,748	1,190,922
National telephone traffic (calls) <sup>1</sup>	000	511,573	539,243	543,041	534,531	543,284	537,137	513,377	449,071	452,530	440,323
International outgoing telephone traffic:											
(a) calls	000	11,179	12,627	13,406	14,831	19,046	19,701	21,386	13,401	64,646	42,364
(b) duration	000 minutes	35,535	36,516	43,416	45,539	58,450	59,741	71,412	107,028	123,317	126,759

Source: Information &amp; Communication Technologies Authority (ICTA)

<sup>1</sup> Calls irrespective of duration from fixed telephone**Table 6.29 - Health related statistics, 2003 – 2010**

Year	2003	2004	2005	2006	2007	2008	2009	2010
No of doctors ( public sector ) <sup>1</sup>	765	775	777	856	844	852	887	967
No of doctors ( public and private sectors ) <sup>1</sup>	1,173	1,303	1,342	1,400	1,425	1,450	1,475	1,500
No of nurses and midwives ( public and private sector ) <sup>1</sup>	2,958	2,937	2,902	3,087	3,300	3,400	3,500	3,600
No of beds ( public and private sectors )	4,038	4,073	4,067	4,123	4,080	4,082	4,281	4,188
No of children immunised against Tuberculosis <sup>2</sup>	17,021	16,424	16,147	14,700	14,272	13,665	15,821	12,484
No of children immunised against diphtheria, pertussis, tetanus, Hib and Hepatitis B	17,036	16,161	15,670	14,756	13,970	14,635	13,376	12,487
No of children immunised against Polio 3 <sup>rd</sup> dose <sup>2</sup>	17,077	16,246	15,747	14,780	13,976	14,663	13,482	12,587
No of children immunised against Measles/Mumps/Rubella (MMR) <sup>2</sup>	17,309	16,184	15,750	15,176	14,400	13,574	13,316	12,499
No of cases of ( Imported ) Malaria reported	40	45	35	38	42	27	23	52
No of cases of ( Introduced ) Malaria reported	-	3	1	-	-	-	-	-

Source: Statistics Unit , Ministry of Health and Quality of Life

<sup>1</sup> Republic of Mauritius<sup>2</sup> Public sector only

**Table 6.30 - Percentage distribution of households by amenities available, Republic of Mauritius, 2000 and 2011 Housing Censuses**

Amenity available	Housing census	
	2000 (%)	2011 (%)
1. Electricity	99.0	99.4
2. Water supply :		
Piped water inside house	83.7	94.2
Piped water outside on premises	14.5	5.2
Public fountain, well, river, etc.	1.8	0.6
3. Bathroom		
With running water	89.0	95.5
Without running water	10.1	4.0
None	1.0	0.5
4. Toilet		
Flush toilet	88.8	96.4
Pit latrine	11.0	3.4
Other and None	0.2	0.2
5. Kitchen		
Inside housing unit	87.8	95.5
Outside housing unit	11.4	4.2
None	0.8	0.3
6. Main fuel for cooking :		
Cooking Gas (LPG)	91.5	97.6
Wood and charcoal	4.5	1.9
Kerosene	3.4	0.1
Electricity	0.5	0.3

**Table 6.31 - Percentage distribution of households by method of refuse disposal, Republic of Mauritius, 2000 and 2011 Censuses**

Refuse disposal	Housing census	
	2000 (%)	2011 (%)
Regular collection	88.7	96.3
Irregular collection	4.9	1.7
Ash pit on premises	3.8	1.1
Dumped on premises/ roadside	2.2	0.7
Other	0.4	0.2
<b>Total</b>	<b>100.0</b>	<b>100.0</b>

**Table 6.32 - Private households by principal fuel used for heating water for bathing, Republic of Mauritius, 2011 Housing and Population Census**

Fuel type	Urban	Rural	Total
Electricity	28,116	13,374	41,490
Gas	80,560	122,866	203,426
Solar	16,119	25,723	41,842
Other	1,521	5,924	7,445
None <sup>1</sup>	15,062	32,547	47,609
Not stated	493	53	546

<sup>1</sup> Includes households who do not regularly use hot water for bathing

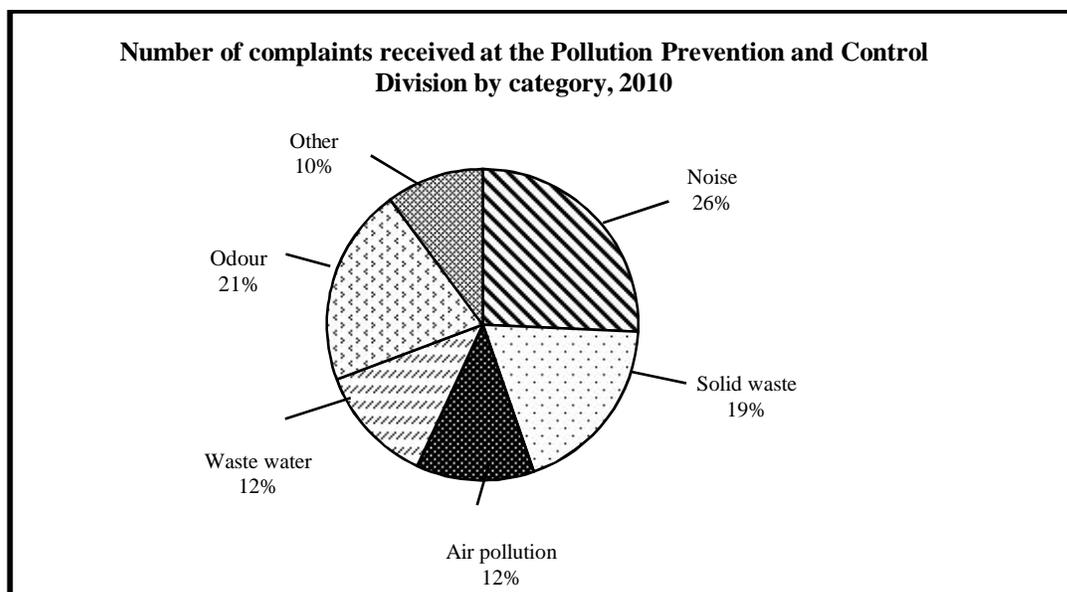
**Table 6.33 - Number of complaints received at the Pollution Prevention and Control Division by category, 2001 – 2010**

Category	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010 <sup>1</sup>
Noise	821	458	583	444	342	178	135	157	123	160
Solid waste	758	88	88	177	201	137	88	49	136	118
Air pollution	188	229	209	129	154	61	62	57	57	76
Waste water	210	286	155	180	289	92	76	84	72	77
Odour	417	406	344	328	272	121	88	102	88	128
Other <sup>2</sup>	657	189	389	447	215	224	119	147	46	63
<b>Total</b>	<b>3,051</b>	<b>1,656</b>	<b>1,768</b>	<b>1,705</b>	<b>1,473</b>	<b>813</b>	<b>568</b>	<b>596</b>	<b>522</b>	<b>622</b>

Source : Ministry of Environment and Sustainable Development

<sup>1</sup> provisional

**Figure 28 - Number of complaints received at the Pollution Prevention and Control Division by category, 2010**



Source: Ministry of Environment and Sustainable Development

**Table 6.34 - Contraventions and notices established by Police De L'Environnement, 2007 – 2010**

Type of contravention	2007	2008	2009	2010
Illegal Littering	8,119	8,246	3,402	963
Illegal Dumping	16	51	0	152
Noise	12	91	27	11
Smoking in prohibited area	75	8	48	61
Waste carriers offences	0	8	3	0
Setting fire within 50 metres from building/plantation	0	9	1	0
Obstruction	0	11	0	0
Road Traffic Offences	133	328	134	8
Trading without licence	47	80	0	41
Allowing animal to stray	0	0	0	2
Disturbance	0	0	0	23
Others	30	90	81	23
<b>Total</b>	<b>8,432</b>	<b>8,922</b>	<b>3,696</b>	<b>1,284</b>
<b>No. of notices issued to drivers of vehicles emitting black smoke</b>	<b>3,796</b>	<b>6,782</b>	<b>2,270</b>	<b>1,651</b>

Source: Ministry of Environment and Sustainable Development.

**Table 6.35 – Economy – Wide Material Flow Accounts (MFA), 2005 - 2009**

	Million tonnes				
	2005	2006	2007	2008	2009
Domestic extraction (DE)	9.9	10.0	10.2	10.9	10.9
Direct Material Input (DMI)	13.6	13.8	14.2	15.0	14.6
Domestic Material Consumption (DMC)	12.4	12.6	13.1	13.8	13.5
Physical Balance of Trade (PTB)	2.5	2.5	2.9	2.9	2.6
<b>Domestic extraction</b>	<b>9.9</b>	<b>10.0</b>	<b>10.2</b>	<b>10.9</b>	<b>10.9</b>
Biomass	5.1	4.9	4.4	4.7	4.9
<i>Of which sugarcane</i>	4.9	4.7	4.2	4.5	4.7
Minerals	4.8	5.1	5.8	6.2	6.0
<i>Of which aggregates (rocks)</i>	4.7	4.9	5.7	6.1	5.9
<b>Imports</b>	<b>3.7</b>	<b>3.8</b>	<b>4.0</b>	<b>4.1</b>	<b>3.7</b>
Biomass	0.9	0.9	0.9	0.9	0.9
Other materials	1.3	1.3	1.3	1.5	1.3
Energy carriers	1.5	1.6	1.8	1.7	1.6
<b>Exports</b>	<b>1.2</b>	<b>1.2</b>	<b>1.1</b>	<b>1.2</b>	<b>1.1</b>
Biomass	0.8	0.8	0.7	0.7	0.7
Other materials	0.4	0.4	0.4	0.5	0.4

Note: Materials include agricultural products such as sugarcane and animal products (meat etc), forestry products such as wood and raw materials used in manufacturing and services sectors.

**Table 6.36 - Employment by industrial group <sup>1</sup> and sex, March 2010, Republic of Mauritius**

<b>Industrial group</b>	<b>Male</b>	<b>Female</b>	<b>Both sexes</b>
<b>Agriculture, forestry and fishing</b>	<b><u>13,052</u></b>	<b><u>3,091</u></b>	<b><u>16,143</u></b>
Sugarcane	7,202	1,537	8,739
Tea	123	206	329
Tobacco	34	76	110
Flower growing	109	152	261
Fishing	666	87	753
Animal Farming	1,134	185	1,319
Agricultural & animal husbandry services	2,956	805	3,761
Forestry, logging & related service activities	817	28	845
Other	11	15	26
<b>Mining and quarrying</b>	<b><u>79</u></b>	<b><u>56</u></b>	<b><u>135</u></b>
<b>Manufacturing</b>	<b><u>41,525</u></b>	<b><u>38,613</u></b>	<b><u>80,138</u></b>
Food:			
Meat and fish processing	3,601	3,529	7,130
Bread	572	101	673
Sugar confectionery, biscuits and other farinaceous products	399	569	968
Sugar	1,738	22	1,760
Tea	127	39	166
Other	94	164	258
Beverage and tobacco:			
Distilleries & cigarette manufacture	289	81	370
Wine and beer	1,343	194	1,537
Soft drinks	602	53	655
Textiles	3,526	1,770	5,296
Wearing apparel (except footwear)	15,533	25,659	41,192
Leather products	141	417	558
Footwear	100	74	174
Wood products (except furniture)	384	179	563
Paper products	469	183	652
Printing and publishing	1,829	907	2,736
Chemical products	1,691	602	2,293
Rubber products	110	44	154
Plastic products	867	330	1,197
Non-metallic mineral products:			
Stone and concrete	1,760	136	1,896
Other	222	51	273
Basic metals	201	24	225
Fabricated metal products	2,294	344	2,638
Machinery & equipment	389	46	435
Electrical machinery & apparatus	331	193	524
Radio, television & communication equipment	24	40	64
Medical, optical & photographic equipment	328	506	834
Watches and clocks	265	354	619
Transport equipment	480	21	501

<sup>1</sup> Large establishment

**Table 6.36 (cont'd) - Employment by industrial group <sup>1</sup> and sex, March 2010, Republic of Mauritius**

<b>Industrial group</b>	<b>Male</b>	<b>Female</b>	<b>Both sexes</b>
Furniture	827	129	956
Jewellery and related articles	679	898	1,577
Other manufacturing industries	310	954	1,264
<u>Electricity, gas and water</u>	<b><u>3,140</u></b>	<b><u>234</u></b>	<b><u>3,374</u></b>
<u>Construction</u>	<b><u>13,645</u></b>	<b><u>638</u></b>	<b><u>14,283</u></b>
<u>Wholesale &amp; retail trade, repair of m/vehicles, motorcycles, personal &amp; household goods</u>	<b><u>14,233</u></b>	<b><u>8,124</u></b>	<b><u>22,357</u></b>
Maintenance & repair of motor vehicles & motorcycles	290	41	331
Sale of motor vehicles, motor cycles & related parts; automotive fuel	1,460	372	1,832
Wholesale trade	6,936	2,659	9,595
Retail trade	5,547	5,052	10,599
<u>Hotels and restaurants</u>	<b><u>16,847</u></b>	<b><u>6,464</u></b>	<b><u>23,311</u></b>
Hotels	15,252	5,595	20,847
Restaurants	1,595	869	2,464
<u>Transport, storage &amp; communication</u>	<b><u>15,535</u></b>	<b><u>3,664</u></b>	<b><u>19,199</u></b>
Bus transport	5,441	222	5,663
Other land transport	762	172	934
Water & air transport	1,557	824	2,381
Cargo handling, storage & warehousing & related activities	4,382	799	5,181
Travel agencies & tour operators	672	652	1,324
Post & telecommunication	2,721	995	3,716
<u>Financial intermediation</u>	<b><u>5,790</u></b>	<b><u>5,597</u></b>	<b><u>11,387</u></b>
Banking	3,815	3,555	7,370
Insurance	1,193	1,210	2,403
Other	782	832	1,614
<u>Real estate, renting and business activities</u>	<b><u>14,423</u></b>	<b><u>9,288</u></b>	<b><u>23,711</u></b>
Real estate & renting of equipment	452	191	643
Computer services	2,585	2,658	5,243
Accounting & consultancy services	1,818	1,796	3,614
Architectural & engineering services	1,180	208	1,388
Advertising services	229	136	365
Security services	5,015	403	5,418
Other	3,144	3,896	7,040
<u>Public administration &amp; defence; compulsory social security</u>	<b><u>25,590</u></b>	<b><u>9,544</u></b>	<b><u>39,134</u></b>
<u>Education</u>	<b><u>11,351</u></b>	<b><u>14,135</u></b>	<b><u>25,486</u></b>
<u>Health and social work</u>	<b><u>7,659</u></b>	<b><u>7,872</u></b>	<b><u>15,531</u></b>
Health services	6,840	6,814	13,654
Social work activities	819	1,058	1,877
<u>Other community, social and personal services</u>	<b><u>5,537</u></b>	<b><u>2,322</u></b>	<b><u>7,859</u></b>
Cleaning services	1,753	460	2,213
Recreational & sporting activities	3,003	1,260	4,263
Other	781	602	1,383
<b>Total</b>	<b>192,406</b>	<b>109,642</b>	<b>302,048</b>

**Table 6.37 - Number of accidents by economic activity, bodily location and agency, Republic of Mauritius, (Jan - Dec 2010)**

Economic Activity	Bodily Location <sup>1</sup>									Material Agency								
	1.Head	2.Neck (including spine & vertebrae in neck)	3.Back, including spine & vertebrae in the back	4.Trunk and internal organs	5.Upper extremities	6.Lower extremities	6.Whole body and multiple sites	7.Other parts of body injured	8.Part of body injured, unspecified	TOTAL	1.Machines	2.Means of transport & lifting equipment	3.Other equipment	4.Materials, substances & radiations	5.Working environment	6.Other agencies, not elsewhere classified	7.Agencies not classified for lack of sufficient data	TOTAL
<b>Agriculture, hunting &amp; forestry</b>	<b>55</b>	-	<b>32</b>	<b>2</b>	<b>61</b>	<b>55</b>	<b>1</b>	<b>11</b>	<b>4</b>	<b>221</b>	<b>6</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>129</b>	<b>9</b>	<b>71</b>	<b>221</b>
Fishing	-	-	1	-	4	-	-	-	-	5	-	-	-	4	-	1	5	
Mining & quarrying	-	-	-	-	-	-	-	-	-	0	-	-	-	-	-	-	0	
Manufacturing	39	1	29	1	103	59	-	7	10	<b>249</b>	4	1	-	-	139	10	95	<b>249</b>
Electricity, gas & water supply	-	-	-	-	0	1	-	-	-	1	-	-	-	-	-	-	1	1
Construction	70	1	43	4	192	141	1	8	9	<b>469</b>	16	-	2	-	258	17	176	<b>469</b>
Wholesale and retail trade; repair of motor vehicles, motor cycles and personal and household goods	3	-	3	-	16	25	1	1	6	<b>55</b>	1	-	-	-	34	4	16	<b>55</b>
Hotels & restaurants	2	-	3	-	4	6	-	1	1	<b>17</b>	-	-	-	-	14	-	3	<b>17</b>
Transport, storage & communications	16	2	11	5	47	39	-	7	6	<b>133</b>	8	11	2	-	66	5	41	<b>133</b>
Financial intermediation	-	-	-	-	-	-	-	-	-	<b>0</b>	-	-	-	-	-	-	-	<b>0</b>
Real Estate, renting & business activities	4	1	4	1	10	11	-	1	2	<b>34</b>	-	-	-	-	27	-	7	<b>34</b>
Public administration & defence; compulsory social security	-	-	-	-	-	-	-	-	-	<b>0</b>	-	-	-	-	-	-	-	<b>0</b>
Education	-	-	-	-	-	2	-	-	-	<b>2</b>	-	-	-	-	2	-	-	<b>2</b>
Health & social work	5	-	2	-	3	4	-	-	-	<b>14</b>	1	-	-	-	12	-	1	<b>14</b>
Other community, social & personal service activities	-	-	-	-	2	4	-	-	-	<b>6</b>	-	-	-	-	3	-	3	<b>6</b>
Private households with employed persons	-	-	-	-	-	1	-	-	-	<b>1</b>	-	-	-	-	1	-	-	<b>1</b>
Extra-territorial organisations & bodies	-	-	-	-	-	-	-	-	-	<b>0</b>	-	-	-	-	-	-	-	<b>0</b>
<b>TOTAL</b>	<b>194</b>	<b>5</b>	<b>128</b>	<b>13</b>	<b>442</b>	<b>348</b>	<b>3</b>	<b>36</b>	<b>38</b>	<b>1,207</b>	<b>36</b>	<b>14</b>	<b>6</b>	<b>2</b>	<b>689</b>	<b>45</b>	<b>415</b>	<b>1,207</b>

<sup>1</sup> According to new classification

**Table 6.38 - Environmental Performance Index (EPI) for Mauritius, 2008 and 2010**

	2008	2010
<b>EPI Rank (out of 149 Countries in 2008 and 163 Countries in 2010)</b>	<b>58</b>	<b>6</b>
<b>EPI Score</b>	<b>78.1</b>	<b>80.6</b>
<i>Of which</i>		
<b>Environmental Health</b>	<b>97.7</b>	<b>83.7</b>
Water (effects on humans)	96.5	96.6
Air Pollution (effects on humans)	97.9	97.4
Environmental Burden of Disease	98.2	70.3
<b>Ecosystem Vitality</b>	<b>58.5</b>	<b>77.5</b>
Forestry	87.4	86.5
Fisheries	99.5	99.5
Agriculture	-	93.0
Climate Change	53.5	72.9
Air Pollution (effects on ecosystem)	94.4	43.7
Water (effects on ecosystem)	64.7	74.4
Biodiversity & Habitat	21.9	45.0

Source: Yale Center for Environmental Law and Policy (YCELP) and Center for International Earth Science Information Network (CIESIN), Columbia University, with the World Economic Forum, and Joint Research Centre (JRC) of the European Commission (2010). 2010 Environmental Performance Index. Downloaded from <http://epi.yale.edu> (last accessed 07/26/2010)