



Republic of Mauritius

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**DIGEST OF ENVIRONMENT STATISTICS  
2003**



# **DIGEST OF ENVIRONMENT STATISTICS – 2003**

## **Foreword**

This is the second issue of the Digest of Environment Statistics prepared by the Central Statistics Office.

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 1994 to 2003, 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 research workers.

The digest has been prepared with the collaboration of the Ministry of Environment and several other public 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 1994 to 2003, wherever possible. Environmental data are collected over a variety of 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. Chapters of the digest would be reviewed annually with any new material added as soon as practical.

Attempts have also been made, through the use of footnotes and accompanying commentary, to ensure that each table is self-standing and as comprehensive as possible.

### Sources

The tables and figures have been compiled with the help of the following government departments, non-governmental and para-statal bodies:

- The Forestry Service - Ministry of Agriculture, Food Technology and Natural Resources.
- National Parks and Conservation Service - Ministry of Agriculture, Food Technology and Natural Resources.
- Albion Fisheries Research Centre - Ministry of Fisheries
- Agricultural Research and Extension Unit (AREU) - Ministry of Agriculture, Food Technology and Natural Resources.

- The Meteorological Services
- Water Resources Unit - Ministry of Public Utilities.
- Central Water Authority
- Central Electricity Board
- Statistics Unit – Ministry of Health and Quality of Life.
- Ministry of Environment and National Development Unit
- Ministry of Local Government and Solid Waste Management
- Waste Water Management Authority

Data in tables whose source(s) is (are) not indicated are from other publications of the Central Statistics Office.



## Concepts and definitions

### 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

Weeding : Weeding is defined as the removal of unwanted plants, particularly at seedling stage.

Staking : Straightening of young plants bent during cyclones, using guava sticks.

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

Greenhouse gases (GHG): GHG are gases occurring naturally and resulting from human activities (production and consumption) that contribute directly or indirectly to global warming. Some main naturally existing 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 contribute indirectly to global warming. GHG's 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.

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

## **Water**

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

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

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

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

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

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

**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.

**pH :** This is the measurement of the hydrogen ion concentration in water. A pH below 7 is acidic (the lower the number, the more acidic the water) and a pH above 7 (to a maximum of 14) is alkaline (the higher the number, the more alkaline the water).

**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.

**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.

**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.

**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.

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

**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.

**Sulphate:** Sulphate usually occurs in natural waters. High concentrations of  $\text{SO}_4^{2-}$  can have a laxative effect on human beings.

**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  $\text{NO}_3^-$  can lead to eutrophication.

**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  $\text{PO}_4^{3-}$  can cause eutrophication.

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

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

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

## **Land**

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

**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.

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

**Solid waste:** These are useless and sometimes hazardous material 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.

**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.

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

Preliminary environmental report (PER) 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

### **Human settlements**

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.

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.

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.

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

Life expectancy at birth: 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.

## 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 tonne of oil equivalent
Toe	Tonne of oil equivalent
°C	Degrees celcius
mg/l	Milligram per litre
mS/cm	Millisiemens per centimetre
g/l	Gram per litre
NTU	Nephelometric Turbidity Unit
µg/m <sup>3</sup>	Microgram per cubic metres
ppb	Part per billion
ppm	Part per million
TSP	Total suspended particles

### Symbols

-	Nil or negligible
...	Not available



# Environment Statistics - 2003

## Highlights

### 1. Flora

#### 1.1 Land area

Table 1.1 shows the forest area by category for the Island of Mauritius. In 2003, total forest area was 56,608 hectares, of which 22,068 (39%) were state-owned and the remaining 34,540 hectares (61%) were private-owned.

Under the category state-owned, about 12,260 hectares were planted areas while the National Park and the nature reserves accounted for nearly 6,570 and 800 hectares respectively. Forest area under the category "Pas Geometriques" represented about 630 hectares.

Most of the privately-owned lands falls under forest land which includes scrubs and grazing land and they are estimated at 28,000 hectares all over the island. Total reserves of the privately-owned lands accounted for 6,550 hectares.

#### 1.2 Protected areas

The land protected areas as shown in Table 1.6 total almost 14,000 hectares. The Black River Gorges National Park represents nearly 6,570 hectares followed by the mountain and river reserves which are all privately owned, by 3,800 and 2,740 hectares respectively. The nature reserves constituting the islets accounts for nearly 620 hectares.

### 2. Fauna

#### 2.1 Livestock

Cattle, goat, sheep and pig represent the major livestock in the country. As at March 2003, goats dominated the livestock population with an estimated population of 20,015 heads followed by pigs, 12,921, cattle, 6,822 and sheep, 406 heads (Table 2.1).

#### 2.2 Agro-industrial production

Meat production from cattle, pig, goat and sheep constitute the main livestock production. In 2003, meat production from beef, of which nearly 92% was imported, constituted the leading contributor averaging about 74% of the total livestock

production. The remaining livestock production were shared by pigs (23%) and goat and mutton (3%) (Table 2.3).

Poultry production of the country was estimated at about 30,000 tonnes in 2003, a 2% increase over the year of 2002 which was 29,300 tonnes.

### **2.3 Fish catch and production**

Table 2.5 shows fish production by type of fishery for the years 1994 to 2003 and this was marked by a steady decline from 17,426 tonnes in 1994 to 9,709 tonnes in 2003. However compared to 2002, an increase of 4% was noted in the fish production for the year 2003.

As shown in Table 2.6, the annual fish catch of the coastal fishery by gear-type was characterised by fluctuations and decreased from 1,663 tonnes in 1994 to 1,166 in 2003 with fish catch from basket trap accounting almost 42% of the total artisanal catch.

Fish catch per fisherman-day was likewise characterised by fluctuations but managed to register an annual mean of 4.3 kilograms (Table 2.9).

### **2.4 Protected areas**

The marine protected areas consist of marine parks, fishing reserves and wetland. In 2003, the area occupied by the fishing reserves were about 6,350 hectares followed by the marine parks, 838 hectares and wetland, 26 hectares respectively (Table 2.18).

## **3. Atmosphere**

### **3.1 Air quality**

In 2001, in order to address the air quality problem in Mauritius, the Ministry of Environment purchased fixed and mobile air quality stations. The fixed station is installed at Medco, Cassis since May 2001.

The main parameters under investigation are Dust (PM<sub>10</sub>), Ozone, Sulphur Dioxide, Nitrogen Dioxide, Carbon Monoxide, Total Suspended Particles and Lead.

For the year 2003, the average results for all the parameters under study showed that the levels of ambient pollutants near Medco, Cassis were well below the norms (Table 3.5).



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

Mauritius as a party to the United Nations Framework Convention on Climate Change (UNFCCC) is required to update and report periodically on the inventory of anthropogenic emissions and removal of greenhouse gases using IPCC (Intergovernmental Panel on Climate Change) guidelines. GHG 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.

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

In 2003, some 2.78 million tonnes of Carbon Dioxide, the major greenhouse gas, were emitted in the atmosphere while only some 0.24 million tonnes were removed. Thus net emission of 2.55 million tonnes represented an increase of 5.7% over last year (Table 3.6).

The emission of minor greenhouse gases was as follows: Carbon Monoxide (0.07 million tonne), Sulphur Dioxide (0.03 million tonne), Non-Methane volatile organic compound (0.02 million tonne), Oxides of Nitrogen (0.02 million tonne), Methane (0.01 million tonne) and Nitrous Oxide (0.001 million tonne).

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

In 2003, total Carbon dioxide emissions from fuel combustion activities increased by about 5% from 2.65 million tonnes in 2002 to 2.78 million tonnes. Carbon dioxide from energy production alone contributed to 51% of the total emissions followed by transport, 29% and manufacturing industries, 14% (Table 3.7).

#### **3.2.3 Greenhouse gas inventory**

The national inventory of greenhouse gas emissions by source categories for the year 2003 is given in Table 3.8. Carbon dioxide with an emission of 2.78 million tonnes 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.

### **3.3 Ozone-depleting substances**

The consumption of ozone-depleting substances increased by 66% from 136 metric tonnes in 2002 to 227 metric tonnes in 2003. Almost 98% of the ozone-depleting substances constituted of the hydrochlorofluorocarbons, HCFC's (Table 3.10)

## **4. Water**

### **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 2003, the island of Mauritius received on average 4,006 million cubic metres ( $\text{Mm}^3$ ) of precipitation (rainfall) which is an increase of about 3% over the previous year. Some 1,202  $\text{Mm}^3$  (30%) of this water was lost through evapotranspiration, while surface runoff and ground water recharge accounted for 2,403  $\text{Mm}^3$  (60%) and 401  $\text{Mm}^3$  (10%) respectively (Table 4.3).

### **4.2 Water utilisation**

The water demand in 2003 was estimated at 1,030  $\text{Mm}^3$ , of which, 491  $\text{Mm}^3$  (47%) were used for irrigation, 305  $\text{Mm}^3$  (30%) for hydropower and 234  $\text{Mm}^3$  (23%) for domestic and industrial purposes (Table 4.4).

Around 86 % of the total water demand was met by surface water and the remaining 14 %, by ground water.

### **4.3 Water consumption**

During the period 1994 to 2003, the domestic per capita consumption of water has risen from 148 to 161 litres per day at an annual growth rate of 1.0% (Table 4.11). Consumption was at its weakest in 1999 at 149 litres per day, which was due to the severe drought prevailing during that year.

## **5. Land**

### **5.1 Land use**

Urbanisation and the development of industries and infrastructure have led to a loss of agricultural land. Detailed data on land use for the island of Mauritius are available only for 1986 and 1995.

Between 1986 and 1995, the proportion of land under agriculture dropped from 48.2% to 46.4%, and that of forestry from 35.1% to 30.6% whilst built-up areas increased from 13.4% to 19.5% (Table 5.1 and figure 16).

As shown in Table 5.2, around 93% of our effective agricultural land was under sugarcane plantation with the remaining being planted with tea, tobacco and foodcrops.

## **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 amount of fertilisers consumed and its breakdown by main nutrient components are shown in Table 5.6. The consumption of fertilisers for the year 2003 amounted to 63,507 tonnes, showing a decrease of 1,232 tonnes (-1.9%) over 2002. The nutrient contents consisted of nitrogen, phosphate and potash with respective proportions of 17.0%, 6.4 % and 18.1% of the product weight.

## **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.

The total amount of solid waste landfilled at Mare Chicose went up from 363,913 tonnes in 2002 to 372,434 tonnes in 2003, representing an increase of 8,521 tonnes or 2.3% (Table 5.12).

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

The Department of Environment grants EIA licences as from the end of 1993 and PER licences as from September 2002 for undertakings (projects) which have an impact on the environment or on human health. These undertakings are listed in the First Schedule of the Environment Protection Act, 2002.

The number of EIA licences issued during the period 1999 to 2003 and number of PER licences issued as from September 2002 are shown in Table 5.14. In 2003, the numbers of EIA and PER licences granted were 95 and 65 respectively. The highest in number among the EIA licences was "industrial development" which accounted for 29% and among the PER licences, "land parcelling", 43%.

# **6. Human settlement**

## **6.1 The economy**

Table 6.1 provides some key socio-economic indicators in order to show the structural changes that have occurred in the economy during the last decade.

From 1994 to 2003, Gross Domestic Product (GDP), which measures the total value of production, has increased in nominal terms from Rs 64,048 million to Rs 157,210 million representing an annual growth rate of 10.5%. The share of agriculture in GDP decreased from 9.8% in 1994 to 6.3% in 2003, that of manufacturing, from 22.6% to 21.4% while that of the financial and business services increased from 14.9% to 19.4%.

During the same period, the population increased by 9.9% from 1,112,800 to 1,222,800 and the population density from 548 per km<sup>2</sup> to 602.

## **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% from 1,169 ktoe in 2002 to 1,238 ktoe in 2003. Around 77% of the total primary energy requirement was met by imported fuels (oil, LPG and coal) and the remaining 23%, 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**

The different types of fuel used for electricity production expressed in energy units are shown in Table 6.16. Fuel oil, which represented about 172 ktoe of total energy used in 2002, increased by 14% to reach to 196 ktoe in 2003 while the amount of bagasse used fell by 3%.

### **6.2.3 Final energy consumption**

In 2003, final energy consumption reached around 813 ktoe, an increase of 6% over the figure of 765 ktoe in 2002. Changes in the different sectors were as follows: "Commercial and Distributive Trade" (+14%), "Transport" (+7%), "Manufacturing" (+4%) and "Household" (+4%). No Change has been registered in the consumption of energy by the agricultural sector (Table 6.18).

The largest consumers were the transport and manufacturing sectors, which accounted for 48% and 32% of the total 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 2003, petroleum products used for transportation amounted to about 161,270 tonnes of diesel oil, 89,240 tonnes of gasoline, 2,220 tonnes of liquefied petroleum gas (LPG) and 123,630 tonnes of aviation fuel. Between 1994 and 2003, consumption of gasoline and diesel oil rose at an annual growth rate of 1.3% and 5.5% respectively (Table 6.17).

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

In 2003, the fleet of motor vehicles stood at 276,371, up by 4% over the year of 2002. Between 1994 and 2003, the number of vehicles increased at an annual growth rate of 4.8%.

### **6.4 Complaints**

The number of complaints by category received by the Pollution Prevention and Control Division at the Department of Environment is shown in Table 6.32 for the years 1994 to 2003. The number of complaints rose from 370 in 1994 to 1,768 in 2003, showing an annual increase of nearly 19%. In 2003, the largest cause of complaint was noise, accounting for 33% of all complaints.

### **6.5 Contraventions**

In 2003, the Police de L'Environnement issued 4,571 contraventions of which illegal littering accounted for 87% (3,965).

During the same period, 3,666 notices were issued to drivers of vehicles emitting black smoke (Table 6.33).



# **CHAPTER 1**

## **FLORA**





Table 1.1 - Forest area by category, 1994 - 2003

Category	Hectares									
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003 <sup>1</sup>
<b>State - owned</b>	<b>22,519</b>	<b>22,519</b>	<b>22,519</b>	<b>22,519</b>	<b>22,519</b>	<b>22,492</b>	<b>22,089</b>	<b>22,089</b>	<b>22,089</b>	<b>22,068</b>
Plantations	12,539	12,557	12,635	12,672	12,609	12,608	12,359	12,362	12,418	12,256
Nature reserves	4,585	4,585	4,585	799	799	799	799	799	799	799
<i>on mainland</i>	4,018	4,018	4,018	200	200	200	200	200	200	200
<i>islets</i>	567	567	567	599	599	599	599	599	599	599
National Park <sup>2</sup>	-	-	-	6,574	6,574	6,574	6,574	6,574	6,574	6,574
Unplanted, protective or to be planted	4,743	4,725	4,647	1,822	1,885	1,859	1,705	1,702	1,646	1,804
Pas Geometriques	652	652	652	652	652	652	652	652	652	635
Plantations	211	209	224	224	224	225	224	230	243	226
<i>Leased for grazing and tree planting</i>	230	230	230	230	230	230	230	230	230	230
<i>Unplanted, protective or to be planted</i>	211	213	198	198	198	197	198	192	179	179
<b>Privately - owned lands</b>	<b>34,540</b>	<b>34,540</b>	<b>34,540</b>	<b>34,540</b>	<b>34,540</b>	<b>34,540</b>	<b>34,540</b>	<b>34,540</b>	<b>34,540</b>	<b>34,540</b>
Reserves	6,540	6,540	6,540	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
Forest lands, incl. scrub, grazing lands <sup>3</sup>	28,000	28,000	28,000	27,987	27,987	27,987	27,987	27,987	27,987	27,987
<b>Total</b>	<b>57,059</b>	<b>57,059</b>	<b>57,059</b>	<b>57,059</b>	<b>57,059</b>	<b>57,032</b>	<b>56,629</b>	<b>56,629</b>	<b>56,629</b>	<b>56,608</b>

Source: Forestry Service, Ministry of Agriculture, Food Technology and Natural Resources

<sup>1</sup> Provisional

<sup>2</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>3</sup> Figures not available but estimated.

**Table 1.2 - Changes in forest-land cover, 1994 and 2003**

	Area (hectares)		% of total land area	
	1994	2003 <sup>1</sup>	1994	2003 <sup>1</sup>
Forests lands : of which	57,059	56,608	30.6	30.4
Plantations	12,539	12,256	6.7	6.6
Nature reserves	4,585	799	2.5	0.4
National park	-	6,574	-	3.5
Unplanted, protective or to be planted	4,743	1,804	2.5	1.0
Pas Geometriques	652	635	0.3	0.3
Other <sup>2</sup>	34,540	34,540	18.5	18.5

<sup>1</sup> Provisional

<sup>2</sup> Privately owned forest lands including reserves , scrub and grazing lands

**Table 1.3 - Local production, imports and consumption of timber, poles and fuelwood, 1994 - 2003**

	cubic metre (roundwood)									
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<b>Local Production</b>	<b>34,972</b>	<b>20,207</b>	<b>26,153</b>	<b>27,633</b>	<b>22,392</b>	<b>25,694</b>	<b>18,977</b>	<b>16,945</b>	<b>15,910</b>	<b>14,007</b>
Timber	7,394	5,595	12,276	12,687	8,261	7,049	5,402	4,941	4,346	4,565
State Lands	6,894	3,955	5,791	6,187	7,489	5,549	4,742	4,401	3,796	3,730
Private Lands <sup>1</sup>	500	1,640	6,485	6,500	772	1,500	660	540	550	835
Poles	3,960	4,623	4,652	4,569	4,032	6,511	3,404	2,670	2,642	2,976
State Lands	3,095	2,268	2,492	2,409	2,232	3,147	2,516	1,580	1,612	1,911
Private Lands <sup>1</sup>	865	2,355	2,160	2,160	1,800	3,364	888	1,090	1,030	1,065
Fuelwood	23,618	9,989	9,225	10,377	10,099	12,134	10,171	9,334	8,922	6,466
State Lands	17,246	7,139	7,350	8,502	8,524	10,539	9,256	8,429	7,992	5,189
Private Lands <sup>1</sup>	6,372	2,850	1,875	1,875	1,575	1,595	915	905	930	1,277
<b>Imports of timber<sup>2</sup></b>	<b>75,720</b>	<b>200,877</b>	<b>59,980</b>	<b>104,523</b>	<b>84,641</b>	<b>67,441</b>	<b>63,407</b>	<b>106,277</b>	<b>85,488</b>	<b>65,558</b>
<b>Total Consumption<sup>3</sup></b>	<b>110,692</b>	<b>221,084</b>	<b>86,133</b>	<b>132,156</b>	<b>107,033</b>	<b>93,135</b>	<b>82,384</b>	<b>123,222</b>	<b>101,398</b>	<b>79,565</b>

Source : Forestry Service, Ministry of Agriculture, Food Technology and Natural Resources

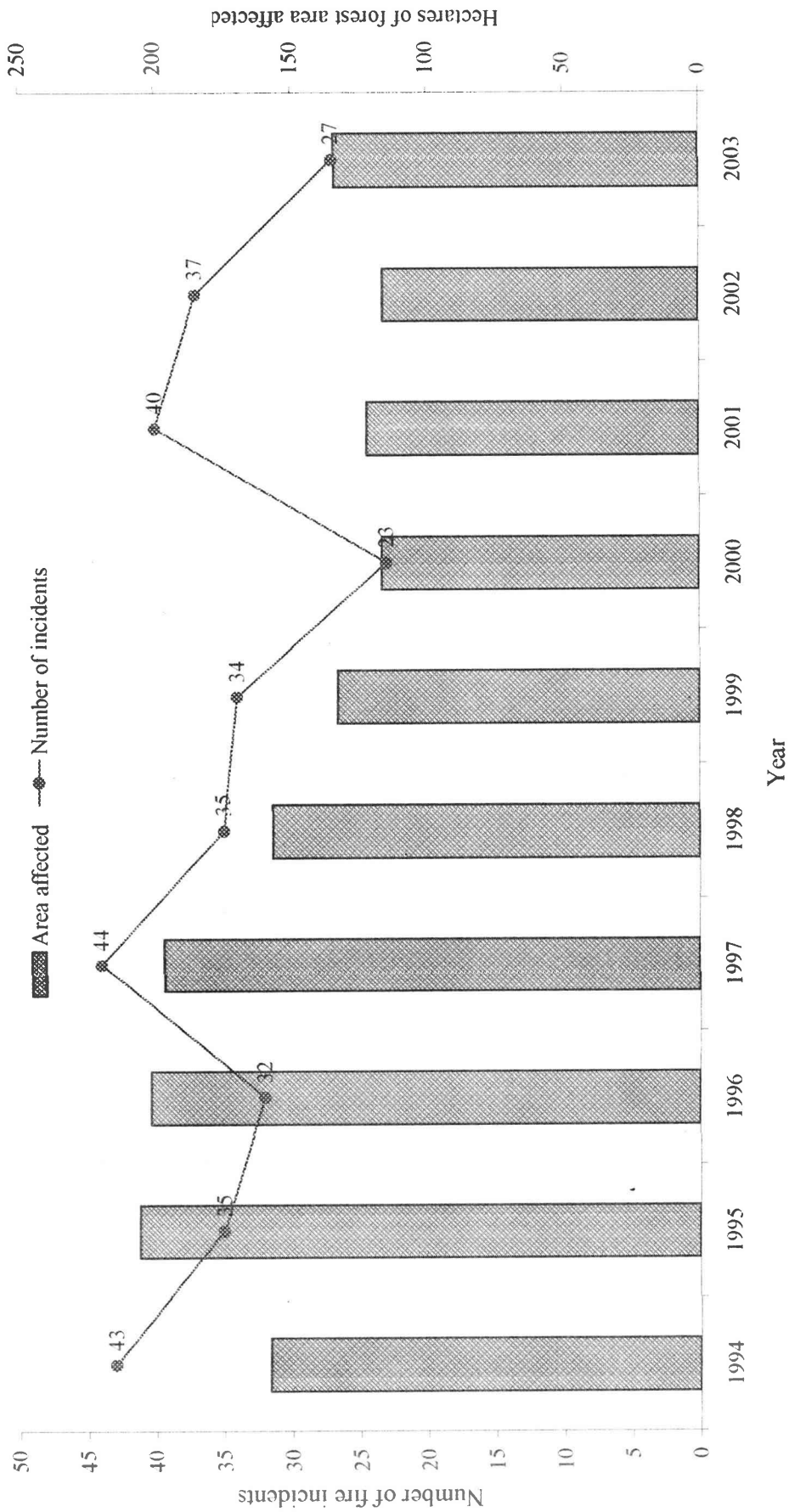
<sup>1</sup> Estimates<sup>2</sup> Roundwood equivalent<sup>3</sup> Excludes plywood, paper and other wood products.

**Table 1.4 - Forest fires and area affected, 1994 - 2003**

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Number of incidents	43	35	32	44	35	34	23	40	37	27
Area affected ( Ha ) of which :	158	206	202	197	157	133	117	122	116	134
Protected areas	119	77	26	6	62	12	33	67	44	13
Unprotected areas	39	129	176	191	95	121	84	55	72	121

Source : Forestry Service, Ministry of Agriculture, Food Technology and Natural Resources

**Fig.1 - Forest fires and area affected, 1994 - 2003**



**Table 1.5 - Silvicultural operations carried out in state forest land plantations, 1994 - 2003**

Type of operation	Hectares									
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Clearing for planting	250	149	344	62	120	182	79	34	84	56
Planting	207	134	210	169	145	155	117	133	151	110
Weeding	717	652	682	685	606	361	649	596	490	402
Recruiting	602	496	446	473	395	251	533	462	394	391
Staking	418	240	559	25	208	337	372	14	629	30
Cleaning	118	661	826	452	542	508	498	718	606	744
Pruning	15	13	29	35	18	24	39	50	33	89

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 Agriculture, Food Technology and Natural Resources

**Table 1.6 - List of land protected areas, Republic of Mauritius, 2003.**

	Hectares
	<b>Area</b>
<b><u>Land protected areas</u></b>	<b><u>13,973</u></b>
<b>Black River Gorges National Park</b>	<b>6,574</b>
<b>Nature reserves (land)</b>	<b>225</b>
Pouce	69
Perrier	2
Bois Sec	6
Gouly Pere	11
Corps de Garde	90
Cabinet	18
Les Mares	5
Grande Montagne (Rodrigues)	14
Anse Quitar (Rodrigues)	10
<b>Nature reserves (Islets)</b>	<b>621</b>
Gunner's Quoin	76
Iles aux Aigrettes	25
Iles aux Serpents	31
Flat Island	253
Round Island	169
Gabriel Island	42
Illot Marianne	2
Iles aux Cocos (Rodrigues)	15
Iles aux Sables (Rodrigues)	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>
Mondrain	5
Sir Emile Series	8

Source : Forestry Service, Ministry of Agriculture, Food Technology and Natural Resources

**Table 1.7 - Number of offences detected against forest laws<sup>1</sup> by category, 1994 - 2003**

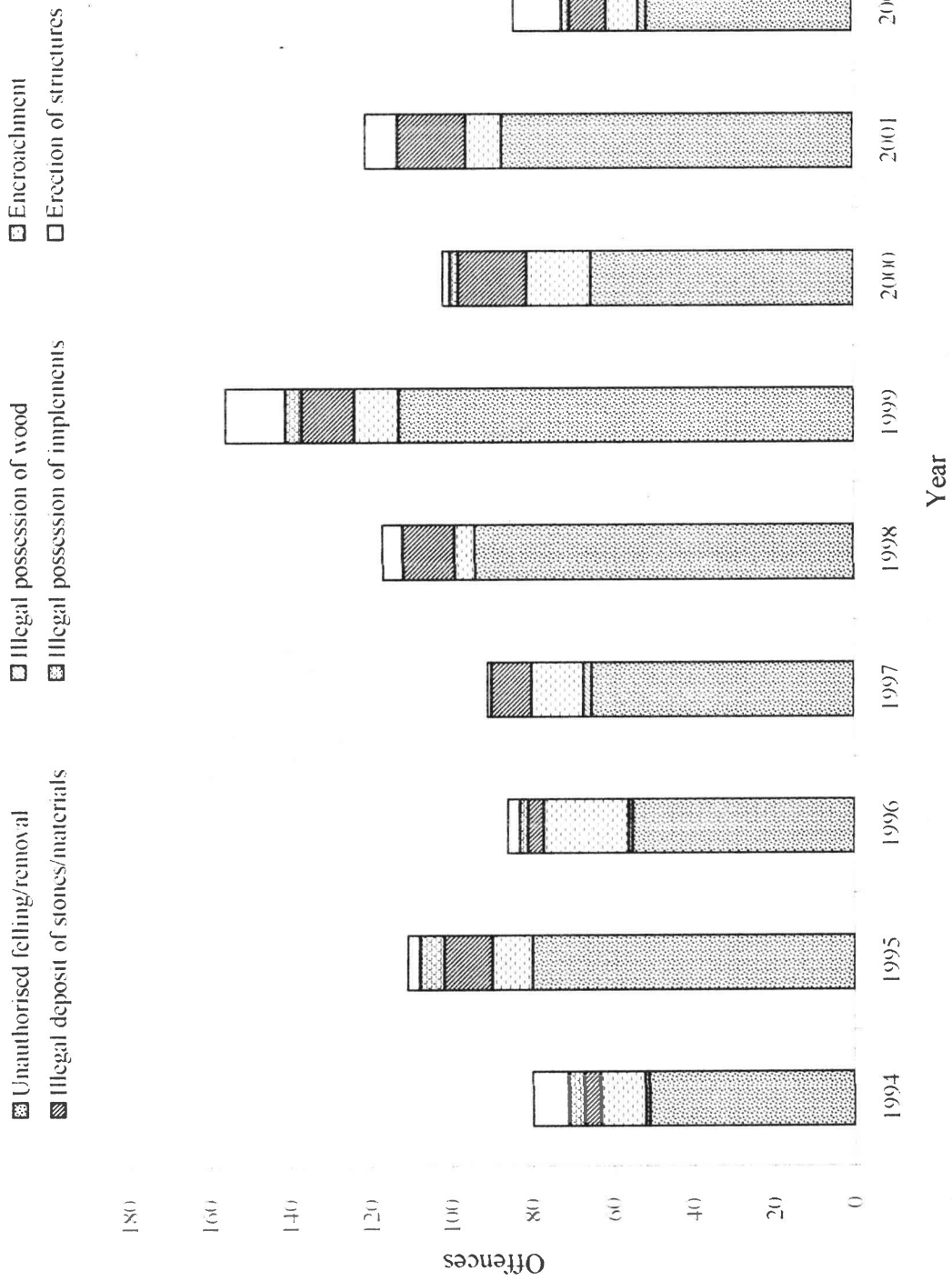
Category	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Unauthorised felling/removal	51	80	55	65	94	113	65	87	51	53
Illegal possession of wood	1	-	1	2	-	-	-	-	2	-
Encroachment	11	10	21	13	5	11	16	9	8	20
Illegal deposit of stones/materials	4	12	4	10	13	13	17	17	9	24
Illegal possession of implements	4	6	2	-	-	4	2	-	2	-
Erection of structures	9	3	3	1	5	15	2	8	12	10
Other	-	1	-	1	-	-	-	-	-	-
<b>Total</b>	<b>80</b>	<b>112</b>	<b>86</b>	<b>92</b>	<b>117</b>	<b>156</b>	<b>102</b>	<b>121</b>	<b>84</b>	<b>107</b>

Source: Forestry Service, Ministry of Agriculture, Food Technology and Natural Resources

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



**Fig. 2 - Number of offences detected against forest laws by category, 1994 - 2003**



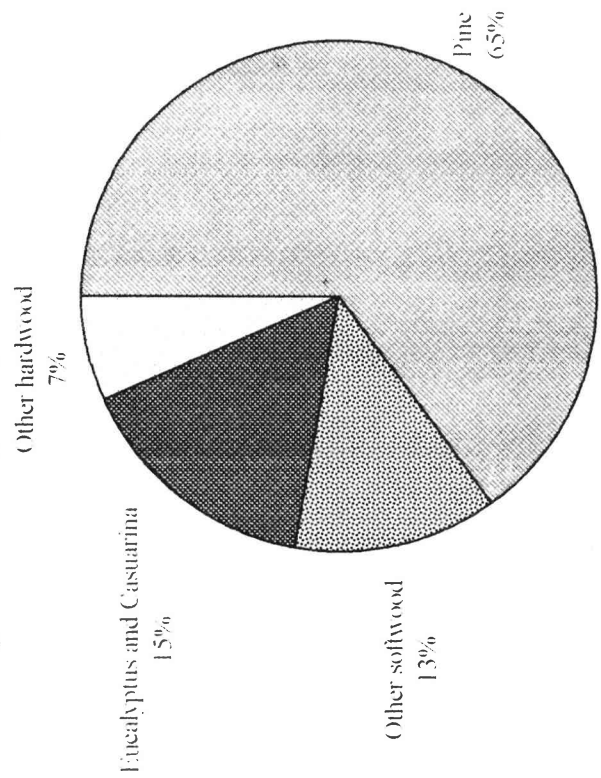
**Table 1.8 - Forest plantations<sup>1</sup> by type of plants, 1994 - 2003**

Type of plant	Hectares									
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Soft wood										
Pine	8,110	8,117	8,195	8,232	8,169	8,192	8,078	8,035	8,062	8,113
Other softwood	1,601	1,601	1,601	1,601	1,601	1,601	1,597	1,599	1,609	1,609
Hardwood										
Eucalyptus and Casuarina	2,028	2,039	2,039	2,039	2,039	2,015	1,884	1,906	1,919	1,921
Other hardwood	800	800	800	800	800	800	800	822	828	839
Total	12,539	12,557	12,635	12,672	12,609	12,608	12,359	12,362	12,418	12,482

Source: Forestry Service, Ministry of Agriculture, Food Technology and Natural Resources

<sup>1</sup> State land

**Fig. 3 - Percentage composition of forest plantations, 2003**



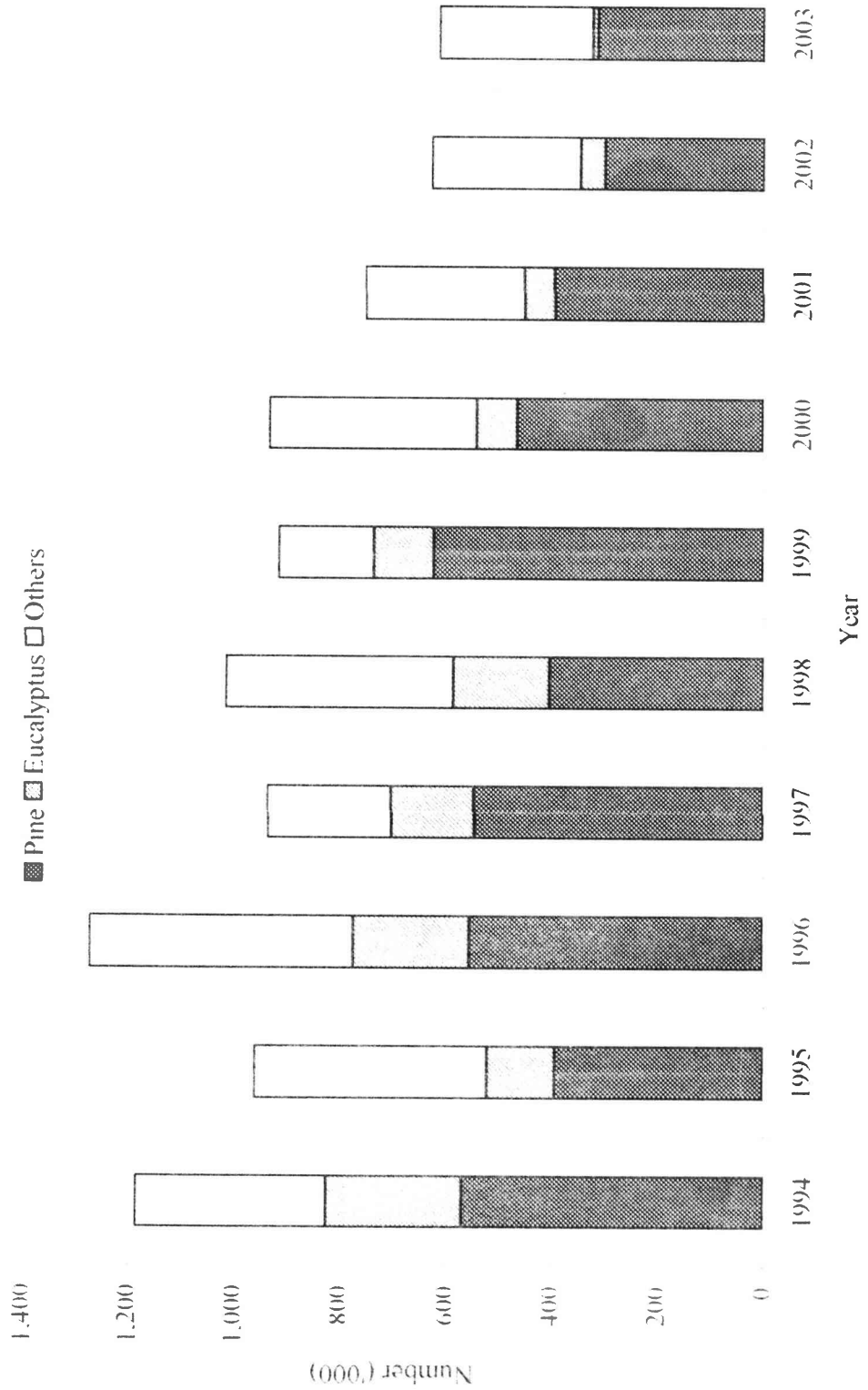
**Table 1.9 - Number of seedlings raised, by species, at the nurseries of the Forestry Service, 1994 - 2003**

Species	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Pine	568,239	393,352	554,298	545,670	404,306	622,154	465,060	393,768	300,119	313,293
Eucalyptus	257,960	127,635	219,999	156,461	180,444	113,500	75,510	57,871	47,018	10,000
Cryptomeria	35,000	21,900	40,000	-	4,471	15,455	3,285	4,100	14,531	6,265
Casuarina ( Filao )	57,252	157,732	133,702	104,785	162,900	25,585	36,842	45,519	23,198	32,650
Araucaria	3,000	1,900	9,730	388	34	1,485	52,601	22,347	47,961	19,291
Juniper	-	1,150	7,759	-	-	842	-	-	818	-
Other <sup>1</sup>	264,752	256,471	306,214	129,149	262,650	135,828	299,612	228,313	193,063	231,219
<b>Total</b>	<b>1,186,203</b>	<b>960,140</b>	<b>1,271,702</b>	<b>936,453</b>	<b>1,014,805</b>	<b>914,849</b>	<b>932,910</b>	<b>751,918</b>	<b>626,708</b>	<b>612,718</b>

Source : Forestry Service, Ministry of Agriculture, Food Technology and Natural Resources

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

**Fig. 4 - Number of seedlings raised, by species, at the nurseries of the Forestry Service, 1994 - 2003**



**Table 1.10 - No. of plants issued freely or sold to the public by the Forestry Service, 1994 - 2003**

Year	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Free issue	17,657	29,340	18,371	14,154	34,018	15,869	24,754	14,384	16,523	18,181
Sold	192,209	198,102	196,085	79,805	139,912	86,790	126,681	125,823	134,393	138,320

Source : Forestry Service, Ministry of Agriculture, Food Technology and Natural Resources

**Fig. 5 -No. of plants issued freely or sold to the public by the Forestry Service, 1994 - 2003**

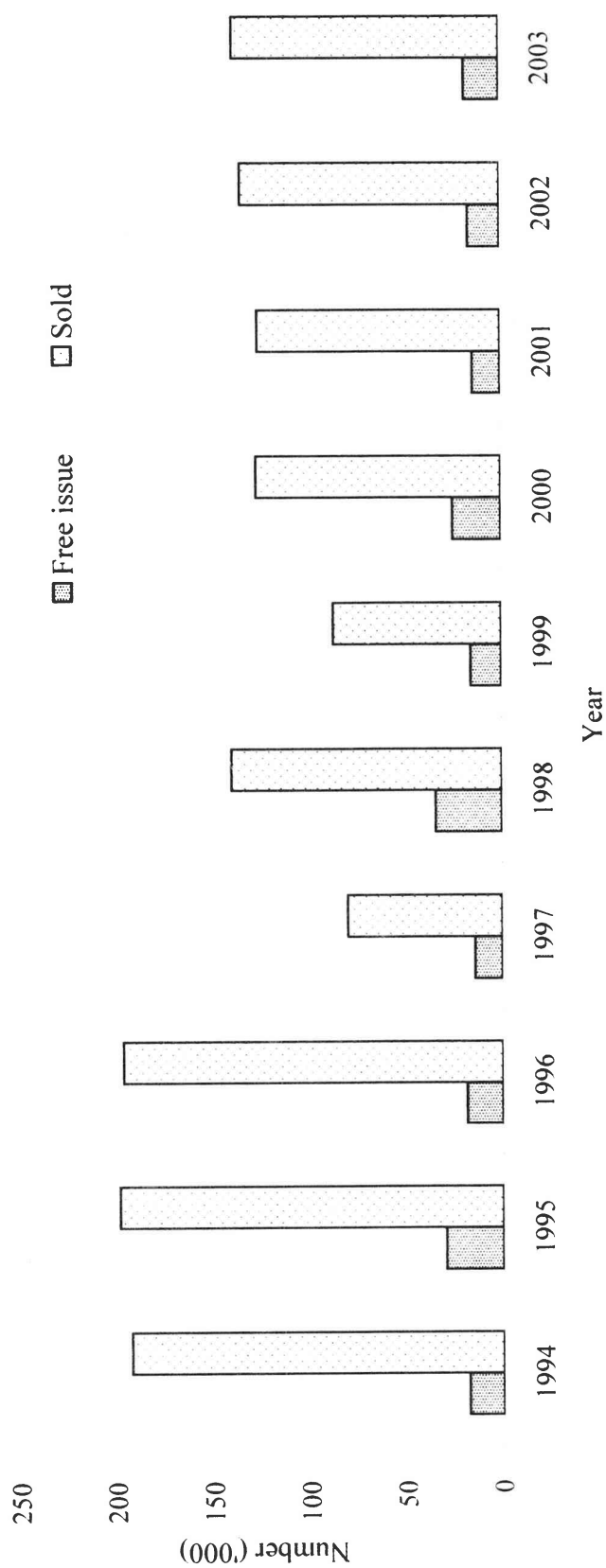


Table 1.11 - Revenue and expenditure of the Forestry Service, 1994 - 2003

Revenue item	Rupees thousand									
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Sales of forest produce	7,290	4,450	4,267	6,557	8,172	8,506	8,172	6,879	7,159	7,494
Shooting and fishing rights	2,139	1,177	1,055	1,085	1,056	1,061	1,056	1,955	2,153	3,157
Agro - forestry	1	1	1	-	9	9	9	-	-	-
Miscellaneous (Wood exploitation licence)	210	216	222	198	246	213	246	210	207	212
Total revenue	9,640	5,845	5,545	7,840	9,483	9,789	9,483	9,044	9,519	10,863
Total expenditure	96,380	94,648	98,825	107,365	115,201	135,202	115,201	125,460	128,419	137,738

Source : Forestry Service, Ministry of Agriculture, Food Technology and Natural Resources

Table 1.12 - Selling rates of timber by type, class<sup>1</sup> and category<sup>2</sup>, 1994 - 2003

Item	Rupees per cubic metre									
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Standing timber (basic royalty)										
Class I	1,430	1,430	1,430	1,430	1,430	1,640	1,640	1,640	1,810	1,810
Class II	880	880	880	880	880	1,010	1,010	1,010	1,110	1,110
Class III										
Category I	690	690	690	690	690	800	800	800	880	880
Category II	550	550	550	550	550	650	650	650	715	715
Class IV	250	250	250	250	250	300	300	300	330	330
Sound logs at roadside (basic royalty+labour)										
Class I	2,090	2,090	2,090	2,090	2,090	2,400	2,400	2,400	2,640	2,640
Class II	1,540	1,540	1,540	1,540	1,540	1,770	1,770	1,770	1,950	1,950
Class III										
Category I	1,430	1,430	1,430	1,430	1,430	1,640	1,640	1,640	1,810	1,810
Category II	1,210	1,210	1,210	1,210	1,210	1,390	1,390	1,390	1,530	1,530
Class IV	940	940	940	940	940	1,080	1,080	1,080	1,190	1,190
Sound logs at Curepipe timber store (basic royalty+labour+transport)										
Class I	3,080	3,080	3,080	3,080	3,080	3,540	3,540	3,540	3,900	3,900
Class II	2,530	2,530	2,530	2,530	2,530	2,910	2,910	2,910	3,200	3,200
Class III										
Category I	2,200	2,200	2,200	2,200	2,200	2,530	2,530	2,530	2,780	2,780
Category II	1,760	1,760	1,760	1,760	1,760	2,020	2,020	2,020	2,220	2,220
Class IV	1,540	1,540	1,540	1,540	1,540	1,770	1,770	1,770	1,950	1,950

Source : Forestry Service, Ministry of Agriculture, Food Technology and Natural Resources

<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 to less than 24 cm diameter.

Table 1.13 - Private households using wood and charcoal for cooking, 1990 and 2000 Housing and Population Censuses, Republic of Mauritius

	1990		2000	
	Wood	Charcoal	Wood	Charcoal
Island of Mauritius	55,659	2,577	11,412	521
Urban	7,436	2,093	1,273	349
Rural	48,223	484	10,139	172
Island of Rodrigues	4,011	10	1,509	17
Agalega	...	...	2	-
Republic of Mauritius	59,670	2,587	12,923	538
(% of households)	(25.2)	(1.1)	(4.3)	(0.2)



# **CHAPTER 2**

## **FAUNA**



**Table 2.1 - Number of farmers and livestock population by geographical district as at March 2003**

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	342	818	643	4,329	12	36	43	952
Riviere du Rempart	262	847	363	2,918	5	47	40	336
Flacq	626	1,444	970	6,142	14	137	69	2,844
Plaines Wilhems	196	960	146	903	-	-	13	507
Moka	174	590	62	439	-	-	9	615
Grand Port	227	795	277	1,640	2	4	55	1,133
Savanne	83	332	168	991	3	71	11	224
Black River	175	729	259	2,287	4	101	161	4,579
Port - Louis	45	307	41	366	2	10	85	1,731
<b>Total</b>	<b>2,130</b>	<b>6,822</b>	<b>2,929</b>	<b>20,015</b>	<b>42</b>	<b>406</b>	<b>486</b>	<b>12,921</b>

Source : Agricultural Research and Extension Unit, Ministry of Agriculture, Food Technology and Natural Resources.

Table 2.2 - Livestock herd and poultry status by geographical district as at March 2003

District	Cattle					Pig						
	No. of farmers	Cows	Calves	Heifers	Bulls	Total no. of heads	No. of farmers	Boars	Sows	Piglets	Fatteners	Total no. of heads
Pamplemousses	342	341	28	254	195	818	43	28	201	352	371	952
Riviere du Rempart	262	316	88	351	92	847	40	26	62	109	139	336
Flacq	626	533	463	313	135	1 444	69	53	351	556	1 884	2 844
Plaines Wilhems	196	346	146	296	172	960	13	9	60	214	224	507
Moka	174	236	85	171	98	590	9	5	48	111	451	615
Grand Port	227	290	90	209	206	795	55	42	134	487	470	1 133
Savanne	83	143	46	90	53	332	11	7	34	151	32	224
Black River	175	218	164	138	209	729	161	108	817	1 369	2 285	4 579
Port Louis	45	83	75	55	94	307	85	34	271	517	909	1 731
Total	2 130	2 506	1 185	1 877	1 254	6 822	486	312	1 978	3 866	6 765	12 921

Source : Agricultural Research and Extension Unit, Ministry of Agriculture, Food Technology and Natural Resources.

Table 2.2 (cont'd) - Livestock herd and poultry status by geographical district as at March 2003

District	Sheep				Goat				Poultry					
	No. of farmers	Bucks	Does	Kids	Total no. of heads	No. of farmers	Bucks	Does	Kids	Total no. of heads	No. of farmers	Broilers	No. of farmers	Layers
Pamplemousses	12	10	19	7	36	643	1,264	1,530	1,535	4,329	34	47,305	31	47,994
Riviere du Rempart	5	16	18	13	47	363	778	957	1,183	2,918	2	4,500	33	15,530
Flacq	14	26	60	51	137	970	2,013	2,334	1,795	6,142	83	99,230	46	28,923
Plaines Wilhems	-	-	-	-	-	146	234	366	303	903	42	96,600	45	62,452
Moka	-	-	-	-	-	62	105	174	160	439	46	82,450	17	80,450
Grand Port	2	2	2	-	4	277	601	607	432	1,640	14	4,680	26	67,676
Savanne	3	21	33	17	71	168	273	404	314	991	15	134,035	32	90,696
Black River	4	12	35	54	101	259	597	909	781	2,287	5	18,400	10	5,634
Port Louis	2	2	5	3	10	41	78	140	148	366	2	500	2	2,030
Total	42	89	172	145	406	2,929	5,943	7,421	6,651	20,015	243	487,700	242	401,385

Source : Agricultural Research and Extension Unit, Ministry of Agriculture, Food Technology and Natural Resources.

**Table 2.3 - Production of selected agro-industrial products, Republic of Mauritius, 1994 - 2003**

Detail	Unit	1994	1995	1996	1997	1998	1999	2000	2001	2002 <sup>1</sup>	2003 <sup>2</sup>
Beef <sup>3</sup>	tonnes	2,609	2,296	2,321	2,274	2,516	2,575	2,538	2,248	2,428	2,505
<i>Local (including Rodrigues)</i>	"	391	592	586	295	340	279	240	375	208	202
<i>Imported</i>	"	2,218	1,704	1,735	1,979	2,176	2,296	2,298	1,873	2,221	2,303
Goat meat and mutton <sup>3</sup>	"	148	127	140	128	118	125	102	114	114	107
Pork <sup>3</sup>	"	1,058	1,038	1,112	948	752	678	891	882	756	784
Poultry	"	18,850	19,325	20,100	20,825	18,300	20,900	25,600	27,200	29,305	30,000
Milk	'000 litres	8,000	7,500	6,600	6,000	5,500	5,000	4,000	4,000	4,000	4,000

<sup>1</sup> Revised

<sup>2</sup> Provisional

<sup>3</sup> abattoir slaughters only

**Table 2.4 - Export of monkeys ( *Macaca fascicularis* ), feral and captive bred, 1995 - 2003**

	1995	1996	1997	1998	1999	2000	2001	2002	2003
Number of animals	5,410	6,084	5,998	7,578	6,381	7,870	7,050	5,731	7,740
Value in US \$ <sup>1</sup>	284,400	324,950	304,200	380,800	280,700	363,200	552,500	286,550	387,000
Number of export permits issued	875	1,143	1,528	1,315	1,419	1,047	1,147	1,316	1,936

Source : National Parks and Conservation Service . Ministry of Agriculture Food Technology & Natural Resources

<sup>1</sup> The value in US \$ refers to the contribution paid to the National Parks and Conservation Fund by companies exporting monkeys

**Table 2.5 - Fish production by type of fishery (in fresh - weight equivalent), 1994 - 2003**

		Tonnes										
Type of fishery	Type	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
Artisanal fishery												
Island of Mauritius	Fresh	1,663	1,443	1,616	1,246	1,229	1,225	1,360	1,075	1,302	1,166	
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	52	59	33	12	13	10	4	6	7	6	
Ponds (prawn and fish)	Fresh	83	111	132	105	93	71	60	52	34	27	
Offshore demersal fishery												
Shallow water banks	Fresh	6,629	6,474	5,033	4,831	3,731	4,297	4,303	3,366	3,943	3,713	
Banks deep water snappers	Fresh	-	-	-	85	226	-	55	329	5	-	
St Brandon inshore	Frozen & salted	86	299	435	562	594	557	497	557	491	578	
Semi - industrial chilled fish	Chilled	-	-	59	95	102	172	190	188	204	234	
Tuna fishery	Frozen	7,963	6,693	2,815	4,435	2,848	3,304	417	-	219	1,118	
Sword fish fishery	Chilled	-	-	-	-	-	-	-	87	45	111	
Demersal trawlers	Frozen	-	-	-	-	-	-	-	2,184	2,134	1,806	
<b>Total</b>		<b>17,426</b>	<b>16,029</b>	<b>11,073</b>	<b>12,321</b>	<b>9,786</b>	<b>10,586</b>	<b>7,836</b>	<b>8,794</b>	<b>9,334</b>	<b>9,709</b>	

Source : Albion Fisheries Research Centre, Ministry of Fisheries.



**Table 2.6 - Annual fish catch of the coastal (artisanal) fishery by gear - type, 1994 - 2003**

Tonnes

<b>Gear-type</b>	<b>1994</b>	<b>1995</b>	<b>1996</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>
Basket trap	326.2	379.6	385.4	384.7	394.4	282.0	404.9	357.5	450.8	492.6
Line	322.2	333.7	345.8	300.7	264.2	339.1	503.2	368.4	429.3	373.4
Basket trap and Line	356.9	271.3	391.0	237.3	212.3	156.0	83.3	59.1	91.8	17.5
Large net	517.1	308.3	306.9	163.3	217.1	294.7	230.7	172.9	183.4	160.6
Gill net	44.5	38.4	28.8	16.6	16.8	16.0	12.8	11.4	25.3	13.6
Cast net/Harpoon/on foot	96.2	111.7	158.6	143.5	123.9	137.1	125.1	105.9	121.1	108.1
<b>Total</b>	<b>1,663.2</b>	<b>1,442.9</b>	<b>1,616.5</b>	<b>1,246.1</b>	<b>1,228.8</b>	<b>1,224.8</b>	<b>1,360.0</b>	<b>1,075.2</b>	<b>1,301.7</b>	<b>1,165.8</b>

Source : Albion Fisheries Research Centre, Ministry of Fisheries.

Table 2.7 - Number of active fishermen by gear - type, 1994 - 2003

Gear-type	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Basket trap	530	565	572	413	242	256	286	519	501	473
Line/Harpoon	763	785	742	844	451	523	642	678	734	749
Basket trap and Line	749	714	927	633	561	609	559	610	600	670
Large net	537	499	478	426	270	270	226	180	165	177
Gill net	107	96	83	77	23	27	28	27	28	17
Cast net	54	52	61	55	38	31	-	-	-	-
Total	2,740	2,711	2,863	2,448	1,585	1,716	1,741	2,014	2,028	2,086

Source : Albion Fisheries Research Centre, Ministry of Fisheries

**Table 2.8 - Fisherman-days and total catch <sup>1</sup> from the lagoon and off lagoon, 1994 - 2003**

Year	Fisherman-days			Catch (tonnes)
	Lagoon	Off lagoon	Total	
1994	200,859	75,500	276,359	1,663
1995	217,278	85,690	302,968	1,443
1996	260,914	115,742	376,656	1,616
1997	170,143	88,334	258,477	1,246
1998	173,153	68,882	242,035	1,229
1999	170,612	70,107	240,719	1,225
2000	147,649	74,973	222,622	1,360
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

Source : Albion Fisheries Research Centre, Ministry of Fisheries.

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

**Table 2.9 - Catch per fisherman-day, 1994 - 2003**

Year	Kilogram		
	Lagoon	Off - lagoon	Mean
1994	5.5	6.8	6.0
1995	4.1	6.4	4.8
1996	3.9	5.4	4.3
1997	4.1	6.9	4.8
1998	4.7	6.1	5.1
1999	4.8	5.9	5.3
2000	4.8	8.8	6.1
2001	4.0	5.3	4.5
2002	3.7	5.5	4.3
2003	3.7	5.5	4.3

Source : Albion Fisheries Research Centre. Ministry of Fisheries.

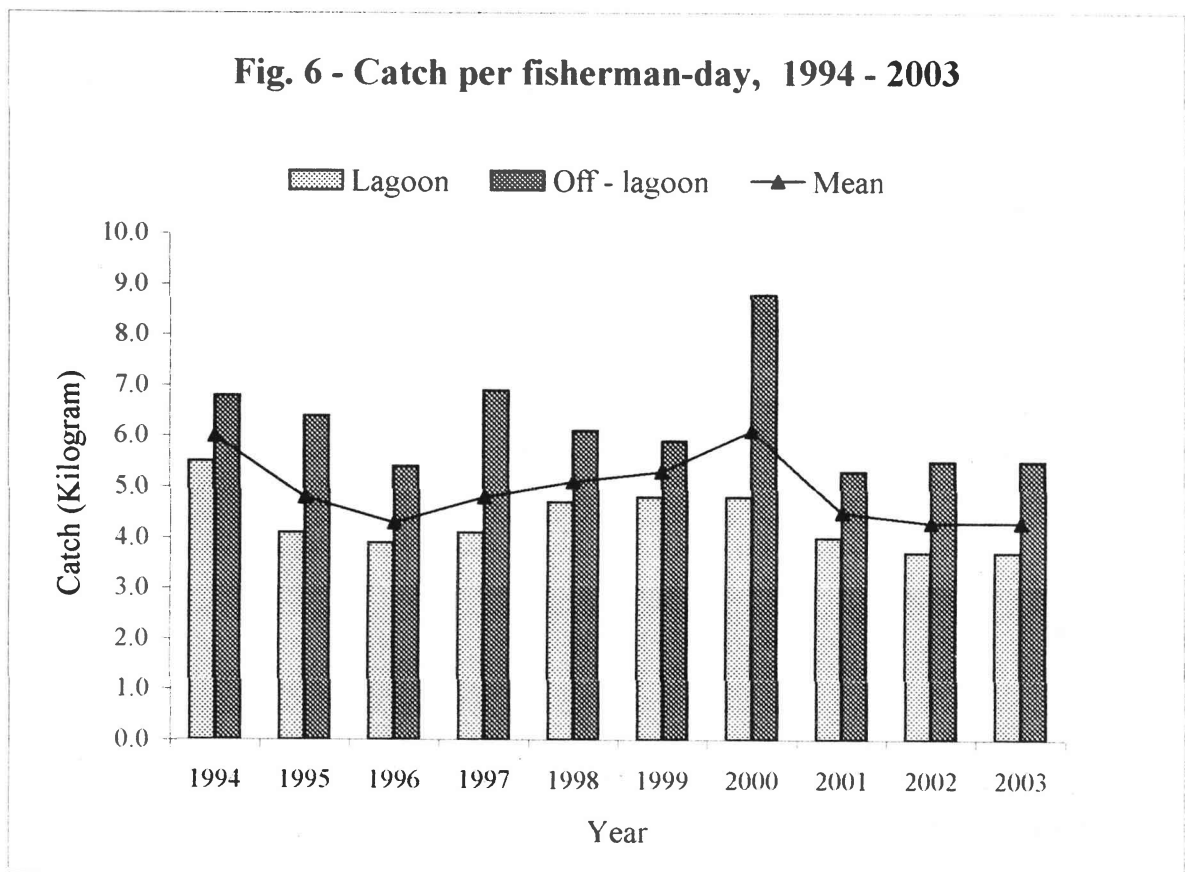
**Fig. 6 - Catch per fisherman-day, 1994 - 2003**

Table 2.10 - Average price of fresh fish and other sea food, 1994 - 2003

Species	Rupees per kilogram									
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Homard	385	400	405	395	365	370	415	475	475	480
Crab and crevette	280	290	275	275	270	270	260	270	295	285
Vicille rouge	155	160	160	160	175	180	185	180	185	180
Vacoas, sacrechien	125	120	120	125	140	135	140	145	150	150
Capitaine	110	110	110	120	120	125	135	140	145	140
Dame berri	95	95	100	110	110	110	120	130	135	130
Octopus	65	70	75	80	85	90	90	100	100	100
Carangue	75	75	75	80	85	85	95	100	110	100
Cordonier	60	65	70	75	80	80	80	85	85	90
Rouget, tuna	60	65	70	75	80	75	80	80	80	85
Mulet voile	55	60	60	65	65	65	70	75	75	80
Bordemar	65	65	65	70	75	75	80	80	80	85
Licorne	55	55	60	70	75	75	80	85	95	95
Cateaux	55	55	55	65	60	60	65	65	70	75
Other fish	45	45	45	50	45	45	45	45	45	35
Shark	30	30	35	35	25	25	30	35	35	45

Source : Albion Fisheries Research Centre Ministry of Fisheries.

**Table 2.11 - Annual catch by banks, 1994 - 2003**

Year	Tonnes <sup>1</sup>					Total catch
	Saya de Malha	Nazareth	St. Brandon	Chagos	Albatros	
1994	3,167	1,591	224	307	232	5,521
1995	2,682	1,609	470	218	312	5,291
1996	2,283	1,253	432	321	135	4,424
1997	1,798	1,720	316	306	270	4,410
1998	2,054	1,086	400	81	76	3,697
1999	2,107	1,121	341	127	226	3,922
2000	2,099	1,080	267	312	141	3,899
2001	1,283	1,366	332	228	202	3,411
2002	2,090	918	436	223	161	3,828
2003	2,354	468	455	235	37	3,549

Source : Albion Fisheries Research Centre, Ministry of Fisheries.

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

Table 2.12- Import, export and trade balance of fish and fish products, 1994 - 2003

Year	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Imports										
Quantity (tonnes)	20,602	29,271	28,422	30,911	34,331	30,339	42,146	52,050	83,753	62,323
Value (Rupees million)	488.5	634.9	689.5	866.9	1113.2	793.1	1057.0	1754.3	3,832	2560.1
Exports										
Quantity (tonnes)	9,900	13,570	13,919	15,827	13,023	15,206	18,151	27,381	49,560	48,719
Value (Rupees million)	542.7	657.5	758.9	926.9	972.6	971.2	961.5	1,840.8	4,081.0	3,178.4
Trade Balance ( Rupees million )	54.2	22.6	69.4	60.0	-140.4	178.1	-96.4	86.5	249.0	618.3

Source : Albion Fisheries Research Centre, Ministry of Fisheries.

**Table 2.13 - Total number and type of fishing vessels calling at Port Louis , 1995 - 2003**

Type/category	1995	1996	1997	1998	1999	2000	2001	2002	2003
Tuna long liners and squid vessels	458	413	376	481	456	452	476	448	396
Purse seiners (local)	15	12	11	9	3	2	-	-	-
Reefers	...	...	27	24	37	46	50	39	42
Trawlers	...	...	9	10	18	55	52	22	21
Hand liners	...	...	48	58	75	63	56	108	179
Long liners (Ice cod fish sp.) (Patagonian tooth fish vessel)	...	...	...	88	47	80	62	44	51
Others, unspecified vessels	...	...	71	...	...	...	...	2	2
<b>Total</b>	<b>473</b>	<b>425</b>	<b>542</b>	<b>670</b>	<b>636</b>	<b>698</b>	<b>696</b>	<b>663</b>	<b>691</b>

Source : Albion Fisheries Research Centre. Ministry of Fisheries.

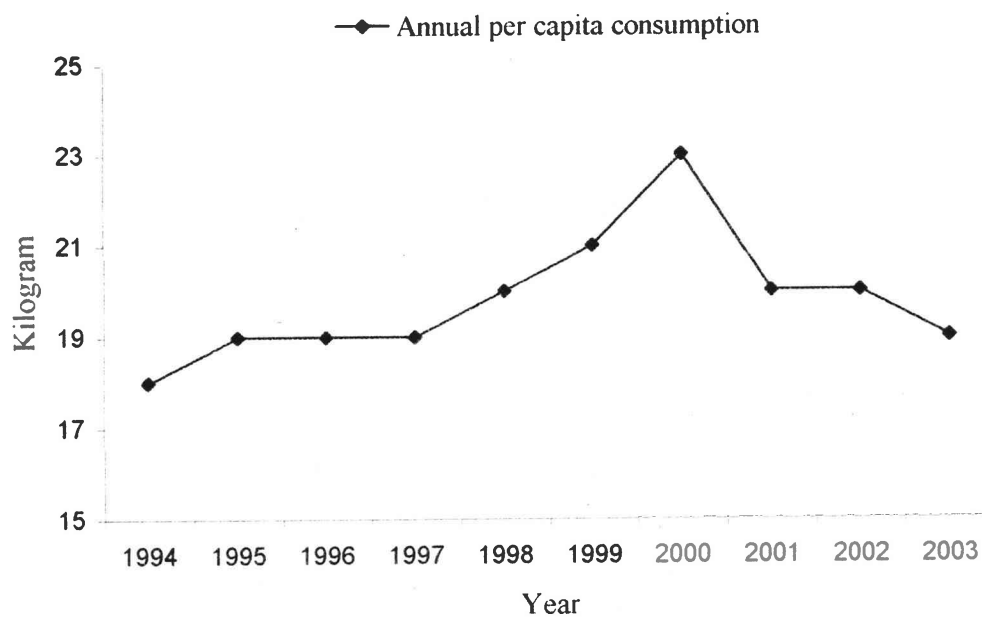


**Table 2.14 - Per capita consumption of fish, 1994 - 2003**

Kilogram/year

Year	Quantity
1994	18
1995	19
1996	19
1997	19
1998	20
1999	21
2000	23
2001	20
2002	20
2003	19

Source : Albion Fisheries Research Centre. Ministry of Fisheries.

**Fig. 7 - Per capita consumption of fish, 1994 - 2003**

**Table 2.15 - Cases of poisoning<sup>1</sup> by noxious fish and shellfish, venomous animals and plants, 1993 - 2002**

	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
<b>Total</b>										
General hospital discharges due to accidental poisoning by noxious fish and shellfish	161	142	103	99	68	22	69	53	67	26
General hospital discharges due to venomous animals and plants as the cause of poisoning and toxic reactions	60	38	94	117	105	201	186	170	189	93
<b>Male</b>										
General hospital discharges due to accidental poisoning by noxious fish and shellfish	72	60	49	41	28	13	32	26	33	12
General hospital discharges due to venomous animals and plants as the cause of poisoning and toxic reactions	46	33	70	90	78	149	155	118	144	71
<b>Female</b>										
General hospital discharges due to accidental poisoning by noxious fish and shellfish	89	82	54	58	40	9	37	27	34	14
General hospital discharges due to venomous animals and plants as the cause of poisoning and toxic reactions	14	5	24	27	27	52	31	52	45	22

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

<sup>1</sup> Cases treated as in - patients in Government General Hospitals

**Table 2.16 - List of fishable areas, Republic of Mauritius**

Kilometre square

<b>Region</b>	<b>Depth</b>	<b>Area</b>
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: Albion Fisheries Research Centre. Ministry of Fisheries.

**Table 2.17 - Percentage of substrate cover at various monitoring stations, 2002 - 2003**

Site		Year	Coral	Algae	Abiotic <sup>1</sup>	Other <sup>2</sup>
Baie du Tombeau	Back reef	2002	48	8	44	n.o
		2003	55	9	35	1
Le Goulet	Fore reef	2002	53	9	38	n.o
		2003	62	6	32	n.o
Ile aux Benitiers	Fore reef	2002	39	1	55	5
		2003	35	3	58	4
	Back reef	2002	72	2	26	n.o
		2003	49	26	23	2
	Shore reef	2002	31	6	63	n.o
		2003	24	4	72	n.o
Bel Ombre	Back reef	2002	37	19	44	n.o
		2003	49	3	49	2
	Shore reef	2002	45	14	41	n.o
		2003	64	5	31	n.o
Bambous	Back reef	2002	57	8	35	n.o
		2003	61	9	30	n.o
	Shore reef	2002	33	20	47	n.o
		2003	33	35	32	n.o
Trou d'eau Douce	Back reef	2002	32	12	56	n.o
		2003	45	23	31	1
	Shore reef	2002	64	11	2	4
		2003	70	0	30	n.o
Anse La Raie	Back reef	2002	50	24	26	n.o
		2003	67	24	9	n.o
	Shore reef	2002	71	21	8	n.o
		2003	77	16	7	n.o
Trou Aux Biches	Fore reef	2002	48	6	45	1
		2003	36	5	50	1
	Back reef	2002	40	6	54	n.o
		2003	37	7	56	n.o
Pointe Aux Sables	Fore reef	2002	29	n.o	71	n.o
		2003	15	n.o	85	n.o
	Back reef	2002	34	n.o	65	1
		2003	32	1	65	2
Albion	Fore reef	2002	35	12	35	2
		2003	30	0	67	3
	Back reef	2002	53	18	29	n.o
		2003	54	6	40	n.o
Poudre D'Or Site I	Back reef	2002	52	15	33	n.o
		2003	58	18	24	n.o
Poudre D'Or Site II	Back reef	2002	66	1	33	n.o
		2003	56	1	41	2

Source : Albion Fisheries Research Centre, Ministry of Fisheries.

<sup>1</sup> Rocks, sand, dead corals etc.

<sup>2</sup> Sponges, crown of thorns (starfish), sea urchins etc

n.o: Not observed

**Table 2.18 - List of marine protected areas, 2003**

<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

Source : Albion Fisheries Research Centre. Ministry of Fisheries.



# **CHAPTER 3**

## **ATMOSPHERE**





Table 3.1 Monthly mean maximum temperature, 1994 - 2003

YEAR	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
1994	29.6	0.3	29.9	0.6	29.5	0.4	29.1	0.9	27.1	0.5	25.7	0.7	24.8	-	24.7	0.7	25.3	0.2	27.1	0.9	27.9	0.2	29.6	0.8
1995	29.4	0.1	30.5	1.1	29.0	-0.1	28.6	0.5	25.8	-0.8	25.4	0.4	24.7	0.6	24.1	0.1	25.2	0.2	26.2	0.0	27.7	-0.1	28.6	-0.2
1996	29.2	-0.1	29.7	0.4	29.8	0.7	27.8	-0.4	26.3	-0.3	25.1	0.1	23.9	-0.2	24.3	0.2	25.1	0.1	26.2	0.0	28.6	0.8	28.9	0.1
1997	29.0	-0.3	29.3	0.0	29.5	0.4	28.7	0.5	26.7	0.1	25.1	0.1	24.2	0.0	24.9	0.8	24.9	-0.1	26.0	-0.1	28.7	0.9	30.2	1.4
1998	30.7	1.4	30.2	0.9	30.2	1.1	28.5	0.3	27.4	0.8	25.6	0.6	24.3	0.1	24.3	0.2	25.5	0.5	27.0	0.8	28.3	0.5	29.4	0.6
1999	30.1	0.8	29.8	0.5	29.6	0.6	29.3	1.2	28.1	1.5	26.1	1.1	24.4	0.2	24.5	0.4	25.4	0.4	26.3	0.1	28.1	0.4	28.6	-0.2
2000	29.6	0.4	28.9	-0.4	28.5	-0.6	28.1	-0.1	26.9	0.3	24.9	-0.1	23.7	-0.4	23.6	-0.4	24.8	-0.2	25.9	-0.2	27.3	-0.4	29.2	0.4
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

Degrees Celsius

**Table 3.2 - Monthly mean minimum temperature, 1994 - 2003**

YEAR	Degrees Celsius																							
	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
1994	22.4	0.6	22.9	0.8	22.7	0.9	21.5	0.7	19.1	0.2	17.7	0.5	17.5	0.9	17.3	1.0	16.7	-0.1	18.4	0.5	18.9	-0.5	20.7	-0.2
1995	22.3	0.5	22.7	0.6	22.0	0.1	21.5	0.7	19.1	0.3	16.8	-0.5	17.3	0.6	16.9	0.5	17.3	0.5	17.9	0.0	18.3	-1.1	21.3	0.3
1996	22.7	0.9	22.5	0.7	22.3	0.4	21.1	0.3	18.3	-0.5	17.3	0.1	16.0	-0.7	16.7	0.3	15.8	-0.9	17.8	-0.1	18.9	-0.9	20.9	0.0
1997	22.0	0.3	21.9	-0.1	21.3	-0.5	20.4	-0.3	19.5	0.6	17.6	0.3	17.2	0.6	16.7	0.3	17.0	0.2	17.8	-0.1	19.9	0.5	21.7	0.7
1998	23.1	1.3	24.0	2.0	22.5	0.7	21.6	0.8	19.5	0.7	17.9	0.6	16.9	0.3	16.8	0.4	17.4	0.6	17.9	0.0	18.8	-0.6	20.1	-0.9
1999	20.9	-0.8	21.5	-0.6	21.3	-0.5	20.7	0.0	18.8	0.0	17.5	0.3	17.0	0.3	17.1	0.7	17.6	0.8	17.0	-0.9	19.5	0.1	20.7	-0.3
2000	22.5	0.7	22.4	0.3	21.9	-0.1	21.0	0.2	19.5	0.6	17.7	0.4	17.1	0.4	17.2	0.8	16.8	0.0	17.9	0.0	19.3	-0.1	21.3	0.4
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

Table 3.3 - Monthly mean values of humidity (%) with extremes

Region	Station	Period	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec		
North	Pamplemousses	1986 - 2000	Mean	81	83	82	82	82	81	79	77	76	76	79		
			Highest Maximum	99	100	99	99	100	99	100	100	100	100	100	100	99
			Lowest Minimum	38	41	43	39	32	30	37	37	40	38	32	28	32
South	Plaisance	1971 - 2000	Mean	81	83	83	83	81	78	77	78	77	78	78	80	
			Highest Maximum	100	100	100	100	100	100	100	100	100	100	99	100	100
			Lowest Minimum	48	51	53	50	51	48	46	46	43	39	46	44	48
East	FUEL	1981 - 2000	Mean	84	87	84	85	83	82	82	82	82	82	81	84	
			Highest Maximum	96	96	96	97	96	96	96	96	97	97	96	96	96
			Lowest Minimum	55	56	60	54	53	50	51	51	51	49	50	48	55
West	Medine	1981 - 2000	Mean	79	82	81	80	79	78	77	76	75	76	77	79	
			Highest Maximum	100	100	99	98	100	100	100	100	100	100	100	100	100
			Lowest Minimum	34	36	36	33	26	23	25	25	20	25	25	30	33
Centre	Vacoas	1971 - 2000	Mean	83	84	85	84	84	83	83	82	80	79	78	81	
			Highest Maximum	98	98	99	99	99	98	98	98	98	98	98	98	99
			Lowest Minimum	47	50	50	44	43	45	41	41	43	30	40	43	42
			Mean	83	85	84	85	83	82	82	80	80	80	81		
			Highest Maximum	100	99	99	99	99	99	100	98	99	99	100	100	
			Lowest Minimum	47	46	49	54	47	42	45	42	43	45	41		

Source : Meteorological Services

Table 3.4 - Monthly total hours of sunshine by region and station, 1994 - 2003

Month Year	Region : North, Station : Pamplemousses												YEARLY TOTAL
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1994	250	245	242	230	236	241	247	275	237	285	293	324	3,105
1995	226	241	175	248	215	209	243	218	228	263	259	194	2,718
1996	208	281	262	209	256	214	250	237	231	277	282	236	2,942
1997	219	244	264	220	212	249	229	268	220	212	230	244	2,811
1998	277	122	259	252	239	221	232	228	240	276	271	286	2,686
1999	270	248	252	264	253	227	245	259	240	270	270	241	3,038
2000	205	246	259	248	245	252	224	240	229	238	256	234	2,874
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
Mean 1961-1990	259	221	231	223	235	219	235	237	221	251	257	243	2,830
Region : East, Station : Fuel													
1994	203	220	218	214	224	199	194	223	199	229	242	280	2,643
1995	173	206	175	164	172	192	196	161	180	226	245	148	2,238
1996	169	234	220	167	192	171	200	176	220	212	270	202	2,434
1997	195	213	240	168	165	204	185	219	175	176	196	226	2,360
1998	236	108	212	154	196	182	184	153	186	232	242	261	2,346
1999	252	210	238	243	222	171	212	202	192	252	239	216	2,647
2000	187	179	200	207	196	217	177	173	187	213	215	207	2,358
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
Mean 1961-1990	219	193	205	183	193	181	185	185	189	209	210	213	2,365

Source : Meteorological Services

Table 3.4 ( cont'd) - Monthly total hours of sunshine by region and station, 1994 - 2003

Month Year	Region : West, Station : Medine												YEARLY TOTAL
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
1994	...	228	230	227	245	248	248	254	218	248	280	304	2,732
1995	192	210	209	235	211	227	246	210	196	260	263	184	2,642
1996	216	277	273	200	249	219	243	219	220	240	265	247	2,868
1997	205	235	241	209	231	258	238	262	199	217	272	242	2,808
1998	286	126	254	237	231	220	239	222	225	227	246	269	2,783
1999	231	190	250	257	265	200	233	219	221	272	254	236	2,827
2000	194	226	226	238	227	235	200	220	219	220	235	238	2,677
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
Mean 1981-2000	233	206	228	214	236	218	230	228	216	237	234	236	2,715
Region : Centre, Station : Vacoas													
1994	222	211	239	213	226	225	239	241	216	260	258	267	2,818
1995	189	226	175	216	192	219	238	205	203	253	239	144	2,499
1996	196	266	242	187	250	222	250	221	240	250	258	205	2,786
1997	224	228	248	193	204	243	241	249	210	224	214	212	2,690
1998	278	113	256	208	236	218	189	189	232	258	245	262	2,686
1999	273	235	230	259	248	209	215	225	207	279	260	240	2,879
2000	196	222	237	220	225	244	208	206	200	217	235	237	2,646
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
Mean 1961-1990	228	194	222	205	229	211	224	222	219	233	225	215	2,627

Source : Meteorological Services

Table 3.4 ( cont'd) - Monthly total hours of sunshine by region and station, 1994 - 2003

		Region : South , Station : Plaisance												YEARLY TOTAL
Month	Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
	1994	221	201	207	216	198	179	171	208	203	241	258	303	2,605
	1995	207	217	195	214	188	198	175	167	202	244	257	194	2,457
	1996	201	230	226	168	209	204	199	167	225	231	289	230	2,577
	1997	217	209	242	174	169	189	161	232	190	186	227	230	2,426
	1998	269	122	221	180	202	170	170	157	200	251	283	303	2,528
	1999	300	255	252	236	236	177	182	179	207	273	257	249	2,802
	2000	203	213	218	219	217	197	174	151	204	217	253	272	2,538
	2001	204	223	252	210	218	185	190	215	234	263	280	249	2,723
	2002	224	258	192	211	149	184	150	183	225	219	253	191	2,437
	2003	239	201	239	147	171	195	119	199	174	276	251	304	2,515
	Mean 1961-1990	249	214	216	188	192	177	181	189	197	234	242	245	2,523

Source : Meteorological Services

**Table 3.5 - Ambient air quality monitoring at Medco Cassis, 2002 - 2003**

Pollutant	Unit	Minimum		Maximum		24 hour Average for the year		Ambient air quality standard <sup>2</sup>
		2002	2003 <sup>1</sup>	2002	2003 <sup>1</sup>	2002	2003 <sup>1</sup>	
Dust ( PM <sub>10</sub> )	µg/m <sup>3</sup>	12.0	10.0	75.0	119.2	25.0	41.0	100.0
Ozone ( O <sub>3</sub> )	ppb	0.0	0.0	42.0	26.0	15.0	3.0	46.7
Sulphur dioxide ( SO <sub>2</sub> )	ppb	0.0	0.0	14.0	7.0	3.0	1.0	70.0
Nitrogen dioxide ( NO <sub>2</sub> )	ppb	0.0	0.0	25.0	27.0	9.0	2.0	97.5
Carbon monoxide ( CO )	ppm	0.0	0.0	1.8	8.4	0.3	1.4	8.0
Total suspended particles ( TSP )	µg/m <sup>3</sup>	47.2	29.6	65.9	107.5	56.4	57.7	150.0
Lead	µg/m <sup>3</sup>	0.0	0.0	0.1	0.0	0.0	0.0	1.5

Source: Ministry of Environment and National Development Unit.

<sup>1</sup>: Estimate

<sup>2</sup>: 24-hour standard except for Ozone, Carbon monoxide and lead which are based on 1 hour, 8 hour and 3 month averages respectively.

Note: (i) Conversion coefficients ( at 25<sup>o</sup> C and 1013 bar ) have been used to convert the ambient air quality standards.

(ii) Measurements of the parameters are taken on a quarter hourly basis and the averaging time used is 24 hours.

**Table 3.6 - Total emissions and removals of greenhouse gases, 2000 - 2003**

Greenhouse gas	Gg or thousand tonne			
	2000	2001	2002	2003 <sup>1</sup>
<b>Emissions</b>				
Carbon Dioxide	2,456.8	2,597.7	2,647.9	2,783.5
Methane <sup>2</sup>	8.9	10.1	11.7	12.0
Oxide of Nitrogen	13.8	14.2	14.5	15.1
Nitrous Oxide	1.4	1.4	1.5	1.5
Carbon Monoxide	66.3	65.9	62.9	65.7
NMVOC <sup>3</sup>	17.2	17.1	18.5	17.5
Sulphur Dioxide	28.9	31.5	30.6	32.1
<b>Removals</b>				
Carbon Dioxide	229.2	234.5	239.5	237.9
<b>Net emissions</b>				
Carbon Dioxide	2,227.6	2,363.2	2,408.4	2,545.6

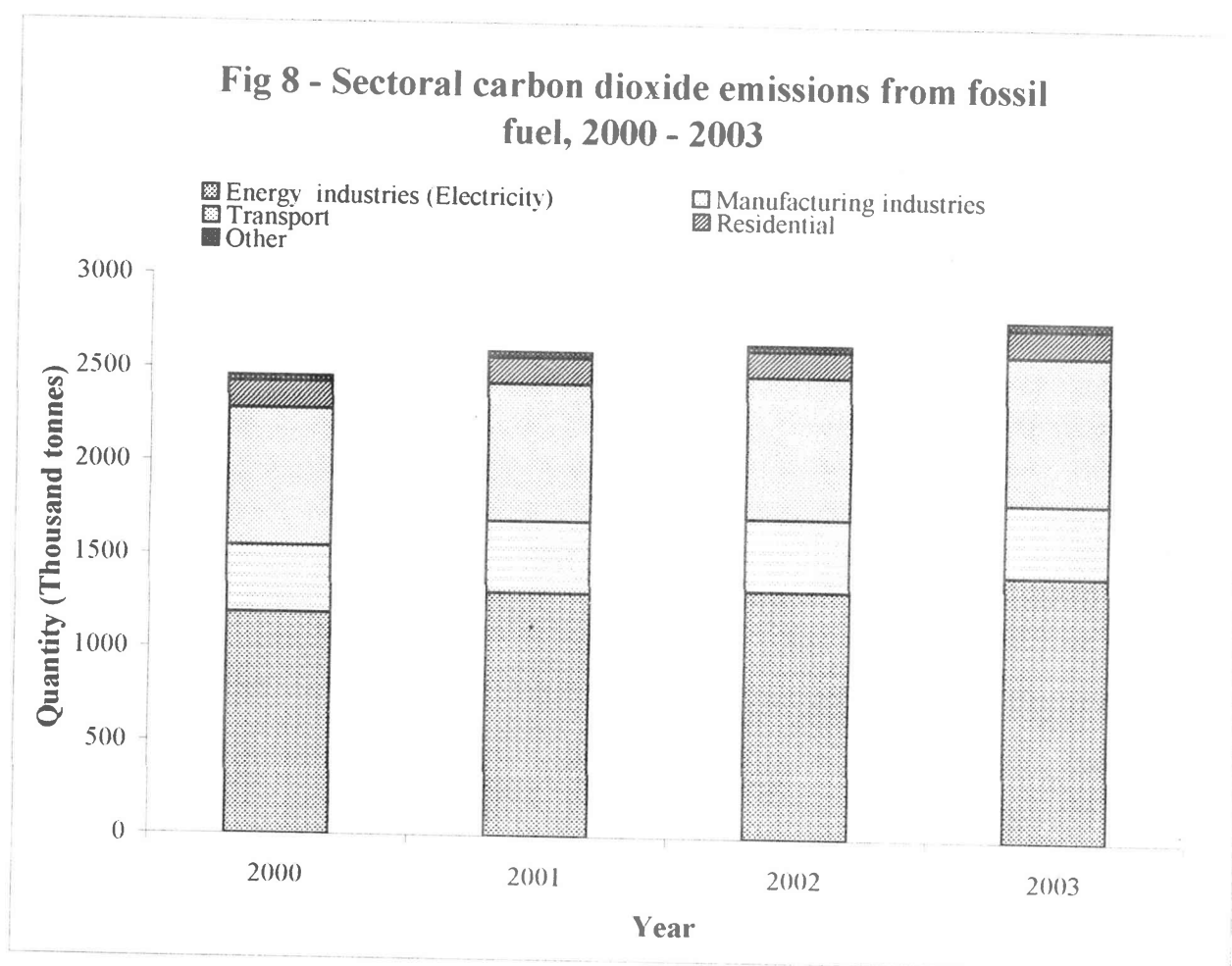
<sup>1</sup> Provisional

<sup>3</sup> Non - methane volatile organic compound

<sup>2</sup> Revised

Table 3.7 - Sectoral carbon dioxide emissions from fossil fuel, 2000 - 2003

Sector	2000		2001		2002 <sup>1</sup>		2003 <sup>2</sup>	
	Quantity	%	Quantity	%	Quantity	%	Quantity	%
Energy industries (electricity)	1,185.4	48	1,302.0	50	1,325.9	50	1,418.3	51
Manufacturing industries	357.4	15	383.6	15	385.5	15	386.4	14
Transport	735.8	30	734.6	28	760.0	29	793.2	29
Residential	141.7	6	141.7	6	141.8	5	145.9	5
Other <sup>3</sup>	33.7	1	33.1	1	32.2	1	37.3	1
Total	2,454.0	100	2,595.0	100	2,645.4	100	2,781.1	100

<sup>1</sup> Revised<sup>2</sup> Provisional<sup>3</sup> includes Agriculture and Commerce



**Table 3.8 - National inventory of greenhouse gases by source categories, 2003<sup>1</sup>**

Category	Gg or thousand tonne							
	Carbon dioxide(CO <sub>2</sub> ) Emissions	Removals	Methane (CH <sub>4</sub> )	Nitrous oxide(N <sub>2</sub> O)	Oxides of nitrogen(NO <sub>x</sub> )	Carbon monoxide(CO)	NMVOC <sup>2</sup>	Sulphur dioxide(SO <sub>2</sub> )
1. Energy	2,781.1	-	0.7	0.1	14.7	65.7	8.4	32.1
Fuel combustion activities								
(a) Energy industries (electricity)	1,418.3	-	0.3	0.1	5.0	8.6	0.5	22.8
(b) Manufacturing industries	386.4	-	0.2	0.0	1.5	16.6	0.3	7.2
(c) Transport	793.2	-	0.1	-	8.0	39.0	7.4	2.0
(d) Other sectors	183.2	-	0.1	-	0.2	1.5	0.2	0.1
2. Industrial processes	2.4	-	-	0.3	0.4	-	9.1	-
3. Solvent and other product use	...	...	...	...	...	...	...	...
4. Agriculture	-	-	1.0	1.1	-	-	-	-
5. Land use change and forestry	-	237.9	-	-	-	-	-	-
6. Waste	-	-	10.3	-	-	-	-	-
<b>Total</b>	<b>2,783.5</b>	<b>237.9</b>	<b>12.0</b>	<b>1.5</b>	<b>15.1</b>	<b>65.7</b>	<b>17.5</b>	<b>32.1</b>

<sup>1</sup> Provisional

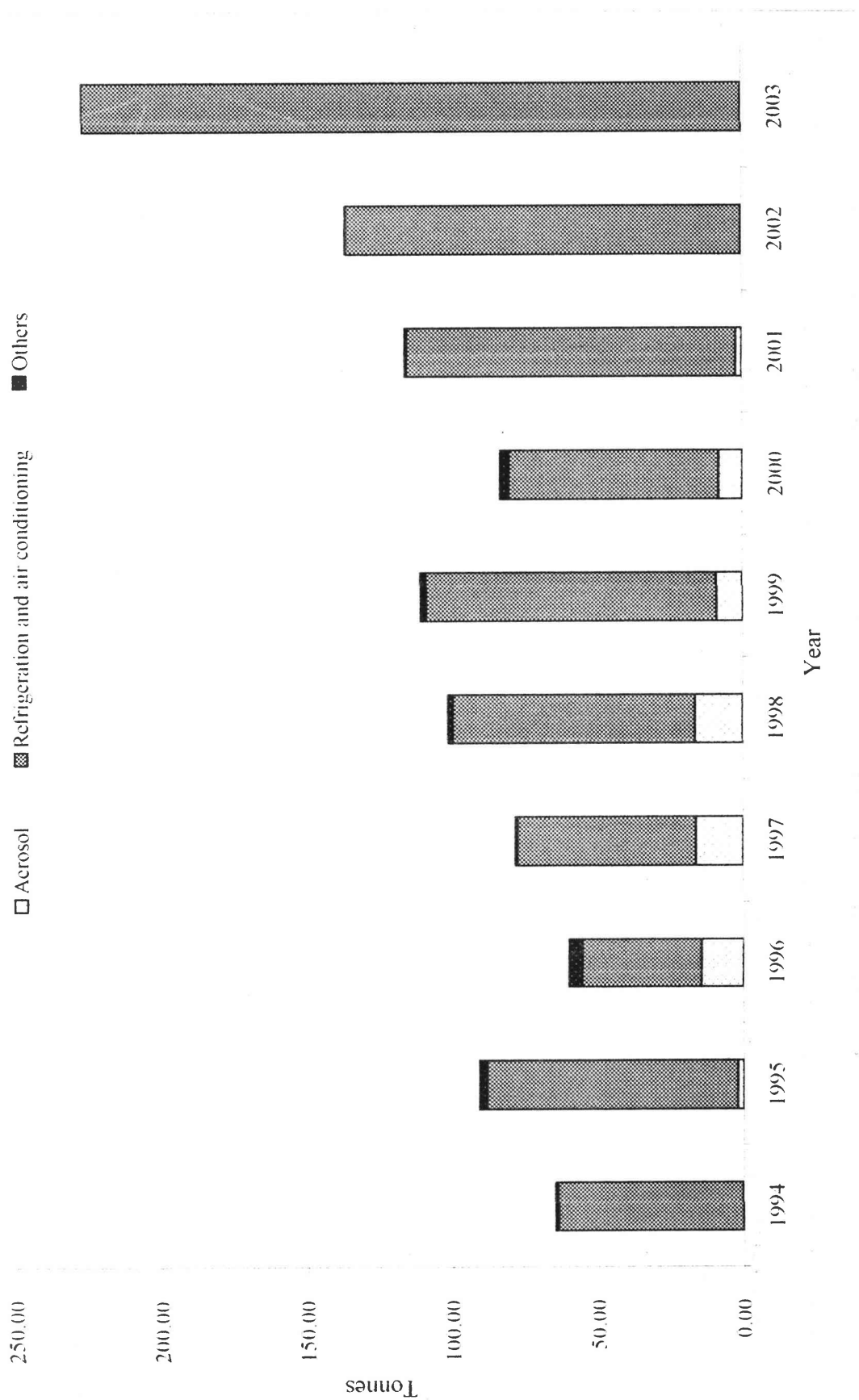
<sup>2</sup> Non - methane volatile organic compound

Table 3.9 - Consumption of controlled ozone - depleting substances by sector, 1994 - 2003

Sector	Metric tonnes									
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Acrosol	...	2.00	14.24	16.00	16.19	8.90	8.00	2.00	-	-
Foam	...	0.45	0.40	0.16	-	0.06	...	...	-	-
Fire fighting	0.06	-	-	-	-	-	-	-	-	-
Refrigeration and air conditioning	63.80	86.28	41.12	61.58	83.33	99.98	72.22	113.20	136.30	226.80
Solvent	0.91	2.17	4.18	0.04	1.12	1.09	3.15	0.01	0.02	0.03
Methyl bromide use	...	-	0.03	0.60	0.70	0.70	...	0.70	-	-
Tobacco fluffing	...	-	-	0.04	-	-	...	...	-	-
Total	64.77	90.90	59.97	78.42	101.34	110.73	83.37	115.91	136.32	226.83

Source : Ministry of Environment and National Development Unit.

**Fig. 9 - Consumption of ozone - depleting substances by sector, 1994 - 2003**

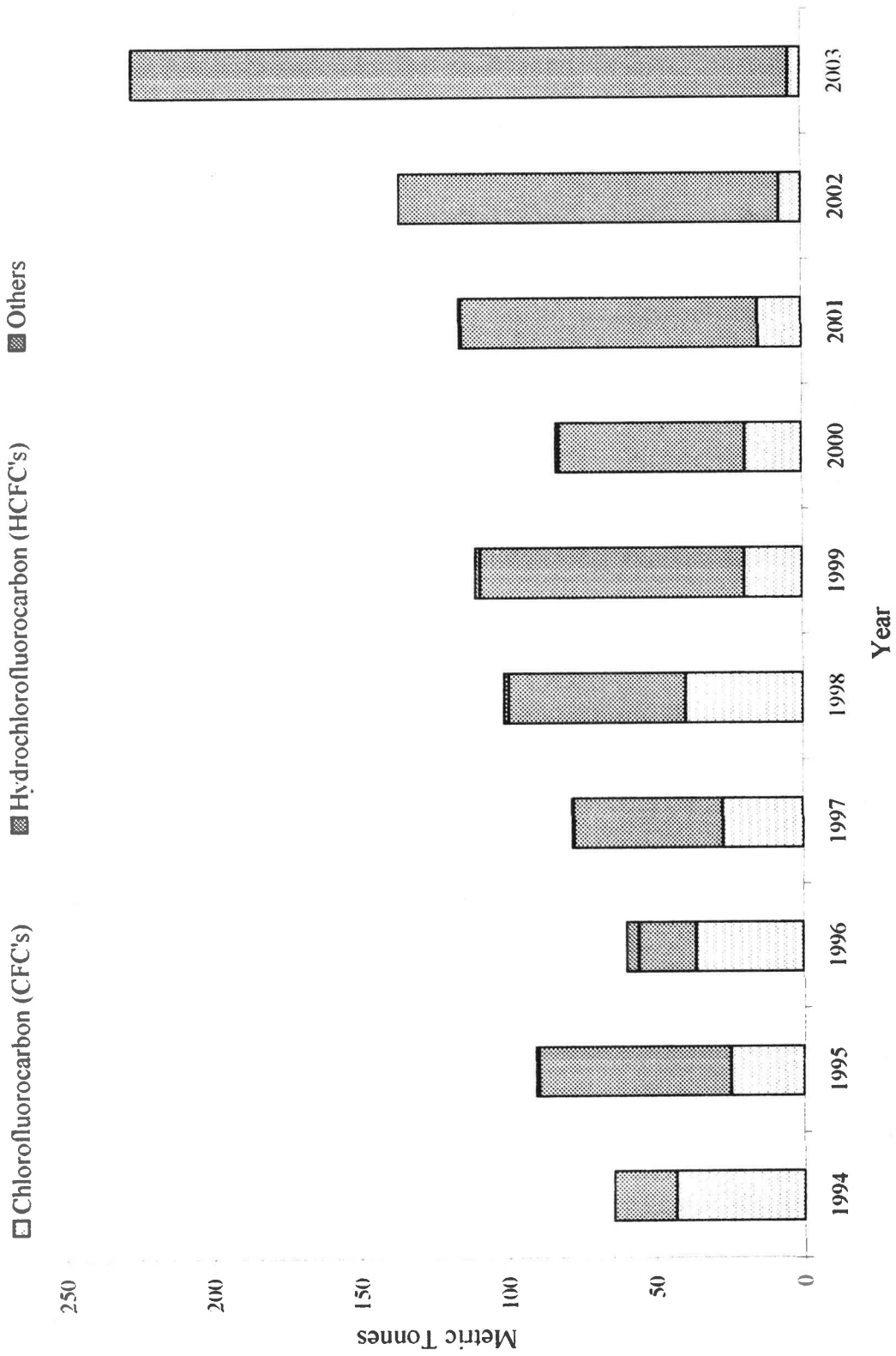


**Table 3.10 - Consumption of controlled ozone - depleting substances by type of substances, 1994 - 2003**

Type of substances	Metric Tonnes									
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Chlorofluorocarbon (CFC's)	43.44	24.75	36.26	27.12	39.69	19.47	19.26	14.71	7.40	4.07
Halons	0.06	-	-	-	-	-	-	-	-	-
Carbon tetrachloride	0.02	0.08	0.04	0.01	0.02	0.01	0.01	0.01	0.02	0.03
Methyl chloroform	0.08	0.89	4.14	0.03	1.10	1.01	1.10	-	-	-
Hydrochlorofluorocarbon (HCFC's)	21.18	65.18	19.50	50.66	59.83	89.54	63.00	100.49	128.90	222.73
Methyl bromide	...	-	0.03	0.60	0.70	0.70	...	0.70	-	-
<b>Total</b>	<b>64.77</b>	<b>90.90</b>	<b>59.97</b>	<b>78.42</b>	<b>101.34</b>	<b>110.73</b>	<b>83.37</b>	<b>115.91</b>	<b>136.32</b>	<b>226.83</b>

Source : Ministry of Environment and National Development Unit.

**Fig. 10 - Consumption of controlled ozone - depleting substances by type of substances, 1994 - 2003**



**Table 3.11 - Health services ( as at 31st December ) Republic of Mauritius, 1994 - 2003**

	Number										
	1994	1995	1996	1997	1998	1999	2000	2001	2002 <sup>1</sup>	2003 <sup>2</sup>	
Hospitals											
Regional hospitals	4	4	4	4	5	5	5	5	5	5	
District hospitals	5	5	5	5	4	4	4	4	3	3	
Specialised hospitals (Psychiatric, chest, eye and ENT) <sup>3</sup>	4	4	4	4	4	4	4	4	4	4	
Cardiac Centre	1	-	-	-	1	1	1	1	1	1	
Medicines	-	-	-	-	2	2	2	2	2	2	
Area health centres <sup>4</sup>	29	29	29	29	27	27	27	27	26	26	
Health centres with beds ( Island of Rodrigues )	2	2	2	2	2	2	2	2	2	2	
Community health centres <sup>4</sup>	116	117	118	119	120	121	121	121	122	123	
Family health service centres <sup>5</sup>	9	9	9	9	9	9	9	6	5	5	
Dispensaries											
Private dispensaries on sugar estates	25	26	26	26	26	24	23	20	19	18	
Mobile dispensaries	5	4	3	2	2	1	1	1	1	1	
Clinics											
Dental (including oral surgery and orthodontics)	35	36	36	37	38	41	40	41	43	44	
Social hygiene	1	1	1	1	1	1	1	1	1	1	
Private	9	11	12	12	12	13	13	14	12	12	
Public mobile	1	1	1	1	-	-	-	-	-	-	
Public mobile dental	2	2	2	2	2	1	1	1	1	1	
Health offices	14	14	14	14	14	14	14	14	14	14	

<sup>1</sup> Provisional

<sup>2</sup> The ENT centre is administratively attached to Victoria Hospital

<sup>3</sup> Including Dr. Y. Canim and Mahebourg Community Hospitals

<sup>4</sup> Centres providing maternal and child health and family planning services only

**Table 3.12 - Respiratory diseases registered in government hospitals, 1993 - 2002**

Detail	Number									
	1993	1994	1995	1996	1997	1998	1999	2000	2001	2002
Both sexes										
General hospital discharges <sup>1</sup> ( including deaths )	8,339	8,922	9,961	9,793	9,749	10,637	12,473	12,021	9,788	10,442
First attendances <sup>1</sup> at regional health centres	199,329	197,935	241,047	241,974	278,699	316,559	364,556	406,752	382,557	...
Discharges ( including deaths ) at P D'Or chest hospital	277	230	278	211	340	394	448	488	412	530
New cases diagnosed at specialist clinics in chest diseases	520	589	570	867	1,097	1,167	1,393	1,667	1,753	1,330
Male										
General hospital discharges <sup>1</sup> ( including deaths )	4,246	4,462	5,075	5,136	5,066	5,614	6,408	6,255	5,088	5,337
First attendances <sup>1</sup> at regional health centres	92,912	92,215	111,222	113,784	131,228	151,076	175,504	197,363	184,994	...
Discharges ( including deaths ) at P D'Or chest hospital	191	171	198	143	244	259	319	352	289	391
New cases diagnosed at specialist clinics in chest diseases	330	328	342	514	673	715	841	955	962	766
Female										
General hospital discharges <sup>1</sup> ( including deaths )	4,093	4,460	4,886	4,657	4,683	5,023	6,065	5,766	4,700	5,105
First attendances <sup>1</sup> at regional health centres	106,417	105,720	129,825	128,190	147,471	165,483	189,052	209,389	197,563	...
Discharges ( including deaths ) at P D'Or chest hospital	86	59	80	68	96	135	129	136	123	139
New cases diagnosed at specialist clinics in chest diseases	190	261	228	353	424	452	552	712	791	564

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

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

**Table 3.13 - Cases of asthma treated as in - patients in government hospitals, 1996 - 2002**

Year	In - Patients		
	Male	Female	Total
1996	1,814	1,876	3,690
1997	1,726	1,787	3,513
1998	1,730	1,657	3,387
1999	2,005	1,994	3,999
2000	1,794	1,893	3,687
2001	1,565	1,616	3,181
2002	1,573	1,667	3,240

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

**Table 3.14 - Deaths registered due to asthma, 1996 - 2002**

Year	Deaths		
	Male	Female	Total
1996	68	54	122
1997	69	50	119
1998	98	61	159
1999	80	70	150
2000	94	68	162
2001	74	94	168
2002	105	61	166

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



**Table 3.15 - Cases of asthma treated as in - patients in government hospitals by age group and sex, 2002**

Age group ( years )	Number of cases		
	Male	Female	Total
Less than one year	18	11	29
1 - 4	173	92	265
5 - 9	133	94	227
10 - 14	83	62	145
15 - 19	38	35	73
20 - 24	38	41	79
25 - 29	32	37	69
30 - 34	52	60	112
35 - 39	45	77	122
40 - 44	70	78	148
45 - 49	81	125	206
50 - 54	102	156	258
55 - 59	94	128	222
60 - 64	84	114	198
65 - 69	124	129	253
70 - 74	176	134	310
75 - 79	118	155	273
80 - 84	75	87	162
85 and over	37	52	89
Total	1,573	1,667	3,240

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

**Table 3.16 - Deaths registered due to asthma by age group and sex, 2002**

Age group ( years )	Number of cases		
	Male	Female	Total
Less than one year	-	-	-
1 - 4	-	-	-
5 - 9	-	-	-
10 - 14	-	1	1
15 - 19	-	-	-
20 - 24	-	1	1
25 - 29	2	-	2
30 - 34	-	-	-
35 - 39	3	4	7
40 - 44	4	2	6
45 - 49	3	4	7
50 - 54	7	2	9
55 - 59	9	3	12
60 - 64	6	4	10
65 - 69	13	4	17
70 - 74	18	5	23
75 - 79	16	8	24
80 - 84	12	7	19
85 and over	12	16	28
Total	105	61	166

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

**Table 3.17 - 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, 1994 - 2003

Millimetres

MONTH	YEAR											
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003		
January	Mean 171.4 - 105.9	306.2 + 29.0	243.6 - 33.6	264.1 - 13.6	144.4 - 132.9	53.9 - 223.3	393.5 + 115.3	278.6 + 0.3	573.1 + 295.0	118.4 - 159.7		
February	Mean 318.7 + 21.9	242.8 - 53.8	160.6 - 136.8	157.4 - 139.4	592.2 + 295.4	168.7 - 128.1	313.4 + 15.7	205.1 - 92.7	99.0 - 198.7	331.3 + 33.5		
March	Mean 239.9 - 2.1	429.3 + 201.8	119.6 - 123.2	78.3 - 163.8	162.8 - 79.4	125.5 - 116.5	166.2 - 76.9	155.8 - 87.3	224.0 - 19.1	207.3 - 36.0		
April	Mean 167.4 - 59.3	121.6 + 105.5	187.9 - 39.4	284.1 + 57.3	115.0 - 111.7	79.0 - 147.7	186.1 - 41.7	329.9 102.0	135.4 - 92.5	444.8 + 216.8		
May	Mean 105.7 - 44.5	343.9 + 191.1	64.8 - 85.6	188.4 + 38.3	162.6 + 10.3	70.0 - 80.2	95.8 - 56.5	95.3 - 55.9	141.1 - 10.1	191.0 + 39.8		
June	Mean 62.3 - 54.8	76.6 - 40.6	83.1 - 34.1	107.5 - 9.7	62.7 - 54.4	83.5 - 33.7	105.1 - 12.7	79.1 - 38.7	127.6 + 9.9	117.4 - 1.4		
July	Mean 96.3 - 23.0	114.9 - 17.7	111.7 - 7.2	119.5 + 0.2	141.0 + 20.7	152.5 + 33.2	117.1 - 3.1	93.3 - 26.9	139.9 + 19.7	175.2 + 55.0		
August	Mean 129.1 + 20.8	126.6 + 18.2	57.3 - 50.9	62.7 - 45.7	85.7 - 22.7	96.5 - 9.6	149.2 + 40.2	74.1 - 35.1	111.9 + 2.8	92.4 - 16.7		
September	Mean 57.4 - 17.4	86.5 + 11.6	26.9 - 47.9	83.7 + 8.9	78.9 + 4.1	82.9 + 8.1	43.7 - 31.6	71.9 - 3.4	37.1 - 38.2	130.4 + 55.0		
October	Mean 29.8 - 42.8	24.4 - 44.0	75.5 - 2.9	65.8 - 6.9	62.5 - 10.2	40.7 - 32.0	71.3 - 1.9	83.8 10.7	60.4 - 12.8	29.7 - 43.5		
November	Mean 69.6 - 24.2	51.3 - 42.8	25.8 - 67.9	57.4 - 36.3	31.3 - 62.4	29.1 - 59.8	81.5 - 12.9	33.2 - 61.1	34.4 - 60.0	81.1 + 1.8		
December	Mean 66.8 - 147.9	510.2 + 295.5	409.0 + 194.3	220.8 + 6.2	37.7 - 179.4	120.1 - 95.5	75.2 - 140.4	153.3 - 62.3	222.4 + 6.8	54.0 - 139.1		
Total Year	Mean 1,514.4 - 479.2	2,434.3 + 653.8	1,565.8 - 429.4	1,689.7 - 304.5	1,676.8 - 322.6	1,102.4 - 885.1	1,798.1 - 206.5	1,653.4 - 350.4	1,906.3 - 97.2	1,973.0 + 5.5		

Fig 11 - Rainfall difference from normal, 2003

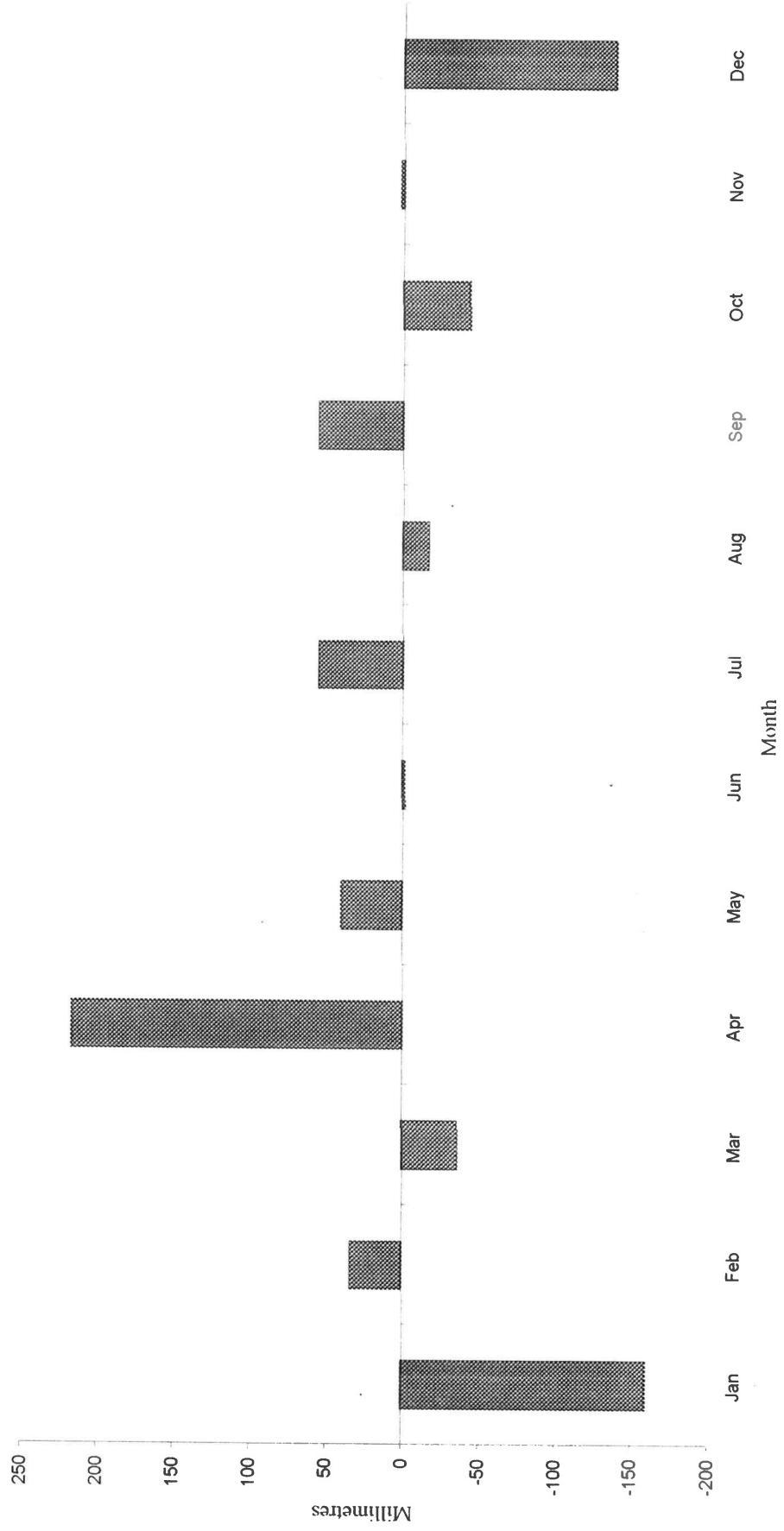


Table 4.2 - Yearly rainfall by region, 1994 - 2003

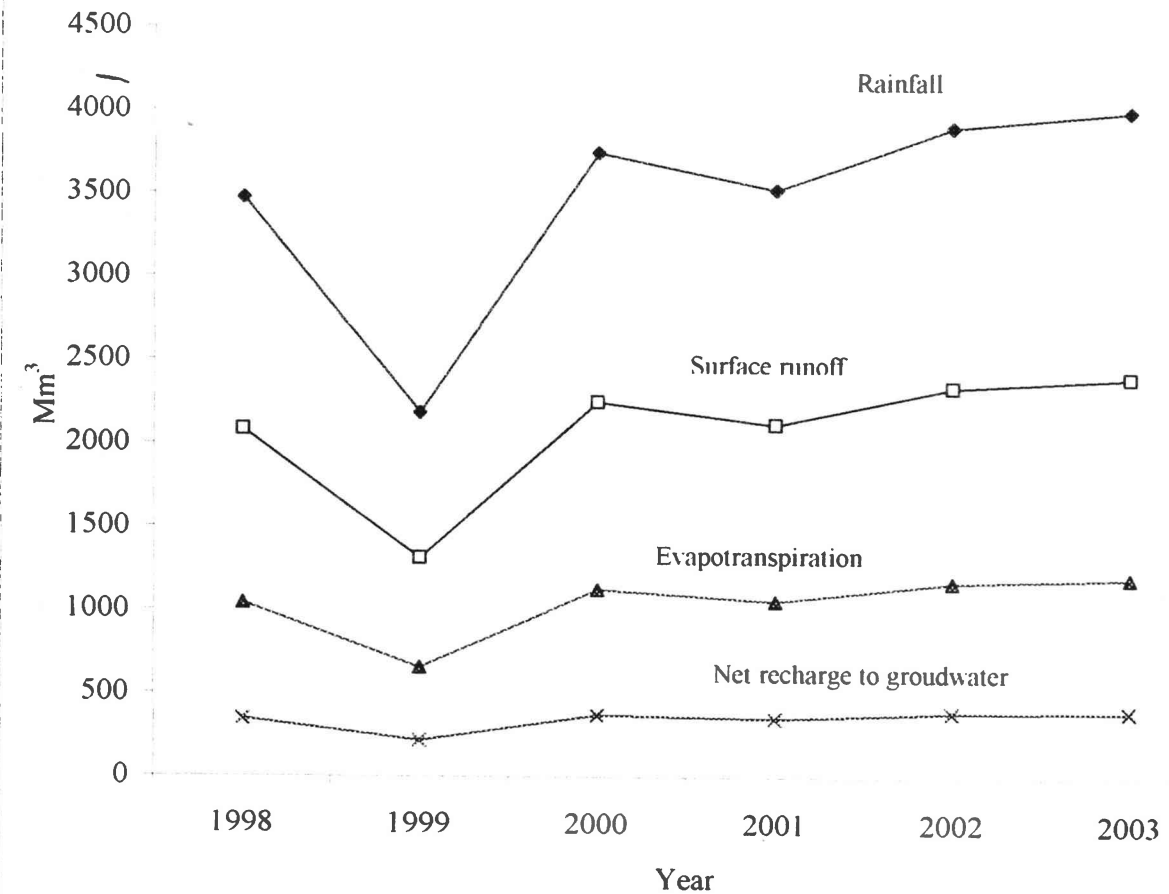
Millimetres

REGION	YEAR									
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
North	Mean	1,621.4	1,018.9	1,045.2	1,097.7	601.3	1,043.6	1,019.6	1,040.0	1,201.3
	<i>Difference from Normal</i>	-463.4	-400.8	-366.3	-330.7	-808.6	-366.7	-390.6	-370.2	-178.8
South	Mean	1,854.1	2,705.9	1,774.7	2,160.8	2,142.3	2,055.2	2,124.0	2,314.0	2,285.4
	<i>Difference from Normal</i>	-520.1	-344.6	-599.2	-213.1	-231.8	-318.8	-250.4	-60.4	-56.3
East	Mean	1,829.3	3,110.7	2,020.8	2,116.0	2,045.3	2,386.8	1,993.8	2,303.9	2,622.4
	<i>Difference from Normal</i>	-578.2	-693.5	-386.4	-291.7	-366.3	-20.6	-423.9	-113.8	-259.5
West	Mean	766.3	1,138.6	623.6	669.2	628.6	908.4	799.3	1,357.7	978.3
	<i>Difference from Normal</i>	-122.0	-252.1	-264.8	-219.1	-259.9	202.2	-89.5	-468.9	-119.5
Centre	Mean	1,677.0	2,920.9	1,878.0	1,599.4	1,605.3	2,006.5	1,536.1	2,105.6	1,995.7
	<i>Difference from Normal</i>	-435.1	-805.8	-233.9	-512.7	-507.8	-115.9	-576.2	6.7	-61.4
Island	Mean	1,514.4	2,434.3	1,565.8	1,689.7	1,676.8	1,798.1	1,653.4	1,906.3	1,973.2
	<i>Difference from Normal</i>	+479.2	+653.8	-429.4	-304.5	-322.6	-206.5	-350.4	+97.5	+5.8

Source : Meteorological Services

**Table 4.3 - Water balance , 1998 - 2003**

	Unit	1998	1999	2000	2001	2002	2003 <sup>1</sup>
Rainfall	Mm <sup>3</sup>	3.473	2.184	3.749	3.527	3.905	4.006
Surface runoff	Mm <sup>3</sup>	2.084	1.311	2.249	2.116	2.343	2.403
Evapotranspiration	Mm <sup>3</sup>	1.042	655	1.125	1.058	1.171	1.202
Net recharge to groundwater	Mm <sup>3</sup>	347	218	375	353	391	401

<sup>1</sup> Provisional**Fig 12 -Water balance , 1998 - 2003**

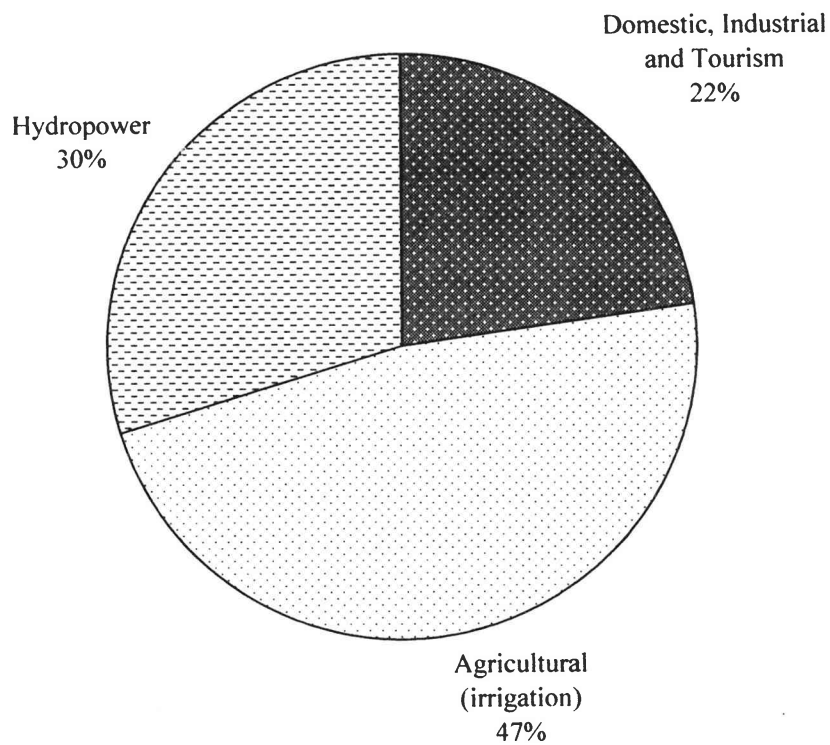


**Table 4.4 - Water utilisation <sup>1</sup>, 2003.**

Million cubic metres

Use	Surface water		Ground water	Total
	River-run offtakes	Storage		
Domestic, Industrial and Tourism	38	72	124	234
of which, private boreholes	–	–	10	10
Agricultural (irrigation)	370	97	24	491
Hydropower	131	174	–	305
Total	539	343	148	1,030

Source: Water Resources Unit, Ministry of Public Utilities

<sup>1</sup> Estimates**Fig. 13 - Water utilisation, 2003**

**Table 4.5 - Fresh water abstractions<sup>1</sup> by source, 1994 - 2003<sup>2</sup>**

Source	Million cubic metres									
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003 <sup>3</sup>
Surface water	512	525	515	506	508	405	536	515	524	552
Reservoirs	115	129	125	115	119	61	147	125	128	169
Rivers and streams	397	396	390	391	389	344	389	390	396	383
Ground water	117	125	115	114	131	111	145	145	148	148
Total	629	650	630	620	639	516	681	660	672	700

Source: Water Resources Unit, Ministry of 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)

<sup>3</sup> Estimates

Table 4.6 - Characteristics of major reservoirs

Name of reservoir	Mare aux Vacoas	Nicoliere	Piton du Milieu	Mare Longue	La Ferme	Tamarind Falls	Eau Bleue	Diamamove	Midlands Dam
Purpose	Potable	Potable and irrigation	Potable	Hydro - power and irrigation	Irrigation	Hydro - power and irrigation	Hydro - power	Hydro - power	Potable and irrigation
Total capacity (Mm <sup>3</sup> )	25.89	5.26	2.99	6.28	11.52	2.30	6.20	4.40	25.50
Full reservoir level - m (a.m.s.l) <sup>1</sup>	566.35	249.02	438.00	500.00	146.00	495.00	357.00	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 Public Utilities

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

**Table 4.7 - Gross storage capacity of reservoirs**

Million cubic metres	
Reservoir	Gross capacity
Mare aux Vacoas <sup>1</sup>	25.9
Mare Longue	6.3
La Ferme <sup>1</sup>	11.5
Piton du Milieu <sup>1</sup>	3.0
La Nicoliere <sup>1</sup>	5.3
Tamarind Falls	2.3
Eau Bleue	6.2
Diamamove	4.4
Dagotiere	0.6
Valetta	2.0
Midlands Dam	25.5
Total Storage Capacity	93.0

Source: Water Resources Unit, Ministry of Public Utilities

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

Table 4.8 - Percentage water level by month and reservoir - 2003

Month	Mare aux Vacoas		La Nicoliere		Piton du Milieu		La Ferme		Mare Longue		Midlands Dam		All reservoirs (excl Midlands Dam)	
	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>	
	Avean	Max	Avean	Max	Avean	Max	Avean	Max	Avean	Max	Avean	Max	Avean	Max
Jan	69	73	40	44	69	74	10	11	21	22	24	31	47	49
Feb	77	85	68	93	90	100	16	29	33	47	49	63	58	70
Mar	84	86	93	100	99	100	36	43	52	57	70	78	71	74
Apr	88	91	100	100	100	100	62	92	65	74	90	100	81	91
May	97	99	98	100	100	100	100	100	96	100	100	100	97	99
Jun	94	95	67	88	97	99	99	100	99	100	100	100	93	96
Jul	97	98	55	96	99	100	97	100	100	100	99	100	93	98
Aug	97	98	79	100	99	100	99	100	99	100	100	100	96	99
Sep	97	98	48	82	97	100	96	98	99	100	100	100	92	95
Oct	93	97	69	92	89	97	86	93	96	99	94	99	89	94
Nov	83	88	75	91	70	79	71	79	63	84	81	83	76	85
Dec	72	78	69	88	54	64	54	62	21	42	69	74	60	70

**Table 4.9 - Average monthly potable water production from treatment plants and boreholes to distribution systems, 2003**

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	2.9	0.5	3.4	-	2.2	2.2	1.7	0.9	2.6	1.6	1.8	3.4	0.8	1.3	2.1	0.7	1.2	1.9	7.6	8.0	15.6	49	51
Feb	2.6	0.5	3.1	-	2.1	2.1	1.5	0.9	2.4	1.5	1.5	3.0	0.7	1.2	1.9	0.7	1.1	1.8	6.9	7.3	14.2	49	51
Mar	2.9	0.5	3.4	-	2.5	2.5	1.7	1.1	2.8	1.5	1.8	3.3	0.7	1.2	1.9	0.8	1.2	2.0	7.6	8.3	15.9	48	52
Apr	2.8	0.5	3.3	-	2.4	2.4	1.6	1.1	2.7	1.5	1.7	3.2	0.7	1.2	1.9	0.8	1.2	2.0	7.4	8.1	15.5	48	52
May	2.8	0.6	3.4	-	2.6	2.6	1.2	1.1	2.3	1.7	1.7	3.4	0.7	1.2	1.9	0.8	1.2	2.0	7.2	8.4	15.6	46	54
Jun	2.8	0.5	3.3	-	2.5	2.5	1.6	1.0	2.6	1.5	1.7	3.2	0.7	1.2	1.9	0.8	1.2	2.0	7.4	8.0	15.4	48	52
Jul	2.9	0.5	3.4	-	2.5	2.5	1.7	0.9	2.6	1.5	1.8	3.3	0.7	1.2	1.9	0.8	1.2	2.0	7.6	8.1	15.7	49	51
Aug	2.8	0.5	3.3	-	2.5	2.5	1.9	0.9	2.8	1.6	1.8	3.4	0.7	1.2	1.9	0.8	1.2	2.0	7.8	8.0	15.8	49	51
Sep	2.7	0.5	3.2	-	2.4	2.4	1.7	1.0	2.7	1.5	1.8	3.3	0.7	1.2	1.9	0.8	1.1	1.9	7.3	8.0	15.3	48	52
Oct	2.7	0.5	3.2	-	2.4	2.4	1.6	0.9	2.5	1.5	1.7	3.2	0.7	1.2	1.9	0.8	1.1	1.9	7.3	7.8	15.1	48	52
Nov	2.7	0.5	3.2	-	2.2	2.2	1.6	0.9	2.5	1.5	1.7	3.2	0.7	1.2	1.9	0.7	1.1	1.8	7.3	7.7	15.0	49	51
Dec	2.8	0.5	3.3	-	2.2	2.2	1.6	0.9	2.5	1.6	1.7	3.3	0.6	1.3	1.9	0.7	1.2	1.9	7.3	7.7	15.0	49	51
Total year	33.4	6.1	39.5	0.0	28.5	28.5	19.4	11.6	31.0	18.5	20.7	39.2	8.4	14.6	23.0	9.2	14.0	23.2	88.7	95.4	184.1	48	52

Table 4.10 - Water sales by type of tariff of subscribers , 1999 - 2003

Type of tariff	1999		2000		2001		2002		2003	
	No. of subscribers	Volume (Mm <sup>3</sup> )	No. of subscribers	Volume (Mm <sup>3</sup> )	No. of subscribers	Volume (Mm <sup>3</sup> )	No. of subscribers	Volume (Mm <sup>3</sup> )	No. of subscribers	Volume (Mm <sup>3</sup> )
Domestic	223,572	62,003	231,425	65,254	237,524	67,054	243,689	67,618	250,752	70,253
Commercial	9,330	4,594	9,176	4,833	9,237	5,034	9,233	5,186	9,455	5,573
Government	3,322	3,264	3,368	3,457	3,474	3,789	3,538	4,026	3,614	4,228
Agriculture and Livestock Producers	1,633	973	1,743	887	1,831	946	2,009	1,023	2,164	1,103
Industrial	782	4,327	782	4,603	781	4,679	766	4,727	762	4,988
Hotels , Guest houses	178	3,093	182	3,324	187	3,624	191	3,492	192	3,644
Acquired/concessionary prizes	49	75	51	70	47	20	48	21	48	23
Total Potable water	238,866	78,329	246,727	82,428	253,081	85,146	259,474	86,093	266,987	89,812
Total non - treated water	220	12,591	228	13,438	228	16,664	231	14,693	253	13,993
TOTAL	239,086	90,920	246,955	95,866	253,309	101,810	259,705	100,786	267,240	103,805

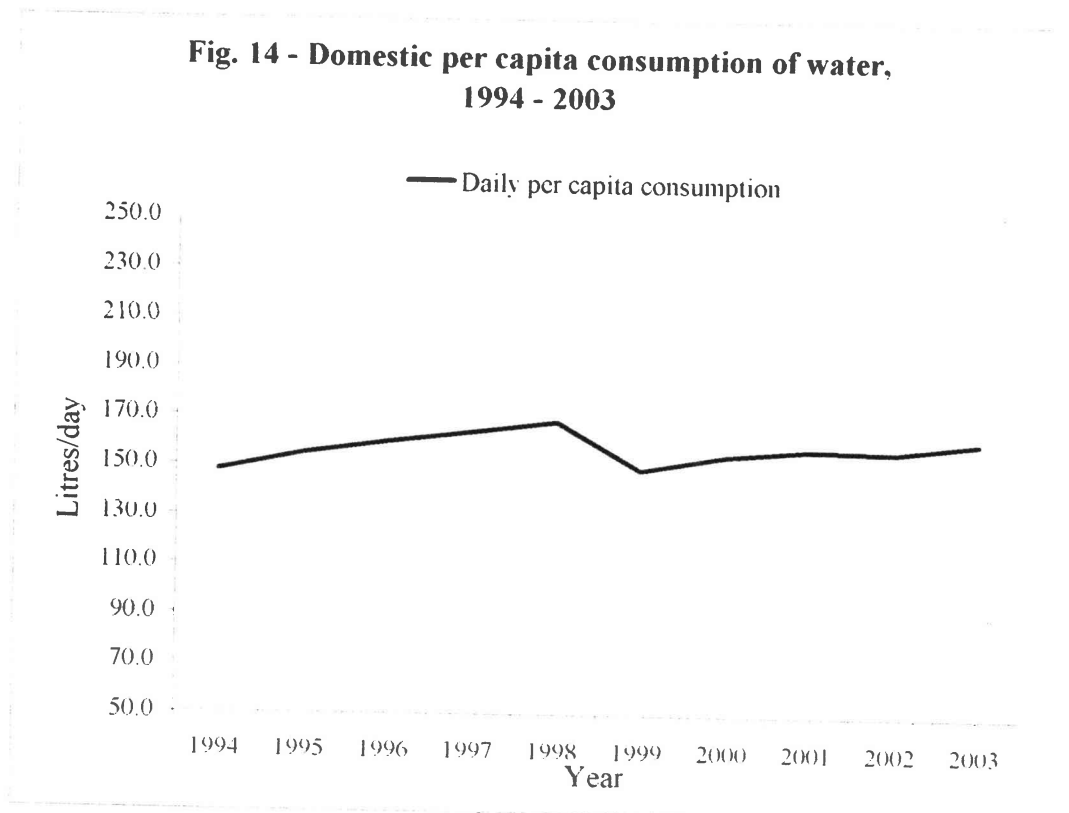
**Table 4.11 - Domestic per capita consumption of water <sup>1</sup>, 1994 - 2003**

Year	Daily per capita consumption
1994	148.0
1995	154.8
1996	159.7
1997	163.8
1998	168.4
1999	149.0
2000	154.9
2001	157.8
2002	157.0
2003 <sup>2</sup>	161.0

Source: Central Water Authority

<sup>1</sup> Potable water

<sup>2</sup> Provisional estimate

**Fig. 14 - Domestic per capita consumption of water, 1994 - 2003**

Note : The fall in consumption in 1999 is due to an unusually severe drought .



**Table 4.12 - Volume of water used by the CEB for hydropower generation, 1994 - 2003**

Power station	Million cubic metres									
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Champagne	64	116	83	67	70	23	69	56	71	108
Ferney	84	131	104	106	111	39	102	80	81	119
Tamarind Falls	29	39	34	29	40	9	34	25	31	34
Le Val	1	23	14	14	15	1	16	4	9	15
Reduit	18	37	28	23	18	1	17	11	19	30
Cascade Cecille	4	20	16	20	22	8	19	16	19	21
Magenta	21	28	25	19	27	6	23	14	17	17
La Ferme	1	7	8	6	7	-	5	1	4	-
<b>Total</b>	<b>222</b>	<b>401</b>	<b>312</b>	<b>284</b>	<b>310</b>	<b>87</b>	<b>285</b>	<b>207</b>	<b>251</b>	<b>344</b>

Source: Central Electricity Board

**Table 4.13 - Guidelines for inland surface water<sup>1</sup> quality**

Parameters	Unit	Maximum Limits
<b>Inorganics</b>		
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
<b>Organics</b>		
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 National Development Unit.

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

<sup>2</sup> Lower limit at 25° C.

**Table 4.14 - River water quality by selected physico-chemical parameters for Grand River South East (GRSE) and Grand River North West (GRNW), Jan - Nov 2002**

Parameters	Unit	GRNW A	GRNW B	GRNW C	GRNW D	GRSE A	GRSE B	GRSE C	GRSE D
		Wooton	Cinq Arpents	Coromandel	GRNW Old Bridge	La Chartreuse	Kewal Nagar	La Nourrice	Beau Champ
Temperature	°C	19 - 22 7.0 - 7.3	19 - 25 6.8 - 7.2	20 - 26 7.7 - 8.1	21 - 28 7.6 - 8.4	19 - 24 7.2 - 7.4	21 - 28 6.9 - 7.3	22 - 26 7.7 - 7.8	22 - 28 6.3 - 7.9
Conductivity	mS/cm	0.11 - 0.15	0.11 - 0.13	0.20 - 0.28	0.20 - 0.30	0.10 - 0.16	0.10 - 0.14	0.15 - 0.19	0.14 - 0.18
Total Dissolved Solids	g/l	0.05 - 0.08	0.05 - 0.07	0.10 - 0.14	0.10 - 0.15	0.05 - 0.08	0.05 - 0.07	0.07 - 0.10	0.07 - 0.09
Dissolved Oxygen	mg/l	7.0 - 8.2	6.1 - 8.4	7.0 - 8.7	6.9 - 9.0	6.6 - 8.5	5.5 - 8.1	7.4 - 8.4	6.7 - 8.8
Turbidity	NTU	0.5 - 2.9	1.6 - 4.6	0.6 - 3.6	0.4 - 2.9	1.3 - 6.2	2.5 - 22.0	1.5 - 4.1	1.4 - 14.0
Chemical Oxygen Demand	mg/l	5 - 95	3 - 30	3 - 40	3 - 38	1 - 20	2 - 19	4 - 99	3 - 21
Fluoride	mg/l	-	-	-	-	-	-	-	-
Chloride	mg/l	14.6 - 49.8	13.6 - 64.0	17.0 - 75.0	17.2 - 29.2	10.9 - 15.7	14.0 - 18.4	14.9 - 20.5	14.8 - 19.4
Nitrate (N)	mg/l	0.3 - 3.7	0.4 - 5.1	0.7 - 11.3	1.3 - 11.0	0.2 - 3.5	0.5 - 3.6	1.1 - 11.9	1.2 - 7.3
Phosphate(P)	mg/l	0.01 - 0.02	0.01 - 0.02	0.01 - 0.02	0.01 - 0.02	0.01 - 0.02	0.01 - 0.03	0.01 - 0.02	0.01 - 0.02
Sulphate	mg/l	0.5 - 8.2	0.8 - 6.2	7.7 - 19.6	7.9 - 16.8	0.8 - 4.9	1.1 - 4.2	0.8 - 4.6	1.1 - 4.7

Source : National Environmental Laboratory, Ministry of Environment and National Development Unit.

**Table 4.15 - Range of levels of Nitrate-Nitrogen, Phosphate and COD for selected regions, 2003.**

Milligram per litre

Region	Chemical water quality parameter		
	Nitrate-Nitrogen (NO <sub>3</sub> <sup>-</sup> - N)	Phosphate (PO <sub>4</sub> <sup>3-</sup> )	Chemical Oxygen Demand (COD)
Ile aux Benitier	< 0.1	< 0.01 - 0.02	0.1 - 0.5
Bel Ombre	< 0.1	< 0.01 - 0.08	0.1 - 1.5
Bambous Virieux	< 0.1	0.01 - 0.03	0.2 - 0.9
Trou D'Eau Douce	< 0.1	0.01 - 0.03	0.1 - 0.5
Anse la Raie	< 0.1	< 0.01 - 0.01	0.2 - 0.4
Trou aux Biches	< 0.1	< 0.01 - 0.01	0.2 - 0.8
Pointe aux Sables	< 0.1 - 0.1	< 0.01 - 0.08	0.1 - 1.4
Tombeau Bay	< 0.1 - 0.1	< 0.01 - 0.20	0.1 - 3.3
Port Louis Harbour	< 0.1 - 0.2	< 0.01 - 1.01	0.1 - 2.0

Source: Albion Fisheries Research Centre. Ministry of Fisheries.

**Table 4.16 - Volume of wastewater treated by public treatment stations, 1995 - 2003**

Million cubic metres

Station	1995	1996	1997	1998	1999	2000	2001	2002	2003
Fort Victoria	5.00	5.00	5.10	5.10	5.20	5.20	5.30	5.30	8.10
Baie du Tombeau	4.60	4.60	4.70	4.70	4.75	4.80	4.85	4.85	8.26
Pailles TP <sup>1</sup>	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.11
B. Marchand <sup>1</sup>	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.18	0.26
Riviere du Rempart <sup>1</sup>	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Borstal <sup>1</sup>	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04	0.04
Pte aux Sables	1.30	1.31	1.32	1.33	1.33	1.34	1.34	1.34	1.34
St. Martin	8.10	8.10	8.12	8.14	8.16	8.18	8.20	8.20	10.89
Kennedy <sup>2</sup>	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35	0.35
Robinson	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Vuillemin <sup>1</sup>	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.07
Flacq <sup>1</sup>	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Dubreuil <sup>3</sup>	0.10	0.10	0.10	0.13	0.13	0.13	0.13	0.13	1.22

Source : Wastewater Management Authority

<sup>1</sup> Serves CHA houses<sup>2</sup> Serves CHA houses and V. Hospital<sup>3</sup> Serves CHA + NHDC houses

**Table 4.17 - Water quality in coastal area - (Terre Rouge Rivulet Bird Sanctuary), 1997 - 2003**

Variable	Unit	1997	1998	1999	2000	2001	2002	2003
Chemical Oxygen Demand (COD)	mg O <sub>2</sub> /l	2.8	1.4	1.5	1.3	1.0	0.4	2.1
Total Phosphorus <sup>1</sup>	mg P/l	0.3	0.2	0.2	0.1	0.1	0.1	0.1
Total Nitrogen <sup>2</sup>	mg N/l	0.3	0.1	0.2	0.1	0.1	0	0

Source : Albion Fisheries Research Centre, Ministry of Fisheries

<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 4.18 - Number of cases of certain notifiable waterborne diseases reported to sanitary authorities, 1994 - 2003

Year	Disease	Amoebiasis	Food Poisoning	Infective Hepatitis	Leptospirosis	Malaria		Schistosomiasis	Typhoid Fever
						Indigenous	Imported		
1994		58	39	453	6	-	66	15	4
1995		2	57	38	4	-	45	-	2
1996		5	13	24	9	19	63	5	5
1997		-	35	10	4	1	63	2	1
1998		-	28	16	7	-	52	-	6
1999		1	73	24	1	-	73	-	2
2000		1	62	12	3	-	62	-	10
2001		8	23	41	3	-	62	-	1
2002		-	33	11	1	-	38	-	1
2003		-	60	20	3	-	40	-	2

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

Table 4.19 - Enteritis and other diarrhoeal diseases, 1993 - 2002

YEAR	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
1993	776	1,094	475	1,978	4,323	7	5	3	25	40
1994	721	1,111	449	2,238	4,519	8	2	-	15	25
1995	881	1,585	606	2,353	5,425	13	2	8	19	42
1996	760	1,506	583	2,514	5,363	11	3	1	9	24
1997	440	815	433	1,856	3,544	2	-	2	20	24
1998	751	1,366	557	2,061	4,735	5	-	-	8	13
1999	1,012	2,007	751	2,584	6,354	3	1	-	7	11
2000	961	1,872	666	3,167	6,666	3	2	-	13	18
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

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



Table 4.20 - Sea transport<sup>1</sup>, 1994- 2003

Period	Vessels entering		Vessels leaving		Goods	
	Number	Net registered tonnage (000t)	Number	Net registered tonnage (000t)	Unloaded (000t)	Loaded <sup>2</sup> (000t)
1994	1,279	5,500	1,275	5,550	2,419	834
1995	1,206	5,356	1,227	5,313	2,463	799
1996	1,300	4,999	1,284	5,140	2,753	966
1997	1,481	5,485	1,436	5,263	2,902	950
1998	1,782	5,925	1,810	5,924	3,129	1,033
1999	1,665	6,725	1,676	6,129	3,355	1,198
2000	1,658	6,387	1,633	6,087	3,677	1,514
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

<sup>1</sup> exclude fishing vessels berthed in Port Louis only.<sup>2</sup> exclude bunkers.

**Table 4.21 - Contraventions established by the National Coast Guard, 2003**

Month	Illegal removal of sand	Illegal fishing activities	Beach offences	Illegal pleasure craft activities	Miscellaneous	Total
January	-	7	7	82	53	149
February	-	5	6	44	26	81
March	-	14	6	86	67	173
April	-	5	1	50	50	106
May	-	2	2	37	33	74
June	-	10	-	35	35	80
July	-	6	1	41	21	69
August	-	2	2	41	46	91
September	-	-	-	26	40	66
October	-	3	10	73	37	123
November	1	3	5	63	24	96
December	-	2	3	72	26	103
Total	1	59	43	650	458	1,211

Source: Police Department

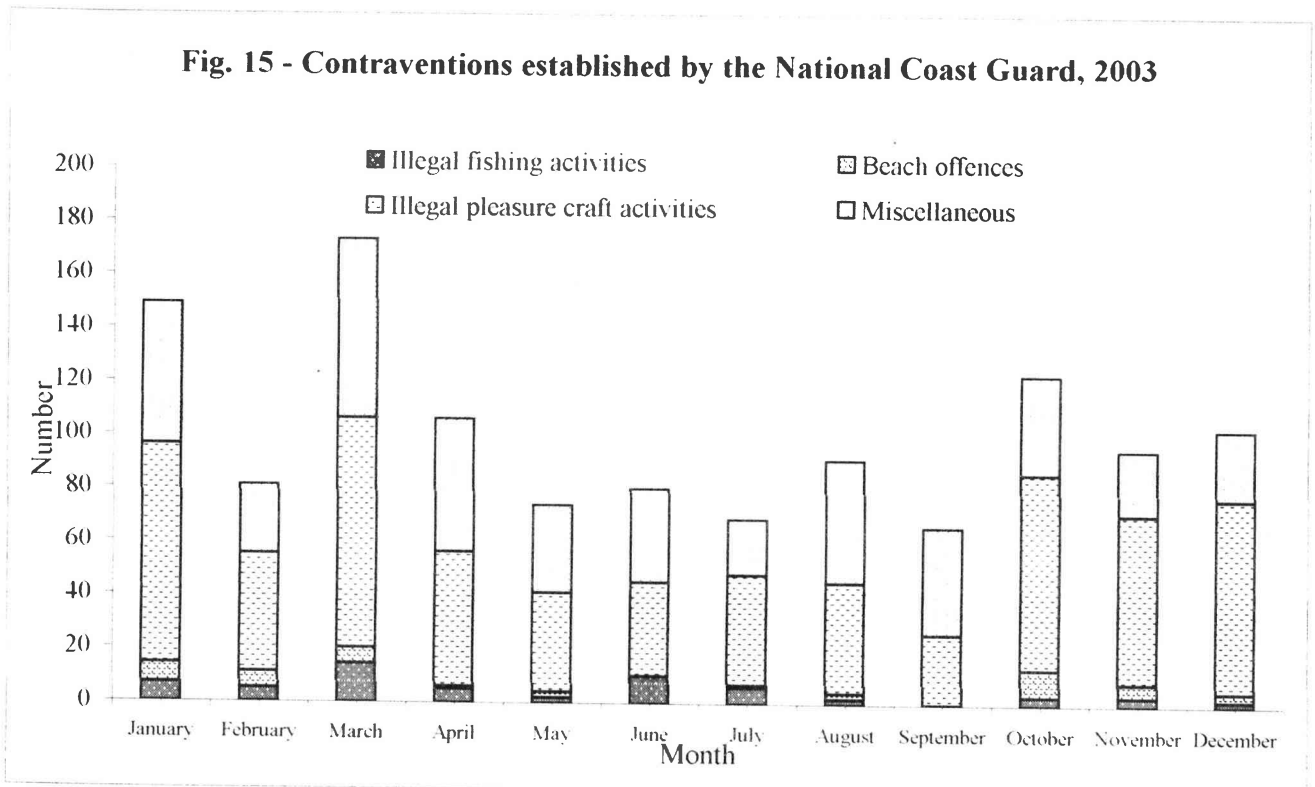
**Fig. 15 - Contraventions established by the National Coast Guard, 2003**

Table 4.22 - Mean sea surface temperature around the Island of Mauritius, 1994 - 2003

		Degrees celsius												Average for the year
		January	February	March	April	May	June	July	August	September	October	November	December	
1994 Mean		25.8	26.8	26.8	25.7	25.7	23.9	22.5	22.4	23.2	23.5	24.9	26.1	24.8
	<i>Difference from Normal</i>	-1.0	-0.4	-0.3	-0.6	0.5	-0.1	-0.6	-0.2	0.6	0.3	0.5	0.3	
1995 Mean		26.0	28.3	25.7	27.2	25.0	23.2	24.2	21.5	23.3	23.0	24.7	25.4	24.8
	<i>Difference from Normal</i>	-0.8	1.1	-1.4	0.9	-0.2	-0.8	1.1	-1.1	0.7	-0.2	0.3	-0.4	
1996 Mean		26.6	26.7	27.0	26.5	25.0	23.9	22.8	22.4	22.5	23.0	23.4	25.5	24.6
	<i>Difference from Normal</i>	-0.2	-0.5	-0.1	0.2	-0.2	-0.1	-0.3	-0.2	-0.1	-0.2	-1.0	-0.3	
1997 Mean		25.8	26.9	27.7	26.4	25.0	24.3	22.8	23.7	23.6	23.2	23.9	26.3	25.0
	<i>Difference from Normal</i>	-1.0	-0.3	0.6	0.1	-0.2	0.3	-0.3	1.1	1.0	0.0	-0.5	0.5	
1998 Mean		26.7	27.6	26.1	26.1	25.4	23.6	23.1	22.4	22.4	23.5	23.8	26.1	24.7
	<i>Difference from Normal</i>	-0.1	0.4	-1.0	-0.2	0.2	-0.4	0.0	-0.2	-0.2	0.3	-0.6	0.3	
1999 Mean		25.4	26.6	26.5	25.5	25.8	24.3	23.0	22.8	22.3	23.0	24.5	25.4	24.6
	<i>Difference from Normal</i>	-1.4	-0.6	-0.6	-0.8	0.6	0.3	-0.1	0.2	-0.3	-0.2	0.1	-0.4	
2000 Mean		26.3	26.6	26.7	26.0	24.8	24.2	22.9	22.4	22.6	23.2	23.9	24.8	24.5
	<i>Difference from Normal</i>	-0.5	-0.6	-0.4	-0.3	-0.4	0.2	-0.2	-0.2	0.0	0.0	-0.5	-1.0	
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	24.8
	<i>Difference from Normal</i>	-1.3	0.1	-0.5	0.3	0.1	-0.3	0.4	0.1	-0.1	0.0	-0.2	0.1	
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	25.5
	<i>Difference from Normal</i>	-0.5	0.4	1.0	0.0	1.0	0.2	0.8	0.0	1.4	1.5	0.7	1.4	
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	25.7
	<i>Difference from Normal</i>	0.9	0.9	0.8	0.9	1.3	1.4	0.8	0.5	0.8	0.7	1.1	0.9	
Mean 1971 -2000		26.8	27.2	27.1	26.3	25.2	24.0	23.1	22.6	22.6	23.2	24.4	25.8	

Source : Meteorological Services

**Table 4.23 - Percentage distribution of households by type of water supply and other amenities available, Republic of Mauritius, 1990 and 2000 Housing Censuses.**

Amenity available	Housing Censuses	
	1990 (%)	2000 (%)
I. Water supply		
(i) Piped water inside house	56.0	83.7
(ii) Piped water outside on premises	33.5	14.5
(iii) Public fountain, well, rivers, etc.	10.5	1.8
2. Availability of water tank / Reservoir	...	36.4
3. Bathroom		
(i) With running water	63.6	89.0
(ii) Without running water	30.9	10.0
(iii) None	5.5	1.0
4. Toilet		
(i) Flush toilet	62.8	88.8
(ii) Pit latrine	36.5	11.0
(iii) Other	0.7	0.2

# **CHAPTER 5**

## **LAND**



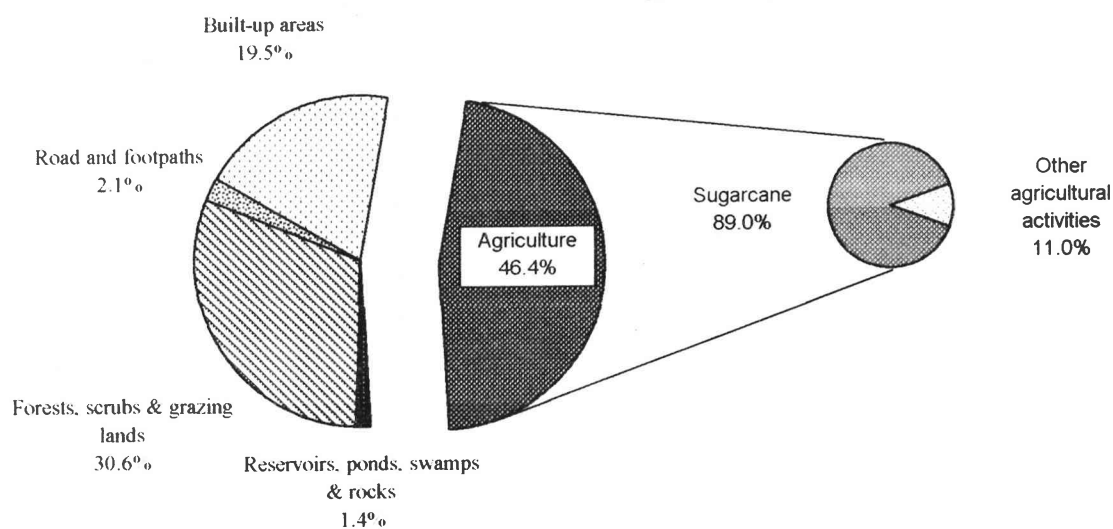
**Table 5.1 - Land use by category, 1986 and 1995**

	1986 <sup>1</sup>		1995 <sup>2</sup>		Change %
	Hectares	%	Hectares	%	
Agriculture	90,000	48.2	86,500	46.4	-1.8
Sugarcane	83,625	44.8	76,840	41.2	-3.6
Other agricultural activities	6,375	3.4	9,660	5.2	+1.8
Forests, scrubs & grazing lands	65,400	35.1	57,000	30.6	-4.5
Reservoirs, ponds, swamps & rocks	2,610	1.4	2,600	1.4	0.0
Road and footpaths	3,465	1.9	4,000	2.1	+0.2
Built-up areas	25,000	13.4	36,400	19.5	+6.1
<b>Total</b>	<b>186,475</b>	<b>100.0</b>	<b>186,500</b>	<b>100.0</b>	

<sup>1</sup> Source : Digest of Agricultural Statistics

<sup>2</sup> Source : Initial National Communication under the United Nations Framework Convention on Climate Change, April 1999

Note: The difference in total area between 1986 and 1995 is due to rounding

**Fig.16 - Land use by category, 1995**

**Table 5.2 - Utilisation of agricultural land area, 2000 - 2003**

Detail	2000		2001		2002		2003	
	Area	%	Area	%	Area	%	Area	%
Sugarcane	76,962	93	76,478	93	75,501	93	74,117	93
Tea	670	1	660	1	680	1	681	1
Tobacco	397	-	383	-	340	-	379	-
Foodcrops <sup>1</sup>	4,860	6	5,140	6	5,090	6	4,980	6
Total	82,889	100	82,661	100	81,611	100	80,157	100

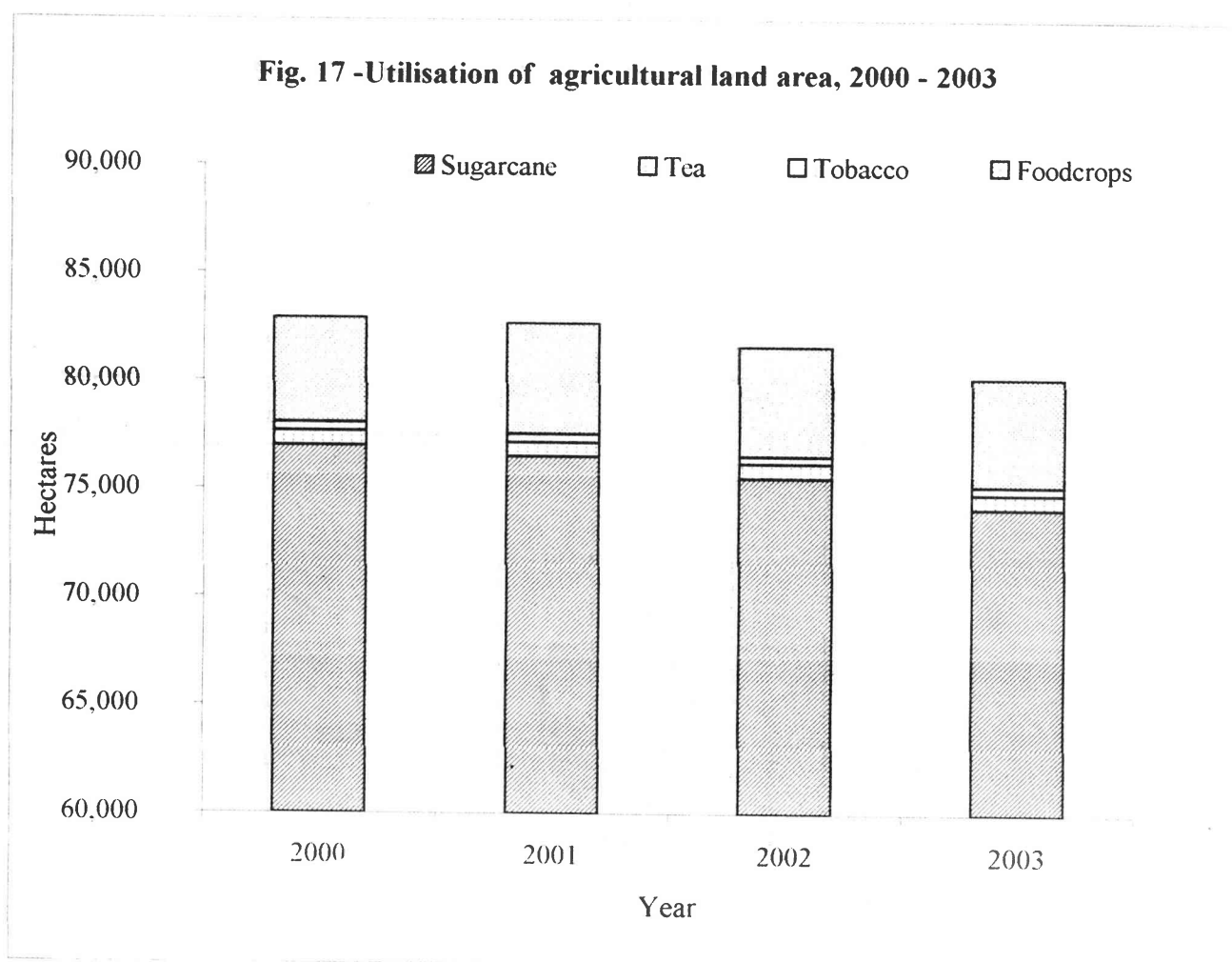
<sup>1</sup> Estimates



Table 5.3 - Road network, 1996 - 2003

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			
1996	31	902	582	390	95	1.02	105
1997	31	902	582	390	95	1.02	111
1998	36	902	582	390	96	1.02	114
1999	36	902	582	390	96	1.02	122
2000	44	910	582	390	97	1.03	127
2001	60	950	592	398	98	1.07	128
2002	60	950	592	398	98	1.07	133
2003	75	950	592	398	98	1.08	137

<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 ( 1865 sq km )

**Table 5.4 - Number of accidents by severity of accident, 1994 - 2003**

Year	Severity of accident				
	Fatal	Serious	Slight	No injury	Total
1994	142	263	2,647	12,675	15,727
1995	141	198	2,515	11,829	14,683
1996	138	176	2,469	12,062	14,845
1997	132	184	2,563	13,075	15,954
1998	152	229	2,557	15,117	18,055
1999	154	196	2,241	15,286	17,877
2000	148	191	2,081	15,858	18,278
2001	112	218	2,147	16,040	18,517
2002	144	162	1,852	15,864	18,022
2003	121	211	1,729	17,117	19,178

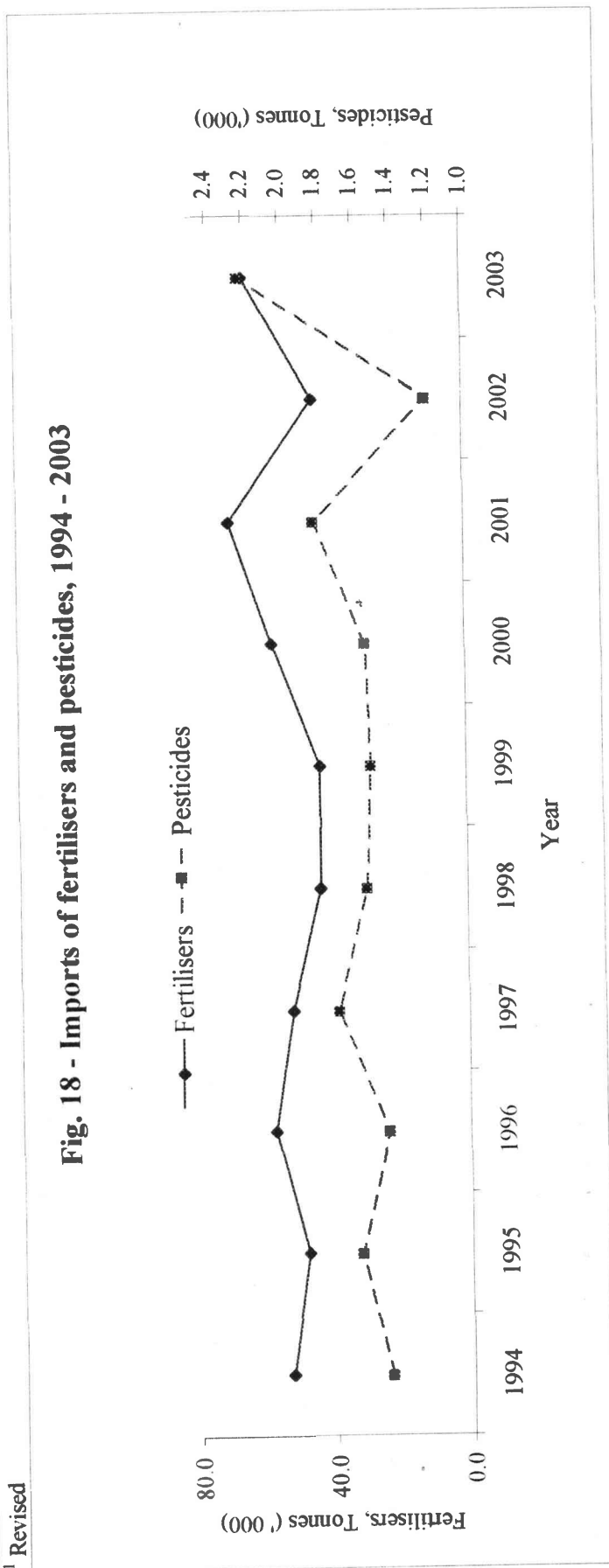
**Table 5.5 Imports of fertilisers and pesticides, 1994 - 2003**

Tonnes

Commodities	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Fertilizers	52,990	47,926	57,055	51,740	43,160	42,788	56,617	68,966	43,877	64,080
Pesticides	1,447	1,604	1,448	1,715	1,552	1,522	1,549	1,824	1,204	2,221
<i>Insecticides</i>	353	595	340	620	428	530	439	605	755 <sup>1</sup>	809
<i>Fungicides</i>	163	124	109	111	175	120	163	177	199	201
<i>Weedkillers</i>	931	885	999	984	949	872	947	1,042	1,005	1,211

<sup>1</sup> Revised

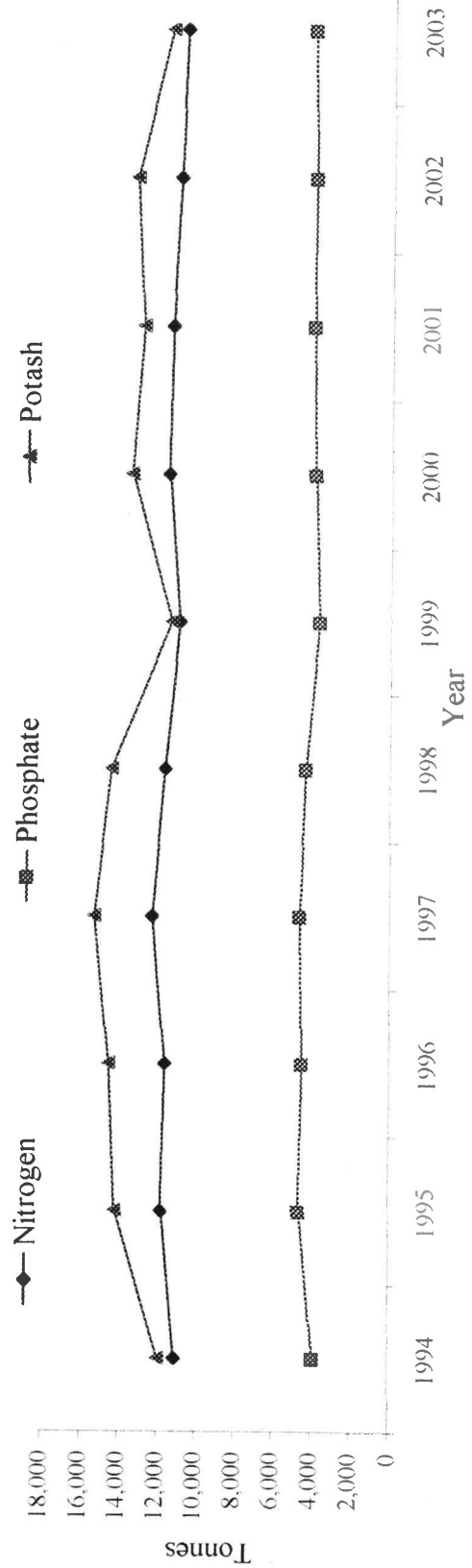
**Fig. 18 - Imports of fertilisers and pesticides, 1994 - 2003**



**Table 5.6 - Consumption of fertilisers, 1994 - 2003**

		Tonnes										
Year		1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
Product weight		64,282	70,900	70,092	73,740	69,486	62,721	67,044	65,527	64,739	63,507	
Nutrients Content	Nitrogen	11,073	11,800	11,634	12,294	11,681	10,941	11,550	11,428	11,028	10,742	
	Phosphate	3,889	4,625	4,506	4,644	4,342	3,684	3,940	4,059	4,011	4,094	
	Potash	11,910	14,208	14,550	15,326	14,444	11,351	13,464	12,911	13,296	11,516	

**Fig. 19 - Consumption of fertilisers ( Nutrients ), 1994 - 2003**



**Table 5.7 - Land under irrigation, 1996 - 2003**

Hectares				
Year	Overhead	Surface	Drip	Total
1996	13,235	4,226	831	18,292
1997	13,232	4,226	831	18,289
1998	14,520	2,654	1,205	18,379
1999	15,455	2,066	1,355	18,876
2000	15,951	2,020	1,535	19,506
2001	17,119	2,723	1,789	21,631
2002	17,028	2,372	1,822	21,222
2003	17,706	2,032	1,881	21,619
(By region) 2003				
North	5,173	756	1,012	6,941
East	3,015	-	174	3,189
Centre	732	85	-	817
West	4,030	1,151	166	5,347
South	4,756	40	529	5,325

Table 5.8 - Number of permits<sup>1</sup> and floor area by region, 1998 - 2003

Region	1998		1999		2000		2001		2002		2003	
	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>4,516</b>	<b>716,200</b>	<b>4,437</b>	<b>731,000</b>	<b>3,856</b>	<b>592,242</b>	<b>3,903</b>	<b>646,162</b>	<b>3,689</b>	<b>651,242</b>	<b>3,723</b>	<b>676,851</b>
Port Louis	1,166	257,966	1,054	201,954	1,007	187,745	1,047	177,713	1,003	185,002	1,006	226,690
Beau Bassin - Rose Hill	644	102,005	679	104,505	580	98,719	649	138,961	525	93,308	582	101,951
Curepipe	869	108,446	741	123,845	654	98,462	704	88,341	632	84,741	584	93,912
Quatre Bornes	669	109,713	553	111,533	593	82,712	540	118,062	534	163,938	556	128,231
Vacoas - Phoenix	1,168	138,070	1,410	189,163	1,022	124,604	963	123,085	995	124,253	995	126,067
<b>Rural areas</b>	<b>4,255</b>	<b>763,704</b>	<b>4,380</b>	<b>815,349</b>	<b>5,011</b>	<b>918,231</b>	<b>5,592</b>	<b>858,387</b>	<b>5,365</b>	<b>891,358</b>	<b>5,400</b>	<b>960,884</b>
Pamplemousses	878	168,548	897	159,535	929	202,799	1,112	183,808	931	173,086	966	213,286
Riviere du Rempart	681	154,012	737	148,879	753	136,085	948	158,955	799	135,612	982	191,488
Flacq	713	107,961	832	156,183	974	142,954	1,007	136,789	1,131	154,765	1,137	159,283
Grand Port	550	71,710	661	94,833	698	80,298	776	91,247	710	100,197	793	103,743
Savanne	374	50,044	327	45,003	422	55,826	528	71,154	531	66,563	501	87,825
Plaines Wilhems	47	7,999	20	2,636	52	8,649	48	6,808	53	7,405	52	10,057
Moka	448	68,417	412	65,887	585	88,042	543	79,771	567	120,466	470	77,675
Black River	564	135,013	494	142,393	598	203,578	630	129,855	643	133,264	499	117,527
<b>Total</b>	<b>8,771</b>	<b>1,479,904</b>	<b>8,817</b>	<b>1,546,349</b>	<b>8,867</b>	<b>1,510,473</b>	<b>9,495</b>	<b>1,504,549</b>	<b>9,054</b>	<b>1,542,600</b>	<b>9,123</b>	<b>1,637,735</b>

<sup>1</sup> includes new buildings and additions for which permits have been issued by Municipalities and Ministry of Public Infrastructure and Land Transport.

Table 5.9 - Number of permits<sup>1</sup> and floor area by type of building, 1998 - 2003

Type of building	1998		1999		2000		2001		2002		2003	
	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>Residential</b>	<b>8,302</b>	<b>1,204,125</b>	<b>8,280</b>	<b>1,243,771</b>	<b>8,331</b>	<b>1,170,023</b>	<b>8,999</b>	<b>1,256,946</b>	<b>8,671</b>	<b>1,222,347</b>	<b>8,712</b>	<b>1,229,510</b>
New buildings	4,667	839,006	4,657	864,710	4,538	784,627	4,459	794,586	4,167	758,397	4,301	768,796
Additions	3,635	365,119	3,623	379,061	3,793	385,396	4,540	462,360	4,504	463,950	4,411	460,714
<b>Non residential</b>	<b>469</b>	<b>275,779</b>	<b>537</b>	<b>302,578</b>	<b>536</b>	<b>340,450</b>	<b>496</b>	<b>247,603</b>	<b>383</b>	<b>320,253</b>	<b>411</b>	<b>408,225</b>
Agriculture, forestry, hunting and fishing	20	11,205	21	13,618	14	6,862	15	7,000	11	3,979	11	8,972
Manufacturing	57	92,393	47	42,697	44	38,573	52	42,351	48	69,546	49	67,496
Electricity and water	1	4,128	1	308	2	833	1	2,207	-	-	3	10,355
Construction	-	-	1	679	1	68	3	3,607	2	2,204	1	248
Wholesale and retail trade, restaurant and hotels	310	113,337	392	186,217	382	218,471	338	146,780	251	151,525	261	232,711
Transport, storage & communication	4	474	2	736	7	3,320	3	725	4	659	5	15,071
Banking, insurance and real estate	15	21,347	20	40,590	24	33,774	7	3,547	6	57,444	13	25,455
Community, social & personal services	62	32,895	53	17,733	62	38,549	77	41,386	61	34,896	68	47,917
<b>Total</b>	<b>8,771</b>	<b>1,479,904</b>	<b>8,817</b>	<b>1,546,349</b>	<b>8,867</b>	<b>1,510,473</b>	<b>9,495</b>	<b>1,504,549</b>	<b>9,054</b>	<b>1,542,600</b>	<b>9,123</b>	<b>1,637,735</b>

<sup>1</sup> includes new buildings and additions for which permits have been issued by Municipalities and Ministry of Public Infrastructure and Land Transport.

Table 5.10 - Number of permits<sup>1</sup> and floor area by region for residential building, 1998 - 2003

Region	1998		1999		2000		2001		2002		2003	
	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>4,316</b>	<b>576,409</b>	<b>4,187</b>	<b>596,995</b>	<b>3,664</b>	<b>488,607</b>	<b>3,701</b>	<b>508,794</b>	<b>3,544</b>	<b>476,092</b>	<b>3,550</b>	<b>479,873</b>
Port Louis	1,083	152,783	964	142,448	940	138,375	984	135,799	947	137,761	932	137,908
Beau Bassin - Rose Hill	617	93,651	630	93,960	552	86,613	592	103,452	496	81,820	557	78,485
Curepipe	834	97,213	709	103,999	626	79,876	676	82,357	606	71,639	563	85,313
Quatre Bornes	648	103,023	535	104,120	558	72,276	521	80,338	520	69,644	536	73,606
Vacoas - Phoenix	1,134	129,739	1,349	152,468	988	111,467	928	106,848	975	115,228	962	104,561
<b>Rural areas</b>	<b>3,986</b>	<b>627,716</b>	<b>4,093</b>	<b>646,776</b>	<b>4,667</b>	<b>681,416</b>	<b>5,298</b>	<b>748,152</b>	<b>5,127</b>	<b>746,255</b>	<b>5,162</b>	<b>749,637</b>
Pamplemousses	826	137,759	835	139,268	840	134,501	1,034	154,912	877	128,203	900	139,710
Riviere du Rempart	645	115,158	685	113,983	704	110,190	923	147,841	773	121,285	950	162,073
Flacq	676	95,666	771	112,410	917	123,023	951	122,660	1,079	134,717	1,085	134,918
Grand Port	504	59,108	630	83,431	672	76,034	741	82,595	688	81,850	773	95,047
Savanne	349	44,190	303	41,307	399	47,299	504	60,707	519	63,810	483	60,399
Plaines Wilhems	41	5,607	19	2,623	43	7,082	44	5,671	52	7,361	51	7,372
Moka	427	61,351	383	57,229	550	75,181	507	68,560	531	101,685	446	65,088
Black River	518	108,877	467	96,525	542	108,106	594	105,206	608	107,344	474	85,030
<b>Total</b>	<b>8,302</b>	<b>1,204,125</b>	<b>8,280</b>	<b>1,243,771</b>	<b>8,331</b>	<b>1,170,023</b>	<b>8,999</b>	<b>1,256,946</b>	<b>8,671</b>	<b>1,222,347</b>	<b>8,712</b>	<b>1,229,510</b>

<sup>1</sup> includes new buildings and additions for which permits have been issued by Municipalities and Ministry of Public Infrastructure and Land Transport.



Table 5.11 - Number of permits<sup>1</sup> and floor area by region for non - residential building, 1998 - 2003

Region	1998		1999		2000		2001		2002		2003	
	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>200</b>	<b>139,791</b>	<b>250</b>	<b>134,005</b>	<b>192</b>	<b>103,635</b>	<b>202</b>	<b>137,368</b>	<b>145</b>	<b>175,150</b>	<b>173</b>	<b>196,978</b>
Port Louis	83	105,183	90	59,506	67	49,370	63	41,914	56	47,241	74	88,782
Beau Bassin - Rose Hill	27	8,354	49	10,545	28	12,106	57	35,509	29	11,488	25	23,466
Curepipe	35	11,233	32	19,846	28	18,586	28	5,984	26	13,102	21	8,599
Quatre Bornes	21	6,690	18	7,413	35	10,436	19	37,724	14	94,294	20	54,625
Vacoas - Phoenix	34	8,331	61	36,695	34	13,137	35	16,237	20	9,025	33	21,506
<b>Rural areas</b>	<b>269</b>	<b>135,988</b>	<b>287</b>	<b>168,573</b>	<b>344</b>	<b>236,815</b>	<b>294</b>	<b>110,235</b>	<b>238</b>	<b>145,103</b>	<b>238</b>	<b>211,247</b>
Pamplemousses	52	30,789	62	20,267	89	68,298	78	28,896	54	44,883	66	73,576
Riviere du Rempart	36	38,854	52	34,896	49	25,895	25	11,114	26	14,327	32	29,415
Flacq	37	12,295	61	43,773	57	19,931	56	14,129	52	20,048	52	24,365
Grand Port	46	12,602	31	11,402	26	4,264	35	8,652	22	18,347	20	8,696
Savanne	25	5,854	24	3,696	23	8,527	24	10,447	12	2,753	18	27,426
Plaines Wilhems	6	2,392	1	13	9	1,567	4	1,137	1	44	1	2,685
Moka	21	7,066	29	8,658	35	12,861	36	11,211	36	18,781	24	12,587
Black River	46	26,136	27	45,868	56	95,472	36	24,649	35	25,920	25	32,497
<b>Total</b>	<b>469</b>	<b>275,779</b>	<b>537</b>	<b>302,578</b>	<b>536</b>	<b>340,450</b>	<b>496</b>	<b>247,603</b>	<b>383</b>	<b>320,253</b>	<b>411</b>	<b>408,225</b>

<sup>1</sup> includes new buildings and additions for which permits have been issued by Municipalities and Ministry of Public Infrastructure and Land Transport.

**Table 5.12 - Solid waste input by type at Mare Chicose landfill site,****1999 - 2003**

Waste type	Tonnes				
	1999	2000	2001	2002	2003
Commercial	49	505	1,387	1,843	-
Construction	14,398	6,839	3,709	6,404	7,199
Domestic	161,254	251,249	292,880	325,006	352,915
Industrial ( inc. textile )	4,566	5,861	4,269	6,429	4,421
Tuna/Sludge	...	...	125	48	120
Poultry	373	671	3,152	3,615	3,236
Rubber tyres	58	228	135	240	378
Asbestos	19	...	33	34	71
Condemned goods	43	464	1,002	1,626	2,754
Cyclone Wastes	...	...	...	18,669	1,340
Difficult and hazardous	28	...	...	...	...
<b>TOTAL</b>	<b>180,788</b>	<b>265,815</b>	<b>306,691</b>	<b>363,913</b>	<b>372,434</b>

Source: Ministry of Local Government and Solid Waste Management

Table 5.13 - Monthly solid waste input by type at Mare Chicose landfill site, Jan - Dec 2003

Tonnes

Waste type	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Domestic	34,714	29,344	28,802	29,493	30,207	26,389	28,128	28,115	27,906	29,204	27,957	32,657	352,915
Textile	242	239	243	273	299	268	307	245	225	227	301	201	3,070
Poultry	299	224	258	264	247	240	260	260	257	312	300	315	3,236
Tuna/Sludge	-	-	5	10	32	5	20	12	-	16	4	17	120
Rubber Tyres	7	15	26	6	29	20	39	29	18	6	78	104	378
Industrial	133	126	100	160	111	90	63	55	69	105	198	142	1,351
Construction waste	444	590	400	997	733	558	528	912	617	746	366	308	7,199
Asbestos	-	-	-	-	-	-	-	25	40	5	-	-	71
Condemned goods	234	319	221	223	627	290	170	94	238	104	139	95	2,754
Post Cyclone Gery Wastes	-	-	-	1,269	71	-	-	-	-	-	-	-	1,340
<b>Total</b>	<b>36,074</b>	<b>30,857</b>	<b>30,055</b>	<b>32,693</b>	<b>32,355</b>	<b>27,860</b>	<b>29,516</b>	<b>29,748</b>	<b>29,370</b>	<b>30,725</b>	<b>29,342</b>	<b>33,839</b>	<b>372,434</b>

Source: Ministry of Local Government and Solid Waste Management

**Table 5.14 - Number of EIA and PER licences granted by type of project, Island of Mauritius, 1999 - 2003**

Project	EIA					PER <sup>2</sup>
	1999	2000	2001	2002	2003 <sup>1</sup>	2003 <sup>1</sup>
Land parcelling (morcellement)	17	31	74	16	14	28
Poultry rearing	35	26	13	13	18	3
Industrial development	6	7	1	2	28	3
Coastal hotels & related works	13	11	9	15	4	11
Livestock rearing	11	4	-	1	4	2
Housing	7	4	4	3	4	1
Stone crushing plants	3	3	-	1	1	2
Development in port area	2	2	2	-	-	-
Service ("filling") station	2	2	-	1	14	2
Other	2	2	7	12	8	13
<b>Total</b>	<b>98</b>	<b>92</b>	<b>110</b>	<b>64</b>	<b>95</b>	<b>65</b>

Source : Department of Environment of the Ministry of Environment and National Development Unit

<sup>1</sup> Provisional

<sup>2</sup> PER licence was issued as from September 2002. Four PER licences issued in 2002 were included in 2003.

Table 5.15 - Number of establishments<sup>1</sup> by industrial group, Republic of Mauritius, 1999 - 2003

Industrial group	Number of establishments				
	1999	2000	2001	2002	2003
Agriculture, forestry and fishing	<u>284</u>	<u>304</u>	<u>272</u>	<u>250</u>	<u>255</u>
Sugarcane	<u>179</u>	<u>180</u>	<u>154</u>	<u>145</u>	<u>144</u>
Tea	<u>7</u>	<u>7</u>	<u>10</u>	<u>8</u>	<u>9</u>
Tobacco	<u>38</u>	<u>55</u>	<u>52</u>	<u>41</u>	<u>41</u>
Other agriculture	<u>60</u>	<u>62</u>	<u>56</u>	<u>56</u>	<u>61</u>
Mining and quarrying	<u>6</u>	<u>6</u>	<u>6</u>	<u>6</u>	<u>8</u>
Manufacturing	<u>930</u>	<u>942</u>	<u>924</u>	<u>915</u>	<u>919</u>
Food	<u>111</u>	<u>112</u>	<u>110</u>	<u>108</u>	<u>108</u>
Beverage and tobacco	<u>17</u>	<u>17</u>	<u>18</u>	<u>16</u>	<u>16</u>
Textile and wearing apparel (except footwear )	<u>420</u>	<u>420</u>	<u>403</u>	<u>387</u>	<u>370</u>
Other manufacturing	<u>382</u>	<u>393</u>	<u>393</u>	<u>404</u>	<u>425</u>
Electricity, gas and water	<u>5</u>	<u>4</u>	<u>4</u>	<u>6</u>	<u>6</u>
Construction	<u>89</u>	<u>90</u>	<u>87</u>	<u>87</u>	<u>96</u>
Wholesale and retail trade, repair of m/vehicles, motorcycle, personal & household goods	<u>355</u>	<u>349</u>	<u>348</u>	<u>353</u>	<u>364</u>
Wholesale and retail trade	<u>312</u>	<u>307</u>	<u>309</u>	<u>313</u>	<u>323</u>
Maintenance and repair of motor vehicles and motorcycles	<u>16</u>	<u>15</u>	<u>14</u>	<u>14</u>	<u>15</u>
Sales of motor vehicles, motorcycles and related parts: automotive fuel	<u>27</u>	<u>27</u>	<u>25</u>	<u>26</u>	<u>26</u>
Hotels and restaurants	<u>130</u>	<u>128</u>	<u>129</u>	<u>132</u>	<u>144</u>
Transport, storage and communication	<u>99</u>	<u>100</u>	<u>100</u>	<u>98</u>	<u>108</u>
Financial intermediation	<u>67</u>	<u>68</u>	<u>69</u>	<u>68</u>	<u>71</u>
Real estate, renting and business activities	<u>135</u>	<u>138</u>	<u>139</u>	<u>148</u>	<u>158</u>
Public administration & defence: compulsory social security	<u>129</u>	<u>130</u>	<u>132</u>	<u>133</u>	<u>149</u>
Education	<u>160</u>	<u>152</u>	<u>150</u>	<u>149</u>	<u>151</u>
Health and social work	<u>42</u>	<u>44</u>	<u>45</u>	<u>44</u>	<u>46</u>
Other community, social and personal services	<u>78</u>	<u>79</u>	<u>83</u>	<u>86</u>	<u>85</u>
Total	2,509	2,534	2,488	2,475	2,560

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



# **CHAPTER 6**

## **HUMAN SETTLEMENTS**





**Table 6.1 - Main socio-economic indicators, Republic of Mauritius, 1994 and 2003**

Indicator	Units	1994	2003 <sup>1</sup>
1. Gross Domestic Product (GDP) at market prices	Rs mn	64,048	157,210
2. Sectoral contribution to GDP			
<i>Agriculture</i>	%	9.8	6.3
<i>Mining and quarrying</i>	%	0.2	0.1
<i>Manufacturing</i>	%	22.6	21.4
<i>Construction</i>	%	7.1	6.2
<i>Electricity, gas and water</i>	%	2.3	2.5
<i>Wholesale and retail trade</i>	%	13.1	11.5
<i>Hotels and restaurants</i>	%	4.6	5.8
<i>Transport and communications</i>	%	11.3	13.7
<i>Financial intermediation and business services</i>	%	14.9	19.4
<i>Other<sup>2</sup></i>	%	14.1	13.1
3. GDP annual growth rate (basic prices)	%	+4.8	+4.3
4. Per capita GDP at market prices	Rs	57,545	128,534
5. Per capita GDP in US dollars	US\$	3,180	4,529
6. Investment (GDFCF)	Rs mn	19,400	35,559
7. Exports (f.o.b) (include re-exports)	Rs mn	24,697	53,022
8. Imports (c.i.f)	Rs mn	34,548	65,942
9. Population (end of year)	000	1,112.8	1,222.8
10. Population annual growth rate	%	1.1	1.0
11. Population density (per km <sup>2</sup> )	Number	548	602
12. Total labour force	000	475.8	549.5
13. Total employment	000	454.8	495.1
<i>Agriculture (as a % of total)</i>	%	13.7	9.4
<i>Manufacturing (as a % of total)</i>	%	29.5	27.1
14. Unemployment rate	%	4.5	10.2
15. Inflation rate	%	7.3	3.9
16. Tourist arrivals	000	400.5	702.0
17. Primary energy requirement	ktoe	828.3	1,238.6
18. Energy intensity	toe per Rs 100,000 GDP	2.01	1.66

<sup>1</sup> Provisional<sup>2</sup> Includes public administration, education, health and financial intermediation services indirectly measured (FISIM)

**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
Curpipe	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
Island of Mauritius	1.022.456	510.676	511.780	1.143.069	566.056	577.013	120.613	1.12

<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
All ages	510,676	511,780	1,022,456	100.0	566,056	577,013	1,143,069	100.0

<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 - 2000

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(%)
20th November 1851	181,318	92	...	180,823	97	2.55	495	5	...
8th April 1861	310,743	158	5.91	310,050	166	5.91	693	7	3.65
11th April 1871	317,150	161	0.20	316,042	169	0.19	1,108	11	4.80
4th April 1881	361,305	184	1.31	359,874	193	1.31	1,431	14	2.59
6th 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
31st March 1911	373,620	190	-0.02	368,791	198	-0.06	4,829	46	4.33
21st May 1921	383,069	195	0.25	376,485	202	0.21	6,584	63	3.15
26th April 1931	401,440	204	0.47	393,238	211	0.44	8,202	79	2.22
11th June 1944	431,070	219	0.55	419,185	225	0.49	11,885	114	2.89
30th June 1952	514,748	261	2.24	501,415	269	2.26	13,333	128	1.45
30th June 1962 <sup>2</sup>	699,954	356	3.12	681,619	366	3.12	18,335	176	3.24
30th June 1972 <sup>2</sup>	850,968	432	1.97	826,199	443	1.94	24,769	238	3.05
2nd July 1983 <sup>2</sup>	999,945	508	1.48	966,863	518	1.44	33,082	318	2.67
1st July 1990 <sup>3</sup>	1,056,660	537	0.79	1,022,456	548	0.80	34,204	329	0.48
1st July 2000 <sup>3</sup>	1,178,848	599	1.10	1,143,069	613	1.12	35,779	344	0.45

<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>, 1994 - 2003**

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	International migration	Total			Natural increase	International migration	
1994	21,795	7,402	14,393	-2337	12,056	1.30	-0.21	1.09	1,117,290	
1995	20,549	7,465	13,084	-1466	11,618	1.17	-0.13	1.04	1,128,908	
1996	20,763	7,670	13,093	-41	13,052	1.16	0.00	1.16	1,141,960	
1997	20,012	7,986	12,026	+1358	13,384	1.05	+0.12	1.17	1,155,344	
1998	19,434	7,839	11,595	-37	11,558	1.00	0.00	1.00	1,166,902	
1999	20,311	7,944	12,367	+1,092	13,459	1.06	+0.09	1.15	1,180,361	
2000	20,205	7,982	12,223	+591	12,814	1.04	+0.05	1.09	1,193,175	
2001	19,696	7,983	11,713	+500	12,213	0.98	+0.04	1.02	1,205,388	
2002	19,983	8,310	11,673	-569	11,104	0.97	-0.05	0.92	1,216,492	
2003	19,343	8,520	10,823	+524	11,347	0.89	+0.04	0.93	1,227,839	

<sup>1</sup> Excl. Saint Brandon and Agalega

**Table 6.7 - Life Expectancy at birth, 1994 - 2003**

Year	1994	1995	1996	1997	1998	1999	2000	2001 <sup>1</sup>	2002 <sup>1</sup>	2003 <sup>2</sup>
Male	66.4	66.5	66.4	66.6	66.8	67.4	68.1	68.4	68.6	68.7
Female	74.0	74.2	74.3	74.4	74.4	74.6	75.3	75.3	75.3	75.4

<sup>1</sup> Revised

<sup>2</sup> Provisional

Table 6.8 - Infant mortality <sup>1</sup> rate by geographical district, 1994 - 2003

Geographical district	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Port Louis	18.9	20.7	24.6	22.0	23.4	20.4	18.6	16.0	13.8	9.7
Pamplemousses	21.8	17.4	24.9	17.6	18.9	17.0	15.3	13.8	11.9	12.7
Riviere du Rempart	15.1	17.7	17.8	17.8	20.7	14.3	14.1	12.0	19.1	8.7
Flacq	18.6	21.3	19.0	21.4	13.4	16.5	13.9	14.4	12.5	9.5
Grand Port	20.4	20.3	26.7	19.1	30.9	27.2	18.3	16.8	20.9	17.2
Savanne	19.3	17.5	22.1	33.0	12.3	28.4	20.9	7.3	17.6	13.2
Plaines Wilhems	18.0	18.9	20.6	18.2	16.4	17.8	13.8	13.1	11.8	13.9
Moka	8.3	19.8	19.4	22.7	23.5	16.8	14.7	14.2	13.4	12.0
Black River	16.5	24.9	29.6	20.6	21.6	19.9	18.5	17.3	18.4	14.5
Island of Mauritius	18.0	19.6	22.2	20.3	19.4	19.2	15.8	13.9	14.5	12.4

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



**Table 6.9 - Total number of buildings, residential and partly residential buildings, housing units, households and population, 1990 and 2000 Censuses**

	Housing Census		Increase 1990 - 2000	
	1990	2000	No.	%
All buildings	200,626	257,521	56,895	28.4
Residential/Partly residential buildings	177,711	229,779	52,068	29.3
Total housing units	216,011	288,344	72,333	33.5
Occupied housing units	208,163	268,917	60,754	29.2
Private households	236,110	287,701	51,591	21.9
Population	1,054,902	1,129,801	74,899	7.1

**Table 6.10 - Distribution of buildings by type, 1990 and 2000 censuses**

Building type	Housing Census		Increase 1990 - 2000	
	1990	2000	No.	%
Under construction	8,929	11,460	2,531	28
Wholly residential	172,780	219,797	47,017	27
Partly residential	6,666	11,114	4,448	67
Hotels and Institutions	288	497	209	73
Non - residential	9,938	11,926	1,988	20
Other	2,025	2,727	702	35
All buildings	200,626	257,521	56,895	28

**Table 6.11 - Residential and partly residential buildings by type of construction materials, 1990 and 2000 Housing Censuses.**

Type of walls and roof materials	Housing census				Change 1990-2000	
	1990		2000			
	No.	%	No.	%	No.	%
Concrete walls and roof	127.701	71.9	199.898	87.0	72.197	56.5
Concrete walls & iron/tin roof	13.067	7.4	9.206	4.0	-3.861	-29.5
Iron/tin walls and roof	30.075	16.9	16.815	7.3	-13.260	-44.1
Wood walls & iron/tin/shingle roof	4.236	2.4	2.140	0.9	-2.096	-49.5
Other	2.632	1.5	1.720	0.7	-912	-34.7
Total	177.711	100.0	229.779	100.0	52.068	29.3

**Table 6.12 - Distribution of housing units by occupancy status and type of vacancy, 1990 and 2000 Housing Censuses**

Type of occupancy or vacancy	Housing units			
	1990		2000	
Housing units occupied as :	No.	%	No.	%
Principal residence	208.983	96.7	269.622	93.5
Secondary residence	1.725	0.8	3.901	1.4
Total occupied	210.708	97.5	273.523	94.9
Vacant housing units : For rent	2.093	1.0	5.990	2.1
For sale	305	0.1	2.548	0.9
Provided by employer	846	0.4	602	0.2
Under repairs	659	0.3	1.077	0.4
Other	1500	0.7	4.604	1.6
Total vacant	5.303	2.5	14.821	5.1
All housing units	216.011	100.0	288.344	100.0

**Table 6.13 - Main energy indicators, Republic of Mauritius, 1994 - 2003**

Details	Unit	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Total primary energy requirement	ktoe	828.33	889.56	924.33	956.18	1,021.75	1,003.50	1,125.93	1,191.53	1,168.84	1,238.60
<i>Imported</i>	ktoe	568.37	584.26	634.70	647.31	707.18	778.92	849.02	901.17	898.76	956.30
<i>Local</i>	ktoe	259.97	305.31	289.63	308.87	314.57	224.58	276.91	290.36	270.08	282.30
Total primary energy requirement index (1990 = 100)		141.00	119.20	123.86	128.13	136.92	134.47	150.88	159.67	156.63	166.00
Annual increase	%	+0.77	+7.39	+3.91	+3.45	+6.86	-1.79	+12.20	+5.83	-1.90	+6.0
Import dependency	%	68.62	65.68	68.67	67.70	69.21	77.62	75.41	75.63	76.89	77.20
Energy intensity	toe per Rs 100,000 GDP	2.01	2.05	2.00	1.96	1.98	1.90	1.69	1.70	1.64	1.66
Per capita primary energy requirement	toe	0.74	0.79	0.82	0.83	0.88	0.85	0.95	0.99	0.97	1.01
Per capita final energy consumption	toe	0.58	0.61	0.61	0.63	0.63	0.59	0.63	0.65	0.63	0.66
Per capita consumption of electricity sold	kWh	736	814	879	947	1,026	1,059	1,158	1,222	1,248	1,330

**Table 6.14 - Primary energy requirement, (Energy unit), Republic of Mauritius, 1994 - 2003**

Energy source	Thousand tonne of oil equivalent (ktoe)									
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Imported										
Gasolene	86.0	90.7	94.4	94.7	95.7	96.7	99.4	94.8	94.5	96.4
Diesel oil	125.7	127.6	137.4	147.0	156.7	166.6	191.3	190.6	198.7	210.9
Dual purpose kerosene	110.2	119.8	163.2	141.0	154.6	154.1	136.0	143.4	127.7	147.4
Kerosene	26.6	44.6	79.4	58.8	61.5	53.1	23.6	13.8	14.4	18.9
Aviation fuel	83.6	75.2	83.8	82.2	93.1	101.0	112.4	129.6	113.3	128.6
Fuel oil	171.8	170.0	175.3	194.1	212.7	230.0	215.5	236.1	231.4	249.7
LPG	36.0	37.0	39.5	42.3	43.7	46.9	50.0	50.8	52.5	55.8
Coal	38.8	39.1	25.0	28.3	43.9	84.7	156.9	185.5	193.9	196.0
Sub- total (Imported)	568.5	584.2	634.8	647.4	707.3	779.0	849.1	901.2	898.7	956.2
Local										
Hydro\Wind	16.7	29.7	23.0	20.5	23.0	6.6	21.0	15.6	18.9	25.9
Bagasse <sup>1</sup>	227.9	262.4	255.2	278.6	282.7	210.3	248.5	267.4	243.9	249.1
Fuel wood <sup>1</sup>	15.4	13.2	11.4	9.8	8.8	7.7	7.3	7.3	7.3	7.3
Sub- total (Imported)	260.0	305.3	289.6	308.9	314.5	224.6	276.8	290.3	270.1	282.3
Total	828.5	889.5	924.4	956.3	1,021.8	1,003.6	1,125.9	1,191.5	1,168.8	1,238.5

<sup>1</sup> estimates

Table 6.15 - Imports of energy sources (Energy unit), Republic of Mauritius, 1994 - 2003

Energy source	Thousand tonne of oil equivalent (ktoe)										
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003	
Gasolene	84.7	90.9	95.1	95.1	93.9	100.2	97.0	93.7	86.7	93.7	
Diesal oil	212.1	228.5	224.2	258.5	285.6	298.5	343.1	341.4	349.9	312.3	
Dual purpose kerosene	155.5	177.5	203.8	204.1	214.7	241.2	226.1	222.7	234.5	236.8	
<i>Kerosene</i>	26.9	41.2	84.4	79.6	56.3	46.0	28.5	12.5	14.9	21.0	
<i>Aviation fuel</i>	128.6	136.3	119.4	124.5	158.4	195.2	197.6	210.3	219.6	215.8	
Fuel oil	191.4	199.2	186.6	239.2	263.2	236.4	210.0	264.1	200.2	276.5	
LPG	35.3	39.1	39.5	45.0	48.3	47.1	51.1	47.4	60.4	55.6	
Coal	23.8	41.1	23.9	17.2	53.5	79.9	137.9	215.4	193.5	179.4	
Total	702.9	776.3	773.1	859.2	959.0	1,003.2	1,065.2	1,184.8	1,125.2	1,154.3	



**Table 6.16 - Fuel input for electricity production, (Energy unit), Republic of Mauritius, 1994 - 2003**

	Thousand tonne of oil equivalent (ktoe)									
Fuel	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<u>Island of Mauritius</u>										
Fuel oil	141.2	137.2	139.6	154.4	169.0	183.1	164.5	173.8	167.9	192.1
Diesel oil	2.9	2.6	2.2	2.3	2.6	3.1	2.9	2.6	2.8	2.4
Kerosene	15.4	33.6	68.5	48.9	51.7	43.6	13.6	3.9	5.7	10.3
Coal	19.8	18.8	4.1	11.4	27.9	69.5	141.7	169.5	177.9	178.0
Bagasse <sup>1</sup>	63.3	67.7	85.3	95.6	122.6	114.2	163.4	182.8	173.1	167.5
<u>Island of Rodrigues</u>										
Fuel oil <sup>2</sup>	0.0	0.0	0.6	1.8	2.6	3.6	4.0	4.2	4.5	4.2
Diesel oil <sup>2</sup>	2.2	2.7	2.3	1.1	1.2	0.4	0.6	0.6	0.7	1.5
Total	244.8	262.6	302.5	315.5	377.6	417.6	490.6	537.3	532.5	556.0

<sup>1</sup> Estimates

<sup>2</sup> Figures for 1994 - 1997 are estimates

Table 6.17 - Final energy consumption by sector and type of fuel (Physical unit), Republic of Mauritius, 1994 - 2003

Sector	Unit	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Manufacturing											
Fuel oil	tonne	31,814	34,203	36,590	39,518	42,774	45,150	49,000	60,630	61,439	55,615
Diesel oil	tonne	18,373	17,255	23,367	26,622	30,233	32,650	41,600	37,533	37,409	41,273
LPG	tonne	2,470	2,550	2,761	3,179	3,276	3,600	3,689	3,650	3,502	2,964
Coal	tonne	30,647	32,797	33,727	27,242	25,713	24,490	24,464	25,781	25,888	29,000
Fuel wood <sup>1</sup>	tonne	4,382	3,900	3,400	2,500	2,000	1,800	1,500	1,500	1,450	1,430
Electricity	GWh	370.2	415.9	446.2	496.1	551.3	558.8	651.6	711.4	711.7	718.9
Bagasse <sup>1</sup>	tonne	1,028,400	1,216,900	1,062,100	1,143,800	1,000,600	600,400	531,800	529,000	442,722	510,246
Transport											
Gasolene	tonne	79,595	83,958	87,387	87,671	88,592	89,500	92,000	87,749	87,507	89,242
LPG	tonne	-	-	-	-	264	485	633	820	1,216	2,223
Diesel oil	tonne	99,202	101,876	106,224	113,361	118,934	126,500	142,000	145,555	153,437	161,267
Aviation fuel (local aircraft)	tonne	80,363	72,305	80,569	79,025	89,537	97,126	108,082	124,652	108,972	123,627
Household											
Kerosene	tonne	10,793	10,590	10,504	9,533	9,472	9,100	9,600	9,480	8,409	8,265
LPG	tonne	27,550	28,600	30,437	32,313	32,837	34,700	37,710	37,850	39,023	40,559
Fuel wood <sup>1</sup>	tonne	30,100	26,100	23,200	20,900	19,000	16,400	16,000	15,900	15,850	15,780
Charcoal <sup>1</sup>	tonne	500	400	350	300	250	200	150	150	130	125
Electricity	GWh	300.8	340.0	364.5	394.9	431.2	449.6	491.9	522.8	532.6	564.6
Commercial and Distributive Trade											
LPG	tonne	3,281	3,150	3,356	3,650	4,000	4,500	4,150	4,450	4,559	5,749
Charcoal <sup>1</sup>	tonne	1,000	800	500	300	300	300	300	330	340	350
Electricity	GWh	209.2	232.3	256.3	290.3	322.3	337.4	374.8	415.5	424.9	479.3
Agriculture											
Diesel oil <sup>1</sup>	tonne	1,800	1,900	2,000	2,100	2,200	2,300	2,400	2,460	2,430	2,410
Electricity	GWh	18.6	17.3	21.3	20.5	25.3	22.5	27.2	26.8	27.5	27.0

<sup>1</sup> Estimates



Table 6.18 - Final energy consumption by sector (Energy unit), Republic of Mauritius, 1994 - 2003

Sector	Thousand tonne of oil equivalent (ktoe)									
	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Manufacturing	268.8	305.3	292.2	311.8	299.3	240.2	249.9	262.4	249.2	260.3
of which bagasse <sup>1</sup>	164.5	194.7	169.9	183.0	160.1	96.1	85.1	84.6	70.8	81.6
Transport	269.7	268.8	285.5	291.4	309.2	326.0	355.9	372.3	364.1	390.2
Household	78.7	81.3	84.2	86.9	89.8	92.0	99.2	101.8	102.8	107.0
Commercial and Distributive Trade	22.3	24.0	26.0	29.1	32.3	34.1	36.9	40.8	41.7	47.7
Agriculture	3.4	3.4	3.9	3.9	4.4	4.3	4.8	4.8	4.8	4.8
Other (n.e.s) and losses	1.2	1.3	1.4	1.5	1.6	1.8	2.3	2.3	2.4	2.9
<b>TOTAL</b>	<b>644.1</b>	<b>684.0</b>	<b>693.1</b>	<b>724.5</b>	<b>736.6</b>	<b>698.3</b>	<b>749.0</b>	<b>784.4</b>	<b>765.1</b>	<b>812.9</b>

<sup>1</sup> estimates

**Table 6.19 - Percentage share of final energy consumption by sector, Republic of Mauritius, 1994 - 2003**

Sector	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Manufacturing	41.7	44.6	42.2	43.0	40.6	34.4	33.4	33.5	32.6	32.0
<i>(of which bagasse)</i>	<i>(25.5)</i>	<i>(28.5)</i>	<i>(24.5)</i>	<i>(25.3)</i>	<i>(21.7)</i>	<i>(13.8)</i>	<i>(11.4)</i>	<i>(10.8)</i>	<i>(9.3)</i>	<i>(10.0)</i>
Transport	41.9	39.3	41.2	40.2	42.0	46.7	47.5	47.5	47.6	48.0
Household	12.2	11.9	12.1	12.0	12.2	13.2	13.2	13.0	13.4	13.2
Commercial and Distributive Trade	3.5	3.5	3.8	4.0	4.4	4.9	4.9	5.2	5.5	5.9
Agriculture	0.5	0.5	0.6	0.5	0.6	0.6	0.6	0.6	0.6	0.6
Other (n.e.s) and losses	0.2	0.2	0.2	0.2	0.2	0.3	0.3	0.3	0.3	0.4
<b>TOTAL</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Table 6.20 - Vehicles<sup>1</sup> registered by type, 1994 - 2003

Type of vehicle	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Car	41,355	43,288	45,563	48,390	51,051	52,892	54,911	58,082	63,307	68,524
( of which taxi car )	(4,311)	(4,439)	(4,673)	(4,721)	(4,761)	(4,905)	(5,039)	(5,318)	(5,801)	(5,979)
Dual purpose vehicle	20,023	22,086	24,382	27,050	29,527	32,262	34,912	36,984	38,129	39,383
Heavy motor car	848	898	922	934	945	934	916	923	944	958
Motor cycle	20,461	21,492	22,230	22,839	23,577	24,125	24,523	25,104	25,723	26,744
Auto cycle	72,509	76,317	79,524	82,567	85,566	88,821	91,955	94,849	97,078	98,858
Lorry and truck	8,559	8,815	9,058	9,356	9,750	10,138	10,485	10,888	11,236	11,501
Van	10,292	10,851	11,434	12,469	14,508	16,814	18,807	20,694	21,750	22,496
Bus	2,276	2,362	2,348	2,359	2,367	2,344	2,394	2,408	2,450	2,460
Tractor and dumper	2,478	2,546	2,580	2,615	2,627	2,630	2,645	2,683	2,683	2,877
Prime mover	249	256	262	278	297	315	322	335	349	369
Trailer	1,428	1,534	1,597	1,640	1,703	1,719	1,726	1,776	1,770	1,772
Road roller	106	107	106	108	105	102	100	100	101	100
Other	300	315	314	317	321	319	322	323	321	329
Total	180,884	190,867	200,320	210,922	222,344	233,415	244,018	255,149	265,841	276,371

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

**Fig. 21 - Vehicles registered by type, 1994 - 2003**

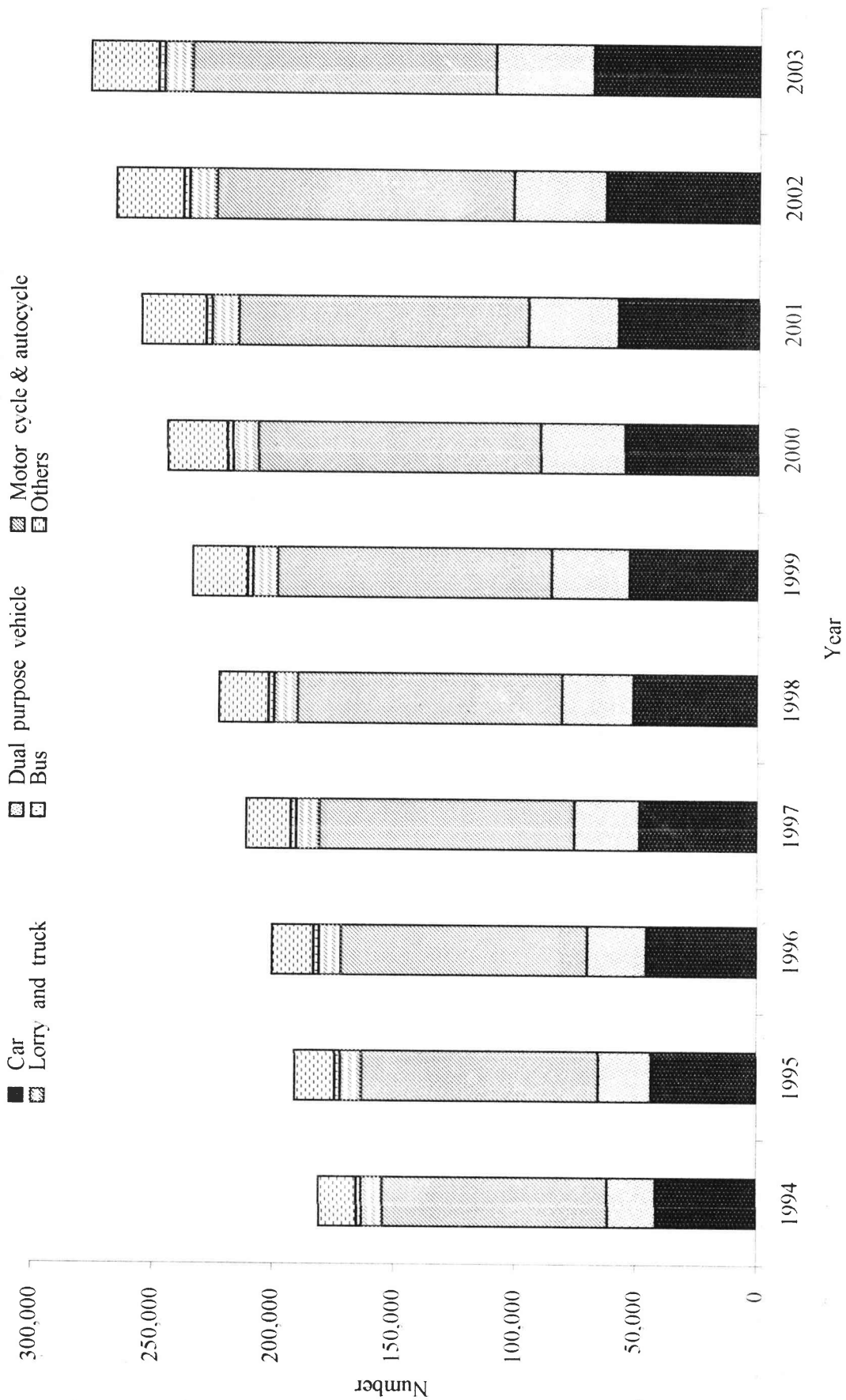


Table 6.21 - Road traffic accidents ' and casualties , 1994 - 2003

	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<b>1. Road traffic accidents:</b>										
Number	15,727	14,683	14,845	15,954	18,055	17,877	18,278	18,517	18,022	19,178
Rate per 100,000 Population	1,459	1,350	1,351	1,434	1,605	1,569	1,588	1,591	1,535	1,616
Rate per 1,000 registered motor vehicles	91	80	77	78	84	79	77	75	69	72
<b>2. Motor vehicles involved :</b>										
Number	27,203	25,584	26,270	28,561	32,568	32,547	33,537	33,988	33,119	35,239
Rate per 1,000 registered motor vehicles	158	139	135	140	152	144	142	137	127	133
<b>3. Casualties :</b>										
Total number of casualties	3,947	3,586	3,774	3,755	3,828	3,405	3,291	3,264	2,904	2,698
Fatal <sup>2</sup>	154	173	153	146	162	170	163	126	158	131
Seriously injured	330	280	238	261	281	237	266	288	216	291
Slightly injured	3,463	3,133	3,383	3,348	3,385	2,998	2,862	2,850	2,530	2,276
<b>4. Fatality :</b>										
Rate per 100,000 population	14.3	15.9	13.9	13.1	14.4	14.9	14.2	10.8	13.5	11.0
Rate per 1,000 registered motor vehicle	0.9	0.9	0.8	0.7	0.8	0.8	0.7	0.5	0.6	0.5
Fatality Index <sup>3</sup>	3.9	4.8	4.1	3.9	4.2	5.0	5.0	3.9	5.4	4.8

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

<sup>2</sup> From 1993 to 2001, figures were based on definition of fatal accidents where death occurred within 7 days as a result of the road accidents

as from 2002, figures are based on definition of fatal accidents where death occurred within 30 days as a result of the road accident.

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

**Fig. 22 - Road traffic accidents and casualties rate, 1994 - 2003**

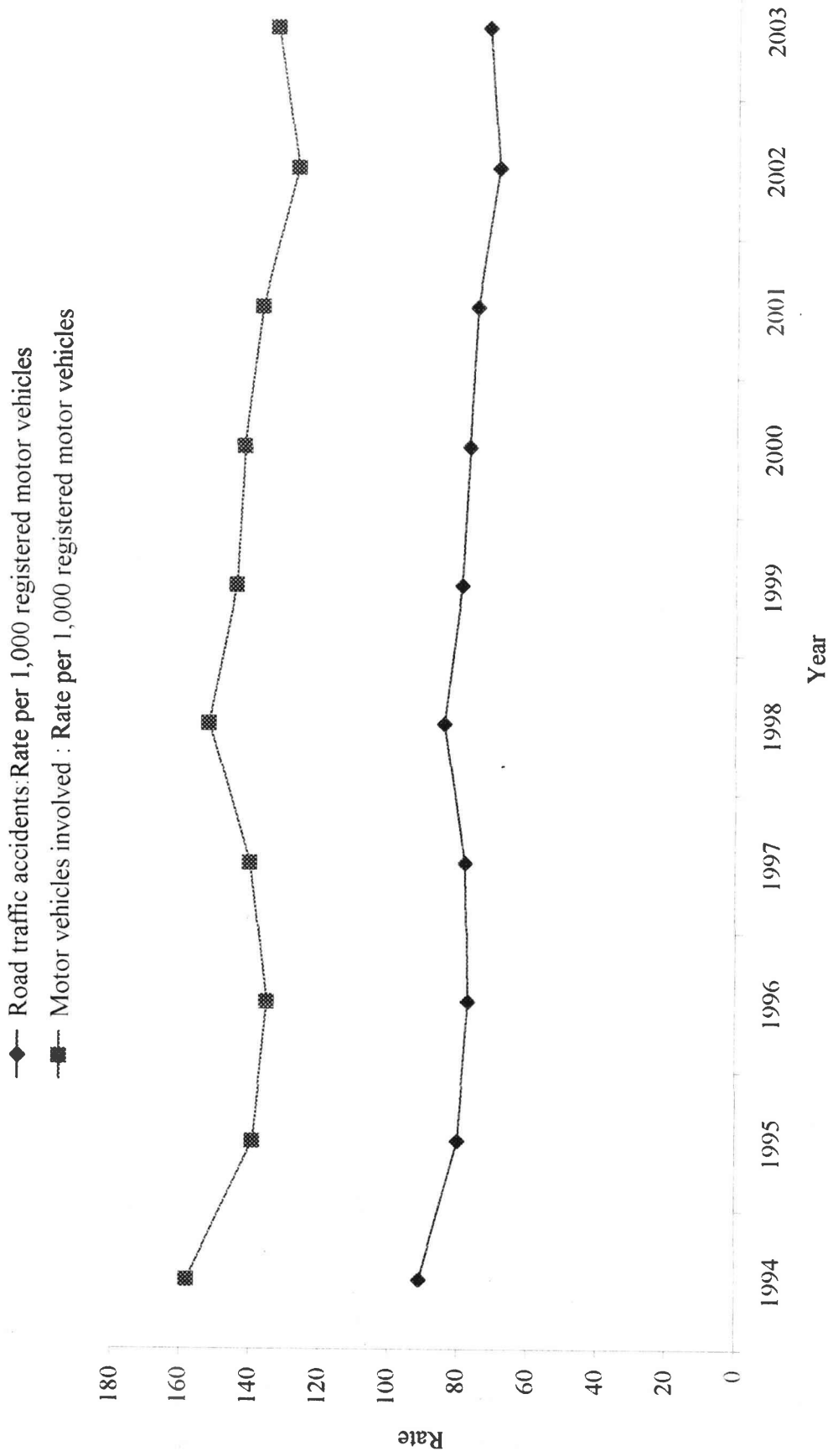
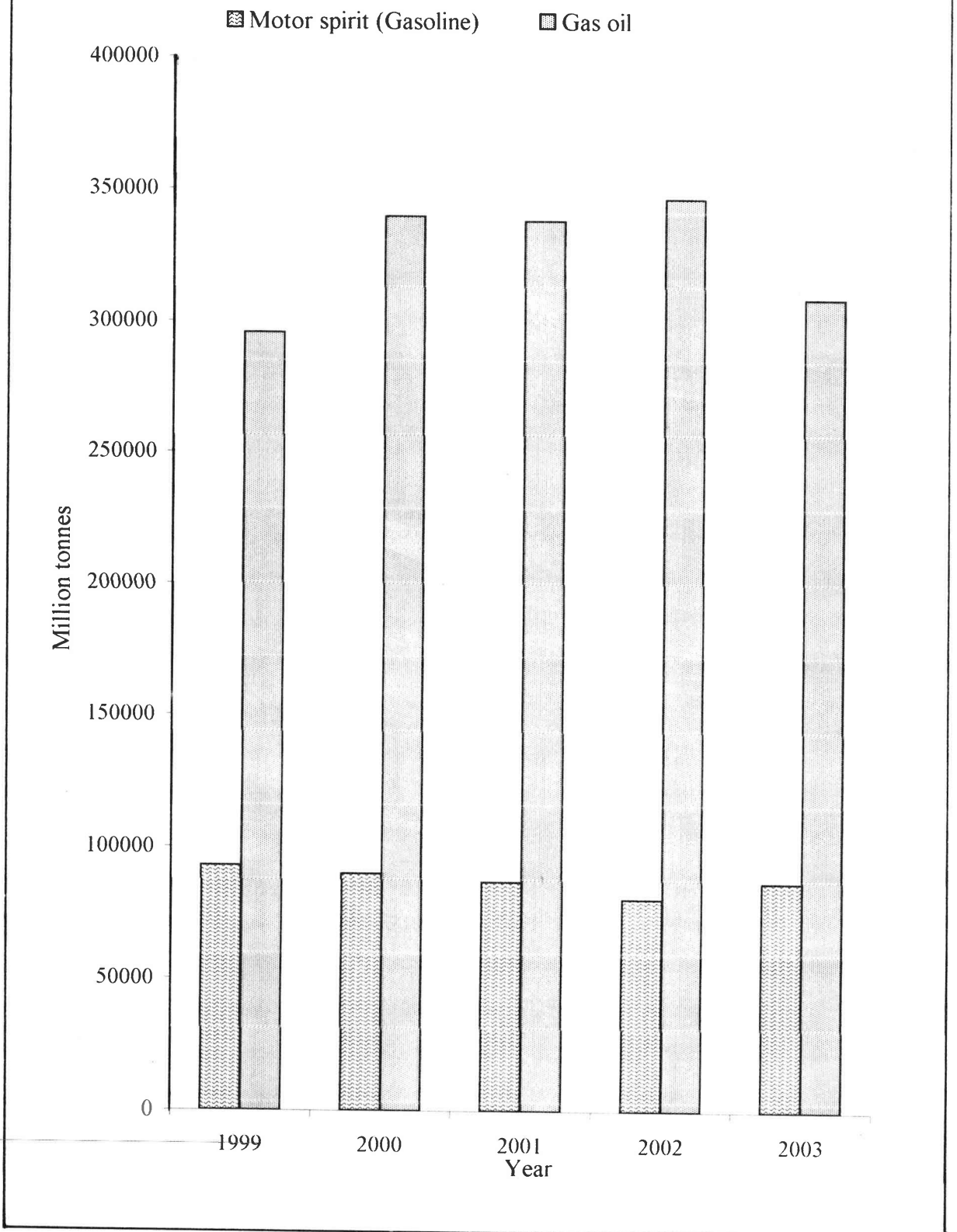


Table 6.22 - Imports of motor spirit and gas oil by country of origin, 1999 - 2003

Item	Country of origin	Unit	C.I.F. Value Rs ' (000 )									
			1999		2000		2001		2002 <sup>1</sup>		2003 <sup>2</sup>	
			Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value	Quantity	Value
Motor spirit (Gasoline)	Bahrain	M/ton	27.798	167,006	25,300	215,549	26,148	203,232	19,837	164,003	52,434	439,731
	Saudi Arabia	"	47.644	223,102	19,497	177,034	15,065	110,845	26,907	222,842	28,205	258,132
	South Africa Rep.	"	12.960	70,677	45,027	351,728	30,038	218,891	16,190	89,057	-	-
	Singapore	"	-	-	-	-	3,074	26,345	-	-	-	-
	United Arab Emirates	"	-	-	-	-	12,448	86,812	17,363	129,752	6,163	50,647
	Yemen	"	4.335	14,388	-	-	-	-	-	-	-	-
Gas oil ( Diesel )	Bahrain	M/ton	92.737	475,173	89,824	744,311	86,773	646,125	80,297	605,654	86,802	748,510
	Saudi Arabia	"	153,800	542,322	64,150	412,539	90,262	580,062	99,745	667,094	96,136	196,298
	South Africa Rep.	"	42,199	172,026	170,113	1,092,232	123,223	710,386	58,841	298,879	13,479	662,637
	Singapore	"	-	-	-	-	20,777	131,704	-	-	-	-
	United Arab Emirates	"	-	-	-	-	40,815	231,327	100,636	639,664	6,884	56,027
	India	"	-	-	-	-	-	-	-	-	22,438	96,965
	Yemen	"	8,711	22,008	-	-	-	-	-	-	9,080	46,240
			295,551	1,114,019	339,671	2,166,700	338,044	2,046,171	346,401	2,223,576	308,805	2,206,920

<sup>1</sup> Revised<sup>2</sup> Provisional

**Fig. 23 - Imports of motor spirit and gas oil, 1999 - 2003**



**Table 6.23 - Imports of lubricating oils and greases by country of origin, 1999 - 2003**

Item	Country of origin	1999		2000		2001		2002 <sup>1</sup>		2003 <sup>2</sup>	
		Quantity (M/ton)	Value (Rs '000)	Quantity (M/ton)	Value (Rs '000)	Quantity (M/ton)	Value (Rs '000)	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	549	15,383	757	19,425	431	14,206	247	9,223	371	14,688
	Japan	33	2,375	9	830	22	1,594	2	223	2	232
	Singapore	4,733	93,347	5,091	92,738	4,236	95,848	3,496	76,699	4,536	101,014
	South Africa Rep.	2,712	57,627	2,687	60,821	2,545	63,489	2,790	61,762	2,616	64,154
	Thailand	138	2,270	121	2,141	111	2,269	21	633	87	2,138
	United Kingdom	35	1,749	43	1,356	21	1,382	6	441	17	1,167
	United States	119	6,624	48	4,308	38	4,597	68	9,618	126	10,861
	Other countries	347	8,449	191	4,693	207	5,499	249	6,569	259	6,542
		8,666	187,824	8,947	186,312	7,611	188,884	6,879	165,168	8,014	200,796
Lubricating greases containing not less than 70 % by weight of petroleum products	France	41	1,210	37	1,005	47	1,492	13	549	5	414
	Singapore	16	635	118	2,917	13	541	10	296	4	209
	South Africa Rep.	83	2,458	92	2,958	109	3,265	114	3,081	139	3,970
	Thailand	-	-	-	-	-	-	-	-	88	1,163
	Other countries	38	1,626	24	1,168	10	929	5	547	6	757
		178	5,929	271	8,048	179	6,227	142	4,473	242	6,513

<sup>1</sup> Revised<sup>2</sup> Provisional

**Table 6.24 - Air transport, 1994 - 2003**

Year	Number of movements <sup>1</sup>		Freight <sup>2</sup>	
	Landings	Take - offs	Unloaded (Tonnes)	Loaded (Tonnes)
1994	5,717	5,703	12,690	14,855
1995	5,830	5,829	14,367	16,111
1996	6,265	6,261	16,856	18,815
1997	7,049	7,045	17,443	20,762
1998	7,320	7,314	17,516	19,559
1999	7,612	7,592	20,290	20,695
2000	8,349	8,332	20,113	21,156
2001	8,765	8,753	18,107	20,754
2002	9,172	9,170	19,114	25,663
2003	9,455	9,454	18,894	24,337

<sup>1</sup> include only movements of commercial aircraft: each touch down / take-off is counted as a separate movement.

<sup>2</sup> include freight carried by planes other than commercial.

**Table 6.25 - Tourist<sup>1</sup> arrivals by mode of transport and tourist nights spent during period, 1994 - 2003**

Period	Tourist arrival during period			Tourist nights spent during period <sup>2</sup>	% change over previous year	
	Sea	Air	Total		Tourist arrivals	Tourist nights
1994	6,383	394,143	400,526	4,359,303	+ 6.9	+ 5.4
1995	6,105	416,358	422,463	4,434,891	+ 5.5	+ 1.7
1996	6,484	480,383	486,867	4,957,683	+ 15.2	+ 11.8
1997	7,476	528,649	536,125	5,451,314	+ 10.1	+ 10
1998	17,109	541,086	558,195	5,567,889	+ 4.1	+ 2.1
1999	13,852	564,233	578,085	5,729,464	+ 3.6	+ 2.9
2000	10,677	645,776	656,453	6,412,876	+ 13.6	+ 11.9
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 <sup>3</sup>	+ 3	+ 2.7

<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 and is not involved in any gainful occupation.

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

<sup>3</sup> Provisional

Table 6.26 - Broadcasting services (end of period), Republic of Mauritius, 1994 - 2003

	Unit	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
<b>A. Sound</b>											
Channels	Number	5	5	6	7	7	7	8	8	8	11
Transmitters	"	17	19	20	20	20	22	24	18	21	24
Aerial output:											
Medium wave	kW	10	10	10	10/1	10/1	10/2	10/2	10/2	10/2	10/2
F.M	kW	0.5	0.5	1.3	1/0.3	1/0.3	1/0.5	1/0.5	1/0.5	1/0.5	1/0.5
Weekly transmission time	Hour	700	840	1,008	1,350	1,176	1,176	1,344	1,344	1,344	1,848
Private operators	Number	-	-	-	-	-	-	2	2	5	5
<b>B. Television</b>											
Channels	Number	2	5	5	6	6	4	4	4	4	6
Transmitters	"	44	50	51	55	57	53	59	78	55	72
Aerial output (ERP)	kW	0.4 - 30	0.4 - 30	0.4 - 30	0.4 - 30	0.4 - 30	0.4 - 30	0.4 - 30	0.4 - 30	0.4 - 30	0.4 - 30
Weekly transmission time	Hour	108	800	800	800	800	500	500	672	672	990
Television sets licensed											
Isl. of Mauritius	Number	162,700	165,400	172,080	192,711	214,574	216,691	219,282	230,676	236,551	253,126
Isl. of Rodrigues	"	2,695	2,900	3,440	3,770	4,104	4,356	4,575	4,760	4,934	6,286
Private operators	"	...	...	...	...	...	3	3	3	3	3

Table 6.27 - Telephone services (end of period), 1994 - 2003

	Unit	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003
Total line capacity of local exchanges	Number	154,471	183,000	253,852	264,627	267,788	268,210	299,034	354,557	387,924	351,146
Main telephone lines in operation	"	129,126	148,228	183,902	222,747	243,630	257,099	284,604	309,693	325,774	348,202
Cellular mobile telephone subscribers	"	5,706	11,735	23,000	44,000	61,000	80,000	126,600	278,500	366,438	466,327
National telephone traffic (calls) <sup>1</sup>	000	266,434	333,000	414,000	527,000	579,000	636,000	506,630 <sup>2</sup>	511,573 <sup>2</sup>	539,243 <sup>2</sup>	543,041 <sup>2</sup>
International outgoing telephone traffic:											
(a) calls	000	5,281	5,838	6,490	7,298	8,259	9,676	10,727	11,179	12,627	13,406
(b) minutes	000	18,903	20,022	21,732	24,642	27,626	31,474	34,641	35,535	36,516	43,416

Source: Mauritius Telecoms and Eimtel Ltd

<sup>1</sup> include only calls made via the Mauritius Telecom transmission network.<sup>2</sup> figures prior to and including 1999 relate to call units whereas 2000, 2001 and 2002 figures are for calls irrespective of duration

Table 6.28 - Health related statistics, 1998 - 2003

Year	1998	1999	2000	2001	2002	2003 <sup>2</sup>
No of doctors ( public sector ) <sup>1</sup>	590	585	663	694	703	765
No of doctors ( public and private sectors ) <sup>1</sup>	1,033	1,061	1,080	1,107	1,186	1,173
No of nurses ( public sector ) <sup>1</sup>	2,827	2,769	2,778	2,721	2,803	2,799
No of beds ( public and private sectors )	4,170	4,418	4,391	4,297	4,350	...
No of children immunised against Tuberculosis	16,238	16,829	16,923	16,611	16,658	17,021
No of children immunised against DPT ( diphtheria, pertussis, tetanus ) & Hepatitis B 3 <sup>rd</sup> dose	16,724	16,616	16,925	17,381	16,895	17,036
No of children immunised against Polio 3 <sup>rd</sup> dose	16,803	16,690	16,962	17,441	16,937	17,077
No of children immunised against Measles/Mumps/Rubella ( MMR )	15,863	15,581	16,354	16,846	19,190	17,309
No of cases of ( Imported ) Malaria reported	52	73	62	62	38	40
No of cases of ( Introduced ) Malaria reported	-	-	-	3	-	-

<sup>1</sup> Republic of Mauritius<sup>2</sup> Provisional

**Table 6.29 - Percentage distribution of private households by amenities available, Republic of Mauritius, 1990 and 2000 Housing Censuses**

Amenity available	Housing census	
	1990 (%)	2000 (%)
1. Electricity	96.8	99.0
2. Water supply :		
Piped water inside house	56.0	83.7
Piped water outside on premisses	33.5	14.5
Public fountain, well, river, etc.	10.5	1.8
3. Availability of water tank/reservoir	...	36.4
4. Bathroom	94.5	99.0
With running water	63.6	89.0
Without running water	30.9	10.0
None	5.5	1.0
5. Toilet	100.0	100.0
Flush toilet	62.8	88.8
Pit latrine	36.5	11.0
Other	0.7	0.2
6. Kitchen	97.6	99.2
Inside housing unit	64.9	87.8
Outside housing unit	32.7	11.4
None	2.4	0.8
7. Fuel for cooking :		
Gas	50.3	91.5
Wood and charcoal	26.3	4.5
Kerosene	21.7	3.4
Electricity	1.5	0.5
Other and not stated	0.2	0.1

**Table 6.30 - Percentage distribution of private households by method of refuse disposal, 1990 and 2000 Censuses**

Method of refuse disposal	Housing census	
	1990 (%)	2000 (%)
Receptacle with cover	31.1	...
Receptacle without cover	10.5	...
Enclosure made of bricks/stones	7.0	...
Regular collection	-	88.7
Irregular collection	-	4.9
Dumped on premises	15.9	1.3
Dumped on roadside	13.8	0.9
Ash pit	20.6	3.8
Other	1.1	0.4
Total	100.0	100.0



**Table 6.31 - Private households by principal fuel used for heating water for bathing, 2000 Housing and Population Census**

<b>Fuel type</b>	<b>Urban</b>	<b>Rural</b>	<b>Total</b>
Electricity	50,827	23,567	74,394
Gas	46,751	69,557	116,308
Solar	5,767	5,687	11,454
Other	4,788	18,446	23,234
None <sup>1</sup>	22,780	40,995	63,775
Not stated	5	-	5

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

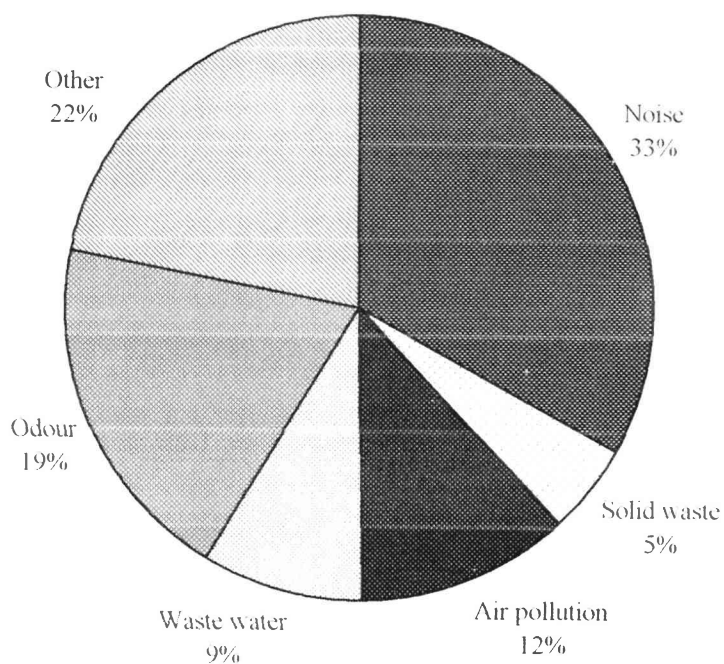
**Table 6.32 - No. of complaints received at the Pollution Prevention and Control Division of the Department of Environment by category, 1994 - 2003**

Category	1994	1995	1996	1997	1998	1999	2000	2001	2002	2003 <sup>1</sup>
Noise	100	87	106	86	150	121	555	821	458	583
Solid waste	56	56	43	35	85	57	586	758	88	88
Air pollution	55	45	35	18	47	32	71	188	229	209
Waste water	78	49	74	35	60	32	150	210	286	155
Animal husbandry	-	-	-	12	11	12	-	-	-	-
Odour	44	56	44	24	64	56	251	417	406	344
Other	37	56	90	85	86	93	293	657	189	389
<b>Total</b>	<b>370</b>	<b>349</b>	<b>392</b>	<b>295</b>	<b>503</b>	<b>403</b>	<b>1,906</b>	<b>3,051</b>	<b>1,656</b>	<b>1,768</b>

Source : Ministry of Environment and National Development Unit

<sup>1</sup> provisional

**Fig. 24 - No. of complaints received at the Pollution Prevention and Control Division of the Department of Environment by category, 2003**



**Table 6.33 - Contraventions and notices established by Police De L'Environnement, 2002 and 2003**

Type of contravention	2002	2003
Illegal Littering	3,731	3,965
Illegal Dumping	39	31
Noise	156	97
Smoking in prohibited area	267	40
Waste carriers offences	70	101
Setting fire within 50 metres from building/plantation	27	32
Obstruction	45	39
Road Traffic Offences	68	65
Trading without licence	50	126
Allowing animal to stray	18	40
Disturbance	4	11
Others	231	24
<b>Total</b>	<b>4,706</b>	<b>4,571</b>
No. of notices issued to drivers of vehicles emitting black smoke	2,764	3,666

Source: Ministry of Environment and National Development Unit.

**Table 6.34 - Employment by industrial group <sup>1</sup> and sex, March 2003, Republic of Mauritius**

Industrial group	Male	Female	Both sexes
<u>Agriculture, forestry and fishing</u>	<u>19,106</u>	<u>4,288</u>	<u>23,394</u>
Sugarcane	12,499	3,041	15,540
Tea	115	178	293
Tobacco	60	138	198
Flower growing	190	273	463
Fishing	678	60	738
Animal Farming	549	116	665
Agricultural & animal husbandry services	3,790	376	4,166
Forestry, logging & related service activities	1,199	18	1,217
Other	26	88	114
<u>Mining and quarrying</u>	<u>109</u>	<u>105</u>	<u>214</u>
<u>Manufacturing</u>	<u>47,415</u>	<u>61,492</u>	<u>108,907</u>
Food:			
Meat and fish processing	2,907	1,972	4,879
Bread	558	87	645
Sugar confectionery, biscuits and other farinaceous products	470	480	950
Sugar	2,208	22	2,230
Tea	172	37	209
Other	61	130	191
Beverage and tobacco:			
Distilleries & cigarette manufacture	308	84	392
Wine and beer	780	119	899
Soft drinks	1,435	90	1,525
Textiles	4,908	2,876	7,784
Wearing apparel (except footwear)	20,020	48,324	68,344
Leather products	194	637	831
Footwear	250	162	412
Wood products (except furniture)	342	170	512
Paper products	592	184	776
Printing and publishing	1,748	819	2,567
Chemical products	1,766	419	2,185
Rubber products	155	19	174
Plastic products	1,084	486	1,570
Non-metallic mineral products:			
Stone and concrete	1,179	81	1,260
Other	253	64	317
Basic metals	389	17	406
Fabricated metal products	1,554	282	1,836
Machinery & equipment	485	53	538
Electrical machinery & apparatus	342	159	501
Radio, television & communication equipment	124	53	177
Medical, optical & photographic equipment	427	539	966
Watches and clocks	267	408	675
Transport equipment	271	23	294

<sup>1</sup> Large establishment

Table 6.34(cont'd)-Employment by industrial group <sup>1</sup> and sex, March 2003, Republic of Mauritius

Industrial group	Male	Female	Both sexes
Furniture	942	132	1,074
Jewellery and related articles	922	1,167	2,089
Other manufacturing industries	302	1,397	1,699
<u>Electricity, gas and water</u>	<u>2,833</u>	<u>159</u>	<u>2,992</u>
<u>Construction</u>	<u>14,109</u>	<u>512</u>	<u>14,621</u>
<u>Wholesale &amp; retail trade, repair of m/vehicles, motorcycles, personal &amp; household goods</u>	<u>12,425</u>	<u>5,266</u>	<u>17,691</u>
Maintenance & repair of motor vehicles & motorcycles	331	46	377
Sale of motor vehicles, motor cycles & related parts; automotive fuel	1,320	263	1,583
Wholesale trade	6,485	1,972	8,457
Retail trade	4,289	2,985	7,274
<u>Hotels and restaurants</u>	<u>14,108</u>	<u>4,108</u>	<u>18,216</u>
Hotels	12,799	3,698	16,497
Restaurants	1,309	410	1,719
<u>Transport, storage &amp; communication</u>	<u>14,792</u>	<u>3,302</u>	<u>18,094</u>
Bus transport	5,721	84	5,805
Other land transport	818	156	974
Water & air transport	1,656	807	2,463
Cargo handling, storage & warehousing & related activities	3,144	513	3,657
Travel agencies & tour operators	605	724	1,329
Post & telecommunication	2,848	1,018	3,866
<u>Financial intermediation</u>	<u>4,285</u>	<u>3,102</u>	<u>7,387</u>
Banking	2,756	1,870	4,626
Insurance	1,221	987	2,208
Other	308	245	553
<u>Real estate, renting and business activities</u>	<u>6,633</u>	<u>2,261</u>	<u>8,894</u>
Real estate & renting of equipment	187	78	265
Computer services	863	752	1,615
Accounting & consultancy services	794	644	1,438
Architectural & engineering services	726	155	881
Advertising services	180	110	290
Security services	2,899	69	2,968
Other	984	453	1,437
<u>Public administration &amp; defence; compulsory social security</u>	<u>30,614</u>	<u>8,264</u>	<u>38,878</u>
<u>Education</u>	<u>10,869</u>	<u>9,766</u>	<u>20,635</u>
<u>Health and social work</u>	<u>6,069</u>	<u>5,539</u>	<u>11,608</u>
Health services	5,353	4,869	10,222
Social work activities	716	670	1,386
<u>Other community, social and personal services</u>	<u>4,858</u>	<u>2,110</u>	<u>6,968</u>
Cleaning services	1,941	1,045	2,986
Recreational & sporting activities	2,387	817	3,204
Other	530	248	778
<b>Total</b>	<b>188,225</b>	<b>110,274</b>	<b>298,499</b>

<sup>1</sup> Large establishment

Table 6.35 - Number of accidents by economic activity, bodily location and agency, Republic of Mauritius, ( July 2002 - June 2003 )

Economic Activity	Classification according to Bodily Location										Classification according to Agency							TOTAL
	1.Head	2.Neck(including throat & cervical vertebrae)	3.Trunk	4.Upper limb	5.Lower limb	6.Multiplelocations	7.General injuries	8.Unspecified location of Injury	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		
Agriculture, hunting & forestry	299	12	546	103	163	11	0	60	1,194	6	2	5	20	1,152	0	9	1,194	
Fishing	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Mining & quarrying	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Manufacturing	42	1	382	28	174	11	0	46	684	43	1	6	38	585	0	11	684	
Electricity, gas & water supply	0	0	2	0	0	0	0	0	2	0	0	0	0	2	0	0	2	
Construction	139	9	435	68	277	10	0	37	975	15	8	5	108	836	0	3	975	
Wholesale and retail trade; repair of motor vehicles,motor cycles and personal and household goods	8	1	72	16	39	6	0	13	155	2	2	1	5	137	0	8	155	
Hotels & restaurants	1	0	34	5	15	0	0	5	60	1	0	2	3	51	0	3	60	
Transport, storage & communications	23	3	194	35	56	8	0	13	332	1	2	2	6	317	0	4	332	
Financial intermediation	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Real Estate, renting & business activities	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Public administration & defence	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Education	0	0	0	0	1	0	0	0	1	0	0	0	0	1	0	0	1	
Health & social work	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Other community, social & personal service activities	7	0	46	12	34	4	0	14	117	1	1	0	1	110	0	4	117	
Private households with employed persons	3	0	58	4	24	8	0	10	107	6	1	0	6	84	0	10	107	
Extra-territorial organisations & bodies	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
<b>TOTAL</b>	<b>522</b>	<b>26</b>	<b>1,769</b>	<b>271</b>	<b>783</b>	<b>58</b>	<b>0</b>	<b>198</b>	<b>3,627</b>	<b>75</b>	<b>17</b>	<b>21</b>	<b>187</b>	<b>3,275</b>	<b>0</b>	<b>52</b>	<b>3,627</b>	

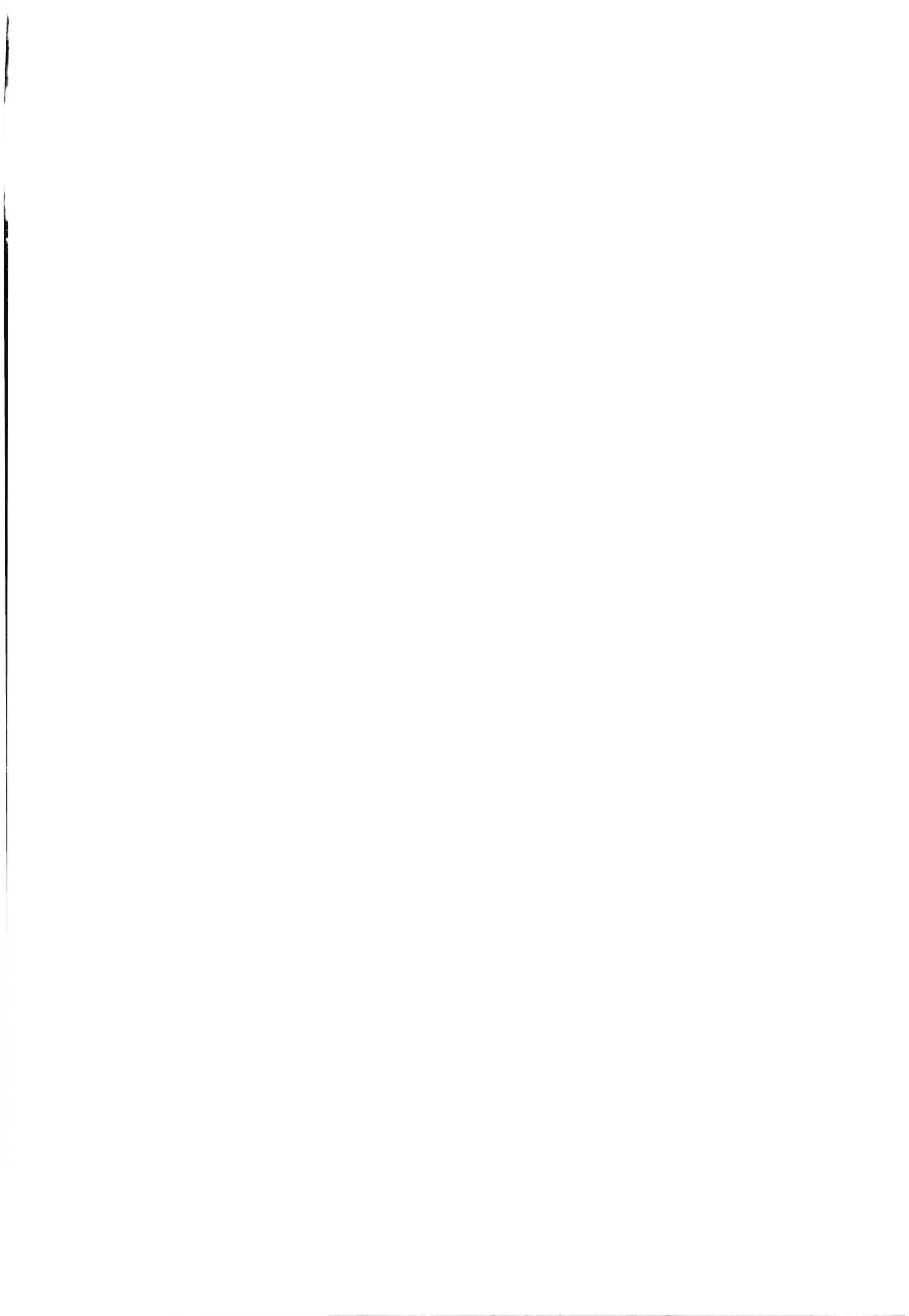
**Table 6.36 - Rating of the state of the environment by heads of households surveyed, 2001, Republic of Mauritius**

Situation	Percentage of households having rated the situation as :					
	Very Good	Good	Satisfactory	Poor	Bad	Total
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







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