

**Vol. 17**

**Ministry of Finance and Economic Development**

**Statistics Mauritius**

**Digest of Environment Statistics**

**2018**

**January 2020  
(Price Rs 275)**

# **Digest of Environment Statistics**

**2018**

# **DIGEST OF ENVIRONMENT STATISTICS - 2018**

## **Foreword**

This is the seventeenth issue of the Digest of Environment Statistics, an annual publication of Statistics Mauritius.

This report presents statistics according to the United Nations Framework for the Development of Environment Statistics 2013 (FDES 2013). FDES 2013 classifies environment statistics into six components namely: Environmental conditions and quality; Environmental resources and their use; Residuals; Extreme events and disasters; Human settlements and environmental health; and Environment protection, management and engagement.

The statistics provided in this publication are the latest available ones and cover the period 2009 to 2018, wherever possible. All of them, unless otherwise stated, refer to the Island of Mauritius.

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

The digest has been prepared with the collaboration of the Ministry of Environment, Solid Waste Management and Climate Change, and several other organisations. The co-operation and assistance of all these organisations are gratefully acknowledged.

**L. F. Cheung Kai Suet (Ms)**

**Director of Statistics**

Statistics Mauritius

Ministry of Finance, Economic Planning and Development

Port Louis

**Republic of Mauritius**

January 2020

Contact Persons :

Mrs Dicksha Mewa-Hurdowar, Statistician

Mr L.K. Dindoyal, Senior Statistical Officer

Environment Statistics Unit

Ministry of Environment, Solid Waste Management and Climate  
Change

Level 4, Ken Lee Tower

Line Barracks Street

Port Louis

Telephone: (230) 210-6186

Email: [cso\\_envi@govmu.org](mailto:cso_envi@govmu.org)

website: <http://statsmauritius.govmu.org>

**Contents**

	<b>Page</b>
Table of contents	1-8
Illustrations	9
Environment Statistics, 2018	10-19
Table 1 - Main environment indicators, 2017 and 2018	20
 <b>COMPONENT 1 : ENVIRONMENTAL CONDITIONS AND QUALITY</b>	
Table 1.1 - Main islets by geographical district and area, 2018	25
Table 1.2 - Monthly Mean temperature, 2009 - 2018	26
Table 1.3 - Monthly Mean maximum temperature, 2009 - 2018	27
Table 1.4 - Monthly Mean minimum temperature, 2009 - 2018	28
Table 1.5 - Mean annual rainfall by region, 2009 - 2018	29
Table 1.6 - Monthly Mean rainfall by region, 2018	30
Table 1.7 - Monthly (24-hourly maximum) rainfall by station, 2009 - 2018	32-33
Table 1.8 - Monthly mean relative humidity (%) with extremes, 2018	34
Table 1.9 - Mean monthly and extreme values of mean sea level atmospheric pressure at Plaisance aeronautical station, 2009 - 2018	35
Table 1.10 - Monthly mean wind speed and highest gusts at Plaisance aeronautical station, 2009 - 2018	36
Table 1.11 - Monthly total hours of sunshine by region and station, 2009 - 2018	37-38
Table 1.12 - Gross storage capacity and characteristics of reservoirs and major lakes	39
Table 1.13 - Percentage water level by month and reservoir, 2017 - 2018	40
Table 1.14 - Main rivers and streams, Island of Mauritius	42
Table 1.15 - Invasive alien plant and animal species	46
Table 1.16 - Number of mangroves planted and area covered, 2013 - 2018	47
Table 1.17 - Fauna population, Republic of Mauritius, 2014	47
Table 1.18 - Flora population, Republic of Mauritius, 2014	47
Table 1.19 - Status of endangered flora, 2016 - 2018	47
Table 1.20 - Evolution of some fauna population of endemic species, Republic of Mauritius, 2000, 2009 and 2012/2013	48
Table 1.21 - Areal estimates for the various Environmentally Sensitive Areas (ESA) by type and sub-category, Republic of Mauritius, 2009	49
Table 1.22 - Terrestrial protected areas, Republic of Mauritius - 2018	51
Table 1.23 - Marine Protected Areas, Republic of Mauritius, 2018	52
Table 1.24 - Forest area by category, 2009 - 2018	53
Table 1.25 - Changes in forest-land cover, 2009 and 2018	54
Table 1.26 - Forest plantations by type of plants, 2009 - 2018	54
Table 1.27 - Forest fires and area affected, 2009 - 2018	55
Table 1.28 - Monthly (24-hour average) ambient air quality monitoring by fixed station, 2018	56

Table 1.29 - Monthly average measurements (average seasonal removed) of Global Carbon dioxide (CO <sub>2</sub> ) concentration, 2009 - 2018	57
Table 1.30 - Monthly average measurements (average seasonal removed) of Global methane (CH <sub>4</sub> ) concentration, 2009 - 2018	58
Table 1.31 - Freshwater quality from selected boreholes by selected parameters, 2017 - 2018	59
Table 1.32 - River water quality by selected physico-chemical parameters, 2018	60
Table 1.33 - Range of levels of Nitrate-Nitrogen, Phosphate and Chemical Oxygen Demand (COD) at established coastal sites, 2018	61 - 62
Table 1.34 - Total Coliforms (TC) and Faecal Coliforms (FC) in coastal water at monitoring site and by station, 2012 - 2018	63 - 64
Table 1.35 - Physical and chemical characteristics of coastal water by level and monitoring site, 2012 - 2018	65 - 66
Table 1.36 - Sea water quality in the lagoon at Terre Rouge Rivulet Bird Sanctuary, 2009 - 2018	67
Table 1.37 - Guidelines for inland surface water quality, 1998	68
Table 1.38 - Mean sea surface temperature around the Island of Mauritius, 2009 - 2018	69
Table 1.39 - Number of noise complaints received by Ministry of Health and Wellness, 2009 - 2018	71
Table 1.40 - Noise monitoring surveillance after office hours and during weekends by "Noise Flying Squad", Ministry of Health and Wellness, 2013 - 2018	71

## **COMPONENT 2: ENVIRONMENTAL RESOURCES AND THEIR USE**

Table 2.1 - Energy balance, Republic of Mauritius, 2018	74
Table 2.2 - Energy Balance, Republic of Mauritius, 2017	75
Table 2.3 - Primary energy requirement, (Energy unit), Republic of Mauritius, 2009 - 2018	76
Table 2.4 - Imports of energy sources (Energy unit), Republic of Mauritius, 2009 - 2018	76
Table 2.5 - Plant capacity, peak power demand and electricity generation, Republic of Mauritius, 2009 - 2018	77
Table 2.6 - Electricity generation by source of energy, Republic of Mauritius, 2009 - 2018	77
Table 2.7 - Fuel input for electricity production, (Energy unit), Republic of Mauritius, 2009 - 2018	78
Table 2.8 - Final energy consumption by sector and type of fuel (Energy unit), Republic of Mauritius, 2009 - 2018	78
Table 2.9 - Final energy consumption by sector (Energy unit), Republic of Mauritius, 2009 - 2018	79
Table 2.10 - Percentage share of final energy consumption by sector, Republic of Mauritius, 2009 - 2018	79
Table 2.11 - Land use by category, 1995 and 2005	80
Table 2.12 - Land under irrigation, 2009 - 2018	81
Table 2.13 - Deforestation rate of forestland, 2009 - 2018	82
Table 2.14 - Local production of logs, poles and fuelwood, 2009 - 2018	82
Table 2.15 - Forest area by primary designated function, Republic of Mauritius, 1990 - 2015	83
Table 2.16 - Imports and value (c.i.f) of forest products, 2009 - 2018	84
Table 2.17 - Domestic exports and value (f.o.b) of forest products, 2009 - 2018	85
Table 2.18 - Fish production by type of fishery (in fresh - weight equivalent), 2009 - 2018	86
Table 2.19 - Annual fish catch of the coastal (artisanal) fishery by gear - type, 2009 - 2018	87
Table 2.20 - Annual catch by banks, 2009 - 2018	87

Table 2.21 - Aquaculture production by species, 2014 - 2018	87
Table 2.22 - Import, export and trade balance of fish and fish products, 2009 - 2018	88
Table 2.23 - Agricultural crops - Area harvested and production, 2009 - 2018	89
Table 2.24 - Area harvested and production of main annual and perennial crops - Island of Mauritius, 2014 - 2018	90 - 91
Table 2.25 - Imports of crops, Republic of Mauritius, 2009 - 2018	92 - 94
Table 2.26 - Exports of crops, Republic of Mauritius, 2009 - 2018	95 - 97
Table 2.27 - Imports and value (c.i.f) of fertilisers and pesticides, 2009 - 2018	97
Table 2.28 - Number of small breeders and livestock population by geographical district as at December 2018	98
Table 2.29 - Livestock herd and poultry status by geographical district as at December 2018	98-99
Table 2.30 - Livestock slaughtered, 2014 - 2018	100
Table 2.31 - Imports of vaccines for veterinary medicines, 2015 - 2018	100
Table 2.32 - Imports of selected livestock, 2014 - 2018	101
Table 2.33 - Exports of selected live animals, 2014 - 2018	102
Table 2.34 - Water balance, 2009 - 2018	103
Table 2.35 - Average annual (2001 - 2010) volume of water measured at the flow measuring station on selected rivers	104
Table 2.36 - Fresh water abstractions by source, 2009- 2018	105
Table 2.37 - Fresh water abstractions by sector, 2009 - 2018	105
Table 2.38 - Water utilisation, Island of Mauritius, 2017 - 2018	106
Table 2.39 - Volume of treated effluent from wastewater treatment plants used for irrigation, 2009 - 2018	107
Table 2.40 - Daily per capita domestic and potable water consumption, 2009 - 2018	108
Table 2.41 - Volume of water used by the Central Electricity Board for hydropower generation, 2009 - 2018	108
Table 2.42- Water supply by economic activity, 2009 - 2018	109

### **COMPONENT 3 : RESIDUALS**

Table 3.1 - National inventory of greenhouse gas emissions by sector, Republic of Mauritius, 2015 - 2018	112
Table 3.2 - National inventory of greenhouse gas emissions (carbon dioxide, methane, nitrous oxide and HFC's) and removals by source categories, Republic of Mauritius, 2009 - 2018	113 -115
Table 3.3 - Greenhouse gas emissions from energy sector (fuel combustion activities), Republic of Mauritius, 2014 - 2018	115
Table 3.4 - National inventory of greenhouse gas (GHG) emissions by source categories, Republic of Mauritius, 2009 - 2018	116
Table 3.5 - Trend in Energy intensity index, Energy consumption per capita index, GHG Emission per capita index and GHG emission per GDP index, 2009 - 2018	117
Table 3.6 - Consumption of controlled ozone-depleting substances by sector, 2009 - 2018	117
Table 3.7 - Consumption of controlled ozone-depleting substances by type of substances, 2009 - 2018	118
Table 3.8 - Volume of wastewater treated by public treatment stations and by type of treatment, 2009 - 2018	119
Table 3.9 - Volume of wastewater treated, number and capacity of treatment plants, 2009 - 2018	120
Table 3.10 - Discharge of treated wastewater to environment, 2009 - 2018	120

Table 3.11 - Average volume of wastewater treated by station, treatment level, final discharge point and monitoring of selected chemical parameters, 2018	121 -122
Table 3.12 - Disposal of solid waste at Mare Chicose landfill site by type, 2009 - 2018	123
Table 3.13 - Disposal of solid waste at Mare Chicose landfill site by economic activity, 2009 - 2018	124
Table 3.14 - Management of solid waste, 2009 - 2018	125
Table 3.15 - Number and capacity of solid waste transfer stations, 2018	125
Table 3.16 - Exports of selected wastes, 2009 - 2018	126

#### **COMPONENT 4 : EXTREME EVENTS AND DISASTERS**

Table 4.1 - Tropical storms/cyclones when warnings were issued for Island of Mauritius, 1991 - 2018	129
Table 4.2 - Number of incidents related to flooding and hazardous material release attended by Mauritius Fire and Rescue Service and number of persons evacuated by fire station - Island of Mauritius, 2016 - 2018	130

#### **COMPONENT 5 : HUMAN SETTLEMENTS AND ENVIRONMENTAL HEALTH**

Table 5.1 - Evolution of the population by urban / rural residence and sex between the 2000 and 2011 Population Censuses	132
Table 5.2 - Evolution of the population by geographical district and sex between the 2000 and 2011 Population Census	132
Table 5.3 - Estimated resident population by urban / rural residence and sex - Republic of Mauritius, 2017 & 2018	133
Table 5.4 - Urban and rural area and population, Republic of Mauritius, 2011	134
Table 5.5 - Population by geographical district and type of water supply, Republic of Mauritius, 2011 Housing Census	135
Table 5.6 - Population by geographical district and type of toilet facilities, Republic of Mauritius, 2011	136
Table 5.7 - Population connected to sewerage system by geographical district, Republic of Mauritius, 2011 Housing Census	137
Table 5.8 - Population by geographical district and method of refuse disposal, Republic of Mauritius, 2011 Housing Census	138
Table 5.9 - Water sales by tariff of subscriber, 2017 - 2018	139
Table 5.10 - Population with access to electricity by geographical district, Republic of Mauritius, 2011 Housing Census	140
Table 5.11 - Sales of electricity by type of tariff, Republic of Mauritius, 2017 - 2018	141
Table 5.12 - Number of buildings by type, Republic of Mauritius, 2000 and 2011 Housing Censuses	142
Table 5.13 - Residential and partly residential buildings by type, Republic of Mauritius, 2000 and 2011 Housing Censuses	142
Table 5.14 - Number of improvised housing units and population by geographical district, Republic of Mauritius, 2000 and 2011 Housing Censuses	143
Table 5.15 - Residential and partly residential buildings by type of wall and roof materials, Republic of Mauritius, 2000 and 2011 Housing Censuses	144
Table 5.16 - Distribution of housing units by occupancy status, Republic of Mauritius, 2000 and 2011 Housing Censuses	144
Table 5.17 - Vehicles registered by type, 2009 - 2018	145



Table 5.18 - Road network, 2009 - 2018	146
Table 5.19 - Respiratory diseases registered in government hospitals, 2009 - 2018	147
Table 5.20 - Admissions due to certain respiratory diseases by sex in government general hospitals, 2012 - 2018	148
Table 5.21 - Cases of asthma treated as in-patients in government hospitals, 2009 - 2018	149
Table 5.22 - Deaths registered due to asthma, 2009 - 2018	149
Table 5.23 - Cases of asthma treated as in-patients in government hospitals by age group and sex, 2017 - 2018	150
Table 5.24 - Enteritis and other diarrhoeal diseases, 2009 - 2018	151
Table 5.25 - New cases of certain notifiable diseases reported to sanitary authorities, 2009 - 2018	152
Table 5.26 - Incidence rate of selected notifiable diseases reported to sanitary authorities, 2009 - 2018	153
Table 5.27 - Death due to selected diseases , 2009 - 2018	153
Table 5.28 - First attendances for the treatment of gastro-enteritis at community hospitals, medi-clinics, area health centres and community health centres, by sex, 2009 - 2018	153

## **COMPONENT 6 : ENVIRONMENT PROTECTION, MANAGEMENT AND ENGAGEMENT**

Table 6.1 - Annual Government Expenditure on environmental protection (Budgetary Central Government) by Environment function, 2012 - 2014, 2015/2016, 2016/2017 and 2017/2018	156
Table 6.2 - Annual budget of the Ministry of Environment, Solid Waste Management and Climate Change, 2012 -2017/2018	157
Table 6.3 - Amount collected on environment protection fee, 2010 - 2017/2018	158
Table 6.4 - Main environmental authority, 2018	159
Table 6.5 - Environmental Standards and Regulations under the Environment Protection Act 2002	160-161
Table 6.6 - Licensing system to ensure compliance with environmental standards for businesses, 2018	162
Table 6.7 - List, description and amount collected for green/environmental taxes, 2017/2018	163
Table 6.8 - Quantity of polyethylene terephthalate (PET) products exported, 2018	164
Table 6.9 - Quantity of PET bottles on which excise duty has been collected from local manufacturers, 2018	164
Table 6.10- Multilateral Environmental Agreements (MEA's) and other Global Environmental Conventions, 2018	165-168
Table 6.11 - National disaster schemes, 2015	169
Table 6.12 - Emergency shelters by region and capacity, 2015	170
Table 6.13 - Some publicly accessible environmental information	171
Table 6.14- Description of national environment statistics programmes	171
Table 6.15 - Type of environment statistics products and periodicity of update	172
Table 6.16 - List of institutions/organisations providing data for the production of environment statistics, 2018	173
Table 6.17 - Environmental education programmes and number of participants, 2018	174
Table 6.18 - Non-Government Organisations affiliated to the Ministry of Environment, Solid Waste management and Climate Change, 2018	175-178

Table 6.19 - Number of permits and floor area by region, 2014 - 2018	179
Table 6.20 - Number of permits and floor area by type of building, 2014 - 2018	180
Table 6.21 - Number of Environmental Impact Assessment (EIA) licences granted by type of project, 2009 - 2018	181
Table 6.22 - Number of Preliminary Environmental Report (PER) approvals granted by type of project, 2009 - 2018	181
Table 6.23 - No. of complaints received at the Pollution Prevention and Control Division by category, 2009 - 2018	182
Table 6.24- Contraventions established and notices issued by "Police De L'Environnement", 2009 - 2018	183
Table 6.25 - Number of offences detected against forest laws by category, 2009 - 2018	184

## STATISTICS ON ENVIRONMENT FROM SURVEYS

Table 7.1 - Households with members suffering from health problems related to air pollution by type of problem, Continuous Multi-Purpose Household Survey (CMPHS) 2001, Republic of Mauritius	188
Table 7.2 - Rating of the state of the environment by head of household surveyed, Continuous Multi-Purpose Household Survey (CMPHS) 2001, Republic of Mauritius	188
Table 7.3 - Percentage distribution of households surveyed by specified environment problem, Continuous Multi-Purpose Household Survey (CMPHS) 2002, Republic of Mauritius	189
Table 7.4 - Distribution of households surveyed by methods of carrying goods purchased, Continuous Multi-Purpose Household Survey (CMPHS) 2002, Republic of Mauritius	189
Table 7.5 - Percentage distribution of households by response on solid waste issues, Continuous Multi-Purpose Household Survey (CMPHS) 2007, Republic of Mauritius	190
Table 7.6 - Percentage distribution of households by environmental issues, Continuous Multi-Purpose Household Survey (CMPHS) 2007, Republic of Mauritius	190
Table 7.7 - Percentage distribution of households surveyed by type of vehicles owned, Continuous Multi-Purpose Household Survey (CMPHS) 2009, Republic of Mauritius	191
Table 7.8 - Percentage distribution of households surveyed reporting on average kilometres travelled per year by type of vehicles owned, Continuous Multi-Purpose Household Survey (CMPHS) 2009, Republic of Mauritius	191
Table 7.9 - Percentage distribution of households surveyed by awareness of global environment challenges, Continuous Multi-Purpose Household Survey (CMPHS) 2009, Republic of Mauritius	192
Table 7.10 - Percentage distribution of households surveyed by type and number of vehicles owned, Continuous Multi-Purpose Household Survey (CMPHS) 2009, (Republic of Mauritius)	192
Table 7.11 - Number and percentage distribution of tourists interviewed by rating of the state of the environment at various sites, Survey of outgoing tourists, 2000 & 2002	193
Table 7.12 - Percentage distribution of households by awareness of environmental issues, Continuous Multi-Purpose Household Survey (CMPHS) 2012, Republic of Mauritius	194
Table 7.13 - Percentage distribution of households taking measures to reduce/reuse/recycle waste, Continuous Multi-Purpose Household Survey (CMPHS) 2012, Republic of Mauritius	194
Table 7.14 - Percentage distribution of households collecting and using rainwater for household purposes, Continuous Multi-Purpose Household Survey (CMPHS) 2012, Republic of Mauritius	195
Table 7.15 - Percentage distribution of households equipped with solar water heater, Continuous Multi-Purpose Household Survey (CMPHS) 2012, Republic of Mauritius	195

Table 7.16 - Percentage distribution of households equipped with a solar water heater by geographical district, Continuous Multi-Purpose Household Survey (CMPHS) 2012, Republic of Mauritius	196
Table 7.17 - Percentage distribution of households not interested to buy a solar water heater by reason, Continuous Multi-Purpose Household Survey (CMPHS) 2012, Republic of Mauritius	196
Table 7.18 - Percentage distribution of households by measures taken to reduce electrical energy consumption, Continuous Multi-Purpose Household Survey (CMPHS) 2012, Republic of Mauritius	197
Table 7.19 - Percentage distribution of households by awareness of environmental issues, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius	198
Table 7.20 - Percentage distribution of households by awareness of "Environmental Awareness Campaigns", Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius	198
Table 7.21 - Number and percentage distribution of households reporting on awareness of "Say No to Plastic bags" campaign by extent of success in reducing use of plastic bags, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius	199
Table 7.22 - Percentage distribution of households reporting on extent of use of reusable long-lasting and eco-friendly shopping bags, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius	199
Table 7.23 - Number and percentage of households by main option favoured to reduce plastic bags in the country, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius	199
Table 7.24 - Number and percentage of households reporting on availability of drop-off bins in their locality for the disposal of segregated wastes, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius	200
Table 7.25 - Number and percentage of households reporting on segregation of wastes generated for recycling including composting, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius	200
Table 7.26 - Percentage of households reporting on segregation of wastes generated for recycling including composting by type of wastes, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius	200
Table 7.27 - Percentage of households reporting on disposal of segregated wastes by type of disposal method, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius	201
Table 7.28 - Percentage of households reporting on difficulties to dispose of segregated wastes for recycling, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius	201
Table 7.29 - Percentage of households that would consider to start segregation of waste for recycling, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius	201
Table 7.30 - Percentage of households reporting on means to enhance participation in waste segregation, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius	202
Table 7.31 - Percentage of households reporting on disposal of some selected waste, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius	202
Table 7.32 - Percentage of households reporting on engagement in activities related to environmental protection, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius	203
Table 7.33 - Percentage of households reporting on awareness of "Climate Change", Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius	203
Table 7.34 - Percentage of households reporting on "Climate Changes" affecting their household, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius	204
Table 7.35 - Percentage distribution of establishments taking measures to reduce energy consumption, Census of Economic Activities 2013 - Small Establishments, Republic of Mauritius	205

Table 7.36 - Percentage distribution of establishments taking measures to reduce water consumption, Census of Economic Activities 2013 - Small Establishments, Republic of Mauritius	206
Technical Notes	208
Concepts and Definitions	208 - 213
Abbreviations and symbols	214

## ILLUSTRATIONS

	Page
Figure 1.1 - Map, Republic of Mauritius	23
Figure 1.2 - Geological and morphological map of Mauritius	24
Figure 1.3 - Rainfall difference from Long Term Mean, 2018	31
Figure 1.4 - Mean rainfall, 2009 - 2018	31
Figure 1.5 - Rivers, reservoirs and catchment boundaries, Mauritius	41
Figure 1.6 - Main aquifers	43
Figure 1.7 - Major soil groups, Mauritius	43
Figure 1.8 - Average yearly sea level for Mauritius, 1985 - 2010	45
Figure 1.9 - Map of Areal estimates for the various Environmentally Sensitive Areas by type and sub category, 2009	50
Figure 1.10 - Percentage composition of forest plantations, 2018	54
Figure 1.11 - Forest fires and area affected, 2009 - 2018	55
Figure 1.12 - Monthly average measurements (average seasonal removed) of Global Carbon Dioxide (CO <sub>2</sub> ) concentration, 2009 - 2018	57
Figure 1.13 - Monthly average measurements (average seasonal removed) of Global methane (CH <sub>4</sub> ) concentration, 2009 - 2018	58
Figure 1.14 - Mean percentage of bleached and unbleached corals recorded during quantitative surveys at selected reefs sites, 2016	70
Figure 2.1 - Imports of energy sources, Republic of Mauritius, 2009 - 2018	77
Figure 2.2 - Percentage share of final energy consumption by sector, Republic of Mauritius, 2009 - 2018	79
Figure 2.3 - Land use by category, 2005	80
Figure 2.4 - Import and export of fish and fish products, 2009 - 2018	88
Figure 2.5 - Water balance, 2009 - 2018	103
Figure 2.6 - Water utilisation, 2018	106
Figure 2.7 - Daily per capita domestic and potable water consumption, 2009 - 2018	108
Figure 3.1 - Percentage of greenhouse gas (GHG) emissions from energy sector (fuel combustion activities), Republic of Mauritius, 2014 - 2018	115
Figure 3.2 - Trend in Energy Intensity Index, Energy consumption per capita Index, GHG Emission per capita Index and GHG emission per GDP Index, 2009 - 2018	117
Figure 3.3 - Consumption of ozone depleting substances, hydrochlorofluorocarbons (HCFC's), 2009- 2018	118
Figure 5.1 - Vehicles registered by type, 2009 - 2018	146
Figure 5.2 - Number of hybrid and electric vehicles registered, 2009 - 2018	146
Figure 6.1 - Number of offences against forest laws by category, 2009 - 2018	186

## **Environment Statistics, 2018**

### **1. Environmental Conditions and Quality**

#### **1.1 *Geological, geographical and morphological conditions***

##### *(i) Area of country*

The Republic of Mauritius is a group of islands in the South West of the Indian Ocean, consisting of the Islands of Mauritius (main island and surrounding islets, 1,868.4 km<sup>2</sup>), Island of Rodrigues (main island and surrounding islets, 110.1 km<sup>2</sup>), Agalega and St Brandon (28.7 km<sup>2</sup>). The total land area of the Republic of Mauritius is 2,007.2 km<sup>2</sup> (Figure 1.1).

##### *(ii) Main geomorphological characteristics*

The Island of Mauritius (except for the beaches and coral reef formation) has been created entirely by three periods of volcanic activity. The geology of the island is basically basalt everywhere but the three phases of volcanic activity has given rise to different types of rock. The geological and morphological map is shown in Figure 1.2.

The island consists of a central plateau surrounded by mountain ranges and plains. The plateau rises to a maximum elevation of about 600 m (a.m.s.l) in the south of the island and has a mean elevation of about 300-400 m (a.m.s.l), the highest peak being 828 m (a.m.s.l).

##### *(iii) Islets*

The Island of Mauritius is surrounded by a number of islets ranging from 0.03 to 253 hectares covering a total area of around 1,026 hectares (Table 1.1).

#### **1.2 *Temperature***

In 2018, February was the warmest month in the Island of Mauritius with a mean of 27.0°C and July, the coolest month with a mean of 21.2°C (Table 1.2).

In 2018, the mean maximum temperature was above the long term (1981-2010) mean for all months of the year except for January. However, the mean minimum temperature was above the long term mean for all the months of 2018. (Tables 1.3 & 1.4).

The highest maximum temperature recorded was 35.8 °C, recorded on 2 February 2018 in Riviere Noire. The lowest minimum temperature was 9.8 °C, which was recorded on 30 August 2018 at Mon Desert Alma.

#### **1.3 *Precipitation***

During the year 2018, the mean amount of rainfall recorded around the Island of Mauritius was 2,816 millimetres (mm), representing a rise of 31.6% compared to 2,140 mm in 2017 and an increase of 40.6% from the long term (1981-2010) mean of 2,003 mm (Table 1.5).

The wettest month in 2018 was January with a mean of 794 mm, which represented a surplus of 202% relative to the long term (1981-2010) mean of 263 mm. August was the driest month with a mean of 36 mm of rainfall, registering a deficit of 66% compared to the long term (1981-2010) mean of 106 mm (Table 1.6).

#### **1.4 Solar radiation**

##### ***(i) Sunshine hours***

In 2018, there was a deficit of 280 hours of sunshine recorded at Fuel station, 172 hours at Medine station, 161 hours at Vacoas station and 81 hours at Plaisance station when compared to their respective long term (1981-2010) mean (Table 1.11).

#### **1.5 Reservoirs and lakes**

There are 12 reservoirs with total gross capacity of around 105.50 Mm<sup>3</sup> and two major lakes in the Island of Mauritius (Table 1.12). Table 1.13 shows the monthly average percentage and the long term (1990-1999) mean water level by reservoir. In 2018, the monthly average water level in the largest reservoir, Mare aux Vacoas, was above the long term (1990-1999) mean for the months of January to October.

#### **1.6 Rivers, catchment areas and aquifers**

The Island of Mauritius has a network of 25 major river basins and 21 minor river basins with catchment areas varying from 3.9 to 173 km<sup>2</sup> (Figure 1.5). The five main aquifers are shown in Figure 1.6.

#### **1.7 Seas**

The coastline of Mauritius is around 322 km long, the length of reef is about 150 km covering an area of 300 km<sup>2</sup>. The country has jurisdiction over a large Exclusive Economic Zone of approximately 2.3 million km<sup>2</sup>.

#### **1.8 Biodiversity**

##### ***(i) Fauna and flora species***

Table 1.17 shows the fauna population in the Republic of Mauritius. To date, 1 endemic species of bat, 7 endemic species of land birds and 11 endemic reptile species exist in the Island of Mauritius.

Of the 691 species of indigenous flowering plants that used to be found in Mauritius, 630 exist of which 243 are endemic (Table 1.18).

#### **1.9 Protected species and areas**

##### ***(i) Protected fauna species***

The evolution of some fauna population of endemic species is given in Table 1.19.

(ii) Protected terrestrial and marine area

The terrestrial protected areas are listed in Table 1.22. State protected mainland and offshore islets accounted for 8,375 hectares and privately owned protected areas, 6,540 hectares. Table 1.23 lists the marine protected areas.

**1.10 Forest area**

Preservation of forests is vital for the protection of the ecosystem. Total forest area was 47,048 hectares in 2018, 18 hectares less than in 2017. Some 22,048 hectares (47%) of the total forest area in 2018 was state-owned and the remaining 25,000 hectares (53%) was privately-owned (Table 1.24).

Out of the 22,048 hectares of state-owned forest area, 11,799 hectares (53.5%) were planted areas, while the Black River Gorges National Park and the nature reserves accounted for 6,574 (29.8%) and 799 (3.6%) hectares respectively. “Pas Geometriques” covered about 606 hectares (2.7%), other nature parks, 908 hectares (4.1%), Ramsar sites, 46 hectares (0.2%) and other forest lands, 1,316 hectares (6%).

The 25,000 hectares of privately-owned forest lands consisted of 18,447 (74%) hectares of plantation, forest lands, scrub and grazing lands, and 6,553 (26%) hectares of mountain, rivers and nature reserves.

**2. Environmental Resources and their Use**

**2.1 Production of energy**

(i) Local production (renewable)

From 2017 to 2018, total energy production from local renewable sources decreased by 4.7% from 215 ktoe to 204 ktoe. This was due to a decrease of 7.3% in the production of bagasse from 194 ktoe to 180 ktoe and 3.3 % for fuelwood from 6.35 ktoe to 6.14 ktoe. On the other hand, there was an increase of 38.7% for hydro from 7.72 ktoe to 10.71 ktoe, 33.8% for landfill gas from 1.46 ktoe to 1.95 ktoe, 25.9% for photovoltaic from 3.37 ktoe to 4.24 ktoe and 3.2% for wind from 1.26 ktoe to 1.30 ktoe (Tables 2.1 and 2.2).

(ii) Imports of energy sources

Fossil fuel (petroleum products and coal) imports was 3.1% lower in 2018 (2,453.3 ktoe) than in 2017 (2,531.4 ktoe). Compared to 2017, imports of petroleum products went up by 0.8% (from 1,644.5 to 1,656.7 ktoe) and those of coal decreased by 10.3% (from 886.9 to 795.7 ktoe) - (Table 2.4 and Fig. 2.1). In 2018, coal constituted around 32.4% of fossil fuel imports, fuel oil 26.0%, diesel oil 13.6%, dual purpose kerosene 13.0%, gasoline 7.6% and LPG 7.4%.

**2.2 Primary energy requirement**

(i) Primary energy requirement from fossil fuel

In 2018, around 87.1% (1,382 ktoe) of the total primary energy requirement (1,586 ktoe) was met from imported fossil fuels (petroleum products, 58.9% and coal, 28.2%) against 86.6%



(1,385 ktoe) in the preceding year. The share of the different fossil fuels within the total primary energy requirement in 2018 was as follows: coal (28.2%), fuel oil (17.6%), diesel oil (13.7%), gasoline (12.1%), aviation fuel (10.2%), Liquefied Petroleum Gas (LPG) (5.3%) and kerosene (0.04%).

Energy supply from petroleum products increased by 2.2% from 914 ktoe in 2017 to 934 ktoe in 2018. It comprised fuel oil (29.8%), diesel oil (23.2%), gasoline (20.5%), dual purpose kerosene (17.5%) and LPG (9.0%). Supply of coal decreased by 5.0% from 471 ktoe in 2017 to 448 ktoe in 2018 (Table 2.3).

*(ii) Primary energy requirement from local sources (renewables)*

In 2018, primary energy requirement obtained from local renewable sources namely: hydro, wind, landfill gas, photovoltaic, bagasse and fuelwood stood at 204 ktoe and it accounted for around 13% of the total primary energy requirement. Bagasse and hydro contributed around 88% and 5% of the local renewable sources respectively while wind, landfill gas, photovoltaic and fuelwood accounted for the remaining 7% (Table 2.3).

### **2.3 Electricity generation**

The peak power demand in 2018 reached 468.2 MW in the Island of Mauritius as compared with 461.5 MW in 2017, up by 1.5% (Table 2.5).

Some 3,132 GWh (269 ktoe) of electricity was generated in 2018. Around 79% (2,483 GWh or 214 ktoe) of the electricity was generated from non-renewable sources, mainly coal and fuel oil while the remaining 21% (649 GWh or 56 ktoe) were from renewable sources, mostly bagasse (Table 2.6).

Between 2017 and 2018, (i) total electricity generated increased by 0.4% from 3,120 GWh to 3,132 GWh, (ii) electricity generated from coal decreased by 4.0% from 1,312 GWh to 1,260 GWh and that from fuel oil and diesel oil together increased by 3.4% from 1,181 GWh to 1,222 GWh, and (iii) electricity generated from renewable sources increased from 624 GWh to 649 GWh, up by 4.0%. Landfill gas went up by 33.7% from 17 GWh to 23 GWh, bagasse decreased by 5.6% from 463 GWh to 437 GWh and hydro increased by 38.6% from 90 GWh to 125 GWh and wind by 3.4% from 14.6 GWh to 15.1 GWh. Also, photovoltaic went up by 26.0% from 39 GWh to 49 GWh.

### **2.4 Final energy consumption**

Final energy consumption increased by 1.1% from 979 ktoe in 2017 to 989 ktoe in 2018 (Table 2.8).

The two main energy-consuming sectors were “Transport” and “Manufacturing”, accounting respectively for 54.6% and 20.6% of the final energy consumed. These sectors were followed by the household sector (14.0%), commercial and distributive trade (10.2%) and agriculture (0.4%).

### **2.5 Land use categories**

Land use refers to the main activity taking place on an area of land, for example, farming, forestry or housing. Based on latest available data in 2005 (Table 2.11 and Figure 2.3), sugar cane

plantations occupied 39% (72,000 hectares) of the total land area of the Island of Mauritius, forest, scrubs and grazing lands 25% (47,200 hectares) and built-up areas another 25% (46,500 hectares).

During the period 1995 to 2005, the land occupied by sugarcane, tea plantations and forestry decreased while that of built-up areas, other agricultural activities, and infrastructure and inland water resource systems went up.

## **2.6 Fish capture production**

The production of fish increased by 23.1% from 23,732 tonnes in 2017 to 29,208 tonnes in 2018 (Table 2.18). In 2018, fish catch through coastal (artisanal) fishery was around 843 tonnes, representing an increase of 48.4% over the previous year figure of 568 tonnes. Basket trap accounted for 36% of the total catch, followed by line 31% and large net 19 % (Table 2.19).

## **2.7 Annual and perennial crops**

### *(i) Sugar cane*

The production of sugar cane went down by 15.0% from 3,713,331 tonnes in 2017 to 3,154,516 tonnes in 2018. The area harvested decreased by 4.6% from 49,974 hectares in 2017 to 47,678 hectares in 2018. The average yield has decreased by 11.0% from 74.31 tonnes per hectares in 2017 to 66.16 in 2018 (Table 2.23). The production of sugar, went down by 9.0% from 355,213 tonnes in 2017 to 323,406 tonnes in 2018. Compared to 9.57% in 2017, the average extraction rate was 10.25% in 2018, representing an increase of 0.69%.

### *(ii) Tea*

The area under tea plantation in 2018 was 656 hectares, representing an increase of 5.5% as compared to 622 hectares in 2017. The production of green tea leaves went up from 7,309 tonnes in 2017 to 8,056 tonnes in 2018 (Table 2.23).

### *(ii) Foodcrops*

The area under food crops harvested decreased by 1.7% from 7,780 hectares in 2017 to 7,646 hectares in 2018. Production of food crops decreased by 9.2% from 106,621 tonnes to 96,847 tonnes in 2018 (Table 2.23).

## **2.8 Fertilisers and pesticides**

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. Between 2017 and 2018, import of fertilizers decreased by 23.3% (from 44,028 to 33,750 tonnes). Import of pesticides increased by 6.6% (from 2,427 to 2,587 tonnes) - (Table 2.27).

## **2.9 Livestock**

As at December 2018, the livestock population of cattle, goat, sheep and pig was 51,715 heads in the Island of Mauritius. Goats dominated the livestock population with an estimated

population of 25,540 heads (49%), followed by pig, 19,662 (38%), cattle, 3,508 (7%) and sheep, 3,005 (6%) - (Table 2.28).

In 2018, the production of beef from live cattle was 2,052.5 tonnes, which is 1.2 % lower than the figure of 2,078 tonnes registered in 2017. Beef production from the slaughter of imported cattle, accounting for 96.2% of the total production, decreased by 0.9% from 1,992 tonnes to 1975 tonnes. Local beef production (including Rodrigues) decreased by 9.3% from 86.2 tonnes to 77.5 tonnes (Table 2.30).

The production of goat meat and mutton went up by 8.9% from 56 tonnes in 2017 to 61 tonnes in 2018. The production of pork decreased by 10.4% from 606 tonnes in 2017 to 543 tonnes in 2018.

### **2.10 Water balance**

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

In 2018, the Island of Mauritius received 5,252 million cubic metres (Mm<sup>3</sup>) of water from precipitation (rainfall), 31.6% higher when compared to 3,991 Mm<sup>3</sup> in 2017. Only 10 % (525 Mm<sup>3</sup>) of the water went as ground water recharge, while evapotranspiration and surface runoff accounted for 30% (1,576 Mm<sup>3</sup>) and 60% (3,151 Mm<sup>3</sup>) respectively (Table 2.34).

### **2.11 Water utilization**

Total water utilisation was estimated at 994 Mm<sup>3</sup> in 2018. Around 84% (839 Mm<sup>3</sup>) of the total water utilisation was met from surface water and the remaining 15% from ground water and 1% from reuse of treated wastewater (155 Mm<sup>3</sup>).

The agricultural sector accounted for 31% (304 Mm<sup>3</sup>) of the water utilised, hydropower 40% (398 Mm<sup>3</sup>), and domestic, industrial and tourism sector 29% (292Mm<sup>3</sup>) - (Table 2.38).

Compared to 2017, water utilisation increased by 7.1%, from 928 to 994 Mm<sup>3</sup> with changes as follows:

hydropower (+27.6%);

agriculture (-11.6%); and

domestic, industrial and tourism (+ 7.4).

### 3. Residuals

#### 3.1 Greenhouse gas (GHG) emissions

GHG are gases occurring naturally and also resulting from human-induced activities (anthropogenic emissions from production and consumption). They contribute directly or indirectly to global warming. Some main GHG are Carbon Dioxide (CO<sub>2</sub>), Methane (CH<sub>4</sub>) and Nitrous Oxide (N<sub>2</sub>O).

##### *(i) Total GHG emissions by sector*

The total GHG emissions (excluding Forestry and Other Land Use) in 2018 were 5,613.2 Gg carbon dioxide equivalent (CO<sub>2</sub>-eq) compared to 5,612.1 Gg CO<sub>2</sub>-eq in 2017, representing an increase of 0.02%. In 2018, there was a rise in emissions in the industrial process and product use, and waste sectors, partly offset by a decrease in emission from energy and agriculture (Table 3.1). The contribution of GHG to total global GHG emission stood at 0.01%.

The energy sector was the largest contributing sector and accounted for 75.1% (4,213.5 Gg CO<sub>2</sub>-eq) of the total emissions followed by the waste sector with 21.8% (1,223.5 Gg CO<sub>2</sub>-eq), the agriculture sector with 2.3% (128.3 Gg CO<sub>2</sub>-eq) and the industrial processes and product use sector, 0.9% (47.9 Gg CO<sub>2</sub>-eq) - (Table 3.1).

##### *(ii) Total GHG emissions by gases*

In 2018, carbon dioxide (CO<sub>2</sub>) was the main GHG representing 74.7% (4,190.5 Gg) of total GHG emissions. Methane (CH<sub>4</sub>) contributed 22.3% (1,250.3 Gg CO<sub>2</sub>-eq), nitrous oxide (N<sub>2</sub>O) 2.9% (161.2 Gg CO<sub>2</sub>-eq), and hydrofluorocarbons (HFCs) 0.2% (11.2 Gg CO<sub>2</sub>-eq).

##### *(iii) Net GHG emissions*

The net GHG emissions, after accounting for the removal of CO<sub>2</sub> by Forestry and Other Land Use sector, stood at around 5,248.2 Gg CO<sub>2</sub>-eq in 2018, up by 0.02% from 5,247.4 Gg CO<sub>2</sub>-eq in 2017.

##### *(iv) Energy sector emissions*

In 2018, GHG emission from the energy sector stood at 4,213.5 Gg CO<sub>2</sub>-eq, lower by 0.9% from 4,250.1 Gg CO<sub>2</sub>-eq in 2017. Within the energy sector, the sub-sector that contributed most of the GHG emission was the energy industries (electricity generation) which accounted for 59.3% (2,498.3 Gg CO<sub>2</sub>-eq) of the total emissions. Next came the transport sector which made up 26.3% (1,108.1 Gg CO<sub>2</sub>-eq) of the total emissions, the manufacturing industries and construction making up another 8.3% (348.5 Gg CO<sub>2</sub>-eq) and the other sectors accounting for the remaining 6.1% (258.6 Gg CO<sub>2</sub>-eq) - (Table 3.3).

*(a) Energy industries (electricity generation)*

GHG emission from the generation of electricity (energy industries) stood at 2,498.3 Gg CO<sub>2</sub>-eq in 2018 compared to 2,564.7 Gg CO<sub>2</sub>-eq in 2017, representing a fall of 2.6%. This is mainly attributed to a 5.0% decrease (from 450.5 ktoe to 427.9 ktoe) in the quantity of coal used to produce electricity (Table 2.7).

*(b) Transport industries*

In 2018, GHG emission from the transport sector was estimated at 1,108.1 Gg CO<sub>2</sub>-eq compared to 1,087.2 in 2017, up by 1.9% due to higher fuel consumption. It is to be noted that the number of registered motor vehicles went up by 4.6% from 531,797 in 2017 to 556,001 in 2018 (Table 5.17). The energy consumed by transport increased from 530 ktoe to 540 ktoe (1.9%) - (Table 2.8).

*(c) Manufacturing industries*

In 2018, GHG emissions in the manufacturing industries and construction sector remained almost at the same level as in 2017. The amount of fossil fuels consumed by the sector was 98.3 ktoe in 2018, same as in 2017 (Table 2.8).

**3.2 Municipal waste***(i) Waste disposal at Mare Chicose Landfill*

The total amount of solid waste landfilled at Mare Chicose increased by 12.7% from 482,196 tonnes in 2017 to 543,197 tonnes in 2018.

Domestic waste constituted 96% of the total solid waste landfilled in 2018 (Table 3.12).

**4. Extreme Events and Disasters****4.1 Tropical cyclone/storm**

Tropical cyclones usually occur in the summer period between 1<sup>st</sup> November and 15<sup>th</sup> May of the following year. Table 4.1 shows list of tropical cyclone/storm from 1991 to 2018 when warnings were issued for Mauritius.

**5. Human Settlements and Environmental Health****5.1 Urban and rural population**

The estimated resident population in the Island of Mauritius was 1,222,208 as at 31 December 2018. The female population was 617,285 compared to a male population of 604,923.

Some 42.0% of the population resided in urban area in 2018 compared to 42.1% in 2017 (Table 5.3).

### ***5.2 Access to selected basic services***

As at Census 2011, the percentage of the population in the Island of Mauritius with the following amenities was as follows: piped water inside their houses 95.8%, flush toilet (sewerage, absorption pit and septic tank) 98.0%; and garbage regularly collected by authorised collectors, 97.5% (Tables 5.5, 5.6 and 5.8).

### ***5.3 Airborne diseases***

Table 5.20 lists the number of admissions due to certain respiratory diseases by sex in government general hospitals in the Island of Mauritius.

### ***5.4 Mosquito borne diseases***

Some 41 cases of malaria, all imported, have been reported in 2018 in the Island of Mauritius. Some 6 cases of dengue were also reported (Table 5.25).

## **6. Environmental Protection, Management and Engagement**

### ***6.1 Environmental Impact Assessment (EIA) Licences and Preliminary Environmental Report (PER) Approvals***

In 2018, 49 EIA licences were granted, of which 17 were for “coastal hotels and related works”, 10 were for “land parcelling (morcellement)”, 8 for “housing/integrated resort scheme/property development scheme/smart city”, 2 for photovoltaic farms, 2 for construction of road and highway, 2 for development in port area and 8 for other projects (Table 6.22).

During the same period, 32 PER approvals were issued which comprised 11 for poultry rearing and 10 for industrial development (Table 6.23).

### ***6.2 Complaints***

Effective environmental management needs appropriate coordination and monitoring of environmental problems. The Ministry of Environment, Solid Waste Management and Climate Change addresses complaints received from the general public according to a complaints handling protocol

Complaints received at the Pollution Prevention and Control Division of the Ministry of Environment, Solid Waste Management and Climate Change including those received from the Citizen Support Portal (effective from May 2017) are categorised at Table 6.24. The number of complaints received decreased by 18.2% from 765 in 2017 to 626 in 2018. The main categories of complaints were as follows: air pollution (18.1%), noise (14.5%), odour (10.5%), waste water (11.3%), solid waste (9.4%) and bareland (9.3%).

### **6.3 Contraventions**

In 2018, the “Police de L’Environnement” established 3,627 contraventions of which illegal littering 68% (2,456) and vehicles emitting excessive noise accounted for 19% (687).

During the same period, 420 notices were issued to drivers of vehicles emitting black smoke (Table 6.25).

**Table 1 - Main environment indicators, 2017 and 2018**

Indicator	Units	2017 <sup>1</sup>	2018 <sup>2</sup>
<b>Republic of Mauritius</b>			
1. Terrestrial protected areas	hectares	14,918.0	14,918.0
2. Marine protected areas	hectares	13,953	13,953
3. Total Greenhouse gas (GHG) emission	Gg CO <sub>2</sub> -eq	5,612.2	5,613.2
4. Total carbon dioxide emission	000 tons	4,226.2	4,190.5
5. Per capita carbon dioxide emission	tons	3.34	3.31
6. Total electricity generated	GWh	3,120.0	3,131.6
7. Electricity generated from renewable sources	%	20.0	20.7
8. Total primary energy requirement	ktoe	1,599.8	1,586.3
9. Primary energy requirement from renewable sources	%	13.4	12.9
10. Per capita primary energy requirement	toe	1.27	1.25
11. Per capita final energy consumption	toe	0.77	0.78
12. Energy intensity	toe per Rs.100,000 GDP at 2006 prices	0.46	0.44
<b>Island of Mauritius</b>			
13. Forest area	ha	47,066	47,048
14. Total forest area as a % of total land area	%	25.2	25.2
15. Total fish production (fresh-weight equivalent)	tons	23,732	29,208
16. Irrigated land	ha	16,455	17,358
17. Mean annual rainfall	millimetres	2,140	2,816
18. Mean of maximum annual temperature	degrees Celcius	28.3	28.2
19. Mean of minimum annual temperature	degrees Celcius	21.0	20.7
20. Mean annual temperature	degrees Celcius	24.7	24.4
21. Annual fresh water abstraction	Mm <sup>3</sup>	610	578
22. Daily per capita domestic water consumption	litres	174	180
23. Daily per capita solid waste disposed at landfill	Kg	1.08	1.22

**Other Environment Statistics**

23. Length of coastline <sup>3</sup>	km	322
24. Length of coral reefs <sup>3</sup>	km	150
25. Area of coral reefs <sup>3</sup>	km <sup>2</sup>	300
26. Lagoon areas	km <sup>2</sup>	243
27. Exclusive Economic Zone (EEZ) - Republic of Mauritius	km <sup>2</sup>	2.3 million

<sup>1</sup> Revised    <sup>2</sup> Provisional    <sup>3</sup> Source: Mauritius Environment Outlook, 2011



**COMPONENT 1**

**ENVIRONMENTAL CONDITIONS  
AND QUALITY**

Figure 1.1 - Map, Republic of Mauritius

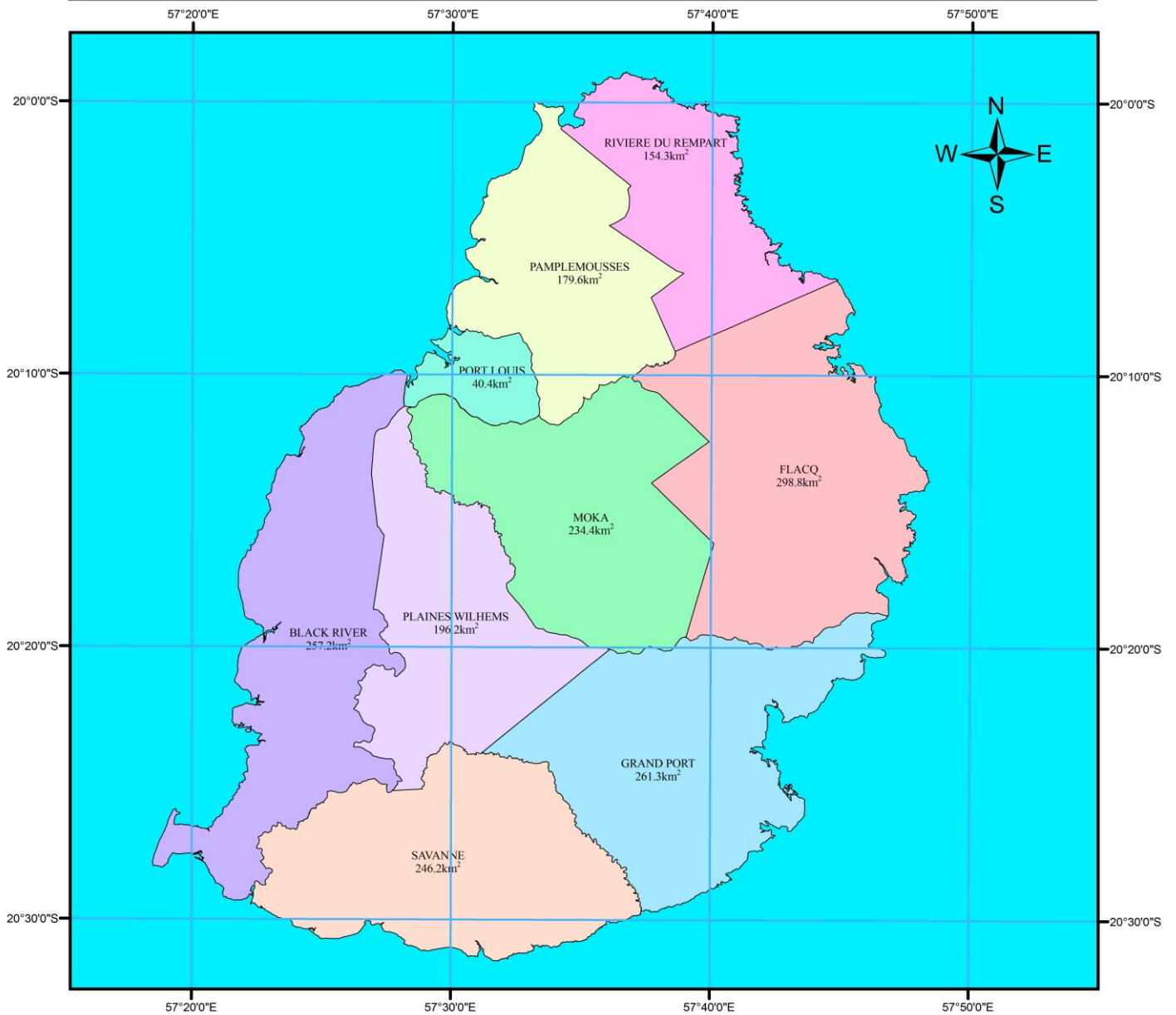
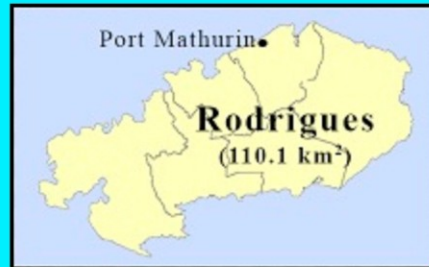
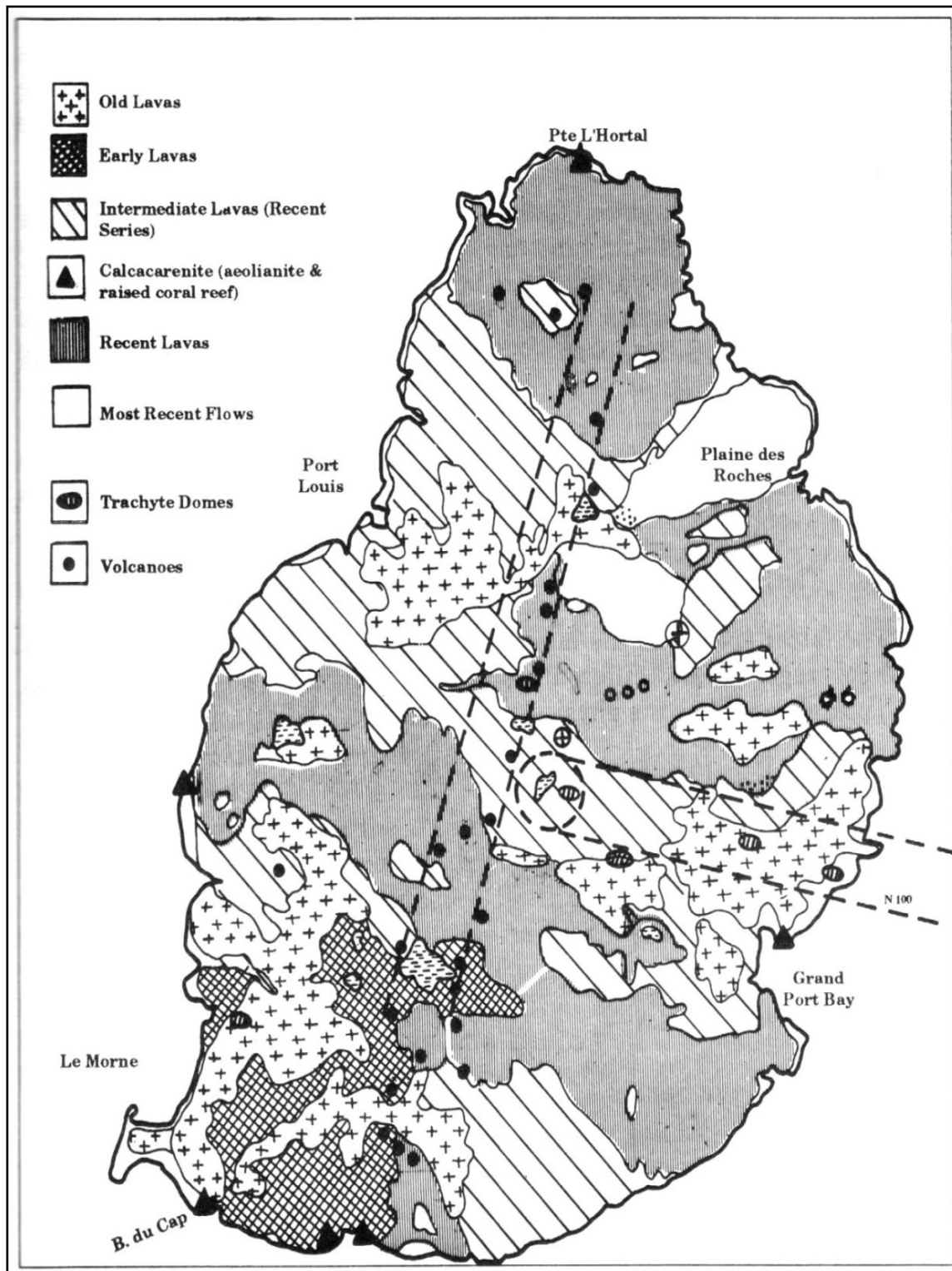


Figure 1.2 – Geological and morphological map of Mauritius



Source: Mauritius A Geomorphological Analysis Report

**Table 1.1 - Main islets by geographical district and area, 2018**

	Name	Geographical district	Area (ha)
1	Serpent Island (Nature Reserve)	Riviere Du Rempart	31.6
2	Round Island (Nature Reserve)		168.8
3	Pigeon Rock (National Park)		0.63
4	Flat Island (Nature Reserve)		253.25
5	Gabriel Island (Nature Reserve)		42.21
6	Gunner's Quoin (Nature Reserve)		76.00
7	Ilot Matapan		4.96
8	Ilot Bemache		10.12
9	Ile d'Ambre (National Park)		128.00
10	Ilot Fourmi		0.04
11	Ilot Aigrettes (Nature Reserve)		26.00
12	Islet at Pte de Flacq		0.21
13	Islet at Pte de Flacq		0.63
14	Lerique Islet		0.42
15	Goyaves de Chine		0.22
16	Bambaras Islet	Flacq	0.42
17	Ilot Grosse Bite		0.12
18	Islets opp. P.G. Bras D'Eau		0.49
19	Ilot Maino		0.42
20	Ilot Vacoas (National Park)		1.36
21	Ilot de la Batterie		0.62
22	Rocky Islet at Bras de Mer aux Huitres		0.60
23	Ile aux Levrettes		0.59
24	Ilot Lievres		0.77
25	Ile du Trou Vire		3.80
26	Ile Couba		6.33
27	Ile aux Rats		0.42
28	Ile de L'Est or Mangenie		31.23
29	Ile aux Cerfs		91.46
30	Ilot Flammants (National Park)		0.80
31	Ile aux Oiseaux (National Park)		0.70
32	Ile aux Mariannes (Nature Reserve)		4.05
33	Rocher des Oiseaux (National Park)		0.10
34	Ile aux Fous (National Park)		0.30
35	Ilot Chat		0.03
36	Ile aux Singes		0.27
37	Islet near coast of War Department Land	Grand Port	0.05
38	Mouchoir Rouge		0.52
39	Ile aux Fouquets (National Park)		2.49
40	Ile aux Vacoas		1.36
41	Ile de la Passe (Ancient Monument)		2.19
42	Ile aux Aigrettes		24.69
43	Ile des Deux Cocos		3.60
44	Ilot Brocus & Lafond		23.60
45	Ilot Sancho	Savanne	0.53
46	Ilot Foumeaux		12.66
47	Ile aux Benitiers	65.42	
48	Ilot Malais	Black River	0.95
49	Ilot Fortier		...
<b>Total</b>			<b>1026.02</b>

Source: National Parks and Conservation Service

**Table 1.2 Monthly mean temperature, 2009 - 2018**

Degrees celcius

Year \ Month	Jan ☐		Feb☐		Mar☐		Apr☐		May☐		Jun ☐		Jul ☐		Aug☐		Sept ☐		Oct☐		Nov☐		Dec☐		Mean annual temperature		
	LTM <sup>1</sup> (26.1)		LTM (26.2)		LTM (25.8)		LTM (24.9)		LTM (23.2)		LTM (21.4)		LTM (20.6)		LTM (20.7)		LTM (21.3)		LTM (22.3)		LTM (23.9)		LTM (25.3)		LTM (23.5)		
	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean
2009	26.9	0.8	26.8	0.6	26.2	0.4	25.8	0.9	23.8	0.6	22.4	1.0	21.0	0.4	20.9	0.3	21.5	0.3	23.0	0.7	24.2	0.3	25.8	0.6	24.0	0.5	
2010	26.4	0.4	26.9	0.7	26.5	0.7	25.3	0.4	24.4	1.2	22.8	1.4	21.0	0.4	20.8	0.2	21.4	0.1	23.2	1.0	23.8	0.0	25.3	0.1	24.0	0.5	
2011	26.2	0.1	26.6	0.4	26.1	0.3	25.5	0.6	23.7	0.5	22.9	1.5	21.4	0.8	21.1	0.4	21.8	0.6	22.9	0.6	24.8	0.9	25.5	0.3	24.0	0.5	
2012	26.0	0.0	27.0	0.8	26.0	0.3	25.5	0.6	23.3	0.1	21.6	0.2	21.4	0.8	21.3	0.7	21.8	0.5	23.2	0.9	24.8	0.9	26.3	1.0	24.0	0.5	
2013	26.4	0.4	26.7	0.5	26.1	0.4	25.0	0.1	23.0	-0.2	21.6	0.2	20.5	-0.1	21.1	0.5	22.2	0.9	23.6	1.3	24.6	0.7	25.9	0.6	23.9	0.4	
2014	26.7	0.6	26.8	0.6	26.4	0.6	25.3	0.4	23.5	0.3	22.4	1.0	22.0	1.4	21.6	0.9	22.0	0.7	24.2	2.0	25.5	1.6	26.4	1.1	24.4	0.9	
2015	26.4	0.3	26.2	0.0	26.0	0.2	25.3	0.4	24.0	0.8	22.7	1.3	21.5	0.9	21.6	0.9	22.1	0.8	23.7	1.4	24.5	0.6	26.7	1.4	24.2	0.7	
2016	27.1	1.0	27.1	0.9	26.9	1.1	26.0	1.1	23.2	0.0	21.7	0.3	20.9	0.3	21.5	0.8	21.2	-0.1	23.3	1.0	24.5	0.6	25.3	0.0	24.1	0.6	
2017	26.7	0.6	26.7	0.5	27.1	1.3	26.1	1.2	24.2	1.0	22.8	1.4	22.5	1.9	22.2	1.5	22.6	1.3	23.8	1.5	24.7	0.8	26.5	1.2	24.7	1.2	
2018	26.5	0.4	27.0	0.8	26.7	0.9	25.6	0.7	24.0	0.8	22.6	1.2	21.2	0.6	22.0	1.3	22.7	1.4	23.3	1.0	25.3	1.4	26.2	0.9	24.4	0.9	

Source: Mauritius Meteorological Services

<sup>1</sup> LTM: Long term mean, 1981-2010

**Table 1.3 Monthly mean maximum temperature, 2009 - 2018**

Degrees celcius

Year \ Month	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sept		Oct		Nov		Dec		Mean of maximum annual temperature		
	LTM <sup>1</sup> (29.8)		LTM (29.8)		LTM (29.4)		LTM (28.6)		LTM (27.0)		LTM (25.2)		LTM (24.3)		LTM (24.4)		LTM (25.3)		LTM (26.2)		LTM (28.1)		LTM (29.3)		LTM (27.3)		
	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean
2009	30.9	1.1	30.3	0.6	29.7	0.4	28.9	0.4	27.5	0.6	26.2	0.9	24.2	-0.1	24.3	-0.1	25.4	0.1	26.8	0.5	27.7	-0.3	29.6	0.3	27.6	0.3	
2010	29.9	0.1	30.3	0.6	29.9	0.5	29.2	0.6	27.9	1.0	26.5	1.2	24.7	0.4	24.6	0.2	25.8	0.5	27.3	1.1	28.1	0.0	29.8	0.5	27.8	0.5	
2011	30.1	0.3	30.0	0.2	29.7	0.3	29.2	0.7	28.0	1.1	26.6	1.4	25.2	0.9	24.7	0.3	26.0	0.7	27.1	0.8	29.1	1.0	29.1	-0.2	27.9	0.6	
2012	30.1	0.2	30.8	1.1	29.5	0.1	28.6	0.1	26.6	-0.3	25.1	-0.1	24.9	0.6	24.8	0.4	25.6	0.3	27.2	1.0	28.9	0.8	29.8	0.5	27.7	0.4	
2013	29.7	-0.1	30.0	0.2	29.5	0.2	28.1	-0.4	27.1	0.1	25.6	0.4	24.9	0.6	24.8	0.4	26.1	0.8	27.5	1.3	28.8	0.8	30.0	0.7	27.7	0.4	
2014	30.0	0.2	30.4	0.6	30.1	0.7	29.0	0.4	27.5	0.6	26.1	0.9	25.3	1.0	25.4	1.0	26.3	1.0	28.3	2.1	29.5	1.5	30.1	0.8	28.2	0.9	
2015	29.5	-0.3	29.7	-0.1	29.6	0.2	29.2	0.6	27.6	0.6	25.8	0.6	25.1	0.8	25.3	0.9	26.2	0.9	27.4	1.2	28.5	0.4	30.6	1.3	27.9	0.6	
2016	30.9	1.1	30.3	0.5	30.5	1.1	29.5	0.9	26.9	-0.1	25.1	-0.1	24.1	-0.2	24.9	0.5	25.0	-0.3	27.4	1.2	28.6	0.5	29.3	0.0	27.7	0.4	
2017	30.7	0.9	30.4	0.6	30.4	1.0	29.6	1.0	27.4	0.4	26.3	1.1	25.8	1.5	25.7	1.3	26.4	1.1	27.8	1.6	28.5	0.4	30.7	1.4	28.3	1.0	
2018	29.7	-0.1	30.7	0.9	30.0	0.6	29.1	0.5	27.8	0.8	26.4	1.2	24.8	0.5	26.0	1.6	26.5	1.2	27.6	1.5	29.2	1.1	30.1	0.8	28.2	0.9	

Source: Mauritius Meteorological Services

<sup>1</sup> LTM: Long term mean, 1981-2010

**Table 1.4 Monthly mean minimum temperature, 2009 - 2018**

Degrees celcius

Month Year	Jan		Feb		Mar		Apr		May		Jun		Jul		Aug		Sept		Oct		Nov		Dec		Mean of minimum annual temperature		
	LTM <sup>1</sup> (22.3)		LTM (22.6)		LTM (22.1)		LTM (21.2)		LTM (19.4)		LTM (17.6)		LTM (16.9)		LTM (16.9)		LTM (17.2)		LTM (18.3)		LTM (19.6)		LTM (21.2)		LTM (19.6)		
	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean	Difference from LTM	Mean
2009	22.8	0.5	23.3	0.7	22.7	0.5	22.6	1.4	20.0	0.7	18.6	1.0	17.8	0.9	17.5	0.6	17.6	0.4	19.2	0.9	20.6	1.1	22.0	0.8	20.4	0.8	
2010	22.9	0.6	23.4	0.8	23.1	0.9	21.5	0.3	20.9	1.5	19.1	1.5	17.3	0.4	17.0	0.1	17.0	-0.3	19.1	0.8	19.6	0.0	20.9	-0.3	20.1	0.5	
2011	22.2	-0.1	23.3	0.7	22.5	0.3	21.8	0.6	19.4	0.1	19.2	1.6	17.5	0.6	17.5	0.6	17.6	0.4	18.7	0.4	20.5	0.9	21.9	0.7	20.2	0.6	
2012	22.0	-0.3	23.1	0.5	22.5	0.4	22.3	1.1	20.1	0.7	18.1	0.5	17.9	1.0	17.8	0.9	17.9	0.7	19.1	0.8	20.7	1.1	22.8	1.6	20.4	0.8	
2013	23.1	0.8	23.4	0.8	22.7	0.6	21.9	0.7	18.9	-0.5	17.6	0.0	16.1	-0.8	17.5	0.6	18.2	1.0	19.6	1.3	20.3	0.7	21.8	0.6	20.1	0.5	
2014	23.3	1.0	23.2	0.6	22.6	0.5	21.5	0.3	19.5	0.1	18.7	1.1	18.6	1.7	17.7	0.8	17.6	0.4	20.1	1.8	21.4	1.8	22.6	1.4	20.6	1.0	
2015	23.4	1.1	22.6	0.0	22.4	0.3	21.5	0.3	20.3	0.9	19.7	2.1	18.0	1.1	17.8	0.9	18.1	0.9	20.0	1.7	20.6	1.0	22.8	1.6	20.6	1.0	
2016	23.3	1.0	23.9	1.3	23.3	1.2	22.5	1.3	19.5	0.1	18.4	0.8	17.7	0.8	18.1	1.2	17.4	0.2	19.1	0.8	20.3	0.7	21.2	0.0	20.4	0.8	
2017	22.6	0.3	22.9	0.3	23.7	1.6	22.6	1.4	21.0	1.6	19.2	1.6	19.1	2.2	18.7	1.8	18.7	1.5	19.8	1.5	20.9	1.3	22.2	1.0	21.0	1.4	
2018	23.3	1.0	23.3	0.7	23.4	1.3	22.1	0.9	20.2	0.8	18.8	1.2	17.6	0.7	18.0	1.1	18.9	1.7	18.9	0.6	21.4	1.8	22.3	1.1	20.7	1.1	

Source: Mauritius Meteorological Services

<sup>1</sup> LTM: Long term mean, 1981-2010

**Table 1.5 - Mean annual rainfall <sup>1</sup> by region, 2009 - 2018**

Region		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<b>West</b> LTM <sup>2</sup> (912 mm)	Mean (mm)	1,200	609	1,050	631	971	906	1,242	662	677	1,474
	% of LTM	137	69	115	69	106	99	136	73	74	162
<b>North</b> LTM (1,294 mm)	Mean (mm)	1,688	1,062	1,443	963	1,262	1,264	1,386	1,052	1,330	1,915
	% of LTM	123	78	111	74	97	98	107	81	103	148
<b>South</b> LTM (2,572 mm)	Mean (mm)	2,828	2,400	2,213	1,996	2,668	2,607	2,958	2,286	2,550	3,165
	% of LTM	109	93	86	78	104	101	115	89	99	123
<b>East</b> LTM (2,568 mm)	Mean (mm)	3,155	2,756	2,794	2,289	2,716	2,758	2,959	2,522	3,033	3,523
	% of LTM	130	114	109	89	106	107	115	98	118	137
<b>Centre</b> LTM (2,568 mm)	Mean (mm)	2,959	2,153	2,228	2,158	2,898	2,833	3,238	2,801	3,026	3,877
	% of LTM	113	82	87	84	113	110	126	109	118	151
<b>Whole Island</b> LTM (2,003 mm)	Mean (mm)	2,383	1,806	1,948	1,621	2,126	2,094	2,377	1,895	2,140	2,816
	% of LTM	120	91	97	81	106	105	119	95	107	141

Source: Mauritius Meteorological Services

<sup>1</sup> Average of 23 stations for different regions

<sup>2</sup> LTM : Long Term Mean, 1981 - 2010



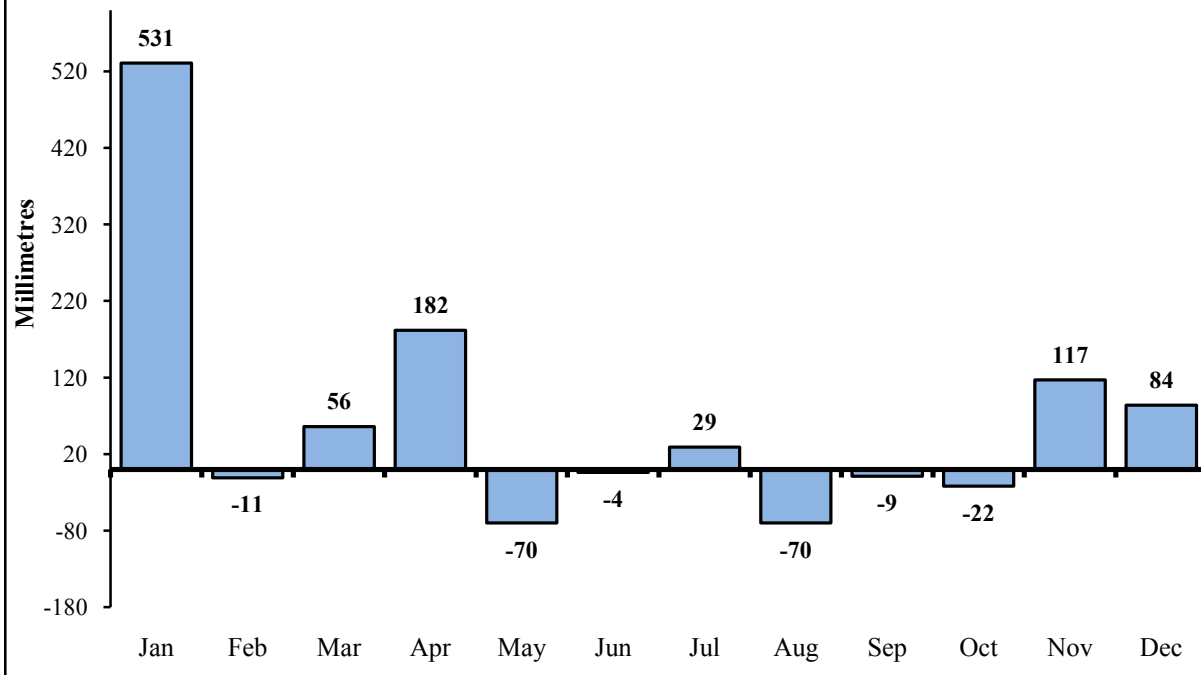
**Table 1.6 - Monthly Mean rainfall <sup>1</sup> by region, 2018**

Region Month	West			North			South			East			Centre			Whole Island		
	Mean (mm)	Long Term Mean (1981-2010)	% of Long Term Mean	Mean (mm)	Long Term Mean (1981-2010)	% of Long Term Mean	Mean (mm)	Long Term Mean (1981-2010)	% of Long Term Mean	Mean (mm)	Long Term Mean (1981-2010)	% of Long Term Mean	Mean (mm)	Long Term Mean (1981-2010)	% of Long Term Mean	Mean (mm)	Long Term Mean (1981-2010)	% of Long Term Mean
January	512	186	275	676	177	382	735	306	240	972	309	314	1057	333	317	794	263	302
February	287	219	131	162	245	66	432	393	110	316	427	74	476	446	107	337	348	97
March	170	138	123	231	190	122	308	326	94	426	338	126	453	315	144	319	263	121
April	122	85	144	263	137	192	474	279	170	573	280	205	519	268	193	394	212	186
May	11	40	28	21	89	23	122	197	62	108	207	52	120	196	61	78	148	53
June	14	25	55	63	63	100	165	153	108	122	143	85	137	141	97	103	107	96
July	27	23	118	77	71	108	214	181	118	203	164	124	232	173	134	154	125	123
August	3	17	19	22	59	37	50	153	32	36	138	26	63	151	42	36	106	34
September	33	27	123	38	57	66	105	136	77	102	130	78	149	124	120	87	96	91
October	41	22	186	39	42	93	54	107	50	68	101	67	71	107	67	55	77	71
November	81	30	271	129	45	286	234	114	204	234	107	219	281	92	305	195	78	250
December	172	100	172	196	119	165	272	227	120	363	224	162	320	222	144	264	180	147
<b>Year</b>	<b>1,474</b>	<b>912</b>	<b>162</b>	<b>1,915</b>	<b>1,294</b>	<b>148</b>	<b>3165</b>	<b>2,572</b>	<b>123</b>	<b>3523</b>	<b>2,568</b>	<b>137</b>	<b>3877</b>	<b>2,568</b>	<b>151</b>	<b>2,816</b>	<b>2,003</b>	<b>141</b>

Source: Mauritius Meteorological Services

<sup>1</sup> Average of 23 stations for different regions

**Figure 1.3 - Rainfall difference from Long Term Mean, 2018**



**Figure 1.4 - Mean rainfall, 2009 - 2018**

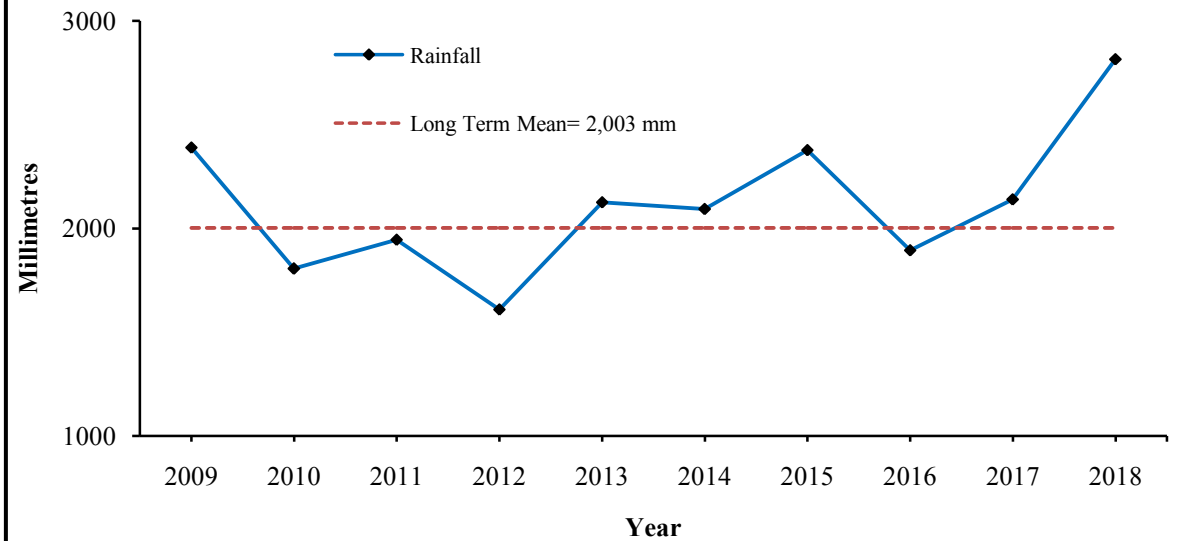


Table 1.7 - Monthly (24-hourly maximum) rainfall by station, 2009 - 2018

Millimetre

Vacoas station												
Month Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2009	49.9	54.5	50.1	33.8	32.7	14.3	46.6	11.5	10.1	102.9	83.8	74.5
2010	46.6	58.8	22.3	33.1	21.8	12.3	26.9	28.4	22.7	10.0	59.7	3.6
2011	96.0	94.4	84.8	7.3	38.6	84.6	9.5	20.4	10.4	11.2	44.9	94.2
2012	22.2	55.7	57.0	60.0	74.6	22.1	9.2	10.1	8.7	9.0	23.1	21.4
2013	43.6	59.2	201.8	54.7	11.0	14.6	8.2	30.0	15.7	19.9	88.5	15.5
2014	83.6	38.0	99.1	54.3	32.8	8.7	19.6	16.7	19.1	11.8	17.5	56.3
2015	108.9	45.4	126.5	33.9	65.5	101.9	18.1	42.6	12.3	73.3	66.3	86.8
2016	21.4	109.5	29.1	103.2	15.9	19.5	26.2	42.8	7.8	13.7	17.3	19.0
2017	57.9	153.8	62.1	41.2	94.7	19.4	14.9	18.3	34.7	13.2	21.0	36.3
2018	224.7	97.5	58.9	97.5	32.7	12.3	25.2	7.8	26.6	24.7	105.4	72.9
Pamplemousses station												
Month Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2009	43.2	109.2	56.5	35.0	15.4	14.5	20.5	24.0	15.1	54.0	62.5	125.0
2010	56.0	36.0	50.5	28.3	26.0	17.0	10.5	21.0	9.5	12.0	23.7	10.5
2011	42.5	83.0	109.0	32.2	18.5	74.2	11.8	23.0	5.1	4.8	21.0	36.0
2012	20.0	29.0	61.0	27.5	45.5	17.2	15.0	7.0	3.5	9.5	21.0	41.6
2013	28.0	113.0	59.2	28.6	10.8	6.9	3.6	13.2	7.5	33.0	50.2	55.0
2014	45.0	31.0	105.6	69.0	80.0	3.7	4.2	13.0	6.5	44.0	13.0	45.0
2015	37.0	70.4	127.0	17.2	47.0	59.5	11.5	20.5	11.5	52.0	22.5	12.0
2016	40.0	133.0	17.0	33.3	12.2	9.8	24.2	21.5	2.8	5.5	10.3	20.0
2017	29.2	133.5	25.5	22.5	98.0	12.5	25.7	16.0	4.5	20.2	37.5	8.6
2018	120.0	50.0	61.0	105.0	10.5	33.0	28.0	11.6	18.3	11.0	85.0	145.0
Fuel station												
Month Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2009	46.8	88.4	75.8	53.8	38.2	29.7	33.9	40.3	38.6	121.0	85.9	96.4
2010	124.6	67.2	84.0	63.6	37.4	13.6	31.5	49.8	30.2	20.4	81.0	5.2
2011	251.7	99.0	218.2	37.2	25.9	80.2	20.3	34.7	62.0	22.8	15.9	55.9
2012	20.4	64.8	76.5	27.0	25.6	31.8	15.9	16.0	9.2	8.7	26.2	52.6
2013	36.6	117.1	56.5	28.0	14.5	11.0	10.4	50.3	11.7	70.7	39.2	13.0
2014	104.0	63.5	98.3	85.8	25.0	23.5	13.0	33.5	17.5	22.5	16.0	46.0
2015	96.5	82.0	90.7	24.4	49.0	107.0	30.2	50.0	11.3	50.0	26.8	32.0
2016	50.0	75.0	21.0	54.0	34.7	19.0	55.9	26.8	17.7	8.6	11.0	50.5
2017	23.2	199.0	53.0	51.0	185.0	33.4	22.0	25.0	35.0	21.2	41.0	9.2
2018	142.0	135.0	84.0	127.3	29.0	12.5	32.9	9.3	47.3	20.6	65.9	64.6

Source: Mauritius Meteorological Services

Table 1.7 (cont'd) - Monthly (24-hourly maximum) rainfall by station, 2009 - 2018

Millimetre

Plaisance station												
Month Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2009	57.7	41.7	52.5	128.0	44.4	28.2	11.7	52.3	15.1	73.2	92.5	58.7
2010	82.5	75.2	75.4	99.5	14.4	7.2	18.4	10.7	16.2	3.1	18.8	4.2
2011	49.4	124.3	65.3	6.3	29.5	49.9	17.6	36.7	11.6	12.9	15.2	94.2
2012	11.2	51.1	143.4	38.4	32.5	5.1	16.1	9.3	5.0	4.8	37.1	81.4
2013	30.2	159.1	118.6	20.4	5.0	36.1	29.7	25.6	5.1	33.3	71.8	55.1
2014	55.1	37.3	76.7	47.6	27.6	38.5	7.5	17.5	7.4	21.8	12.3	66.4
2015	52.7	33.2	125.1	28.0	55.0	64.0	24.5	29.1	10.8	34.8	39.2	61.5
2016	82.8	84.4	17.2	121.2	7.6	4.5	29.3	19.0	6.5	19.8	7.7	10.2
2017	18.8	125.8	38.1	41.7	71.5	26.5	17.1	20.4	20.1	17.9	20.3	6.4
2018	109.8	54.5	52.4	68.3	25.9	8.6	19.4	6.3	43.2	7.8	81.7	135.1
Medine Station												
Month Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
2009	32.5	19.8	42.5	28.5	7.0	15.2	7.5	6.0	5.5	135.0	104.0	44.0
2010	40.0	60.3	38.5	22.1	8.4	1.6	6.1	10.5	1.3	1.4	27.5	10.0
2011	64.5	80.0	37.0	3.8	78.0	64.0	2.2	10.0	1.5	0.0	15.4	13.3
2012	28.3	22.0	34.3	18.0	86.4	2.0	3.5	4.0	0.0	16.0	22.0	55.5
2013	27.0	44.0	103.5	16.0	13.0	3.0	2.0	24.7	0.0	37.0	52.0	20.0
2014	70.0	43.8	45.0	78.5	5.0	0.0	5.0	24.0	4.2	7.0	5.0	33.0
2015	46.0	66.3	104.5	35.0	8.6	25.0	24.5	13.4	16.3	22.0	40.2	30.0
2016	53.0	31.0	19.0	35.7	3.0	2.0	1.0	24.2	1.5	12.0	2.5	41.3
2017	42.0	53.0	47.0	8.0	40.0	6.0	12.5	11.3	8.0	5.0	10.0	14.4
2018	87.0	80.0	42.0	41.0	6.0	11.6	12.0	2.5	6.5	39.0	40.0	71.0

Source: Mauritius Meteorological Services

**Table 1.8 - Monthly mean relative humidity (%) with extremes, 2018**

Region	Station		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	
North	Pamplemousses <sup>2</sup>	Mean	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	
		LTM <sup>1</sup>	82	84	83	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>
		Highest	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>
		Lowest	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>
	Ferret <sup>3</sup>	Mean	83	81	79	80	75	81	91	76	68	67	68	72	
		LTM <sup>1</sup>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	
		Highest	99	96	98	98	95	98	100	97	96	96	96	96	
		Lowest	65	52	62	60	57	57	55	54	50	50	46	50	
South	Plaisance	Mean	83	84	80	79	75	74	69	67	72	73	77	77	
		LTM	82	83	83	83	80	77	77	77	77	76	76	79	
		Highest	98	96	98	97	95	97	96	94	96	95	97	97	
		Lowest	58	63	55	46	52	49	41	35	47	46	49	55	
East	FUEL	Mean	81	75	79	80	73	76	72	67	71	76	80	76	
		LTM	83	86	84	85	83	81	82	81	81	81	81	83	
		Highest	97	92	93	97	89	93	92	91	93	95	95	98	
		Lowest	64	65	66	56	61	55	53	52	57	58	62	60	
West	Medine	Mean	78	81	78	76	72	70	66	68	68	68	71	74	
		LTM	80	81	80	77	78	77	76	76	75	75	77	78	
		Highest	96	93	92	92	91	93	90	90	90	87	88	92	
		Lowest	53	60	52	56	49	45	41	38	42	42	46	43	
Centre	Vacoas	Mean	89	86	87	85	82	83	81	79	83	80	82	83	
		LTM	83	85	84	84	83	82	82	81	80	80	79	81	
		Highest	99	99	99	99	98	98	99	99	99	97	98	98	
		Lowest	58	54	60	55	52	57	53	44	54	46	53	53	

Source : Mauritius Meteorological Services

<sup>1</sup> LTM : Long Term Mean (1981 - 2010)

<sup>2</sup> Station in Pamplemousses ceased operation in April 2017.

<sup>3</sup> A new station (Ferret) in the North started operation in July 2017.

Table 1.9 - Mean monthly and extreme values of mean sea level atmospheric pressure at Plaisance aeronautical station, 2009 - 2018

Year Month		hPa									
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
January	Mean	1,012.0	1,010.8	1,011.3	1,011.1	1,013.6	1,013.6	1,010.0	1,011.0	1,015.4	1,008.9
	Highest	1,016.1	1,015.0	1,014.8	1,015.6	1,018.2	1,017.8	1,016.1	1,016.0	1,019.6	1,017.2
	Lowest	1,006.7	1,001.2	1,004.1	1,005.4	1,005.9	1,004.3	1,000.7	1,005.5	1,010.2	982.3
February	Mean	1,010.7	1,011.9	1,010.0	1,009.9	1,011.3	1,010.6	1,013.0	1,011.9	1,013.4	1,012.6
	Highest	1,016.0	1,015.9	1,014.4	1,015.4	1,014.5	1,018.4	1,017.8	1,018.7	1,018.2	1,018.1
	Lowest	1,003.8	1,005.8	1,005.4	1,001.5	1,005.1	1,000.2	1,001.5	1,004.3	1,005.1	1,008.9
March	Mean	1,013.0	1,014.1	1,012.8	1,013.5	1,014.0	1,013.4	1,013.8	1,013.9	1,013.0	1,011.5
	Highest	1,017.4	1,017.7	1,017.5	1,020.0	1,018.6	1,018.6	1,019.2	1,019.8	1,019.1	1,016.4
	Lowest	1,009.6	1,010.7	1,006.6	1,004.8	1,008.8	1,006.9	1,004.3	1,009.3	1,004.9	1,001.0
April	Mean	1,014.4	1,016.6	1,015.5	1,014.7	1,014.3	1,015.7	1,013.8	1,015.1	1,016.2	1,014.8
	Highest	1,019.2	1,022.0	1,019.6	1,019.2	1,019.1	1,020.6	1,020.0	1,019.9	1,019.9	1,020.7
	Lowest	1,006.3	1,012.0	1,010.3	1,009.5	1,007.0	1,008.9	1,007.7	1,010.9	1,009.0	1,006.3
May	Mean	1,015.9	1,016.9	1,017.0	1,018.1	1,018.8	1,017.7	1,018.1	1,018.2	1,019.0	1,017.7
	Highest	1,020.9	1,021.8	1,021.9	1,025.1	1,023.4	1,025.0	1,021.9	1,025.0	1,022.7	1,023.0
	Lowest	1,010.9	1,010.1	1,012.4	1,012.8	1,013.7	1,011.4	1,013.6	1,010.2	1,015.2	1,012.2
June	Mean	1,019.4	1,020.2	1,018.4	1,020.7	1,020.2	1,020.5	1,018.5	1,022.1	1,019.8	1,019.4
	Highest	1,022.8	1,024.0	1,022.4	1,026.0	1,025.9	1,026.3	1,024.7	1,026.5	1,025.3	1,023.3
	Lowest	1,014.5	1,013.4	1,014.3	1,015.4	1,015.9	1,015.9	1,011.4	1,017.1	1,015.4	1,013.6
July	Mean	1,022.2	1,020.2	1,019.1	1,020.3	1,020.1	1,022.5	1,022.0	1,021.5	1,020.1	1,007.2
	Highest	1,028.2	1,024.8	1,023.8	1,023.9	1,025.1	1,027.1	1,025.5	1,022.7	1,024.7	1,026.1
	Lowest	1,017.6	1,015.2	1,012.1	1,016.2	1,014.9	1,013.6	1,015.8	1,020.1	1,014.8	1,016.7
August	Mean	1,021.8	1,021.6	1,020.1	1,021.8	1,021.8	1,021.3	1,020.7	1,022.7	1,020.8	1,022.9
	Highest	1,026.9	1,025.4	1,025.3	1,025.4	1,026.0	1,026.8	1,026.6	1,028.4	1,026.0	1,028.9
	Lowest	1,015.8	1,017.2	1,015.2	1,017.1	1,017.8	1,013.5	1,017.1	1,016.7	1,015.0	1,017.1
September	Mean	1,021.3	1,019.6	1,021.0	1,022.0	1,020.6	1,021.5	1,022.1	1,022.7	1,020.0	1,021.6
	Highest	1,028.0	1,024.8	1,025.9	1,026.3	1,024.6	1,027.8	1,024.8	1,028.2	1,024.8	1,026.2
	Lowest	1,015.7	1,014.3	1,016.0	1,014.9	1,015.9	1,013.1	1,014.4	1,016.9	1,012.4	1,016.4
October	Mean	1,018.6	1,017.9	1,017.0	1,018.8	1,019.7	1,018.4	1,019.9	1,019.6	1,018.4	1,018.3
	Highest	1,022.2	1,021.4	1,024.4	1,023.4	1,025.9	1,022.7	1,024.3	1,023.8	1,023.3	1,023.7
	Lowest	1,013.2	1,008.2	1,008.9	1,013.7	1,009.5	1,014.0	1,014.9	1,014.0	1,013.2	1,013.8
November	Mean	1,015.2	1,016.6	1,015.5	1,015.7	1,015.5	1,015.8	1,016.3	1,018.1	1,016.7	1,016.6
	Highest	1,022.4	1,023.6	1,020.2	1,020.1	1,019.4	1,022.0	1,021.2	1,025.1	1,023.1	1,020.8
	Lowest	1,007.8	1,010.9	1,010.7	1,011.0	1,011.1	1,003.6	1,009.7	1,013.0	1,012.7	1,011.4
December	Mean	1,013.8	1,012.9	1,012.4	1,013.3	1,013.4	1,013.7	1,014.7	1,016.7	1,014.8	1,014.0
	Highest	1,018.1	1,017.4	1,019.7	1,017.4	1,019.4	1,018.4	1,018.3	1,019.9	1,019.9	1,019.8
	Lowest	1,006.9	1,001.0	1,008.1	1,007.1	1,011.1	1,005.4	1,008.0	1,012.2	1,008.6	1,003.0

Source: Mauritius Meteorological Services

Table 1.10 - Monthly mean wind speed <sup>1</sup> and highest gusts <sup>2</sup> at Plaisance aeronautical station, 2009 - 2018

Year Month		km/hr									
		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
January	Mean Wind Speed	9.5	11.4	15.2	13.3	19.0	17.1	16.0	13.5	18.6	19.4
	Highest gust	54.5	59.5	48.0	52.4	83.2	72.0	67.0	59.2	57.6	92.8
February	Mean Wind Speed	17.1	13.3	13.3	13.3	12.5	15.2	13.9	15.8	15.6	9.1
	Highest gust	89.6	51.5	52.8	73.0	99.8	84.8	51.0	78.4	78.4	51.2
March	Mean Wind Speed	13.3	13.3	11.4	19.0	15.0	14.3	15.8	13.3	18.1	18.6
	Highest gust	78.4	59.5	60.8	62.2	57.6	51.2	64.0	59.2	59.2	76.8
April	Mean Wind Speed	15.2	13.3	15.2	17.1	19.6	15.2	13.3	18.2	14.4	16.9
	Highest gust	54.4	57.9	51.2	54.4	59.2	65.6	46.0	72.0	60.8	89.6
May	Mean Wind Speed	13.3	17.1	9.5	15.2	15.6	16.0	14.1	12.0	19.0	15.4
	Highest gust	65.6	56.3	48.0	59.2	60.8	59.2	63.0	70.4	60.8	59.2
June	Mean Wind Speed	13.3	17.1	13.3	18.8	17.1	16.3	19.0	22.6	17.9	16.0
	Highest gust	51.2	67.6	48.0	59.2	60.8	56.0	59.0	70.4	64.0	52.8
July	Mean Wind Speed	19.0	19.0	15.2	18.4	15.2	20.1	18.6	24.7	18.4	19.4
	Highest gust	67.6	59.2	54.4	57.6	52.8	59.2	61.0	68.8	57.6	64.0
August	Mean Wind Speed	19.0	20.9	17.1	20.9	20.0	19.0	17.3	22.6	23.0	18.7
	Highest gust	60.8	62.7	59.2	62.4	62.4	64.0	58.0	72.0	59.2	52.8
September	Mean Wind Speed	17.1	15.2	17.1	20.9	19.0	17.7	19.9	23.9	17.1	19.8
	Highest gust	67.2	52.8	57.6	59.2	43.1	72.0	62.0	41.6	54.4	59.2
October	Mean Wind Speed	15.2	17.1	15.2	20.9	17.9	17.7	18.8	19.6	17.7	16.9
	Highest gust	54.4	56.3	49.6	56.0	54.4	45.9	45.0	54.4	62.4	59.2
November	Mean Wind Speed	15.2	15.2	15.2	16.0	11.6	16.3	14.3	18.2	16.0	15.4
	Highest gust	52.8	49.6	44.8	43.2	49.6	62.4	51.0	57.6	49.6	59.2
December	Mean Wind Speed	15.2	15.2	13.3	16.0	12.4	11.8	16.1	16.3	15.8	14.4
	Highest gust	59.2	44.8	44.8	52.8	52.8	48.0	56.0	59.2	49.6	56.0

Source: Mauritius Meteorological Services

<sup>1</sup> 10 minutes mean speed<sup>2</sup> 3 seconds gusts

Table 1.11 - Monthly total hours of sunshine by region and station, 2009 - 2018

Hours

Region : North Station : Pamplemousses													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Total
2009	248	193	218	201	248	239	216	216	229	258	248	232	2,745
2010	200	230	199	273	233	199	216	233	214	268	245	314	2,822
2011	237	190	237	236	252	252	248	233	256	288	273	195	2,895
2012	253	215	213	230	223	182	233	197	210	231	214	220	2,622
2013	222	152	210	241	253	251	251	258	258	262	259	277	2,892
2014	212	209	236	246	257	248	212	225	230	279	281	216	2,850
2015	185	193	246	253	235	191	232	222	240	251	242	240	2,731
2016	247	160	210	254	241	202	199	230	217	268	237	264	2,729
2017 <sup>1</sup>	297	189	201	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>
<b>Long Term Mean (1981-2010)</b>	<b>242</b>	<b>212</b>	<b>231</b>	<b>230</b>	<b>233</b>	<b>225</b>	<b>230</b>	<b>243</b>	<b>231</b>	<b>260</b>	<b>256</b>	<b>246</b>	<b>2,839</b>
Region : North Station : Ferret <sup>2</sup>													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Total
2017	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	195	225	193	263	210	274	<i>Napp</i>
2018	153	196	185	218	235	205	220	255	228	227	265	261	2647
<b>Long Term Mean (1981-2010)</b>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>
Region: East Station: Fuel													
2009	247	193	183	165	197	204	173	167	202	203	185	234	2,351
2010	172	183	172	235	189	185	196	196	167	224	243	289	2,451
2011	215	169	206	186	228	178	201	156	227	196	266	142	2,370
2012	234	188	188	190	172	156	182	156	173	215	220	203	2,276
2013	185	135	178	153	213	200	205	215	231	222	234	266	2,436
2014	171	195	227	214	201	171	165	202	213	223	207	168	2,357
2015	169	180	202	226	193	142	190	175	215	199	226	228	2,345
2016	208	146	193	235	210	162	163	200	156	202	182	196	2,253
2017	211	185	175	158	142	134	141	152	174	209	185	258	2,123
2018	154	168	163	166	189	151	144	187	153	180	206	220	2,080
<b>Long Term Mean (1981-2010)</b>	<b>212</b>	<b>185</b>	<b>203</b>	<b>183</b>	<b>190</b>	<b>184</b>	<b>182</b>	<b>190</b>	<b>187</b>	<b>207</b>	<b>221</b>	<b>217</b>	<b>2,360</b>

Source: Mauritius Meteorological Services

<sup>1</sup> Station in Pamplemousses ceased operation in April 2017.<sup>2</sup> A new station Ferret in July 2017.



Table 1.11 (cont'd) - Monthly total hours of sunshine by region and station, 2009 - 2018

Hours

Region : West Station : Medine													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Total
2009	257	198	195	201	235	238	204	225	225	211	248	233	2,669
2010	206	230	235	261	266	233	224	220	231	284	270	287	2,946
2011	221	214	223	234	257	229	253	206	253	271	252	206	2,818
2012	273	230	224	245	245	208	237	224	228	253	230	235	2,832
2013	221	162	229	242	274	242	255	267	271	243	266	262	2,933
2014	222	206	252	253	260	252	234	253	257	275	235	198	2,895
2015 <sup>1</sup>	163	204	230	243	226	198	227	220	258	225	251	213	2,659
2016	235	185	214	248	266	246	217	246	216	235	197	202	2,708
2017	231	190	208	186	202	197	200	201	205	231	188	223	2,462
2018	179	176	188	214	254	182	217	249	215	224	201	253	2,550
Long Term Mean (1981-2010)	231	204	225	216	234	221	226	229	219	241	237	239	2,722

<sup>1</sup> Revised

Table 1.11 (cont'd) - Monthly total hours of sunshine by region and station, 2009 - 2018

Hours

Region : Centre Station : Vacoas													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Total
2009	229	199	226	206	236	237	204	199	221	221	229	220	2,627
2010	164	213	190	267	237	227	213	205	194	254	238	280	2,680
2011	209	178	212	225	224	219	229	207	225	272	223	181	2,605
2012	242	213	216	223	219	185	221	200	222	223	196	223	2,582
2013	204	136	217	214	236	229	243	246	259	235	208	248	2,675
2014	199	203	247	249	247	250	231	240	261	287	240	157	2,810
2015	148	198	214	226	219	184	239	208	244	236	224	223	2,562
2016	238	132	198	237	250	199	197	222	203	243	206	242	2,569
2017	263	178	204	188	200	206	187	201	201	255	183	238	2,505
2018	124	156	175	207	249	207	229	247	226	214	218	245	2,497
Long Term Mean (1981-2010)	225	193	220	210	226	217	219	222	216	240	239	231	2,658
Region : South Station : Plaisance													
Year	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Yearly Total
2009	281	197	216	156	184	194	143	162	222	216	221	256	2,449
2010	204	195	187	247	213	191	184	175	179	241	274	326	2,615
2011	257	200	234	234	216	183	187	193	226	234	266	212	2,642
2012	285	228	216	200	172	148	177	165	191	225	254	225	2,487
2013	235	147	206	156	179	161	167	188	244	224	258	285	2,450
2014	227	204	242	212	196	160	145	177	228	260	250	198	2,498
2015	163	204	204	233	193	128	146	157	211	215	253	273	2,379
2016	223	155	178	203	189	165	156	189	160	267	238	249	2,371
2017	295	218	208	182	158	159	147	195	191	236	213	308	2,510
2018	186	176	192	171	221	168	162	225	195	227	246	248	2,418
Long Term Mean (1981-2010)	240	203	211	194	193	174	170	185	197	230	251	251	2,499

Source: Mauritius Meteorological Services

Table 1.12 - Gross storage capacity and characteristics of reservoirs and major lakes

Reservoir	Year of construction	Gross capacity (Mm <sup>3</sup> )	% of gross capacity	Purpose	Maximum water spread area (km <sup>2</sup> )	Full reservoir level, m (a.m.s.l) <sup>2</sup>
Mare aux Vacoas <sup>1</sup>	1885	25.89	24.5	Domestic	5.60	566.35
Midlands Dam	2002	25.50	24.2	Domestic, irrigation and industrial	2.98	395.00
La Ferme <sup>1</sup>	1914	11.52	10.9	Irrigation	2.28	146.00
Mare Longue	1948	6.28	6.0	Hydro-power, domestic and irrigation	1.05	576.91
La Nicoliere <sup>1</sup>	1929	5.26	5.0	Domestic, irrigation and industrial	1.02	249.02
Diamamove	NA	4.30	4.1	Hydro-power	0.43	241.00
Eau Bleue	NA	4.10	3.9	Hydro-power	0.75	355.00
Piton du Milieu <sup>1</sup>	1952	2.99	2.8	Domestic	0.76	438.00
Tamarind Falls	NA	2.30	2.2	Hydro-power and irrigation	1.68	492.36
Valetta	NA	2.00	1.9	NA	NA	NA
Dagotiere	NA	0.60	0.6	NA	NA	NA
Bagatelle	2017	14.76	14.0	Domestic	1.07	396.50
<b>Total Storage Capacity</b>		<b>105.50</b>	<b>100.0</b>			

Lake		Gross capacity (Mm <sup>3</sup> )	Maximum water spread area (km <sup>2</sup> )	Full lake level, m (a.m.s.l) <sup>2</sup>
Grand Bassin		NA	0.087	NA
Bassin Blanc		NA	0.037	NA

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

<sup>1</sup> Based on hydrographic survey of 1997<sup>2</sup> a.m.s.l : above mean sea level

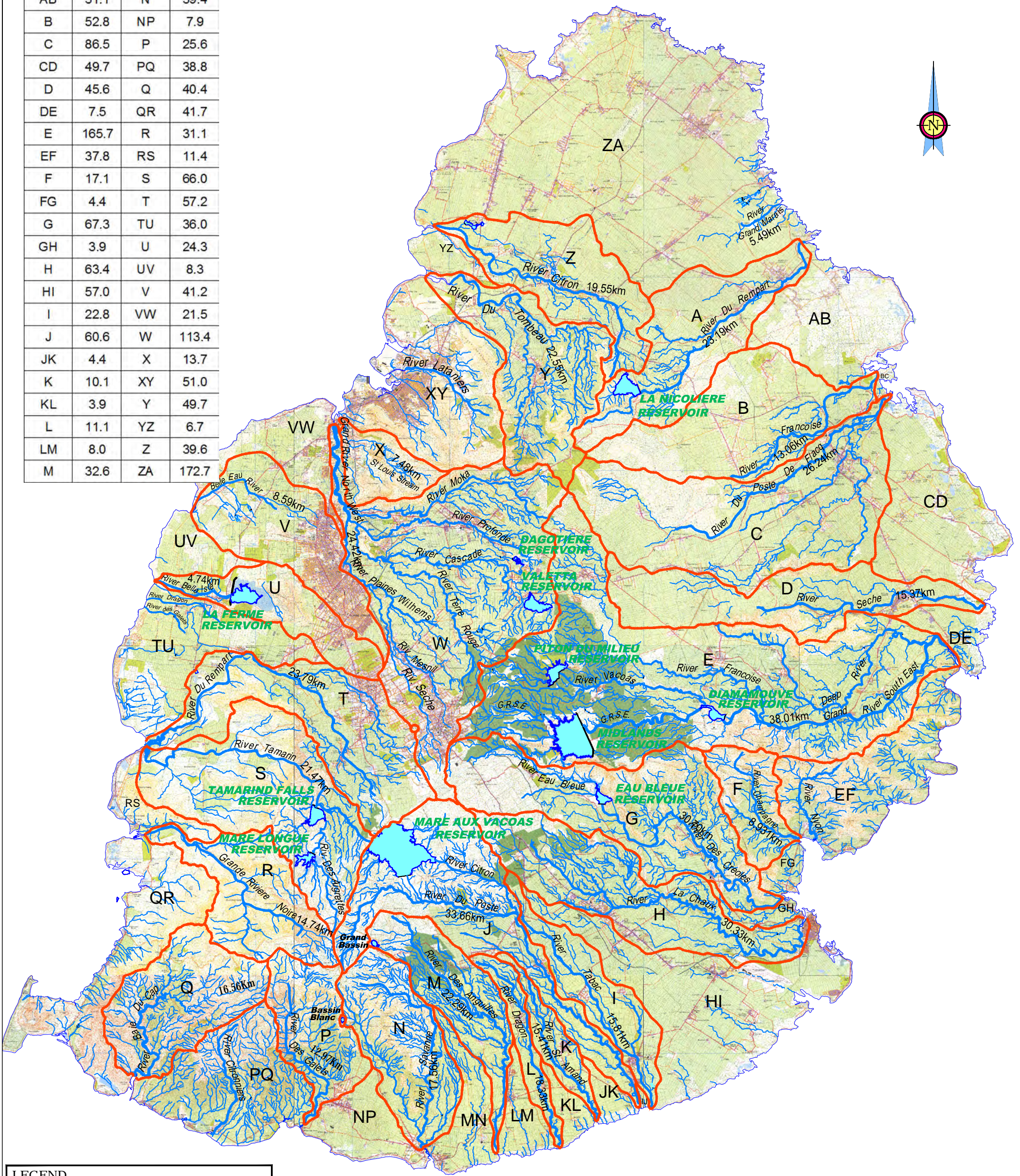
Table 1.13 - Percentage water level by month and reservoir, 2017 - 2018

												%	
Month		Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec
<b>Mare aux Vacoas (Capacity 25.89 Mm<sup>3</sup>)</b>													
<b>Normal<sup>1</sup></b>		<b>60</b>	<b>65</b>	<b>80</b>	<b>83</b>	<b>83</b>	<b>81</b>	<b>79</b>	<b>80</b>	<b>78</b>	<b>72</b>	<b>63</b>	<b>58</b>
<b>2017</b>	Mean	51	61	67	71	98	97	95	98	92	81	72	60
	Min	48	47	64	69	81	95	93	97	87	75	67	54
	Max	56	67	70	74	100	99	96	100	97	87	76	66
<b>2018</b>	Mean	82	99	98	99	95	88	91	89	84	74	62	58
	Min	53	97	96	97	92	86	87	84	80	68	58	54
	Max	100	100	99	100	98	92	95	94	87	80	67	61
<b>La Nicoliere (Capacity 5.26 Mm<sup>3</sup>)</b>													
<b>Normal</b>		<b>63</b>	<b>75</b>	<b>91</b>	<b>92</b>	<b>95</b>	<b>94</b>	<b>93</b>	<b>94</b>	<b>89</b>	<b>69</b>	<b>46</b>	<b>39</b>
<b>2017</b>	Mean	61	86	93	100	100	98	85	94	80	49	39	36
	Min	56	62	83	99	98	90	74	83	61	38	37	32
	Max	65	99	100	100	100	100	93	100	100	60	42	40
<b>2018</b>	Mean	87	97	99	99	80	67	86	75	67	47	49	60
	Min	43	93	93	88	72	65	67	61	60	44	46	56
	Max	100	100	100	100	100	70	99	96	72	59	60	64
<b>Piton du Milieu (Capacity 2.99 Mm<sup>3</sup>)</b>													
<b>Normal</b>		<b>64</b>	<b>72</b>	<b>88</b>	<b>89</b>	<b>91</b>	<b>86</b>	<b>83</b>	<b>83</b>	<b>81</b>	<b>73</b>	<b>60</b>	<b>57</b>
<b>2017</b>	Mean	42	85	99	99	99	99	99	99	95	83	74	66
	Min	38	42	98	99	98	98	98	99	91	77	72	63
	Max	48	100	100	100	100	100	100	100	99	90	77	71
<b>2018</b>	Mean	96	100	100	100	97	89	86	81	77	67	54	73
	Min	62	99	99	99	94	83	82	74	73	60	48	64
	Max	100	100	100	100	99	94	88	87	80	73	64	100
<b>La Ferme (Capacity 11.52 Mm<sup>3</sup>)</b>													
<b>Normal</b>		<b>23</b>	<b>30</b>	<b>64</b>	<b>75</b>	<b>77</b>	<b>69</b>	<b>58</b>	<b>49</b>	<b>37</b>	<b>25</b>	<b>13</b>	<b>10</b>
<b>2017</b>	Mean	32	46	66	79	83	85	75	68	61	54	43	32
	Min	29	30	57	76	81	81	71	66	58	49	37	29
	Max	37	57	77	81	86	87	81	71	66	59	49	37
<b>2018</b>	Mean	58	83	86	78	75	73	68	61	52	40	31	37
	Min	29	75	81	77	75	69	67	55	46	35	28	32
	Max	78	91	91	80	76	76	69	67	55	46	35	46
<b>Mare Longue (Capacity 6.28 Mm<sup>3</sup>)</b>													
<b>Normal</b>		<b>32</b>	<b>48</b>	<b>73</b>	<b>75</b>	<b>77</b>	<b>73</b>	<b>65</b>	<b>63</b>	<b>58</b>	<b>46</b>	<b>28</b>	<b>20</b>
<b>2017</b>	Mean	60	75	84	90	97	96	93	97	93	84	75	66
	Min	56	57	79	88	52	94	92	94	89	79	71	61
	Max	65	81	89	94	100	98	95	100	98	89	79	70
<b>2018</b>	Mean	87	100	99	99	97	92	96	94	90	83	74	72
	Min	61	99	99	98	94	89	90	90	87	78	70	69
	Max	100	100	100	100	99	95	99	99	92	87	78	76
<b>Midlands Dam (Capacity 25.5 Mm<sup>3</sup>)</b>													
<b>2017</b>	Mean	42	56	73	89	100	99	99	99	99	87	73	60
	Min	36	38	65	81	99	99	99	99	96	79	71	49
	Max	49	65	81	97	100	100	100	100	99	96	78	70
<b>2018</b>	Mean	82	100	100	100	98	93	86	81	73	61	45	51
	Min	48	99	99	99	97	88	84	76	69	51	40	47
	Max	100	100	100	100	99	98	88	84	75	69	51	59
<b>All reservoirs excluding Midlands Dam (Capacity 51.94 Mm<sup>3</sup>)</b>													
<b>Normal</b>		<b>49</b>	<b>56</b>	<b>77</b>	<b>82</b>	<b>83</b>	<b>79</b>	<b>75</b>	<b>73</b>	<b>68</b>	<b>58</b>	<b>46</b>	<b>41</b>
<b>2017</b>	Mean	49	63	73	80	95	95	90	91	84	72	62	52
	Min	46	46	69	78	86	92	87	89	79	66	58	48
	Max	53	71	79	82	96	96	92	93	91	78	66	57
<b>2018</b>	Mean	79	95	96	95	89	83	86	81	76	64	55	56
	Min	48	93	94	92	87	81	81	75	71	59	51	54
	Max	95	98	97	96	94	87	89	89	78	71	59	61

<sup>1</sup> Normal is the long term mean for 1990-1999

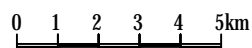
Figure 1.5 - Rivers, reservoirs and catchment boundaries, Mauritius

CATCHMENT	AREA (km <sup>2</sup> )	CATCHMENT	AREA (km <sup>2</sup> )
A	46.9	MN	13.2
AB	31.1	N	39.4
B	52.8	NP	7.9
C	86.5	P	25.6
CD	49.7	PQ	38.8
D	45.6	Q	40.4
DE	7.5	QR	41.7
E	165.7	R	31.1
EF	37.8	RS	11.4
F	17.1	S	66.0
FG	4.4	T	57.2
G	67.3	TU	36.0
GH	3.9	U	24.3
H	63.4	UV	8.3
HI	57.0	V	41.2
I	22.8	VW	21.5
J	60.6	W	113.4
JK	4.4	X	13.7
K	10.1	XY	51.0
KL	3.9	Y	49.7
L	11.1	YZ	6.7
LM	8.0	Z	39.6
M	32.6	ZA	172.7



**LEGEND**

- RIVERS
- CATCHMENT BOUNDARIES
- RESERVOIRS



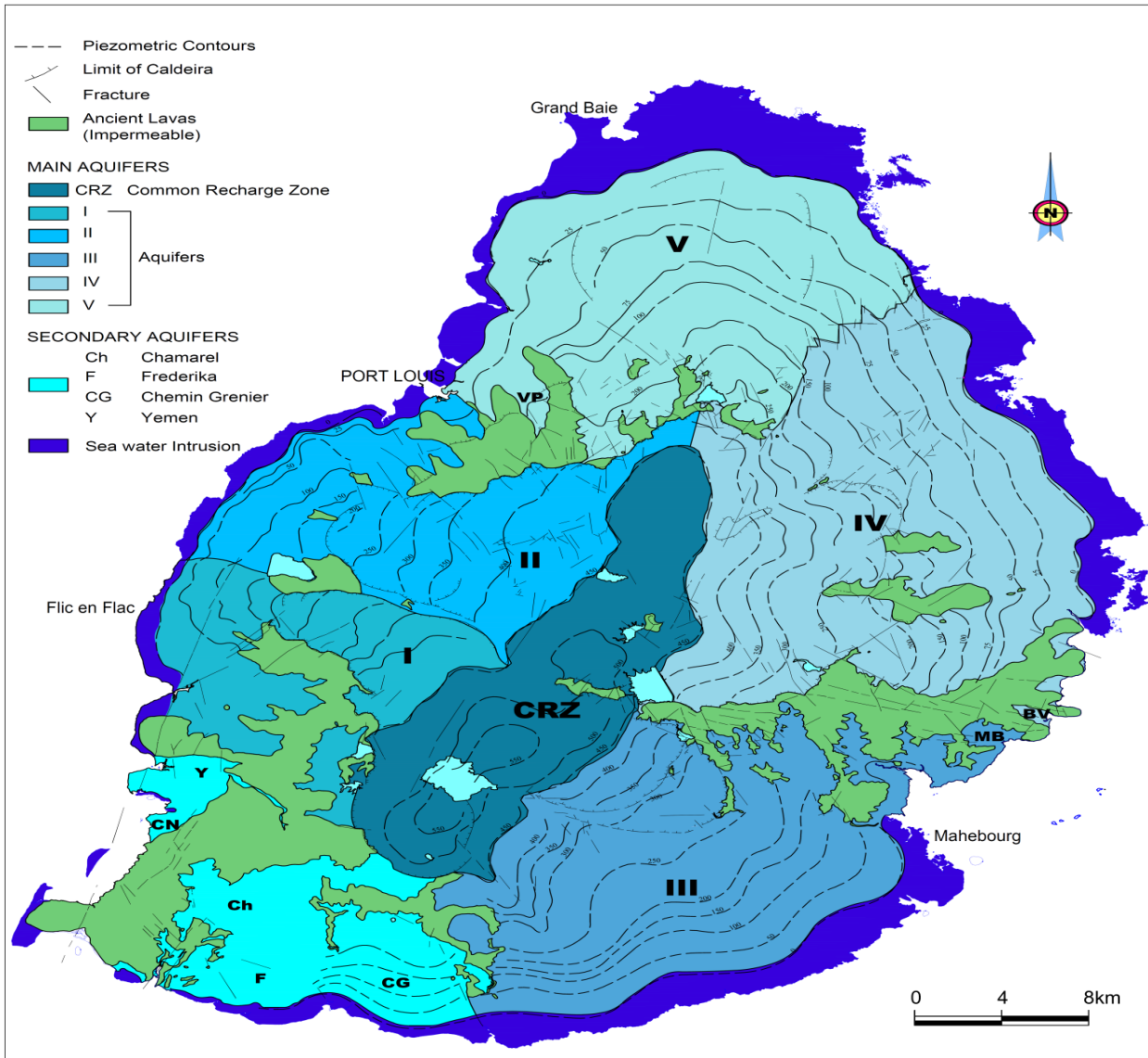
Source: Water Resources Unit

**Table 1.14 - Main rivers and streams, Island of Mauritius**

<b>Rivers</b>		<b>Length (kms)</b>
1	River Grand Marais	5.49
2	River du Rempart	23.19
3	River Francoise	13.06
4	River du Poste de Flacq	26.24
5	River Seche	15.37
6	Grand River South East	38.01
7	River Champagne	8.93
8	River des Creoles	30.7
9	River La Chaux	30.33
10	River Tabac	15.81
11	River du Poste	33.66
12	River Ste Amand	15.41
13	River Dragon	18.33
14	River des Anguilles	22.29
15	River Savanne	17.56
16	River des Galets	12.97
17	River Baie du Cap	16.56
18	Grande River Noire	14.74
19	River Tamarin	21.47
20	River du Rempart	23.79
21	River Belle Isle	4.74
22	Belle Eau River	8.59
23	Grand River North West	24.42
24	St Louis Stream	7.48
25	River du Tombeau	22.55
26	River Citron	19.55

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

Figure 1.6 - Main aquifers



**Five main aquifers :**

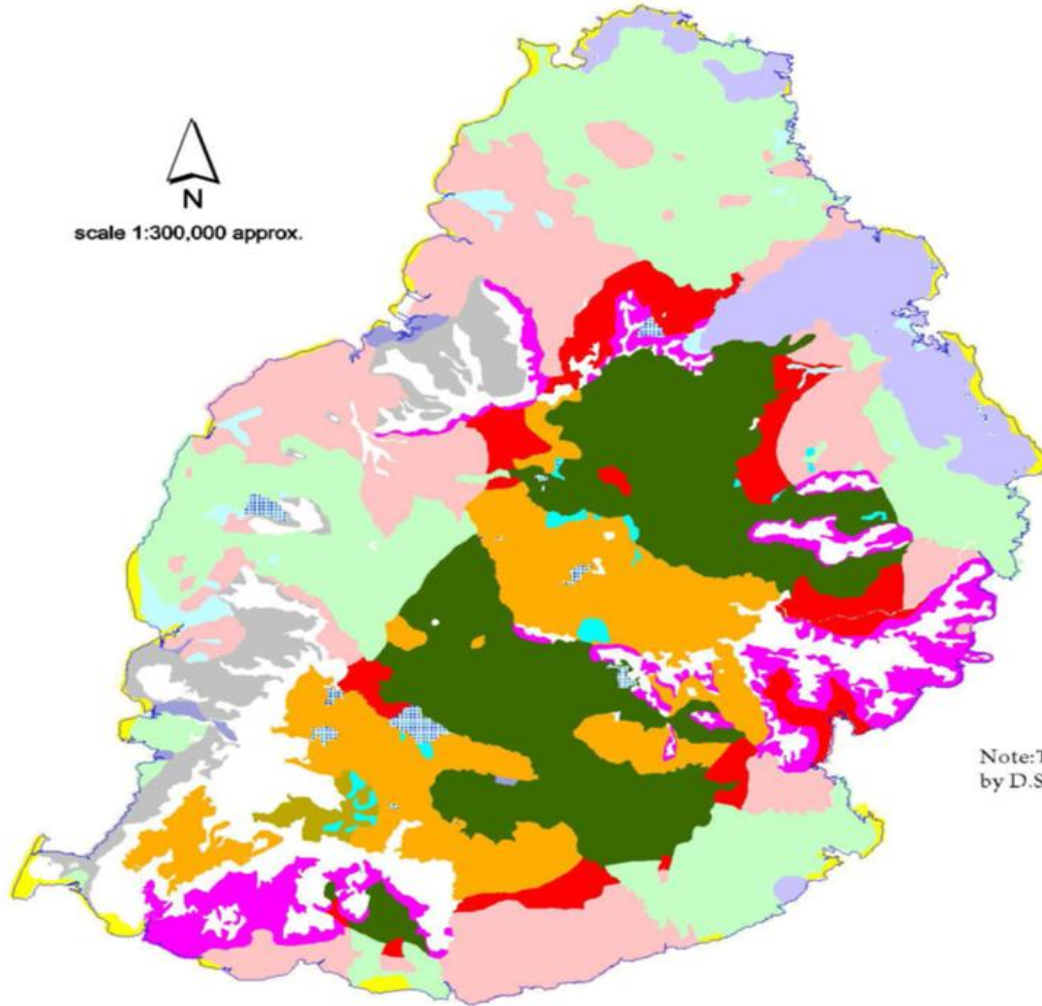
- I. The aquifer of Curepipe/Vacoas/Flic-en-Flac commonly known as the Curepipe aquifer.
- II. Aquifer of Phoenix/Beau-Bassin/Albion –Moka/Coromandel.
- III. Aquifer of Nouvelle France/Rose-Belle/Plaisance.
- IV. Aquifer of Nouvelle Decouverte/Plaine des Roches/Trou d'eau Douce.
- V. Aquifer of Northern Plains.

**Secondary aquifers :**

- Aquifer of CheminGrenier/Frederica (CG/F)
- Aquifer of Chamarel (Ch)
- Alluvial aquifers of Grande Riviere Noire/Sud Yemen (Y) and Vallee des Pretres (VP)
- Fractured aquifers at Chamarel (Ch) and BambousVirieux (BV)
- Carbonated aquifers such as: Mt Bambous (MB) and West of Case Noyale (CN).

Figure 1.7 - Major soil groups of Mauritius

  
 N  
 scale 1:300,000 approx.



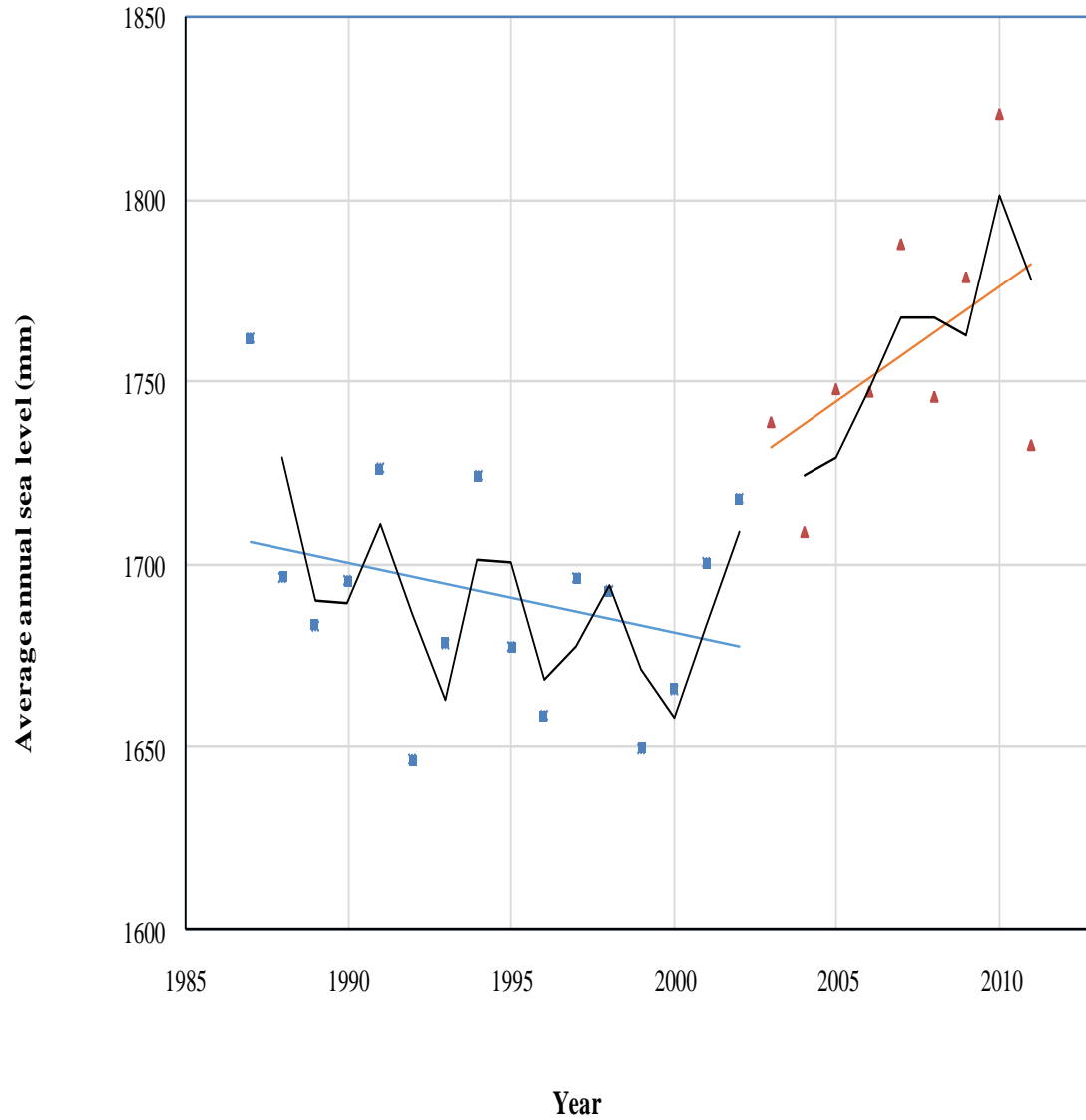
**LEGEND**

Alluvial soil (A)	817
Latosolic Brown Forest (B)	30891
Coral sand (C)	3070
Grey Hydromorphic soil (D)	2040
Humic Ferruginous Latosol (F)	21522
Gley (G)	766
Humic Latosol (H)	9702
Low Humic Latosol (L)	30867
Dark Magnesium Clay (M)	7093
Latosolic Reddish Prairie (P)	37191
Mountain Slope Complex (S)	9970
Lithosol-Mountain & gorges(T)	20063
Lithosol (T3/T4)	11042
Ground Water Laterite (W)	999
Water body	1105
<b>Total (ha)</b>	<b>187137</b>

Source: Parish & Feillafe (1965).  
Occasional Paper 22, MSIRI.

Note: The base map used being Series Y682 published by D.Survey, War Office, and Air Ministry, UK, 1957

Figure 1.8 - Average yearly sea level for Mauritius, 1985 - 2010



Source: Third National Communication, United Nations Framework Convention on Climate Change, October 2016, Ministry of Environment, Sustainable Development and Beach Management

Note: The data series are divided into the period when sea level is decreasing (square) and when it is increasing (triangle).



**Table 1.15 - Invasive alien plant and animal species**

Invasive alien species	Remarks
<p>Invasive alien plant species</p> <ul style="list-style-type: none"> <li>- Goyave de Chine (<i>Psidium cattleianum</i>)</li> <li>- Privet (<i>Ligustrum robustum</i> subsp. <i>walkeri</i>)</li> <li>- Liane cerf (<i>Hiptage benghalensis</i>)</li> </ul>	<ul style="list-style-type: none"> <li>- These species and many more out-compete native plants for space, light and nutrients and quickly come to dominate the forests throughout the island. Goyave de Chine can reach densities of up to about seven million stems at or above 1.3 metre (in height)/km<sup>2</sup>.</li> </ul>
<p>Invasive alien animals</p> <ul style="list-style-type: none"> <li>- Rusa deer (<i>Cervus timorensis rusa</i>)</li> <li>- Feral pigs (<i>Sus scrofa</i>)</li> <li>- Monkeys (<i>Macaca fascicularis</i>)</li> <li>- Rats (<i>Rattus rattus</i> and <i>Rattus norvegicus</i>)</li> <li>- Feral cats (<i>Felis catus</i>)</li> </ul>	<ul style="list-style-type: none"> <li>- Browse native shrubs, saplings and seedling.</li> <li>- Disturb soil, disperse seeds of alien plants and have negative effects on native plant regeneration.</li> <li>- Damage unripe native fruits.</li> <li>- Predate on eggs and chicks of native birds. Rats are notable seed and fruit predators.</li> </ul>
<p>Introduced reptiles</p> <ul style="list-style-type: none"> <li>- Common House gecko (<i>Hemidactylus frenatus</i>)</li> <li>- Indian Wolf snake (<i>Lycodon aulicus</i>)</li> </ul>	<ul style="list-style-type: none"> <li>-They compete with and transmit parasites to the native day gecko <i>Phelsuma ornate</i>.</li> </ul>

Source: Mauritius Environment Outlook Report, 2011

**Table 1.16 - Number of mangroves planted and area covered, 2013 - 2018**

Period	No. of seedlings	Area covered (m <sup>2</sup> )
As at 2013	353,665	178,348
2014	30,160	15,080
2015	925	463
2016	1,200	3,672
2017	800	1,600
2018	600	1,200
<b>Cumulative total number of mangroves planted and area covered as at 2018</b>	<b>387,350</b>	<b>200,363</b>

Source : Albion Fisheries Research Centre, Ministry of Ocean Economy, Marine Resources, Fisheries, Shipping and Outer Islands

**Table 1.17 - Fauna population, Republic of Mauritius, 2014**

Number

Species	Mauritius						Rodrigues					
	Total Native species	Endemic species	Extinct species	Endemic Extinct species	Existing species	Endemic Existing species	Total Native species	Endemic species	Extinct species	Endemic Extinct species	Existing species	Endemic Existing species
Mammals (Bats)	5	1	2	0	3	1	2	0	1	0	1	0
Land Birds	28	19	16	12	12	7	14	13	11	11	3	2
Reptiles	17	16	5	5	12	11	8	8	8	8	0	0
Butterflies	30	5	4	1	26	4	10	0	1	0	9	0
Snails	125	81	43	36	82	45	30	16	7	5	23	11

Source: 5<sup>th</sup> National Report on the Convention on Biological Diversity, 2015

**Table 1.18 - Flora population, Republic of Mauritius, 2014**

Number

Species	Mauritius						Rodrigues					
	Total Native species	Endemic species	Extinct species	Endemic Extinct species	Existing species	Endemic Existing species	Total Native species	Endemic species	Extinct species	Endemic Extinct species	Existing species	Endemic Existing species
Flowering plants	691	273	61	30	630	243	150	47	17	10	133	37

Source: 5<sup>th</sup> National Report on the Convention on Biological Diversity, 2015

**Table 1.19 - Status of endangered flora, 2016 - 2018**

Number

	2016	2017	2018
Native plants species (classified as critically endangered as per International Union for Conservation of Nature criteria)	192		
Of which successfully propagated	83	85	90

Source: National Parks and Conservation Service

**Table 1.20 - Evolution of some fauna population of endemic species, Republic of Mauritius, 2000, 2009 and 2012/2013**

Species	2000	2009	2012 / 2013	Trends 2009 to 2012
<b>Near Threatened</b>				
Rodrigues warbler ( <i>Acrocephalus rodericanus</i> ) (IUCN status: <i>Endangered</i> in 2012, downlisted to <i>Near Threatened</i> in 2013)	150 individuals in 1999	3,000 individuals	4,000 individuals	Increase
<b>Vulnerable</b>				
Mauritius kestrel ( <i>Falco punctatus</i> )	700 individuals	+/- 600 individuals	362 individuals	Decrease
Mauritius cuckoo-shrike ( <i>Coracina typical</i> )	300 - 350 pairs	> 350 pairs <sup>1</sup>	225 - 300 pairs	Decrease
Mauritius black bulbul ( <i>Hypsipetes olivaceus</i> )	225 - 340 pairs	225 - 340 pairs	800 to 1,000 individuals	Increase
Mauritius fruit bat ( <i>Pteropus niger</i> ) (IUCN status: <i>Endangered</i> in 2012, downlisted to <i>Vulnerable</i> in 2013)	10,000	26,000	52,250 individuals in 2012 92,000 individuals in 2013	Increase
<b>Endangered</b>				
Pink pigeon ( <i>Nesoenas mayeri</i> )	400 individuals	+/- 400 individuals	400 to 450 individuals	Stable
Mauritius echo parakeet ( <i>Psittacula eques</i> ) (IUCN status: <i>in 2007 downlisted Critically Endangered to Endangered</i> )	120 individuals	+/- 440 individuals	600 individuals	Increase
Rodrigues fody ( <i>Foudia flavicans</i> ) (IUCN status: <i>Vulnerable</i> in 2012, since 2013 <i>Near Threatened</i> )	900 individuals in 1999	8,000 individuals in 2010	Survey scheduled in 2020	-
Mauritius fody ( <i>Foudia rubra</i> ) (IUCN status: <i>Critically Endangered</i> in 1994, downlisted to <i>Endangered</i> in 2009)	105 - 125 pairs	Black River Gorges National Park population stable at 105 - 125 pairs, about 160 - 170 individuals on Ile aux Aigrettes	420 individuals	Stable
Rodrigues fruit bat ( <i>Peropus rodricensis</i> )	70 < > 100 individuals in 1970	no data	10,000 - 15,000 individuals	Increase
Guenther's gecko ( <i>Phelsuma guentheri</i> )	-	-	4,000 - 6,000 individuals on Round Island	
<b>Critically Endangered</b>				
Mauritius olive white-eye ( <i>Zosterops chloronothos</i> )	< 100 pairs	< 100 pairs in Black River Gorges National Park and surrounding areas, 20 individuals on Ile aux Aigrettes	35 individuals on Ile aux Aigrettes	Increase
<b>Least Concern</b>				
Mauritius paradise flycatcher ( <i>Erpsiphone bourbonnensis desolata</i> )	250 pairs	> 250 pairs, some increases noted	800 individuals	Increase

Source: 5<sup>th</sup> National Report on the Convention on Biological Diversity, 2015

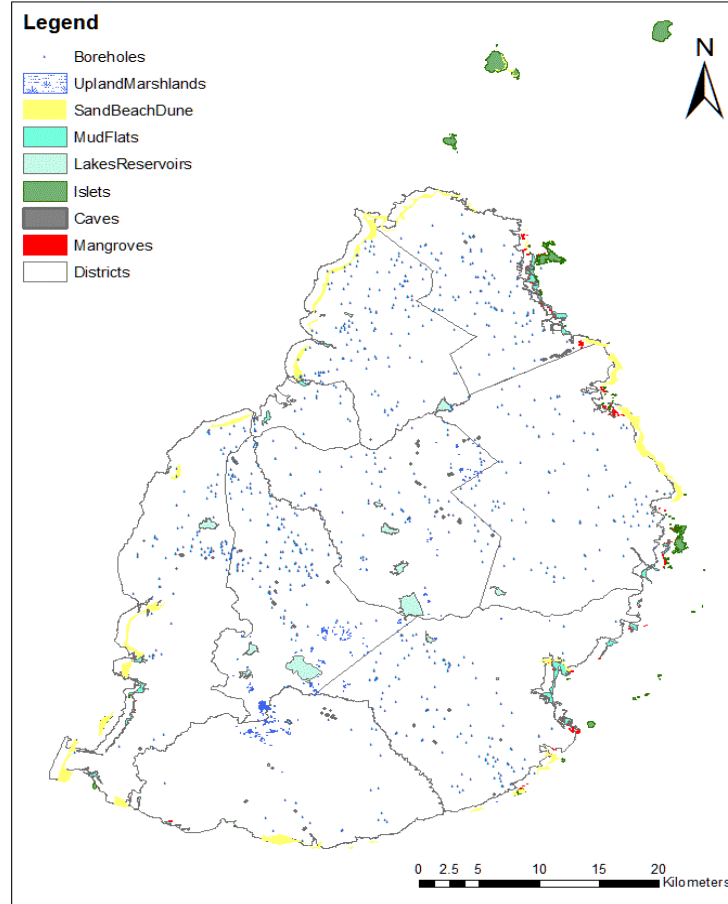
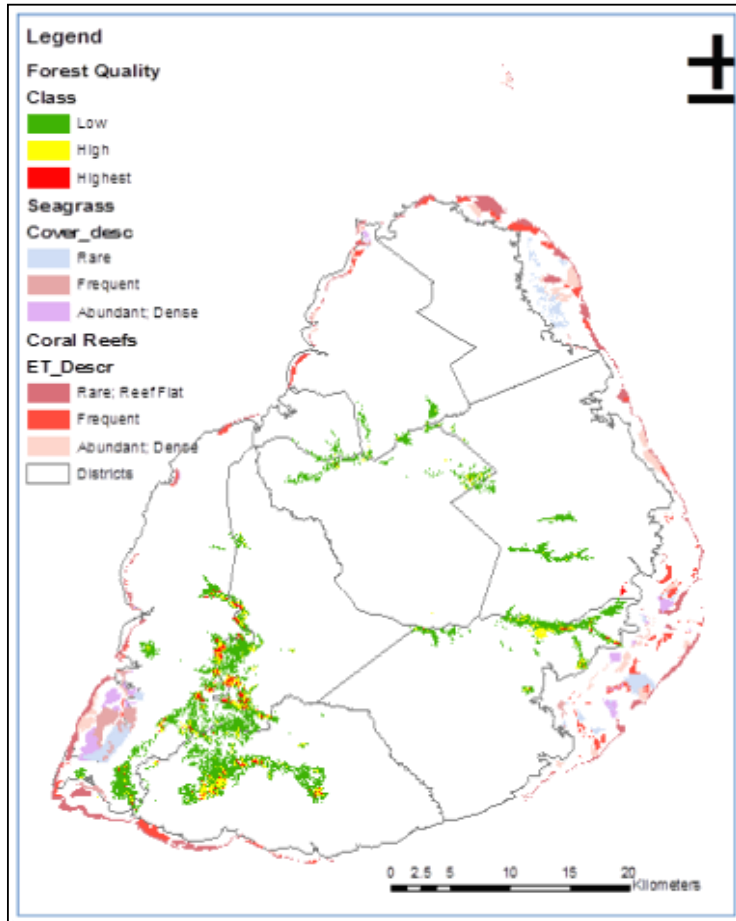
<sup>1</sup> No new surveys conducted, but thought to have increased

**Table 1.21 - Areal estimates for the various Environmentally Sensitive Areas (ESA) by type and sub- category, Republic of Mauritius, 2009**

ESA Type	Estimated Area (ha)		
	Mauritius	Rodrigues	TOTAL
<b>Seagrass &amp; mixed Algae</b>	<b>3,278</b>	<b>17,765</b>	<b>21,043</b>
<i>Sparse Seagrass</i>	1,401	NA	NA
<i>Frequent Seagrass</i>	957	NA	NA
<i>Abundant Seagrass</i>	722	NA	NA
<i>Dense Seagrass</i>	198	NA	NA
<b>Coral reefs</b>	<b>6,306</b>	<b>7,005</b>	<b>13,311</b>
<i>Reef flat</i>	2,485	NA	NA
<i>Sparse Corals</i>	787	NA	NA
<i>Frequent Corals</i>	1,559	NA	NA
<i>Abundant Corals</i>	732	NA	NA
<i>Dense Corals</i>	743	NA	NA
<b>Mangrove</b>	<b>145</b>	<b>24</b>	<b>169</b>
<i>Sparse Mangrove</i>	5	NA	NA
<i>Frequent Mangrove</i>	28	NA	NA
<i>Abundant Mangrove</i>	70	NA	NA
<i>Dense Mangrove</i>	42	NA	NA
<b>Mud Flats</b>	<b>919</b>	<b>656</b>	<b>1,575</b>
<b>Offshore Islets</b>	<b>1,269</b>	<b>181</b>	<b>1,450</b>
<i>Volcanic</i>	1,139	22	1,161
<i>Sand</i>	94	34	128
<i>Calcarenitic limestone</i>	36	125	161
<b>Coastal Freshwater Marshlands</b>	<b>406</b>	NA	<b>406</b>
<b>Upland Marsh</b>	<b>65</b>	NA	<b>65</b>
<b>Forests with Native Content</b>	<b>8,700</b>	NA	<b>8,700</b>
<i>Very High Quality (Grade 1)</i>	490	NA	NA
<i>High Quality (Grade 2)</i>	1,162	NA	NA
<i>Low Quality (Grade 3)</i>	7,048	NA	NA
<b>Steep slopes</b>	<b>45,210</b>	<b>8,051</b>	<b>53,261</b>
<i>Moderately Steep (10 - 20%)</i>	16,352	3,078	19,430
<i>Steep to Very Steep (&gt; 20%)</i>	28,858	4,973	33,831

Source: Environmentally Sensitive Areas and Classification Report, Ministry of Social Security, National Solidarity, Environment and Sustainable Development (Environment and Sustainable Development Division), Republic of Mauritius, 2009

Figure 1.9 - Map of Areal estimates for the various Environmentally Sensitive Areas by type and sub category, 2009



Source: Environmentally Sensitive Areas and Classification Report, Ministry of Social Security, National Solidarity, and Environment and Sustainable Development (Environment and Sustainable Development Division), Republic of Mauritius, 2009

**Table 1.22 - Terrestrial protected areas, Republic of Mauritius - 2018**

Name	Conservation status	Extent (ha)
<b>State Protected Areas - Mainland</b>		
Black River Gorges	National Park <sup>1</sup>	6,574.00
Bras D'Eau		497.20
Pouce	Nature Reserve <sup>2</sup>	68.80
Perrier		1.44
Bois Sec		5.91
Gouly Père		10.95
Corps de Garde		90.33
Cabinet		17.73
Les Mares		5.10
Grande Montagne (Rodrigues)		14.00
Anse Quitor (Rodrigues)		10.00
Vallée d'Osterlog Endemic Garden	National Protected Area <sup>3</sup>	275.00
Rivulet Terre Rouge Estuary Bird Sanctuary	Wetland (Ramsar Site) <sup>4</sup>	26.00
Pointe d'Esny Wetland		20.00
<b>State Protected Areas - Offshore Islets</b>		
Pigeon Rock	Islet National Park <sup>1</sup> / Special Reserves	0.63
Ile d'Ambre		128.00
Rocher des Oiseaux		0.10
Ile aux Fous		0.30
Ile aux Vacoas		1.36
Ile aux Fouquets		2.34
Ilot Flamants		0.80
Ile de la Passe <sup>5</sup>		2.19
Ile aux Oiseaux		0.70
Coin de Mire		Nature Reserve <sup>2</sup>
Iles aux Aigrettes	24.96	
Iles aux Serpents	31.66	
Ile Plate	253.00	
Ile Ronde	168.84	
Ilot Gabriel	42.20	
Ilot Marianne	1.98	
Ile aux Cocos (Rodrigues)	15.00	
Ile aux Sables (Rodrigues)	8.00	
<b>Total state protected areas</b>		<b>8,374.50</b>
<b>Privately-owned Protected Areas</b>		
Mountain Reserves	Mountain Reserve <sup>2</sup>	3,800.00
River Reserves	River Reserve <sup>2</sup>	2,740.00
<b>Total privately- owned protected areas</b>		<b>6,540.00</b>
<b>Grand Total</b>		<b>14,914.50</b>

Source: Forestry Services and National Parks and Conservation Service (NPCS), Ministry of Agro Industry and Food Security

<sup>1</sup> Protected as per the Native Terrestrial Biodiversity & National Parks Act of 2015

<sup>2</sup> Protected as per the Forests and Reserves Act of 1983 (as amended in 1986 and 2003)

<sup>3</sup> Protected as per the Vallée d'Osterlog Endemic Garden Foundation Act of 2007

<sup>4</sup> Designated as Wetlands of International Importance under the RAMSAR Convention

<sup>5</sup> Protected as per the Ancient Monuments Act of 1944 (updated in 1985)

**Note 1 :** "Special Reserve" includes Open and Closed Reserves as per Section 11 of the Native Terrestrial Biodiversity & National Parks Act of 2015

**Note 2:** Although all State-owned lands are protected by law, Pas Geometriques (625 ha) are not considered in the above list since change in land use is allowed thereon. Private Reserves Mondrain (5 ha) and Sir Emile Series (8 ha) are also not included as they are not proclaimed as such under any law.

**Table 1.23 - Marine Protected Areas, Republic of Mauritius, 2018**

Hectares

<b>Marine Protected Areas</b>	<b>Area</b>
<b>Marine - Mauritius</b>	<b>7,190</b>
Blue Bay Marine Park	353
Balaclava Marine Park	485
Poste La Fayette Fishing Reserve	280
Poudre d'Or Fishing Reserve	2,542
Trou d'Eau Douce Fishing Reserve	574
Port Louis Fishing Reserve	331
Grand Port Zone A Fishing Reserve	1,716
Grand Port Zone B Reserve	112
Black River Fishing Reserve	797
<b>Marine - Rodrigues</b>	<b>6,763</b>
South East Marine Protected Area (SEMPA)	4,343
Riviere Banane Marine Reserve	153
Anse aux Anglais Marine Reserve	152
Grand Basin Marine Reserve	1,396
Passe Demi Marine Reserve	719
<b>Total</b>	<b>13,953</b>

Source : Albion Fisheries Research Centre; Forestry Service and Commission for Environment, Tourism, Fisheries and Marine Parks, Rodrigues Regional Assembly

Table 1.24 - Forest area by category, 2009 - 2018

Hectares										
Category	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<b>State - owned</b>	<b>22,159</b>	<b>22,159</b>	<b>22,140</b>	<b>22,143</b>	<b>22,108</b>	<b>22,103</b>	<b>22,069</b>	<b>22,066</b>	<b>22,066</b>	<b>22,048</b>
<i>Plantations</i>	<i>11,901</i>	<i>11,916</i>	<i>11,897</i>	<i>11,900</i>	<i>11,867</i>	<i>11,830</i>	<i>11,804</i>	<i>11,798</i>	<i>11,802</i>	<i>11,799</i>
<i>Nature reserves</i>	<i>799</i>	<i>799</i>	<i>799</i>	<i>799</i>	<i>799</i>	<i>799</i>	<i>799</i>	<i>799</i>	<i>799</i>	<i>799</i>
<i>on mainland</i>	200	200	200	200	200	200	200	200	200	200
<i>islets</i>	599	599	599	599	599	599	599	599	599	599
<i>Black River Gorges National Park</i>	<i>6,574</i>	<i>6,574</i>	<i>6,574</i>	<i>6,574</i>	<i>6,574</i>	<i>6,574</i>	<i>6,574</i>	<i>6,574</i>	<i>6,574</i>	<i>6,574</i>
<i>Bras D'Eau National Park</i> <sup>1</sup>	<i>472</i>	<i>472</i>	<i>497</i>	<i>497</i>	<i>497</i>	<i>497</i>	<i>497</i>	<i>497</i>	<i>497</i>	<i>497</i>
<i>Special Reserves</i> <sup>2</sup>	<i>134</i>	<i>134</i>	<i>134</i>	<i>134</i>	<i>134</i>	<i>134</i>	<i>134</i>	<i>134</i>	<i>136</i>	<i>136</i>
<i>Vallée d' Osterlog Endemic Garden</i>	<i>275</i>	<i>275</i>	<i>275</i>	<i>275</i>	<i>275</i>	<i>275</i>	<i>275</i>	<i>275</i>	<i>275</i>	<i>275</i>
<i>Ramsar sites</i>	<i>26</i>	<i>26</i>	<i>46</i>	<i>46</i>	<i>46</i>	<i>46</i>	<i>46</i>	<i>46</i>	<i>46</i>	<i>46</i>
<i>Rivulet Terre Rouge Bird Sanctuary</i>	26	26	26	26	26	26	26	26	26	26
<i>Pointe D'Esny Wetland</i>	<i>Napp</i>	<i>Napp</i>	20	20	20	20	20	20	20	20
<i>Other forest lands</i>	<i>1,347</i>	<i>1,332</i>	<i>1,287</i>	<i>1,287</i>	<i>1,286</i>	<i>1,323</i>	<i>1,315</i>	<i>1,320</i>	<i>1,314</i>	<i>1,316</i>
<i>Pas Geometriques</i>	<i>631</i>	<i>631</i>	<i>631</i>	<i>631</i>	<i>630</i>	<i>625</i>	<i>625</i>	<i>623</i>	<i>623</i>	<i>606</i>
<i>Plantations</i>	222	222	222	222	221	216	216	214	214	214
<i>Leased for grazing and tree planting</i>	230	230	230	230	230	230	230	230	230	230
<i>Others (mostly rocky)</i>	<i>179</i>	<i>179</i>	<i>179</i>	<i>179</i>	<i>179</i>	<i>179</i>	<i>179</i>	<i>179</i>	<i>179</i>	<i>162</i>
<b>Privately - owned lands</b> <sup>3</sup>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>	<b>25,000</b>
<i>Reserves</i>	<i>6,553</i>	<i>6,553</i>	<i>6,553</i>	<i>6,553</i>	<i>6,553</i>	<i>6,553</i>	<i>6,553</i>	<i>6,553</i>	<i>6,553</i>	<i>6,553</i>
<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>Private reserves</i>	13	13	13	13	13	13	13	13	13	13
<i>Other</i> <sup>4</sup>	<i>18,447</i>	<i>18,447</i>	<i>18,447</i>	<i>18,447</i>	<i>18,447</i>	<i>18,447</i>	<i>18,447</i>	<i>18,447</i>	<i>18,447</i>	<i>18,447</i>
<b>Total</b>	<b>47,159</b>	<b>47,159</b>	<b>47,140</b>	<b>47,143</b>	<b>47,108</b>	<b>47,103</b>	<b>47,069</b>	<b>47,066</b>	<b>47,066</b>	<b>47,048</b>
<i>Of which protected forest (state-owned)</i>	<i>8,280</i>	<i>8,280</i>	<i>8,325</i>	<i>8,325</i>	<i>8,325</i>	<i>8,325</i>	<i>8,325</i>	<i>8,325</i>	<i>8,327</i>	<i>8,327</i>
<i>Of which protected forest (privately-owned)</i>	<i>6,540</i>	<i>6,540</i>	<i>6,540</i>	<i>6,540</i>	<i>6,540</i>	<i>6,540</i>	<i>6,540</i>	<i>6,540</i>	<i>6,540</i>	<i>6,540</i>

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

<sup>1</sup> Bras D'Eau National Park was proclaimed in 2011. From 2002 to 2010, it was known as Bras D'Eau & Poste La Fayette Reserves.<sup>2</sup> "Islet National Parks" renamed as "Special Reserves" as per the Native Terrestrial Biodiversity & National Parks Act of 2015<sup>3</sup> Current figures for privately-owned lands are crude estimates based on expert knowledge from Forestry Service.<sup>4</sup> Includes plantations, forest lands, scrub and grazing lands.



Table 1.25 - Changes in forest-land cover, 2009 and 2018

	Area (hectares)		% of total land area	
	2009	2018	2009	2018
Forests lands : of which	<b>47,159</b>	<b>47,048</b>	<b>25.3</b>	<b>25.2</b>
State owned	22,159	22,048	11.9	11.8
<i>Plantations</i>	<i>11,901</i>	<i>11,799</i>	<i>6.4</i>	<i>6.3</i>
<i>Land Protected areas and Nature reserves</i>	<i>8,280</i>	<i>8,327</i>	<i>4.4</i>	<i>4.5</i>
<i>Other Forest Land</i>	<i>1,347</i>	<i>1,316</i>	<i>0.7</i>	<i>0.7</i>
<i>Pas Geometriques</i>	<i>631</i>	<i>606</i>	<i>0.3</i>	<i>0.3</i>
Privately owned lands <sup>1</sup>	25,000	25,000	13.4	13.4
<i>Reserves (land protected areas)</i>	<i>6,553</i>	<i>6,553</i>	<i>3.5</i>	<i>3.5</i>
<i>Other</i>	<i>18,447</i>	<i>18,447</i>	<i>9.9</i>	<i>9.9</i>

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

Table 1.26 - Forest plantations <sup>1</sup> by type of plants, 2009 - 2018

Type of plant	Hectares									
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<b>Soft wood</b>	<b>9,821</b>	<b>9,836</b>	<b>9,813</b>	<b>9,816</b>	<b>9,816</b>	<b>9,774</b>	<b>9,748</b>	<b>9,742</b>	<b>9,741</b>	<b>9,727</b>
Pine	8,197	8,199	8,176	8,179	8,179	8,137	8,111	8,105	8,104	8,088
Other softwood	1,624	1,637	1,637	1,637	1,637	1,637	1,637	1,637	1,637	1,639
<b>Hardwood</b>	<b>2,302</b>	<b>2,302</b>	<b>2,306</b>	<b>2,306</b>	<b>2,272</b>	<b>2,272</b>	<b>2,272</b>	<b>2,270</b>	<b>2,275</b>	<b>2,286</b>
Eucalyptus and Casuarina	1,443	1,443	1,443	1,443	1,409	1,404	1,404	1,402	1,402	1,402
Other hardwood	859	859	863	863	863	868	868	868	873	884
<b>Total</b>	<b>12,123</b>	<b>12,138</b>	<b>12,119</b>	<b>12,122</b>	<b>12,088</b>	<b>12,046</b>	<b>12,020</b>	<b>12,012</b>	<b>12,016</b>	<b>12,013</b>

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

<sup>1</sup> State land

Figure 1.10 - Percentage composition of forest plantations, 2018

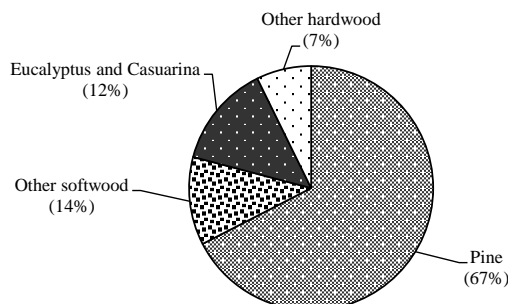


Table 1.27 - Forest fires and area affected, 2009 - 2018

Year	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Number of incidents	14	46	31	28	19	27	13	15	13	14
Area affected ( Ha )	123	188	96	154	157	207	83	63	41	86
of which										
<i>Protected areas</i>	0	53	10	22	0	95	1	0	7	0
<i>Unprotected areas</i>	123	135	86	132	157	112	82	63	34	86

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

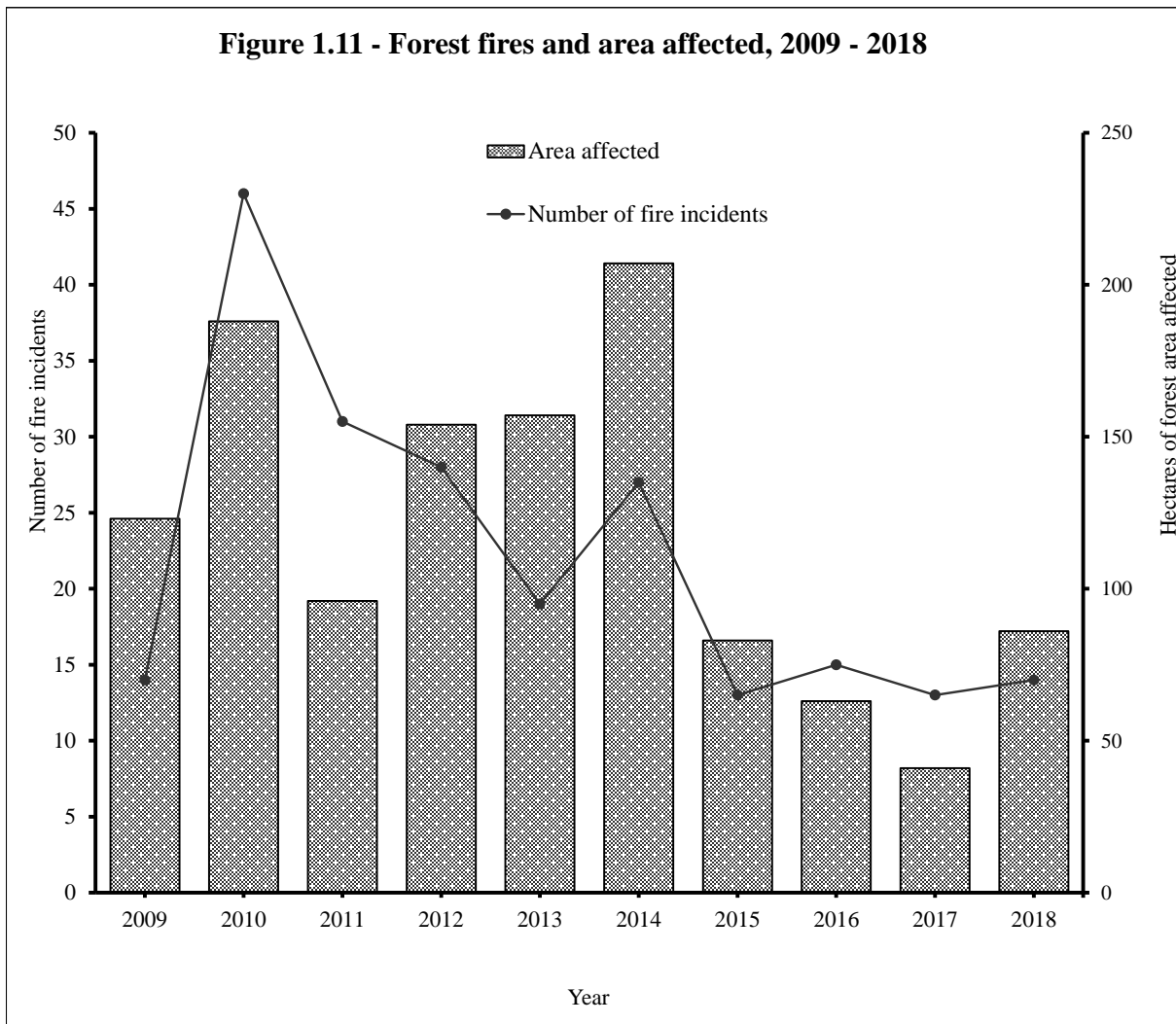


Table 1.28 - Monthly (24-hour average) ambient air quality monitoring by fixed station, 2018

Month	PM <sub>10</sub> for Port Louis Region (Fixed Station at Islamic Cultural Centre)			PM <sub>10</sub> for Vacoas Region (Fixed Station at Mauritius Meteorological Services)			PM <sub>10</sub> for Rose Hill (Fixed Ambient Air Monitoring Station in premises of Living Environment Unit Rose Hill)		
	Urban background			Urban background			Roadside		
	Minimum daily average	Maximum daily average	Monthly average	Minimum daily average	Maximum daily average	Monthly average	Minimum daily average	Maximum daily average	Monthly average
January	2.0	20.3	8.8	4.2	28.5	10.7	17.3	31.5	24.6
February	2.9	15.5	8.7	4.9	13.9	8.8	17.5	39.7	29.5
March	2.3	27.2	13.0	3.3	15.4	8.9	23.3	45.0	34.9
April	0.8	22.7	12.3	3.3	16.8	9.2	23.1	37.0	31.3
May	7.1	20.2	14.1	7.6	20.5	11.5	22.8	37.1	31.6
June	5.7	20.3	12.3	6.3	18.4	11.1	21.9	37.1	29.3
July	3.5	25.2	12.0	10.3	25.3	16.4	23.9	43.8	31.8
August	10.0	33.8	19.0	15.1	31.2	21.2	29.1	45.4	37.4
September	6.9	29.1	16.6	10.5	31.3	19.6	26.3	47.9	34.6
October	9.6	23.1	15.9	12.5	22.6	16.8	24.3	45.6	33.3
November	9.1	23.9	15.4	6.2	23.8	16.2	24.1	45.1	33.7
December	2.7	24.2	11.5	6.8	22.4	15.7	23.2	43.5	30.9

µg/m<sup>3</sup>

Month	Sulphur Dioxide for Roadside Monitoring Rose Hill (Roadside Fixed Ambient Monitoring Station in premises of Living Environment Unit Rose Hill)			Nitrogen Dioxide for Roadside Monitoring Rose Hill (Roadside Fixed Ambient Monitoring Station in premises of Living Environment Unit Rose Hill)			Carbon Monoxide for Roadside Monitoring Rose Hill (Roadside Fixed Ambient Monitoring Station in premises of Living Environment Unit Rose Hill)		
	µg/ppb			ppb			ppb		
	Minimum daily average	Maximum daily average	Monthly average	Minimum daily average	Maximum daily average	Monthly average	Minimum daily average	Maximum daily average	Monthly average
January	0.1	1.1	0.7	1.8	9.6	6.8	0.0	3.5	1.9
February	0.2	2.2	0.7	3.1	11.1	7.5	0.0	2.6	0.6
March	1.1	2.1	1.3	4.0	11.0	7.4	0.0	1.8	0.8
April	1.9	6.1	2.6	5.0	13.7	9.0	0.0	2.9	0.8
May	0.0	2.7	1.0	5.9	12.5	9.9	0.0	1.8	0.5
June	1.3	3.7	1.9	7.4	14.3	10.6	0.0	1.8	0.2
July	2.0	3.5	2.7	7.4	14.8	11.0	0.0	1.0	0.1
August	2.8	4.1	3.3	8.1	15.9	11.5	0.0	1.9	0.1
September	0.5	0.8	0.6	6.4	14.1	9.8	0.0	3.9	1.1
October	0.6	3.9	1.3	3.9	12.6	8.3	0.0	1.7	0.8
November	0.6	2.4	0.9	4.1	11.2	7.2	0.3	1.7	1.0
December	0.1	1.2	0.7	0.0	10.6	5.2	0.5	2.3	1.4

Source: Ministry of Environment, Solid Waste Management and Climate Change

PM<sub>10</sub> stands for Particle Matter of size less or equal to 10 microns; ppb stands for parts per billion; ppm stands for parts per million

(i) Standard for ambient air quality (PM<sub>10</sub>) (24-hr Average) -100 µg/m<sup>3</sup>; (ii) Standard for ambient air quality (Sulphur Dioxide) 1-hr Average-75 µg/ppb; (iii) Standard for ambient air quality (Nitrogen Dioxide) 24-hr Average-105 ppb; (iv) Standard for ambient air quality (Carbon Monoxide Dioxide) 24-hr Average -21 ppb

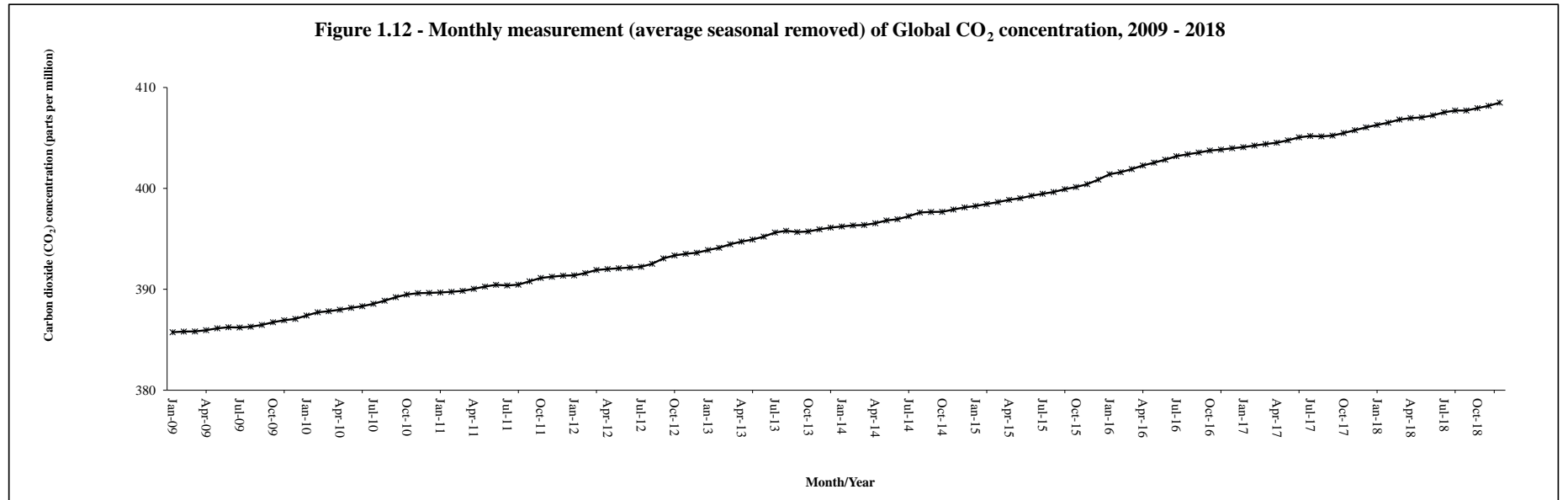
**Table 1.29 - Monthly average measurements (average seasonal removed) of Global Carbon dioxide (CO<sub>2</sub>) concentration, 2009 - 2018**

Parts per million

Year	January	February	March	April	May	June	July	August	September	October	November	December
2009 <sup>1</sup>	385.75	385.82	385.83	385.95	386.13	386.24	386.21	386.30	386.47	386.73	386.93	387.07
2010 <sup>1</sup>	387.40	387.73	387.83	387.98	388.17	388.33	388.57	388.87	389.22	389.49	389.62	389.64
2011 <sup>1</sup>	389.69	389.75	389.84	390.05	390.27	390.44	390.38	390.46	390.80	391.13	391.25	391.36
2012 <sup>1</sup>	391.38	391.61	391.92	392.01	392.09	392.16	392.23	392.53	393.06	393.36	393.52	393.62
2013 <sup>1</sup>	393.89	394.12	394.46	394.73	394.93	395.23	395.62	395.80	395.68	395.73	395.94	396.12
2014 <sup>1</sup>	396.22	396.33	396.37	396.55	396.82	396.94	397.24	397.61	397.66	397.68	397.91	398.12
2015 <sup>1</sup>	398.26	398.46	398.64	398.87	399.03	399.27	399.47	399.64	399.92	400.13	400.41	400.87
2016 <sup>1</sup>	401.41	401.60	401.91	402.27	402.55	402.85	403.19	403.38	403.55	403.75	403.85	403.98
2017 <sup>1</sup>	404.09	404.25	404.39	404.52	404.77	405.06	405.19	405.15	405.23	405.49	405.77	406.05
2018	406.29	406.52	406.82	406.97	407.04	407.24	407.54	407.71	407.71	407.96	408.18	408.50

Source: National Oceanic and Atmospheric Administration (NOAA), U.S Department of Commerce

<sup>1</sup> Revised



**Table 1.30 - Monthly average measurements<sup>1</sup> (average seasonal removed) of Global methane (CH<sub>4</sub>) concentration, 2009 - 2018**

Parts per billion

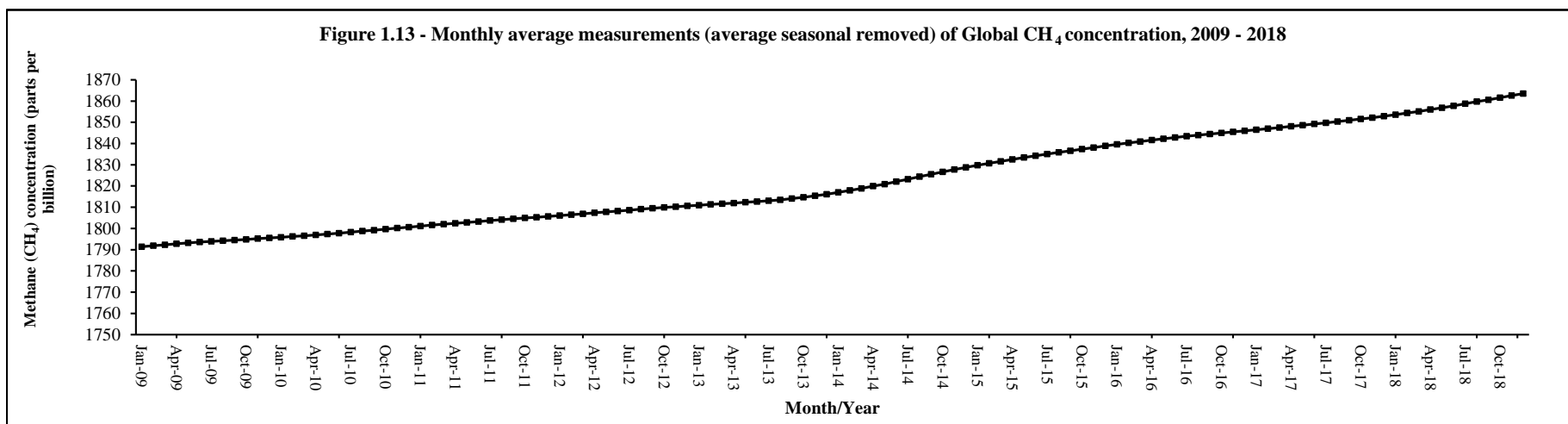
Year	January	February	March	April	May	June	July	August	September	October	November	December
2009 <sup>2</sup>	1791.4	1791.9	1792.3	1792.8	1793.2	1793.6	1793.9	1794.2	1794.5	1794.8	1795.2	1795.5
2010 <sup>2</sup>	1795.8	1796.2	1796.5	1796.9	1797.4	1797.8	1798.3	1798.8	1799.2	1799.7	1800.2	1800.6
2011 <sup>2</sup>	1801.1	1801.6	1802.0	1802.4	1802.8	1803.2	1803.7	1804.1	1804.5	1804.9	1805.3	1805.7
2012 <sup>2</sup>	1806.1	1806.5	1806.9	1807.4	1807.8	1808.2	1808.6	1809.1	1809.5	1809.9	1810.2	1810.6
2013 <sup>2</sup>	1810.9	1811.3	1811.6	1811.9	1812.3	1812.6	1813.1	1813.5	1814.1	1814.7	1815.4	1816.1
2014 <sup>2</sup>	1817.0	1817.9	1818.8	1819.9	1820.9	1822.1	1823.2	1824.4	1825.5	1826.6	1827.7	1828.8
2015 <sup>2</sup>	1829.8	1830.7	1831.6	1832.5	1833.4	1834.2	1835.0	1835.8	1836.6	1837.4	1838.1	1838.9
2016 <sup>2</sup>	1839.6	1840.3	1840.9	1841.6	1842.2	1842.8	1843.4	1843.9	1844.5	1845.0	1845.5	1846.0
2017 <sup>2</sup>	1846.5	1847.0	1847.5	1848.1	1848.6	1849.2	1849.7	1850.3	1850.9	1851.5	1852.2	1852.9
2018	1853.6	1854.4	1855.1	1856.0	1856.8	1857.7	1858.7	1859.7	1860.6	1861.6	1862.6	1863.5

Source: National Oceanic and Atmospheric Administration (NOAA), U.S Department of Commerce

<sup>1</sup> Globally averaged marine surface monthly mean data

<sup>2</sup> Revised

**Figure 1.13 - Monthly average measurements (average seasonal removed) of Global CH<sub>4</sub> concentration, 2009 - 2018**



**Table 1.31 - Freshwater quality from selected boreholes by selected parameters, 2017 - 2018**

Parameter	Unit	Boreholes							
		Beard		Eau Bonne		Telfair		Fond Du Sac	
<i>Physical and Chemical Characteristics</i>		2017	2018	2017	2018	2017	2018	2017	2018
pH		6.61	6.48	6.80	6.74	7.30	7.08	6.92	7.04
Total Suspended Solid (TSS)		NM	NM	NM	NM	NM	NM	NM	NM
<i>Nutrients and Chlorophyll</i>									
Nitrate (as N )	mg/l	0.77	0.73	2.78	2.53	3.34	2.54	8.98	8.50
Nitrite (as N )	mg/l	0.003	<0.005	0.002	<0.005	0.004	<0.005	0.004	<0.005
Total Reactive Phosphorus (as P)	mg/l	0.08	0.1	0.18	0.1	0.13	0.1	0.17	0.14

Source: Central Water Authority

**Guidelines :**

1. pH: 6.5 - 8.5
2. Total Suspended Solid (No guideline)
3. Nitrate: 50 mg/l as NO<sub>3</sub>
4. Nitrite: 3 mg as NO<sub>2</sub>
5. Total Reactive Phosphorous (No guideline)

NM - Not monitored

**Table 1.32 - River water quality by selected physico-chemical parameters, 2018**

Region (Rivers)	Parameters									
	Temperature	Unit	mg/L							
		pH	Dissolved oxygen (DO)	Chemical Oxygen Demand	Phosphate as P	Chloride	Nitrate as NO <sub>3</sub>	Sulphate	Sodium	Potassium
Riviere Coquinbourg	24.8-26.9	6.7-7.8	7.3-9.4	3.0-18.0	0.01-0.12	29.2-36.8	21.7-30.1	20.3-34.3	12.1-27.8	0.6-3.1
Riviere du Rempart West	24.5-27.9	6.7-7.8	6.1-9.4	<3-4.0	0.01-0.03	28.5-34.0	17.3-20.4	14.1-17.4	19.2-1550	1.0-61.0
Riviere du Rempart West	20.3-24.8	7.7-8.1	5.7-10.4	4.0-25.0	0.01-0.03	19.6-40.6	0.9-19.0	9.7-11.5	13.3-26.2	0.7-1.6
Riviere Plaines Wilhems	21.9-26.2	6.7-7.8	6.9-10.6	<3-47.0	0.02-0.14	17.6-20.2	10.6-13.7	12.0-12.8	13.8-15.9	0.8-1.4
Riviere du Poste de Flacq	22.7-25.5	7.1-8.3	9.2-9.8	<3-20.0	0.02	17.1-18.3	9.3-11.1	9.3-11.0	13.4-16.1	0.5-0.8
Riviere Moka	21.4-28.5	6.7-7.2	7.0-8.9	<3-15.0	<0.008-0.02	15.9-24.7	15.9-21.7	4.9-10.6	12.1-14.8	0.3-0.9
Riviere Labourdonnais	22.5-26.2	6.7-8.1	5.9-11.0	<3-15.0	0.01-0.03	32.7-42.5	13.7-21.3	13.9-17.4	21.4-27.4	0.4-1.2
Riviere Francoise	23.4-25.4	7.3-7.6	9.0-10.4	<3-6.0	<0.008-0.02	14.9-16.3	8.9-10.6	5.2-5.6	12.1-13.9	0.6-0.9
Riviere des Creoles	22.9-25.4	7.0-7.7	5.5-8.3	<3-28.0	<0.008-0.03	10.2-11.0	1.3-2.2	4.1-4.5	0.6-9.6	0.5-8.5
Riviere Cascades	21.8-25.7	6.8-7.9	8.4-9.4	<3-30.0	<0.008-0.02	16.3-17.2	5.3-10.2	8.0-8.4	11.4-13.9	0.5-1.0
Riviere des Anguilles	21.3-24.3	7.3-7.9	8.6-10.7	<3-23.0	<0.008-0.02	12.2-13.3	4.4-6.6	4.6-5.5	0.7-10.9	0.5-4.6
Black River	20.0-25.0	7.3-8.1	8.5-9.3	<3-9.0	0.02	15.1-22.1	0.9-2.2	2.4-3.7	11.4-14.5	0.6-0.7
Rivulet Terre Rouge	24.6-28.4	7.2-8.3	3.0-7.3	6.0-30.0	0.09-0.99	100.3-257.4	7.1-16.8	41.7-87.0	84.0-248.0	0.7-3.4
Riviere Tombeau	24.0-26.9	6.8-7.6	6.3-9.0	<3-15.0	0.01-0.07	35.2-46.9	15.5-19.9	14.5-19.3	23.7-39.0	0.4-1.0
Grand River North West	21.3-25.9	7.1-7.6	7.7-8.9	<3-9.0	<0.008-0.02	18.4-20.5	7.5-14.6	10.3-10.6	12.9-14.7	0.6-1.1
Grand River South East	22.3-24.9	7.3-8.0	8.7-10.2	<3-30.0	<0.008-0.02	15.1-16.5	4.9-5.8	5.5-6.1	10.5-12.3	0.6-0.9
Riviere des Galets	18.9-24.2	7.0-7.7	6.7-9.6	<3-19.0	0.01-0.03	13.1-15.7	<0.4-1.8	2.5-4.1	8.3-12.3	0.6-1.2
Riviere du Poste	20.9-25.4	6.9-7.4	7.9-10.9	<3-6.0	<0.008-0.02	13.1-18.7	6.6-13.7	4.5-6.1	0.4-15.9	0.6-7.8
Riviere Tamarin	20.7-25.5	7.4-8.0	5.9-9.5	<3-13.0	<0.008-0.03	18.2-22.8	0.9-8.4	3.1-5.3	13.5-24.4	0.6-0.7
Riviere la Chauv	23.0-26.7	7.2-7.7	8.2-9.2	<3-26.0	<0.0008-0.03	13.9-15.1	5.8-9.3	5.3-6.4	0.7-12.5	0.6-10.6
River Baie du Cap	19.2-23.8	7.0-7.6	8.2-8.6	<3-20.0	0.01-0.03	15.2-22.2	0.4-3.54	2.9-5.5	10.1-13.7	0.8-1.4

Source: National Environmental Laboratory, Ministry of Environment, Solid Waste Management and Climate Change

Guidelines for Inland Surface Water Quality - (1) pH: 6.5 - 9.0; (2) Dissolved Oxygen: 6.0 at 25.0<sup>0</sup> C ; (3) Phosphate as P: 0.1 mg/L

**Table 1.33 - Range of levels of Nitrate-Nitrogen, Phosphate and Chemical Oxygen Demand (COD) at established coastal sites, 2018**

Site	(mg/l)		
	Nitrate-Nitrogen (NO <sub>3</sub> - N)	Phosphate (PO <sub>4</sub> <sup>3</sup> )	Chemical Oxygen Demand (COD)
Trou aux Biches	<0.1 - 0.5	<0.02	<0.1 - 2.6
Pointe aux Sables	<0.1 - 1.0	<0.02 - 0.07	<0.1 - 2.6
Bain des Dames	0.1 - 1.2	<0.02 - 0.25	<0.1 - 3.9
Grand Baie	<0.1 - 0.8	<0.02 - 0.06	<0.1 - 1.5
Ile aux Benitiers	0.1 - 0.3	<0.02	<0.1 - 0.7
Bel Ombre	0.1 - 0.4	<0.02 - 0.18	<0.1
Bambous Virieux	<0.1 - 1.0	<0.02	<0.1 - 1.1
Trou d'Eau Douce □	0.2 - 1.0	<0.02 - 0.1	<0.1 - 1.1
Anse la Raie	0.1 - 1.0	<0.02 - 0.06	<0.1 - 1.5
Baie du Tombeau	<0.1 - 1.1	<0.02 - 0.18	<0.1 - 0.9
Harbour	<0.1 - 0.5	<0.02 - 0.33	<0.1 - 0.8
Poudre d'Or □	<0.1 - 1.3	<0.02 - 0.11	<0.1 - 2.5
Balaclava	<0.1 - 0.6	<0.02	<0.1 - 1.1

Source : Albion Fisheries Research Centre, Ministry of Blue Economy, Marine Resources, Fisheries and Shipping

Note:

(i) Detection limit for Phosphate  $\leq 0.02$  mg/l

(ii) Detection limit for Nitrate-Nitrogen and Chemical Oxygen Demand  $\leq 0.1$  mg/l.

(iii) Coastal Water Quality Guideline limits for class **Conservation**: Nitrate- Nitrogen - 0.3 mg/l, Phosphate - 0.05 mg/l and COD - 2 mg/l

(iv) Coastal Water Quality Guideline limits for class **Recreation**: Nitrate - Nitrogen - 0.8 mg/l, Phosphate - 0.08 mg/l and COD - 5 mg/l

(v) Coastal Water Quality Guideline limits for class **Industrial**: Nitrate - Nitrogen - 1.0 mg/l, Phosphate - 0.1 mg/l and COD - 5 mg/l



**Table 1.33 (cont'd) - Range of levels of Nitrate-Nitrogen, Phosphate and Chemical Oxygen Demand (COD) at established coastal sites, 2018**

Site	(mg/l)		
	Nitrate-Nitrogen (NO <sub>3</sub> - N)	Phosphate (PO <sub>4</sub> <sup>3</sup> )	Chemical Oxygen Demand (COD)
Blue Bay	<0.1 - 1.2	<0.02 - 0.07	<0.1 - 3.3
Belle Mare	0.1 - 0.8	<0.02 - 0.09	<0.1 - 1.8
Albion	0.2 - 0.8	<0.02 - 0.07	<0.1 - 3.3
Flic en Flac	<0.1 - 1.0	<0.02 - 0.15	<0.1 - 0.7
Palmar	<0.1 - 0.8	<0.02 - 0.04	<0.1 - 0.9
Mon Choisy	0.1 - 0.5	<0.02 - 0.03	<0.1 - 2.2
Pereybère	<0.1 - 0.8	<0.02 - 0.08	<0.1 - 0.7
Le Morne	0.2 - 0.8	<0.02 - 0.06	<0.1 - 1.1
Bain Boeuf	0.2 - 0.9	<0.02 - 0.20	0.4 - 1.2
Ferme Marine de Mahebourg Limitée (FMML)	0.1 - 1.2	<0.02	<0.1 - 0.9

Source : Albion Fisheries Research Centre, Ministry of Blue Economy, Marine Resources, Fisheries and Shipping

Note:

(i) Detection limit for Phosphate  $\leq 0.02$  mg/l

(ii) Detection limit for Nitrate-Nitrogen and Chemical Oxygen Demand  $\leq 0.1$  mg/l.

(iii) Coastal Water Quality Guideline limits for class **Conservation**: Nitrate- Nitrogen - 0.3 mg/l, Phosphate - 0.05 mg/l and COD - 2 mg/l

(iv) Coastal Water Quality Guideline limits for class **Recreation**: Nitrate - Nitrogen - 0.8 mg/l, Phosphate - 0.08 mg/l and COD - 5 mg/l

(v) Coastal Water Quality Guideline limits for class **Industrial**: Nitrate - Nitrogen - 1.0 mg/l, Phosphate - 0.1 mg/l and COD - 5 mg/l

Table 1.34 - Total Coliforms (TC) and Faecal Coliforms (FC) in coastal water at monitoring site and by station, 2012 - 2018

Site	Station No.	Average colony count per 100 ml													
		2012		2013		2014		2015		2016		2017		2018	
		TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
Flic en Flac	1	31	6	16	ND	36	10	33	5	86	24	26	5	16	4
	2	28	5	7	5	30	10	95	18	15	2	113	22	36	6
	3	23	4	21	4	27	11	25	5	25	1	124	27	20	3
	4	26	6	19	5	65	10	36	1	434	137	208	32	24	6
	5	37	8	60	15	31	8	141	13	173	32	221	58	143	30
Trou aux Biches	1	201	41	4	ND	28	7	14	ND	46	5	97	22	11	2
	2	35	6	2	ND	18	4	18	1	15	2	126	16	50	9
Mon Choisy	1	30	6	26	5	21	9	42	12	243	4	39	5	37	2
	2	27	5	27	9	29	11	15	2	24	14	142	26	60	6
	3	28	6	12	2	58	2	13	2	2	ND	46	9	2	2
	4	60	13	ND	ND	31	5	18	1	20	ND	28	13	35	8
Blue Bay	1	41	7	4	ND	32	3	65	9	10	27	200	42	66	12
	2	72	14	4	ND	27	1	16	3	26	ND	22	11	95	14
	3	55	9	2	ND	30	4	91	23	222	73	24	6	75	16
Albion	1	99	19	22	3	59	13	55	26	284	79	56	19	135	28
	2	175	35	32	8	84	12	87	40	152	50	59	19	180	38
Pointe aux Sables	1	596	103	282	59	351	67	122	27	162	16	378	66	471	104
	2	462	98	500	114	1,007	159	784	87	612	80	388	68	1,083	173
	3	122	24	363	75	172	61	118	15	217	12	81	15	22	2
	4	58	11	73	16	138	47	61	12	37	7	76	11	545	74

Source: Albion Fisheries Research Centre, Ministry of Ocean Economy, Marine Resources, Fisheries and Shipping

Coastal Water Quality Guideline limits: 1. FC : 200 CFU/100 ml      2. TC : 1000 CFU/100 ml

ND : Not Detected

Table 1.34 (cont'd) - Total Coliforms (TC) and Faecal Coliforms (FC) in coastal water at monitoring site and by station, 2012 - 2018

Site	Station No	Average colony count per 100 ml													
		2012		2013		2014		2015		2016		2017		2018	
		TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC	TC	FC
Grand Baie	1	86	16	26	4	49	3	9	1	30	4	71	20	48	13
	2	30	6	10	2	49	3	11	ND	59	21	50	15	47	13
	3	23	5	15	7	41	7	29	3	201	32	28	6	18	4
	4	91	18	14	5	51	9	6	1	385	60	35	11	36	8
	5	32	6	8	2	30	11	8	2	170	7	16	3	20	4
Le Goulet	1	266	52	99	15	61	19	49	7	234	37	48	8	40	11
Belle Mare	1	20	5	10	2	26	17	79	11	38	7	28	3	40	6
	2	34	6	18	3	29	6	139	35	34	4	93	17	26	10
	3	17	3	50	12	23	4	102	21	34	4	14	2	24	5
	4	51	10	38	20	12	3	65	16	20	2	87	16	40	10
	5	330	64	14	5	33	3	50	17	49	9	152	42	53	14
Pereybère	1	31	7	13	ND	36	4	5	ND	40	7	137	14	39	4
	2	43	9	10	2	43	3	9	1	84	15	7	4	32	11
	3	46	9	13	8	26	1	24	1	35	10	10	4	30	6
	4	68	13	3	ND	30	2	8	1	107	23	16	10	49	6
Blue Bay Marine Park	1	55	10	112	45	ND	ND	7	2	14	ND	138	34	13	2
	2	ND	ND	21	2	26	ND	11	ND	7	ND	8	2	24	2
	3	10	ND	32	15	17	ND	7	10	228	6	4	2	16	2
Balaclava	1	51	10	35	2	23	3	3	ND	36	ND	48	8	8	2
	2	42	8	45	10	ND	ND	15	ND	54	ND	20	2	16	2
	3	-	-	-	-	11	ND	13	ND	46	15	2	2	30	4
	4	-	-	-	-	ND	ND	28	5	312	66	51	19	24	2

Source : Albion Fisheries Research Centre, Ministry of Blue Economy, Marine Resources, Fisheries and Shipping

Coastal Water Quality Guideline limits: 1. FC : 200 CFU/100 ml    2. TC : 1000 CFU/100 ml

ND : Not Detected

- : Not monitored

**Table 1.35 - Physical and chemical characteristics of coastal water by level and monitoring site, 2012 - 2015**

Site	2012			2013			2014			2015		
	pH	Temperature	Salinity	pH	Temperature	Salinity	pH	Temperature	Salinity	pH	Temperature	Salinity
		°C	PSU		°C	PSU		°C	PSU		°C	PSU
Flic en Flac	8.0 - 8.4	26.0 - 29.0	33.9 - 35.0	8.1 - 8.3	23.5 - 31.0	31.6 - 34.2	8.1 - 8.4	24.8 - 30.0	28.9 - 34.0	8.1 - 8.4	26.0 - 32.0	26.9 - 32.4
Trou aux Biches	7.9 - 8.5	26.0 - 29.5	34.2 - 35.0	8.0 - 8.3	27.1 - 30.0	31.9 - 33.3	8.2 - 8.4	25.5 - 30.6	26.3 - 33.1	8.1 - 8.4	25.0 - 29.5	30.0 - 31.1
Mon Choisy	8.0 - 8.5	25.0 - 30.5	33.9 - 35.0	8.1 - 8.5	27.3 - 31.0	32.3 - 33.8	8.2 - 8.4	24.4 - 31.8	31.1 - 33.8	7.9 - 8.4	25.0 - 29.3	29.2 - 32.5
Blue Bay	8.1 - 8.5	23.5 - 30.0	33.2 - 36.0	8.1 - 8.3	26.0 - 30.5	27.7 - 34.3	7.9 - 8.3	24.0 - 30.0	16.9 - 33.7	7.9 - 8.5	24.5 - 31.0	9.1 - 33.1
Albion	8.0 - 8.6	25.0 - 28.5	32.3 - 35.5	7.8 - 8.5	23.0 - 31.0	30.2 - 34.0	8.0 - 8.3	24.1 - 30.0	25.7 - 34.5	8.0 - 8.3	28.0 - 29.5	25.2 - 33.9
Pointe aux Sables	8.0 - 8.5	25.0 - 31.0	29.0 - 35.0	8.0 - 8.2	26.0 - 28.6	24.3 - 35.3	8.2 - 8.9	25.5 - 32.0	24.3 - 32.4	8.0 - 8.5	27.0 - 31.0	26.3 - 30.6

**Source:** Albion Fisheries Research Centre, Ministry of Blue Economy, Marine Resources, Fisheries and Shipping

**Coastal Water Quality Requirements** for pH for Categories Conservation & Recreation is 7.5 - 8.5 while for Category Industrial pH is 7.0 - 9.0; Temperature is ambient for all Categories.

**Note:** i) Total Suspended Solids is not monitored by the Laboratories Division, AFRC

ii) The range of levels of pH, temperature and salinity for seawater have been compiled for each site.

iii) The monitoring frequency for each site is 3 - 4 times yearly.

**Table 1.35 (cont'd) - Physical and chemical characteristics of coastal water by level and monitoring site, 2016 - 2018**

Site	2016			2017			2018		
	pH	Temperature	Salinity	pH	Temperature	Salinity	pH	Temperature	Salinity
		°C	PSU		°C	PSU		°C	PSU
Flic en Flac	8.2 - 8.5	23.2 - 30.5	30.8 - 36.3	8.1 - 8.5	25.0 - 29.3	28.9 - 35.8	7.8 - 8.3	25.2 - 28.6	25.7 - 36.4
Trou aux Biches	8.2 - 8.6	24.0 - 31.0	31.5 - 35.7	8.2 - 8.4	24.7 - 29.1	32.6 - 35.5	7.8 - 8.3	26.0 - 31.3	33.8 - 36.1
Mon Choisy	8.2 - 8.4	23.5 - 31.0	32.7 - 36.6	8.1 - 8.4	23.8 - 29.5	33.5 - 36.3	8.0 - 8.4	25.4 - 31.5	33.0 - 36.1
Blue Bay	8.1 - 8.4	24.6 - 29.1	17.5 - 36.5	8.0 - 8.4	24.7 - 31.1	8.9 - 35.8	8.0 - 8.4	24.5 - 30.4	20.4 - 36.3
Albion	8.0 - 8.4	22.0 - 30.8	27.0 - 36.1	8.1 - 8.3	24.1 - 29.1	33.6 - 35.9	8.0 - 8.2	24.0 - 30.0	22.6 - 36.2
Pointe aux Sables	8.2 - 8.6	32.4 - 35.4	24.0 - 33.0	8.1 - 8.6	24.0 - 29.3	28.7 - 36.4	7.0 - 8.5	25.4 - 30.4	30.4 - 35.8

Source: Albion Fisheries Research Centre, Ministry of Blue Economy, Marine Resources, Fisheries and Shipping

**Coastal Water Quality Requirements** for pH for Categories Conservation & Recreation is 7.5 - 8.5 while for Category Industrial pH is 7.0 - 9.0; Temperature is ambient for all Categories.

**Note:** i) Total Suspended Solids is not monitored by the Laboratories Division, AFRC

ii) The range of levels of pH, temperature and salinity for seawater have been compiled for each site.

iii) The monitoring frequency for each site is 3 - 4 times yearly.

**Table 1.36 - Sea water quality in the lagoon at Terre Rouge Rivulet Bird Sanctuary, 2009 - 2018**

Variable	Unit	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Chemical Oxygen Demand (COD)	mg/l	0.1 - 1.3	0.3 - 0.5	0.3 - 2.4	0.10 - 0.5	0.20 - 0.80	<0.1 - 0.9	<0.1 - 0.5	0.1 - 0.9	< 0.1 - 0.8	< 0.1 - 0.08
Phosphorus as orthophosphate	mg/l	0.01 - 0.19	0.03 - 0.22	0.01 - 0.15	0.07 - 0.21	0.21 - 0.37	<0.02 - 0.05	<0.02 - 0.10	<0.02	< 0.02 - 0.05	< 0.02 - 0.18
Nitrate - Nitrogen	mg/l	<0.1	<0.1	<0.1	<0.1	<0.1 - 0.3	0.2 - 0.3	<0.1 - 0.4	0.3	< 0.1 - 0.9	0.2 - 1.1

Source : Albion Fisheries Research Centre, Ministry of Blue Economy, Marine Resources, Fisheries and Shipping

(i) Detection limit for Phosphate is  $\leq 0.02$  mg/l

(ii) Detection limit for Nitrate-Nitrogen and Chemical Oxygen Demand are  $\leq 0.01$  mg/l

(iii) Coastal Water Quality Requirements for class Industrial: Nitrate - Nitrogen:  $\leq 1.0$  mg/l ; Phosphate:  $\leq 0.1$  mg/l and Chemical Oxygen Demand:  $\leq 5$  mg/l.

**Table 1.37 - Guidelines for inland surface water <sup>1</sup> quality, 1998**

Parameters	Unit	Maximum Limits
<u>Inorganics</u>		
Boron	µg/l	0.75
Cadmium	"	0.70
Chlorine Residual	"	2.0
Chromium (total)	"	2.0
Copper	"	6.5
Cyanide	"	5.2
Dissolved Oxygen	mg/l	6.0 <sup>2</sup>
Iron	mg/l	1.0
Lead	µg/l	1.3
Mercury	"	0.1
Methyl Mercury compounds	"	0.012
Nickel	"	87.6
pH		6.5 - 9.0
Selenium	µg/l	1.0
Silver	"	1.2
Zinc	"	59
Sulphide H <sub>2</sub> S	"	2.0
Phosphate (for a lake)	"	25
(for streams entering a lake)	"	50
(for streams not entering a lake)	"	100
<u>Organics</u>		
Dieldrin	µg/l	0.0019
Chlordane	"	0.0043
Pentachlorophenol (for pH 6.5 - 7.5 )	"	3.5 - 9.5
Dichlorophenyltrichloroethane (DDT)	"	0.001
Endosulfan (alpha and beta forms)	"	0.056
Endrin	"	0.0023
Guthion	"	0.01
Lindane	"	0.08
Oil and Greases	"	Undetectable
Polychlorinated biphenyl (PCB)	"	0.01
Suspended solids (at background concentration <100 mg/l)	mg/l	10.00
(when background concentration > 100 mg/l)	mg/l	10% of background concentration

Source: National Environmental Laboratory, Ministry of Environment, Solid Waste Management and Climate Change

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

<sup>2</sup> Lower limit at 25<sup>0</sup> C.

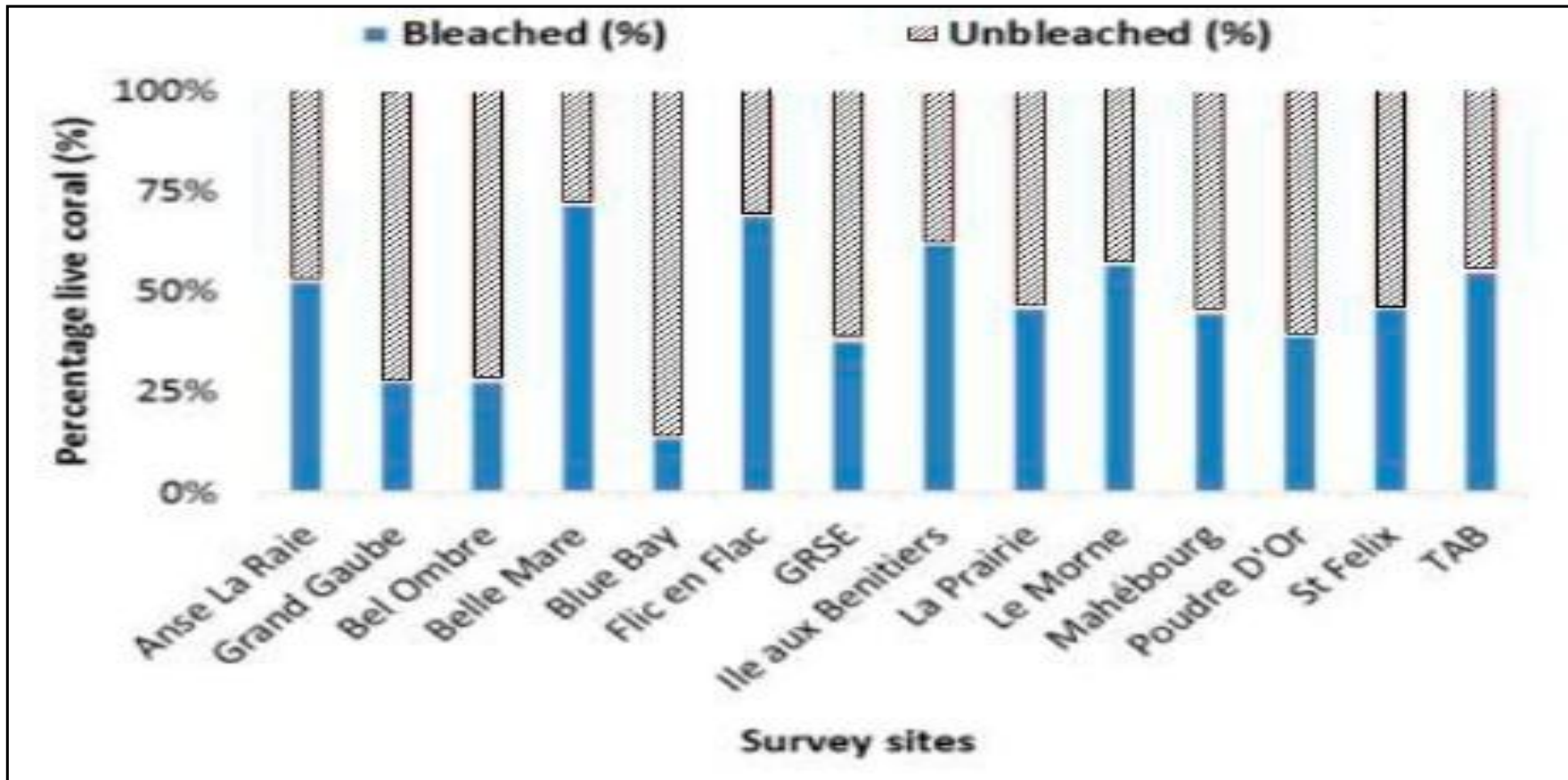
Table 1.38 - Mean sea surface temperature around the Island of Mauritius, 2009 - 2018

		Degrees celcius												
Year		January	February	March	April	May	June	July	August	September	October	November	December	Average for the year
2009	Mean	29.5	28.5	28.7	28.3	27.1	26.1	25.1	24.1	24.1	24.8	25.8	27.6	<b>26.6</b>
	<i>Difference from Normal</i>	2.1	0.6	1.0	1.1	0.8	1.1	1.0	0.5	0.5	0.6	0.6	1.0	
2010	Mean	28.2	29.0	28.6	28.6	27.7	26.0	25.0	24.7	24.0	25.0	26.2	27.2	<b>26.7</b>
	<i>Difference from Normal</i>	0.8	1.1	0.9	1.4	1.4	1.0	0.9	1.1	0.4	0.8	1.0	0.6	
2011	Mean	28.2	28.2	28.6	28.1	27.0	26.1	24.0	24.1	24.0	24.8	26.7	27.4	<b>26.4</b>
	<i>Difference from Normal</i>	0.8	0.3	0.9	0.9	0.7	1.1	-0.1	0.5	0.4	0.6	1.5	0.8	
2012	Mean	28.5	29.1	28.1	28.7	26.6	25.4	24.5	23.9	23.7	24.4	25.3	26.7	<b>26.2</b>
	<i>Difference from Normal</i>	1.1	1.2	0.4	1.5	0.3	0.4	0.4	0.3	0.1	0.2	0.1	0.1	
2013	Mean	27.7	28.2	27.9	27.2	26.1	24.5	23.9	23.9	23.5	24.3	26.1	27.6	<b>25.9</b>
	<i>Difference from Normal</i>	0.3	0.3	0.2	0.0	-0.2	-0.5	-0.2	0.3	-0.1	0.1	0.9	1.0	
2014	Mean	28.0	28.4	29.0	27.7	26.7	25.3	24.0	23.7	24.1	25.0	25.2	27.5	<b>26.2</b>
	<i>Difference from Normal</i>	0.6	0.5	1.3	0.5	0.4	0.3	-0.1	0.1	0.5	0.8	0.0	0.9	
2015	Mean	28.0	28.1	27.6	27.8	26.6	25.1	24.4	22.8	24.3	25.1	25.3	27.3	<b>26.0</b>
	<i>Difference from Normal</i>	0.6	0.2	-0.1	0.6	0.3	0.1	0.3	-0.8	0.7	0.9	0.1	0.7	
2016	Mean	28.4	28.7	28.8	27.1	26.7	25.5	23.9	23.7	23.3	23.9	24.2	26.1	<b>25.9</b>
	<i>Difference from Normal</i>	1.0	0.8	1.1	-0.1	0.4	0.5	-0.2	0.1	-0.3	-0.3	-1.0	-0.5	
2017	Mean	28.0	28.7	28.5	28.4	27.0	26.3	24.8	24.4	24.1	24.9	26.0	27.0	<b>26.5</b>
	<i>Difference from Normal</i>	0.6	0.8	0.8	1.2	0.7	1.3	0.8	0.8	0.5	0.7	0.8	0.4	
2018	Mean	27.6	28.5	27.8	28.4	27.0	25.5	24.2	23.7	23.6	24.6	26.0	27.1	<b>26.2</b>
	<i>Difference from Normal</i>	0.2	0.6	0.1	1.2	0.7	0.5	0.1	0.1	0.0	0.4	0.8	0.5	
<b>Mean 1981 - 2010</b>		<b>27.4</b>	<b>27.9</b>	<b>27.7</b>	<b>27.2</b>	<b>26.3</b>	<b>25.0</b>	<b>24.1</b>	<b>23.6</b>	<b>23.6</b>	<b>24.2</b>	<b>25.2</b>	<b>26.6</b>	<b>25.7</b>

Source : Mauritius Meteorological Services



Figure 1.14 - Mean percentage of bleached and unbleached corals recorded during quantitative surveys at selected reefs sites, 2016



Source: COI\_REEF status report 2017

Note: TAB - Trou aux Biches

**Table 1.39 - Number of noise complaints received by Ministry of Health and Wellness, 2009 - 2018**

Description	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Number of noise complaints received and attended	526	620	562	626	657	859	777	738	715	685
Number of noise complaints justified	194	203	203	229	292	374	323	381	339	333
Number of notices served	34	25	14	8	32	26	27	15	7	3

Source: Ministry of Health and Wellness

**Table 1.40 - Noise monitoring surveillance after office hours and during weekends by "Noise Flying Squad" - Ministry of Health and Wellness, 2013 - 2018**

Description	Number					
	2013	2014	2015	2016	2017	2018
Noise assessment visits	1,622	1,489	1,588	1,548	1,728	1,757
Cases noise was above permissible levels	76	54	29	28	40	35

Source: Ministry of Health and Wellness

**COMPONENT 2**

**ENVIRONMENTAL RESOURCES  
AND THEIR USE**

Table 2.1 - Energy balance, Republic of Mauritius, 2018

Source  Flow		Fossil fuels							Renewables							Electricity	Total		
		Coal	Petroleum products						Fuelwood	Charcoal	Hydro	Wind	Landfill Gas	Photo-voltaic	Bagasse			Total Renewables	
			Gasolene	Diesel	Aviation Fuel	Kerosene	Fuel Oil	LPG											Total Petroleum products
Local production	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	6,140	Napp	10,710	1,296	1,946	4,241	180,071	204,404	Napp	204,404	
Imports	795,707	186,026	333,446	315,946	3,263	636,832	182,114	1,657,627	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	2,453,334
Re-exports and bunkering	Napp	Napp	(147,532)	(162,279)	Napp	(418,576)	Napp	(728,387)	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	(728,387)
Stock change / Statistical error	(347,994)	5,432	30,683	8,876	(2,543)	60,415	(97,930)	4,934	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	(343,060)
<b>Total Primary Energy Requirement</b>	<b>447,713</b>	<b>191,458</b>	<b>216,598</b>	<b>162,543</b>	<b>721</b>	<b>278,671</b>	<b>84,184</b>	<b>934,174</b>	<b>6,140</b>	<b>-</b>	<b>10,710</b>	<b>1,296</b>	<b>1,946</b>	<b>4,241</b>	<b>180,071</b>	<b>204,404</b>	<b>Napp</b>	<b>1,586,291</b>	
Public electricity generation plant	Napp	Napp	(852)	Napp	(673)	(237,404)	Napp	(238,928)	Napp	Napp	(10,710)	(210)	Napp	(3)	Napp	(10,924)	116,143	(133,709)	
Autoproducer plants	(427,943)	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	(1,086)	(1,946)	(4,238)	(161,418)	(168,697)	153,178	(443,462)	
Other transformation	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	(710)	346	Napp	Napp	Napp	Napp	Napp	(364)	Napp	(364)	
Own use	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	(3,793)	(3,793)
Losses	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	(15,685)	(15,685)
<b>Total Final Consumption</b>	<b>19,769</b>	<b>191,458</b>	<b>215,746</b>	<b>162,543</b>	<b>48</b>	<b>41,268</b>	<b>84,184</b>	<b>695,246</b>	<b>5,430</b>	<b>346</b>	<b>Napp</b>	<b>Napp</b>	<b>Napp</b>	<b>Napp</b>	<b>18,653</b>	<b>24,429</b>	<b>249,843</b>	<b>989,278</b>	
Manufacturing sector	19,769	Napp	35,152	Napp	Napp	37,212	6,123	78,486	456	Napp	Napp	Napp	Napp	Napp	18,653	19,109	86,138	203,502	
Transport sector <sup>1</sup>	Napp	191,458	178,463	162,543	Napp	4,056	3,553	540,073	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	-	540,073	
Commercial and distributive trade sector	Napp	Napp	Napp	Napp	Napp	Napp	18,591	18,591	Napp	281	Napp	Napp	Napp	Napp	Napp	281	82,439	101,311	
Household	Napp	Napp	Napp	Napp	48	Napp	55,574	55,621	4,974	64	Napp	Napp	Napp	Napp	Napp	5,038	77,464	138,123	
Agriculture	Napp	Napp	2,131	Napp	Napp	Napp	Napp	2,131	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	1,603	3,735	
Other	Napp	Napp	Napp	Napp	Napp	Napp	343	343	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	2,199	2,542	

<sup>1</sup> includes fuel used for transport by all sectors

Note: figures in brackets represent negative quantities

Table 2.2 - Energy balance, Republic of Mauritius, 2017 <sup>1</sup>

Source  Flow		Fossil fuels							Renewables							Electricity	Total	
		Coal	Petroleum products						Fuelwood	Charcoal	Hydro	Wind	Landfill Gas	Photo-voltaic	Bagasse			Total Renewables
			Gasolene	Diesel	Aviation Fuel	Kerosene	Fuel Oil	LPG										
Local production	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	6,352	Napp	7,723	1,256	1,455	3,370	194,328	214,485	Napp	<b>214,485</b>
Imports	886,942	186,009	350,145	322,134	2,110	622,719	161,371	1,644,489	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	<b>2,531,431</b>
Re-exports and bunkering	Napp	Napp	(130,033)	(159,931)	Napp	(327,119)	Napp	(617,101)	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	<b>(617,101)</b>
Stock change / Statistical error	(415,622)	1,697	(5,733)	(1,968)	(1,068)	(26,262)	(80,085)	(113,419)	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	<b>(529,041)</b>
<b>Total Primary Energy Requirement</b>	<b>471,320</b>	<b>187,706</b>	<b>214,379</b>	<b>160,235</b>	<b>1,042</b>	<b>269,321</b>	<b>81,286</b>	<b>913,969</b>	<b>6,352</b>	<b>Napp</b>	<b>7,723</b>	<b>1,256</b>	<b>1,455</b>	<b>3,370</b>	<b>194,328</b>	<b>214,485</b>	<b>Napp</b>	<b>1,599,774</b>
Public electricity generation plant	Napp	Napp	(1,287)	Napp	(977)	(229,786)	Napp	(232,050)	Napp	Napp	(7,723)	(234)	Napp	(1)	Napp	(7,959)	109,780	<b>(130,228)</b>
Autoproducer plants	(450,533)	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	(1,022)	(1,455)	(3,369)	(172,609)	(178,455)	158,516	<b>(470,472)</b>
Other transformation	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	(772)	376	Napp	Napp	Napp	Napp	Napp	(396)	Napp	<b>(396)</b>
Own use	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	(3,771)	<b>(3,771)</b>
Losses	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	(16,085)	<b>(16,085)</b>
<b>Total Final Consumption</b>	<b>20,787</b>	<b>187,706</b>	<b>213,092</b>	<b>160,235</b>	<b>66</b>	<b>39,535</b>	<b>81,286</b>	<b>681,919</b>	<b>5,580</b>	<b>376</b>	<b>Napp</b>	<b>Napp</b>	<b>Napp</b>	<b>Napp</b>	<b>21,719</b>	<b>27,675</b>	<b>248,441</b>	<b>978,822</b>
Manufacturing sector	20,787	Napp	35,880	Napp	Napp	35,657	5,899	77,436	472	Napp	Napp	Napp	Napp	Napp	21,719	22,191	85,418	<b>205,833</b>
Transport sector <sup>2</sup>	Napp	187,706	175,004	160,235	Napp	3,877	3,581	530,403	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	<b>530,403</b>
Commercial and distributive trade sector	Napp	Napp	Napp	Napp	Napp	Napp	17,467	17,467	Napp	306	Napp	Napp	Napp	Napp	Napp	306	81,849	<b>99,623</b>
Household	Napp	Napp	Napp	Napp	66	Napp	54,012	54,077	5,108	70	Napp	Napp	Napp	Napp	Napp	5,178	75,035	<b>134,290</b>
Agriculture	Napp	Napp	2,208	Napp	Napp	Napp	Napp	2,208	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	2,010	<b>4,218</b>
Other	Napp	Napp	Napp	Napp	Napp	Napp	327	327	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	4,128	<b>4,456</b>

<sup>1</sup> Revised

<sup>2</sup> includes fuel used for transport by all sectors

Note: figures in brackets represent negative quantities

Table 2.3 - Primary energy requirement, (Energy unit), Republic of Mauritius, 2009 - 2018

Thousand tonne of oil equivalent (ktoe)

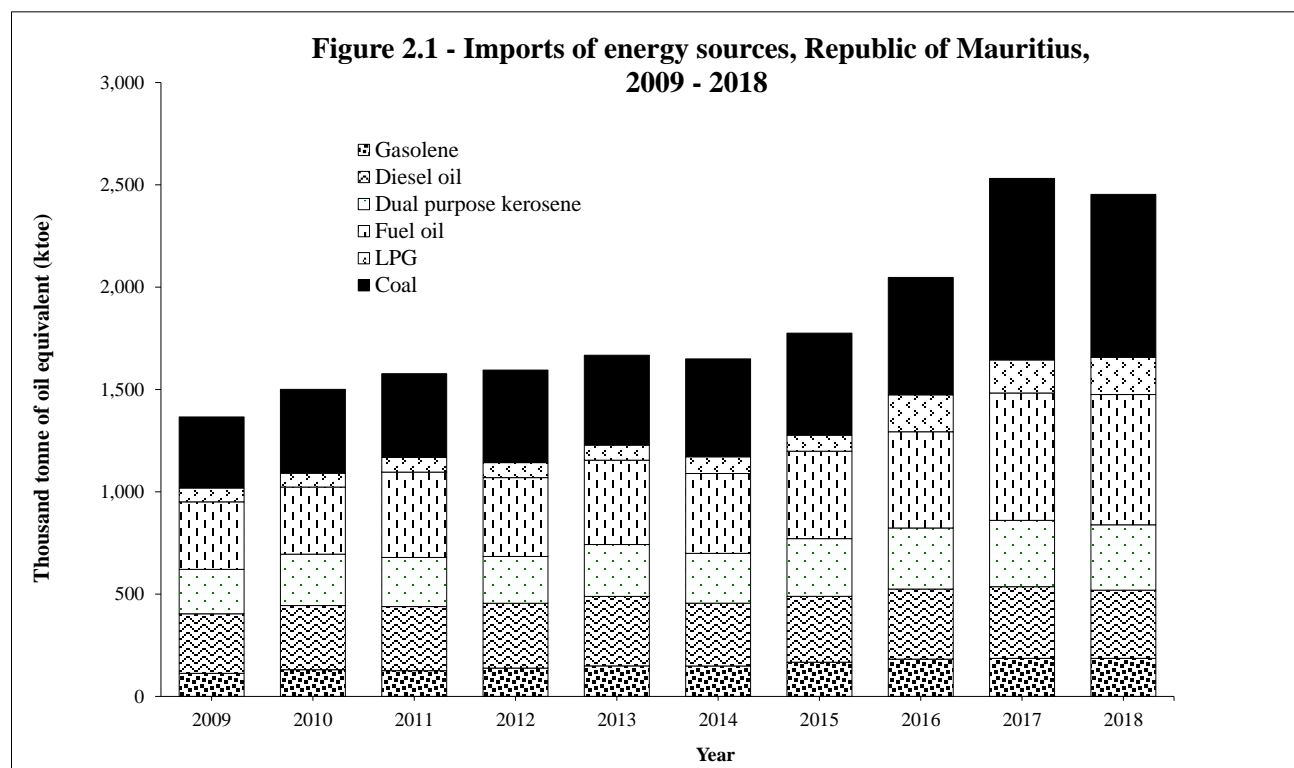
Energy source	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<b>Imported (Fossil Fuel)</b>	<b>1110.6</b>	<b>1189.1</b>	<b>1195.7</b>	<b>1205.3</b>	<b>1235.3</b>	<b>1279.3</b>	<b>1283.2</b>	<b>1,328.5</b>	<b>1,385.3</b>	<b>1,381.9</b>
<i>Coal</i>	<i>369.3</i>	<i>414.1</i>	<i>397.7</i>	<i>418.4</i>	<i>440.6</i>	<i>460.3</i>	<i>446.9</i>	<i>455.3</i>	<i>471.3</i>	<i>447.7</i>
<i>Petroleum product</i>	<i>741.3</i>	<i>775.0</i>	<i>798.0</i>	<i>786.9</i>	<i>794.7</i>	<i>819.0</i>	<i>836.3</i>	<i>873.2</i>	<i>914.0</i>	<i>934.2</i>
Gasolene	120.6	127.7	130.0	136.6	142.7	151.7	163.0	178.9	187.7	191.5
Diesel oil	206.7	213.6	210.1	213.4	207.0	208.0	209.6	210.6	214.4	216.6
Dual purpose kerosene	117.2	131.3	138.7	118.8	121.6	127.7	125.2	148.4	161.3	163.3
<i>Aviation fuel</i>	<i>110.5</i>	<i>123.3</i>	<i>134.4</i>	<i>115.0</i>	<i>120.7</i>	<i>126.8</i>	<i>124.3</i>	<i>147.6</i>	<i>160.2</i>	<i>162.5</i>
<i>Kerosene</i>	<i>6.7</i>	<i>8.0</i>	<i>4.3</i>	<i>3.8</i>	<i>0.9</i>	<i>0.9</i>	<i>0.9</i>	<i>0.8</i>	<i>1.0</i>	<i>0.7</i>
Fuel oil	227.9	232.2	248.1	245.4	248.5	254.8	259.2	254.4	269.3	278.7
LPG	68.9	70.2	71.1	72.7	74.9	76.7	79.2	80.9	81.3	84.2
<b>Local (Renewables) <sup>1</sup></b>	<b>236.3</b>	<b>241.6</b>	<b>231.1</b>	<b>222.3</b>	<b>219.5</b>	<b>212.3</b>	<b>251.3</b>	<b>226.8</b>	<b>214.5</b>	<b>204.4</b>
Hydro	10.5	8.7	4.9	6.4	8.2	7.8	10.5	8.6	7.7	10.7
Wind	0.1	0.2	0.2	0.3	0.3	0.3	0.2	1.5	1.3	1.3
Landfill Gas	0.0	0.0	0.3	1.5	1.7	1.8	1.8	1.6	1.5	1.9
Photovoltaic	0.0	0.0	0.0	0.1	0.2	2.1	2.2	2.6	3.4	4.2
Bagasse <sup>2</sup>	218.0	225.0	218.1	206.5	201.7	193.4	230.1	206.1	194.3	180.1
Fuel wood <sup>2</sup>	7.7	7.7	7.6	7.5	7.3	6.9	6.5	6.4	6.4	6.1
<b>Total</b>	<b>1346.9</b>	<b>1430.7</b>	<b>1426.8</b>	<b>1427.6</b>	<b>1454.8</b>	<b>1491.6</b>	<b>1534.4</b>	<b>1,555.3</b>	<b>1,599.8</b>	<b>1,586.3</b>

<sup>1</sup> Revised<sup>2</sup> Estimates

Table 2.4 - Imports of energy sources (Energy unit), Republic of Mauritius, 2009 - 2018

Thousand tonnes of oil equivalent (ktoe)

Energy source	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<b>Fossil fuels</b>										
<i>Coal</i>	<i>347.1</i>	<i>409.6</i>	<i>409.3</i>	<i>452.2</i>	<i>439.2</i>	<i>478.5</i>	<i>498.6</i>	<i>573.8</i>	<i>886.9</i>	<i>795.7</i>
<i>Petroleum products</i>	<i>1,018.5</i>	<i>1,090.8</i>	<i>1,168.0</i>	<i>1,142.6</i>	<i>1,228.1</i>	<i>1,171.0</i>	<i>1,276.8</i>	<i>1,473.9</i>	<i>1,644.5</i>	<i>1,657.6</i>
Gasolene	112.8	130.6	126.0	138.4	149.3	148.9	167.1	182.3	186.0	186.0
Diesel oil	290.9	313.5	313.0	316.9	339.5	306.7	321.9	342.5	350.1	333.4
Dual purpose kerosene	217.2	251.2	240.0	228.8	253.7	243.6	282.1	298.6	324.2	319.2
<i>Kerosene</i>	<i>4.3</i>	<i>7.0</i>	<i>4.5</i>	<i>7.3</i>	<i>3.0</i>	<i>2.3</i>	<i>2.6</i>	<i>2.2</i>	<i>2.1</i>	<i>3.3</i>
<i>Aviation fuel</i>	<i>212.9</i>	<i>244.2</i>	<i>235.5</i>	<i>221.5</i>	<i>250.7</i>	<i>241.3</i>	<i>279.6</i>	<i>296.4</i>	<i>322.1</i>	<i>315.9</i>
Fuel oil	330.0	327.8	417.4	385.2	411.9	390.2	427.4	470.1	622.7	636.8
LPG	67.6	67.7	71.6	73.3	73.7	81.6	78.3	180.4	161.4	182.1
<b>Total</b>	<b>1,365.6</b>	<b>1,500.4</b>	<b>1,577.3</b>	<b>1,594.8</b>	<b>1,667.3</b>	<b>1,649.4</b>	<b>1,775.4</b>	<b>2,047.7</b>	<b>2,531.4</b>	<b>2,453.3</b>



**Table 2.5 - Plant capacity, peak power demand and electricity generation, Republic of Mauritius, 2009 - 2018**

Year	Plant capacity <sup>1</sup> (MW)				Peak Power (MW)			Electricity generated (GWh)				
	Installed		Effective		Mauritius	Rodrigues	Hydro	Wind	Photovoltaic	Thermal		Total
	Mauritius	Rodrigues	Mauritius	Rodrigues						Landfill gas	Other	
2009	729.0	10.5	647.3	9.6	388.6	5.6	122.41	1.50	Napp	Napp	2,453.53	2,577.44
2010	729.1	11.1	655.2	10.1	404.1	6.1	100.73	2.51	Napp	Napp	2,585.47	2,688.71
2011	726.4	11.1	659.2	10.1	412.5	6.4	56.48	2.83	Napp	3.14	2,676.14	2,738.59
2012	767.6	13.7	682.6	12.9	430.1	6.6	74.07	3.57	0.90	17.80	2,700.80	2,797.14
2013	764.6	13.6	687.3	12.7	441.1	6.9	94.84	3.61	2.71	20.01	2,764.12	2,885.29
2014	768.5	13.7	697	12.8	446.2	7.2	90.84	3.17	24.62	21.33	2,796.98	2,936.94
2015	779	13.8	701.5	13	459.9	7.2	121.88	2.69	25.87	20.36	2,824.78	2,995.58
2016	796.9	13.9	718.6	13.1	467.9	7.6	99.50	17.95	30.30	18.70	2,875.74	3,042.19
2017 <sup>2</sup>	821.0	13.9	763.5	13.1	461.5	7.6	89.81	14.61	39.19	16.92	2,959.19	3,119.71
2018	859.2	13.9	801.5	13.1	468.2	8.1	124.54	15.07	49.42	22.63	2,919.98	3,131.64

<sup>1</sup> Includes plant capacity for electricity not exported to CEB

<sup>2</sup> Revised

Source: Central Electricity Board and Annual Sugar Industry Energy Survey

**Table 2.6 - Electricity generation by source of energy, Republic of Mauritius, 2009 - 2018**

Source of energy	GWh									
	2009	2010	2011	2012	2013	2014	2015	2016	2017 <sup>1</sup>	2018
<b>Primary energy</b>	<b>123.9</b>	<b>103.2</b>	<b>62.4</b>	<b>96.3</b>	<b>121.2</b>	<b>140.0</b>	<b>170.8</b>	<b>166.5</b>	<b>160.5</b>	<b>211.6</b>
Hydro (renewable energy)	122.4	100.7	56.5	74.1	94.8	90.8	121.9	99.5	89.8	124.5
Wind (renewable energy)	1.5	2.5	2.8	3.6	3.6	3.2	2.7	18.0	14.6	15.1
Landfill gas (renewable energy)	Napp	Napp	3.1	17.8	20.0	21.3	20.4	18.7	16.9	22.6
Photovoltaic (renewable energy)	Napp	Napp	Napp	0.9	2.7	24.6	25.9	30.3	39.2	49.4
<b>Secondary energy</b>	<b>2,453.6</b>	<b>2,585.5</b>	<b>2,676.1</b>	<b>2,700.8</b>	<b>2,764.1</b>	<b>2,797.0</b>	<b>2,824.8</b>	<b>2,875.7</b>	<b>2,959.2</b>	<b>2,920.0</b>
Gas turbine (kerosene)	15.3	18.9	11.6	11.0	1.7	2.0	2.0	2.1	2.7	1.8
Diesel & Fuel oil	938.0	976.6	1,058.7	1,057.0	1,076.1	1,079.3	1,131.2	1,109.8	1,181.3	1,221.6
Coal	1,015.3	1,115.9	1,119.4	1,162.3	1,213.6	1,259.5	1,181.7	1,266.8	1,312.0	1,259.5
Bagasse (renewable energy)	485.0	474.1	486.5	470.5	472.8	456.2	509.8	497.0	463.2	437.1
<b>Total</b>	<b>2,577.5</b>	<b>2,688.7</b>	<b>2,738.6</b>	<b>2,797.1</b>	<b>2,885.3</b>	<b>2,936.9</b>	<b>2,995.6</b>	<b>3,042.2</b>	<b>3,119.7</b>	<b>3,131.6</b>
of which: renewable energy	608.9	577.3	551.9	566.8	594.0	596.2	680.6	663.5	623.7	648.7

<sup>1</sup> Revised

**Table 2.7 - Fuel input for electricity production, (Energy unit), Republic of Mauritius, 2009 - 2018**

Thousand tonne of oil equivalent (ktoe)										
Fuel	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Fuel oil	183.0	189.0	206.0	204.5	207.5	212.5	220.4	215.2	229.8	237.4
Diesel oil	2.8	2.0	1.6	1.9	1.3	1.2	1.1	1.0	1.3	0.9
Kerosene	5.1	6.3	3.8	3.6	0.7	0.7	0.8	0.8	1.0	0.7
Coal	356.0	398.7	382.7	402.5	423.6	441.0	424.3	434.8	450.5	427.9
Bagasse <sup>1</sup>	181.7	182.5	179.1	172.5	169.0	164.9	198.4	180.7	172.6	161.4
<b>Total</b>	<b>728.6</b>	<b>778.5</b>	<b>773.2</b>	<b>784.9</b>	<b>802.1</b>	<b>820.3</b>	<b>845.0</b>	<b>832.5</b>	<b>855.2</b>	<b>828.3</b>

<sup>1</sup> Estimates**Table 2.8 - Final energy consumption by sector and type of fuel (Energy unit), Republic of Mauritius, 2009 - 2018**

Thousand tonne of oil equivalent (ktoe)										
Sector	2009	2010	2011	2012	2013	2014	2015	2016	2017 <sup>1</sup>	2018
<b>Manufacturing</b>	<b>220.4</b>	<b>231.2</b>	<b>222.4</b>	<b>215.5</b>	<b>212.3</b>	<b>210.7</b>	<b>216.2</b>	<b>206.9</b>	<b>205.8</b>	<b>203.5</b>
Fuel oil	41.4	39.8	38.7	37.4	37.6	38.9	35.7	35.3	35.7	37.2
Diesel oil	46.3	47.0	43.5	41.7	35.8	36.5	37.0	35.7	35.9	35.2
LPG	5.4	5.5	5.7	5.9	5.8	5.9	6.1	6.0	5.9	6.1
Coal	13.4	15.4	15.0	15.9	17.1	19.4	22.6	20.6	20.8	19.8
Fuel wood <sup>2</sup>	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Electricity	77.1	80.3	79.9	79.9	82.8	81.2	82.7	83.4	85.4	86.1
Bagasse <sup>2</sup>	36.3	42.6	39.1	34.1	32.7	28.5	31.6	25.4	21.7	18.7
<b>Transport</b>	<b>394.9</b>	<b>421.6</b>	<b>435.3</b>	<b>427.3</b>	<b>438.8</b>	<b>454.1</b>	<b>463.1</b>	<b>505.6</b>	<b>530.4</b>	<b>540.1</b>
<b>Land</b>	<b>276.7</b>	<b>290.6</b>	<b>293.1</b>	<b>304.2</b>	<b>310.1</b>	<b>319.1</b>	<b>330.8</b>	<b>348.7</b>	<b>360.6</b>	<b>367.6</b>
LPG	5.0	5.0	4.9	4.7	4.4	4.0	3.4	3.8	3.6	3.6
Gasolene	117.6	124.5	126.8	133.2	139.2	148.2	159.4	174.7	183.3	186.9
Diesel oil	154.2	161.1	161.5	166.3	166.5	166.8	168.0	170.2	173.7	177.2
<b>Air</b>	<b>110.5</b>	<b>123.3</b>	<b>134.3</b>	<b>115.0</b>	<b>120.7</b>	<b>126.8</b>	<b>124.3</b>	<b>147.6</b>	<b>160.2</b>	<b>162.5</b>
Aviation fuel (local aircraft)	110.5	123.3	134.3	115.0	120.7	126.8	124.3	147.6	160.2	162.5
<b>Sea</b>	<b>7.7</b>	<b>7.7</b>	<b>7.8</b>	<b>8.0</b>	<b>8.0</b>	<b>8.2</b>	<b>8.0</b>	<b>9.3</b>	<b>9.6</b>	<b>10.0</b>
Gasolene	3.0	3.2	3.3	3.4	3.4	3.5	3.7	4.2	4.4	4.6
Diesel oil	1.1	1.1	1.1	1.1	1.2	1.2	1.2	1.2	1.3	1.3
Fuel oil	3.6	3.4	3.4	3.5	3.4	3.5	3.1	3.9	3.9	4.1
<b>Household</b>	<b>113.1</b>	<b>116.9</b>	<b>117.4</b>	<b>120.1</b>	<b>123.4</b>	<b>126.5</b>	<b>129.9</b>	<b>132.2</b>	<b>134.3</b>	<b>138.1</b>
Kerosene	1.5	1.8	0.5	0.3	0.2	0.2	0.1	0.1	0.1	0.0
LPG	46.7	47.6	48.2	49.0	50.1	51.4	53.0	53.4	54.0	55.6
Fuel wood <sup>2</sup>	6.3	6.3	6.2	6.1	5.9	5.5	5.2	5.2	5.1	5.0
Charcoal <sup>2</sup>	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
Electricity	58.5	61.1	62.4	64.7	67.1	69.3	71.5	73.5	75.0	77.5
<b>Commercial and distributive Trade</b>	<b>72.3</b>	<b>76.4</b>	<b>80.7</b>	<b>83.7</b>	<b>88.1</b>	<b>92.5</b>	<b>95.5</b>	<b>97.6</b>	<b>99.6</b>	<b>101.3</b>
LPG	11.4	11.8	12.2	12.9	14.3	15.2	16.3	17.4	17.5	18.6
Charcoal <sup>2</sup>	0.3	0.3	0.3	0.4	0.4	0.4	0.3	0.3	0.3	0.3
Electricity	60.5	64.3	68.1	70.4	73.4	77.0	78.9	79.9	81.8	82.4
<b>Agriculture</b>	<b>4.1</b>	<b>4.4</b>	<b>4.3</b>	<b>4.5</b>	<b>4.5</b>	<b>4.6</b>	<b>4.2</b>	<b>4.5</b>	<b>4.2</b>	<b>3.7</b>
Diesel oil <sup>2</sup>	2.3	2.3	2.4	2.4	2.3	2.3	2.3	2.3	2.2	2.1
Electricity	1.8	2.0	1.9	2.1	2.2	2.3	1.9	2.2	2.0	1.6
<b>Other (n.e.s) and losses</b>	<b>3.8</b>	<b>3.5</b>	<b>3.0</b>	<b>3.4</b>	<b>3.5</b>	<b>3.4</b>	<b>3.9</b>	<b>4.3</b>	<b>4.5</b>	<b>2.5</b>
<b>Total</b>	<b>808.6</b>	<b>854.0</b>	<b>863.1</b>	<b>854.5</b>	<b>870.6</b>	<b>891.8</b>	<b>912.9</b>	<b>951.1</b>	<b>978.8</b>	<b>989.2</b>

<sup>1</sup> Revised<sup>2</sup> Estimates



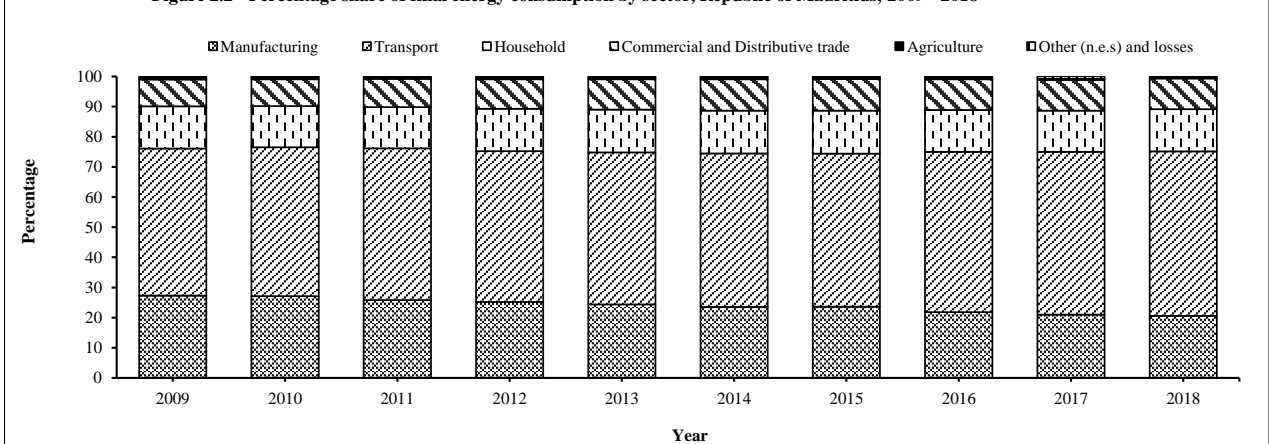
**Table 2.9 - Final energy consumption by sector (Energy unit), Republic of Mauritius, 2009 - 2018**

Thousand tonne of oil equivalent (ktoe)

Sector	2009	2010	2011	2012	2013	2014	2015	2016	2017 <sup>1</sup>	2018
Manufacturing	220.5	231.2	222.4	215.4	212.3	210.7	216.2	206.9	205.9	203.5
Transport	394.9	421.6	435.3	427.3	438.8	454.1	463.1	505.6	530.4	540.1
<i>of which land transport</i>	276.7	290.6	293.1	304.2	310.1	319.1	330.8	348.7	360.6	367.6
Household	113.1	116.9	117.4	120.1	123.4	126.5	129.9	132.2	134.3	138.1
Commercial and distributive trade	72.3	76.4	80.7	83.7	88.1	92.5	95.5	97.6	99.6	101.3
Agriculture	4.1	4.4	4.3	4.5	4.5	4.6	4.2	4.5	4.2	3.7
Other (n.e.s) and losses	3.7	3.6	3.0	3.4	3.5	3.4	3.9	4.3	4.5	2.5
<b>Total</b>	<b>808.6</b>	<b>854.1</b>	<b>863.1</b>	<b>854.4</b>	<b>870.6</b>	<b>891.9</b>	<b>912.9</b>	<b>951.1</b>	<b>978.8</b>	<b>989.2</b>

<sup>1</sup> Revised**Table 2.10 - Percentage share of final energy consumption by sector, Republic of Mauritius, 2009 - 2018**

Sector	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Manufacturing	27.3	27.1	25.8	25.2	24.4	23.6	23.7	21.8	21.0	20.6
Transport	48.8	49.4	50.4	50.0	50.4	50.9	50.7	53.2	54.0	54.6
Household	14.0	13.7	13.6	14.1	14.2	14.2	14.2	13.9	13.7	14.0
Commercial and distributive trade	8.9	8.9	9.4	9.8	10.1	10.4	10.5	10.2	10.1	10.2
Agriculture	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.4	0.4
Other (n.e.s) and losses	0.5	0.4	0.3	0.4	0.4	0.4	0.4	0.4	0.8	0.3
<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>

**Figure 2.2 - Percentage share of final energy consumption by sector, Republic of Mauritius, 2009 - 2018**

**Table 2.11 - Land use by category, 1995 and 2005**

Land use	1995		2005 <sup>1</sup>		Change	
	Hectares	%	Hectares	%	Hectares	%
Sugar cane plantations	76,840	41.2	72,000	38.6	-4,840	-6.3
Tea plantations	3,660	2.0	674	0.4	-2,986	-81.6
Other agricultural activities	6,000	3.2	8,000	4.3	2,000	33.3
<b>Total agricultural land</b>	<b>86,500</b>	<b>46.4</b>	<b>80,674</b>	<b>43.3</b>	<b>-5,826</b>	<b>-6.7</b>
Forests, scrubs & grazing lands	57,000	30.6	47,200	25.3	-9,800	-17.2
Infrastructure	4,000	2.1	4,500	2.4	500	12.5
Inland water resource systems	2,600	1.4	2,900	1.6	300	11.5
Built-up areas	36,400	19.5	46,500	24.9	10,100	27.7
Abandoned cane fields	NA	NA	4,726	2.5	Napp	Napp
<b>Total</b>	<b>186,500</b>	<b>100.0</b>	<b>186,500</b>	<b>100.0</b>	<b>0</b>	<b>0</b>

Source: (i) Sugar Insurance Fund Board - Sugar cane plantation, (ii) Tea Board - Tea Plantation, (iii) Climate Change Activities Report, May 2006 - Other

<sup>1</sup> Estimates

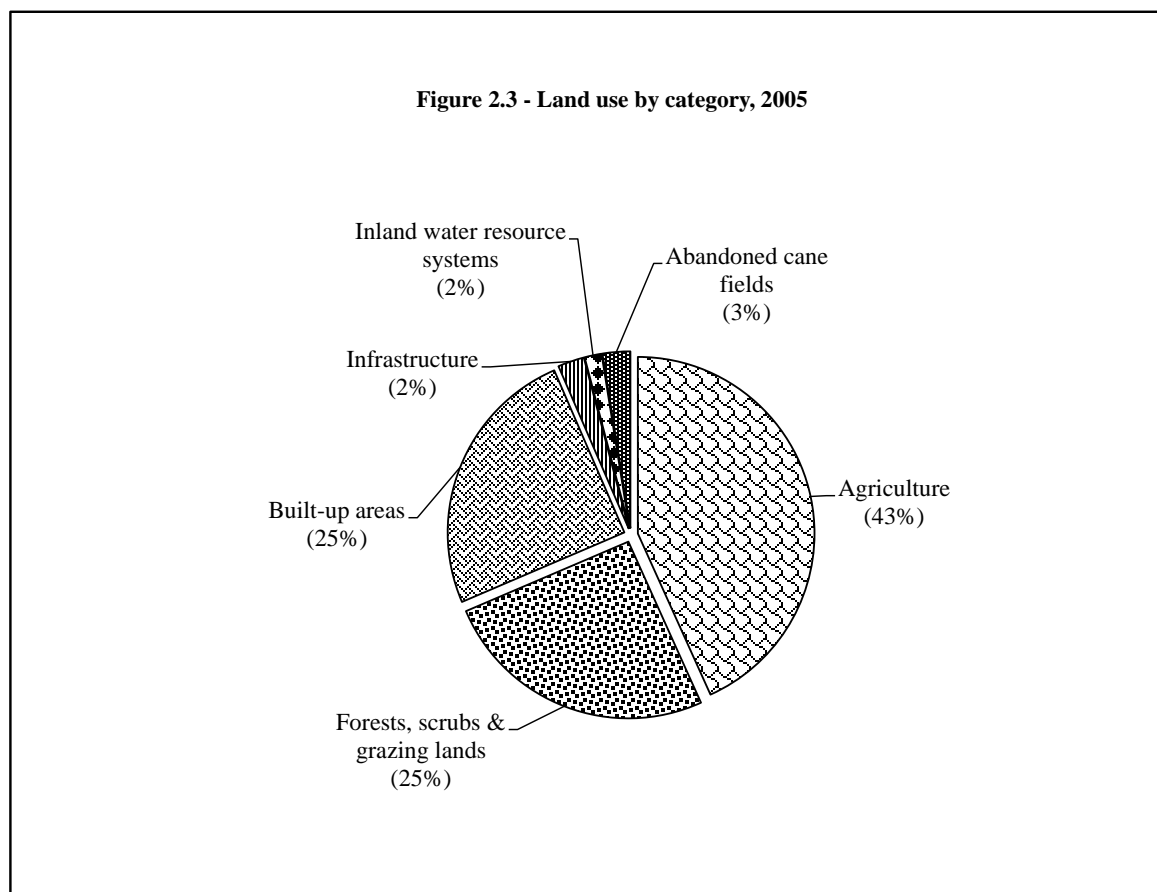


Table 2.12 - Land under irrigation, 2009 - 2018

Hectares

Year	Overhead	Surface	Drip	Total
2009	18,818	875	1,850	<b>21,543</b>
2010	17,023	714	2,110	<b>19,847</b>
2011	16,864	889	2,133	<b>19,886</b>
2012	16,611	1,141	1,707	<b>19,459</b>
2013	16,619	867	1,684	<b>19,170</b>
2014	14,884	569	1,730	<b>17,183</b>
2015	14,330	336	1,934	<b>16,600</b>
2016	14,755	317	1,735	<b>16,807</b>
2017	14,495	292	1,668	<b>16,455</b>
2018	15,270	275	1,813	<b>17,358</b>
<b>(By region) 2018</b>	15,269	274	1,814	<b>17,357</b>
North	4,954	40	1,106	<b>6,100</b>
East	2,420	0	206	<b>2,626</b>
Centre	298	0	0	<b>298</b>
West	3,549	234	261	<b>4,044</b>
South	4,048	0	241	<b>4,289</b>

Note : The districts covered by region are as follows: North - Pamplemousses and Riviere du Rempart; East - Flacq and Moka (Part); Centre - Plaine Wilhems and Moka (Part); West - Black River and South - Grand Port and Savanne

**Table 2.13: Deforestation rate of forestland, 2009 - 2018**

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Forestland (ha)	47,159	47,159	47,140	47,143	47,108	47,103	47,069	47,066	47,066	47,048
Area deforested (ha)	0	0	-19	3	-35	-5	-34	-3	0	-18
Annual deforestation rate (%)	Napp	Napp	-0.04	0.01	-0.07	-0.01	-0.07	-0.01	Napp	-0.04

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

**Table 2.14 - Local production of logs, poles and fuelwood, 2009 - 2018**

Year	cubic metre (roundwood)									
	2009	2010	2011	2012	2013	2014	2015	2016	2017 <sup>1</sup>	2018
<b>Local Production</b>	<b>10,531</b>	<b>14,328</b>	<b>10,960</b>	<b>8,232</b>	<b>5,317</b>	<b>4,847</b>	<b>3,451</b>	<b>6,511</b>	<b>5,652</b>	<b>5,293</b>
Timber	3,807	3,696	3,207	2,354	948	976	598	1,155	1,071	998
<i>State Lands</i>	3,762	3,231	3,077	2,164	853	786	537	974	863	837
<i>Private Lands</i>	45	465	130	190	95	190	61	181	208	161
Poles	1,242	1,220	1,281	801	484	260	168	178	202	183
<i>State Lands</i>	1,102	787	1,098	489	321	100	77	68	76	9
<i>Private Lands</i>	140	433	183	312	163	160	91	110	126	174
Fuelwood	5,482	9,412	6,472	5,077	3,885	3,611	2,685	5,178	4,379	4,112
<i>State Lands</i>	5,202	8,217	5,965	4,658	3,520	3,111	2,512	4,741	4,116	3,821
<i>Private Lands</i>	280	1,195	507	419	365	500	173	437	263	291

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

<sup>1</sup> Revised

<sup>2</sup> Estimates

**Table 2.15 - Forest area by primary designated function<sup>1</sup>, Republic of Mauritius, 1990 - 2015**

Forest Resources Assessment (FRA) categories	Forest area (hectares)				
	1990	2000	2005	2010	2015
Production	12,321	12,579	11,464	11,518	11,000
Protection of soil and water	17,251	17,610	16,050	16,125	16,543
Conservation of biodiversity	8,625	8,805	6,688	6,719	6,893
Social services	2,875	2,935	2,675	2,687	2,757
Multiple use	NA	NA	1,338	1,344	1,378
<b>Total</b>	<b>41,072</b>	<b>41,929</b>	<b>38,215</b>	<b>38,393</b>	<b>38,571</b>

Source: Food and Agricultural Organisation, Global Forest Resources Assessment 2015

<sup>1</sup> The primary function or management objective assigned to a management unit either by legal prescription, documented decision of the landowner/manager, or evidence provided by documented studies of forest management practices and customary use

Note:

Production : Forests primarily used for wood production, mainly exotic species.

Protection of soil and water: Forests performing the function of the protection of soil and water in water catchment areas, mountains and river reserves

Conservation of biodiversity: Consists of areas where conservation programmes are carried out e.g., Nature Reserves and Conservation Management Areas

Social services: These are areas used for recreational purposes and eco-tourism.

**Table 2.16 - Imports and value (c.i.f) of forest products, 2009 - 2018**

SITC	Category	Unit	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
245	Fuel wood (excluding wood waste) and wood charcoal	Kg	77,786	94,048	145,319	190,313	91,233	134,369	132,895	191,551	967,958	602,974
		Rs	1,882,796	3,261,796	3,042,168	4,209,849	1,831,402	2,664,482	3,176,937	3,722,574	15,127,406	9,469,380
246	Wood in chips or particles and wood waste	Kg	681	8,509	48,870	32,730	7,050	25,603	6,721	8,191	41,505	236,510
		Rs	70,848	534,163	655,039	1,014,203	546,770	593,223	390,069	757,728	989,425	4,674,017
247	Wood in the rough, whether or not stripped of bark or sapwood or roughly squared	m <sup>3</sup>	8,546	26,209	17,346	35,295	58,791	184,778	147,051	364,366	477,183	407,976
		Rs	101,109,196	130,695,638	157,478,772	146,988,925	127,478,339	155,900,555	92,852,991	138,013,543	136,985,057	176,228,352
248	Wood simply worked and railway sleepers of wood	Kg	275,481	499,150	286,709	699,383	1,035,993	725,921	545,704	647,558	1,141,702	470,901
		Rs	17,967,562	21,745,842	18,816,528	36,963,586	54,870,722	42,389,983	34,810,713	33,118,214	55,165,626	26,255,211
248	Wood simply worked and railway sleepers of wood	m <sup>3</sup>	97,599	647,018	62,649	846,100	111,893	378,893	169,404	382,683	327,653	129,515
		Rs	626,934,373	651,707,086	546,306,861	522,424,792	474,963,290	505,230,260	513,310,935	551,746,047	628,223,191	697,405,176

SITC - Standard International Trade Classification - Rev. 4 (United Nations)

c.i.f - Cost, insurance and freight

**Table 2.17 - Domestic exports and value (f.o.b) of forest products, 2009 - 2018**

SITC	Category	Unit	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
245	Fuel wood (excluding wood waste) and wood charcoal	Kg	0	0	1,200	0	4,040	0	0	0	0	208
		Rs	0	0	19,134	0	426,398	0	0	0	0	23,283
246	Wood in chips or particles and wood waste	Kg	0	0	0	0	0	290	0	0	0	0
		Rs	0	0	0	0	0	13,720	0	0	0	0
247	Wood in the rough, whether or not stripped of bark or sapwood or roughly squared	m <sup>3</sup>	0	3	30	0	16	48	9	0	0	0
		Rs	0	5,663	50,000	0	295,992	228,716	41,280	0	0	0
248	Wood simply worked and railway sleepers of wood	Kg	0	51	546	6	0	429	7,349	0	103	406
		Rs	0	6,763	342,307	19,574	0	25,000	1,077,863	0	3,358	38,188
		m <sup>3</sup>	175	360	0	1,050	8	108	150	184	0	450
		Rs	94,280	158,451	0	61,465	33,774	25,000	27,201	41,595	0	150,000

SITC - Standard International Trade Classification - Rev. 4 (United Nations)

f.o.b : (freight on board)

**Table 2.18 - Fish production by type of fishery (in fresh - weight equivalent), 2009 - 2018**

											Tonnes
Type of fishery	Type	2009	2010	2011	2012	2013	2014	2015	2016	2017 <sup>1</sup>	2018 <sup>2</sup>
Artisanal fishery (Island of Mauritius)	Fresh	820	831	892	705	559	459	609	614	568	843
Sports fishery <sup>3</sup>	Fresh	650	650	650	650	650	650	650	650	650	650
Amateur fishery <sup>3</sup>	Fresh	300	300	300	300	300	300	300	300	300	300
Barachois <sup>3</sup>	Fresh	2	2	2	2	2	2	2	2	2	2
Ponds (prawn and fish) <sup>4</sup>	Fresh	103	65	74	75	78	71	2	3	3	3
Marine aquaculture (cage)	Fresh	330	498	458	432	314	701	767	1,012	1,244	1,698
Fish Aggregating Device (FAD) Fishery	Fresh	319	330	258	234	240	240	240	286	268	257
<u>Offshore demersal fishery</u>											
Shallow water banks	Frozen	2,679	1,773	1,766	1,537	1,847	1,528	1,035	1,135	1,216	910
Banks deep water snappers <sup>5</sup>	Chilled & frozen	627	452	300	355	377	409	338	319	440	361
St Brandon inshore	Frozen, chilled, dried & salted	437	420	318	218	273	252	222	243	240	243
Semi - industrial chilled fish	Chilled & frozen	126	250	180	234	206	199	210	173	223	401
Industrial tuna longliner <sup>6</sup>	Frozen	246	306	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp
Semi industrial tuna longliner	Chilled	NA	32	89	36	68	43	103	458	891	790
Purse seiners <sup>7</sup>	Frozen	Napp	Napp	Napp	Napp	855	8,676	9,761	11,776	17,687	22,750
<b>Total</b>		<b>6,639</b>	<b>5,909</b>	<b>5,287</b>	<b>4,778</b>	<b>5,769</b>	<b>13,530</b>	<b>14,239</b>	<b>16,971</b>	<b>23,732</b>	<b>29,208</b>

Source : Albion Fisheries Research Centre, Ministry of Blue Economy, Marine Resources, Fisheries and Shipping

<sup>1</sup> Revised    <sup>2</sup> Provisional    <sup>3</sup> Estimates    <sup>4</sup> Three large scaled farms have stopped production in 2015    <sup>5</sup> Includes deepwater shrimp fishery catch as from 2010

<sup>6</sup> As from 2011, Mauritius flagged industrial longliners ceased operation    <sup>7</sup> As from 2013, Mauritius flagged purse seiners started operation



**Table 2.19 - Annual fish catch of the coastal (artisanal) fishery by gear - type, 2009 - 2018**

Gear-type	Tonnes									
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Basket trap	257.8	266.5	302.8	274.6	208.1	172.1	193.5	209.6	193.8	302.6
Line	227.2	226.7	185.3	180.1	150.4	164.1	233.1	196.3	181.5	264.3
Basket trap and Line	18.3	27.9	24.9	20.4	33.6	38.5	35.6	54.3	50.2	52.2
Large net	222.9	213.5	281.0	171.0	117.2	52.8	104.8	105.3	97.4	157.6
Gill net	11.3	7.6	23.9	6.5	7.2	3.8	5.4	5.5	5.1	8.2
Cast net/Harpoon/on foot	82.8	89.1	74.3	52.0	42.8	28.1	36.5	43.2	40.0	58.0
<b>Total</b>	<b>820.3</b>	<b>831.3</b>	<b>892.2</b>	<b>704.6</b>	<b>559.3</b>	<b>459.4</b>	<b>608.9</b>	<b>614.2</b>	<b>568.0</b>	<b>842.9</b>

Source : Albion Fisheries Research Centre, Ministry of Ocean Economy, Marine Resources, Fisheries, Shipping and Outer Islands.

**Table 2.20 - Annual catch by banks, 2009 - 2018**

Year	Tonnes <sup>1</sup>								
	Saya de Malha	Nazareth	St. Brandon <sup>2</sup>	Soudan	NW Bank	Hawkins	Chagos	Albatross	Total catch
2009	1,835	237	390	0	0	0	161	0	<b>2,623</b>
2010	737	741	366	0	0	0	0	0	<b>1,844</b>
2011	885	868	255	1	7	1	0	167	<b>2,184</b>
2012	1,062	545	179	5	7	0	0	223	<b>2,021</b>
2013	989	1,008	227	8	7	0	0	81	<b>2,320</b>
2014	825	905	242	10	4	0	0	95	<b>2,081</b>
2015	699	561	214	3	0	0	0	111	<b>1,588</b>
2016	453	831	238	10	0	0	0	107	<b>1,639</b>
2017	914	640	233	6	0	0	0	86	<b>1,879</b>
2018 <sup>3</sup>	381	927	271	23	0	1	0	261	<b>1,864</b>

Source : Albion Fisheries Research Centre, Ministry of Blue Economy, Marine Resources, Fisheries and Shipping

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

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

<sup>3</sup> Provisional

**Table 2.21 - Aquaculture production by species, 2014 - 2018**

Fish species	Unit	2014	2015	2016	2017	2018
Berri Rouge ( Freshwater)	Tonnes	70.0	2.3 <sup>1</sup>	3.3	3.0	3.0
Freshwater prawn	Tonnes	0.5	0.1	0.024 <sup>2</sup>	0.3	0.4
Marine fish (Barachois) <sup>2</sup>	Tonnes	1.0	1.0	1.0	1.0	1.0
Mangrove crabs (Barachois) <sup>2</sup>	Tonnes	1.0	1.0	1.0	1.0	1.0
Floating cage fish (Red drum/seabream etc.)	Tonnes	701.0	767.0	1,012	1,244	1,698
Oyster <sup>3</sup>	Unit	85,000	85,000	85,000	200,000	600,000

Source : Albion Fisheries Research Centre, Ministry of Blue Economy, Marine Resources, Fisheries and Shipping

<sup>1</sup> Three large scaled farms have stopped production in 2015 for berri rouge.

<sup>2</sup> Revised

<sup>3</sup> Estimates

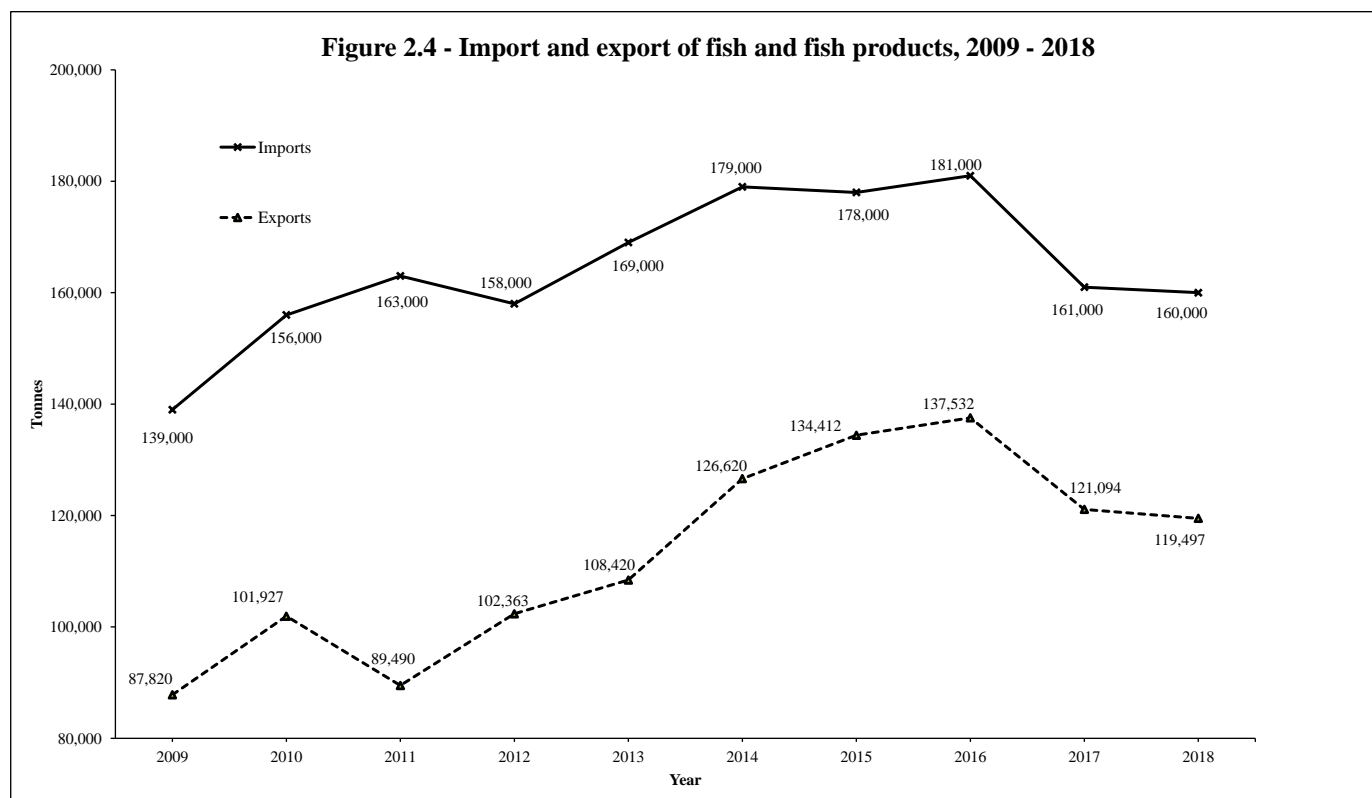
**Table 2.22 - Import, export and trade balance of fish and fish products, 2009 - 2018**

Year	2009	2010	2011	2012	2013	2014	2015	2016	2017 <sup>1</sup>	2018 <sup>2</sup>
<b>Imports</b>										
Quantity (tonnes)	139,000	156,000	163,000	158,000	169,000	179,000	178,000	181,000	161,000	160,000
Value (Rupees million)	7,055	7,869	9,280	10,968	11,880	10,353	9,913	11,132	12,548	10,601
<b>Exports</b>										
Quantity (tonnes)	87,820	101,927	89,490	102,363	108,420	126,620	134,412	137,532	121,094	119,497
Value (Rupees million)	9,017	10,182	9,481	12,735	14,599	13,934	13,475	14,077	14,265	14,917
<b>Trade Balance ( Rupees million )</b>	1,962	2,313	201	1,767	2,719	3,581	3,562	2,945	1,717	4,316

Source : Albion Fisheries Research Centre, Ministry of Blue Economy, Marine Resources, Fisheries and Shipping

<sup>1</sup> Revised

<sup>2</sup> Provisional



**Table 2.23 - Agricultural crops - Area harvested and production, 2009 - 2018**

Year	Sugarcane		Sugar	Tobacco		Foodcrops		Tea	
	Area harvested (hectares)	Production (tonnes)	Production (Tonnes)	Area harvested (hectares)	Production (tonnes)	Area harvested (hectares)	Production (tonnes)	Area under cultivation (hectares)	Production (tonnes)
2009	60,380	4,667,235	467,234	255	345	7,083	113,943	713	7,663
2010	58,709	4,365,833	452,473	210	282	7,570	114,844	698	7,370
2011	56,668	4,230,174	435,310	222	345	7,484	115,934	651	8,975
2012	54,140	3,947,285	409,200	173	245	8,124	121,106	669	7,947
2013	53,464	3,815,782	404,713	2	1	8,189	118,121	672	7,981
2014	50,694	4,044,422	400,173	-	-	8,459	113,957	672	7,607
2015	52,387	4,009,232	366,070	-	-	8,077	102,663	574	6,732
2016	51,476	3,798,448	386,277	-	-	7,766	106,271	622	7,301
2017 <sup>1</sup>	49,974	3,713,331	355,213	-	-	7,780	106,621	622	7,309
2018 <sup>2</sup>	47,678	3,154,516	323,406	-	-	7,646	96,847	656	8,056

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

- : No production

**Table 2.24- Area harvested and production of main annual and perennial crops - Island of Mauritius, 2014 - 2018**

(Area in hectares; Production in tonnes)

Crops	2014		2015		2016		2017		2018	
	Area	Production	Area	Production	Area	Production	Area	Production	Area	Production
<b>Perennial crop</b>										
Beans	301	1,430	264	1,232	260	1,435	299	1,792	259	1,442
Beet	46	638	40	556	39	615	41	589	39	497
Bittergourd	217	1,434	206	1,387	223	1,690	234	2,007	211	1,826
Brinjal	288	3,549	270	2,504	288	2,738	273	3,099	255	2,495
Broccoli	23	287	12	179	20	337	23	394	10	105
Cabbage	229	4,279	240	3,870	253	4,659	256	4,779	235	3,642
Calabash	397	5,957	394	5,153	388	5,105	392	5,353	385	4,628
Carrot	319	4,430	309	4,184	298	5,135	317	4,625	357	4,863
Cauliflower	115	2,105	106	1,921	105	1,963	103	1,723	90	1,382
Chillies (long+curry)	257	1,514	246	1,415	236	1,549	251	1,916	237	1,315
Chillies (small)	49	156	27	76	28	84	30	115	27	74
Chouchou	317	3,784	506	4,590	192	2,383	256	3,181	239	3,675
Cucumber	494	6,652	439	5,251	390	4,587	395	5,197	409	4,165
Echalotte	146	1,460	148	1,162	131	1,161	158	1,498	135	1,071
Eddoes (violet)	27	340	34	436	58	820	27	333	36	334
Eddoes (curry)	34	390	28	330	28	331	29	294	38	294
Garlic	27	163	13	85	18	120	14	96	10	71
Ginger	34	535	52	553	52	726	48	562	40	368
Gourgette	43	395	39	258	27	186	36	280	27	197
Green peas	1	6	5	15	1	2	1	2	1	1
Groundnut	240	618	99	189	56	149	91	269	87	214
Leek	19	188	18	134	17	173	16	133	9	71
Ladies finger	217	1,381	221	1,396	213	1,490	209	1,711	185	995
Lettuce	135	1,398	114	919	133	1,664	149	1,717	112	1,077
Maize	69	625	71	451	61	415	59	442	64	387
Manioc	31	466	53	894	45	574	35	465	56	681

Source: FAREI and Statistics Mauritius

**Table 2.24 (cont'd) - Area harvested and production of main annual and perennial crops - Island of Mauritius, 2014 - 2018**

(Area in hectares; Production in tonnes)

Crops	2014		2015		2016		2017		2018	
	Area	Production	Area	Production	Area	Production	Area	Production	Area	Production
<b><u>Perennial crop</u></b>										
Onion	282	5,912	283	6,898	278	6,388	247	5,134	275	3,440
<i>of which hybrid</i>	158	3,808	254	6,398	180	4,797	165	4,095	200	2,511
Patole	119	951	125	865	126	916	124	946	140	846
Petsai	52	716	45	500	45	638	53	813	41	482
Pipengaille	151	1,451	179	1,855	184	2,183	186	2,290	181	1,785
Potato	821	19,404	707	16,427	765	16,326	710	14,124	719	17,033
Pumpkin	477	6,980	423	5,713	526	7,002	535	7,948	543	6,805
Rice (paddy)	412	1,186	340	657	161	352	56	160	13	19
Squash	79	659	92	702	76	554	60	499	60	447
Sweet pepper	1	4	0	0	0	0	1	7	1	6
Sweet potato	59	780	52	686	41	471	41	458	54	583
Tomato	857	10,997	740	8,525	730	10,136	722	10,651	683	9,190
<i>of which hybrid</i>	822	10,629	682	8,054	719	10,048	720	10,615	682	9,186
Voehm	159	1,114	145	1,038	134	1,019	149	1,213	145	880
Pineapple	450	10,788	523	11,693	417	9,707	401	8,760	502	10,043
<b><u>Annual crop</u></b>										
Sugarcane	50,694	4,044,422	52,387	4,009,232	51,476	3,798,448	49,974	3,713,331	47,678	3,154,516
Tea (area under cultivation)	672	7,607	574	6,732	622	7,301	622	7,309	656	8,056
Banana	464	8,833	470	7,965	459	7,731	507	8,644	492	7,333

Source: FAREI and Statistics Mauritius

<sup>1</sup> Revised

<sup>2</sup> Provisional

**Table 2.25 - Imports of crops, Republic of Mauritius, 2009 - 2018**

	Tonnes									
Commodity	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<b>Cereals and products</b>										
Wheat	166,018	163,540	107,263	166,558	163,422	143,049	167,553	130,353	197,301	128,152
Wheaten flour	22	26	23,508	1,981	4,334	2,728	678	512	272	390
Rice Ration	23,300	17,175	18,965	17,509	20,343	19,374	20,067	20,873	18,409	24,823
Rice Luxurious	54,033	63,455	39,209	38,284	39,894	37,719	39,548	35,600	36,236	35,869
Maize	81,538	94,617	92,777	93,367	99,741	90,225	109,758	95,153	109,485	113,029
Oats	201	261	191	94	180	53	108	123	117	156
Malt	5,567	5,994	5,842	5,175	5,026	5,188	5,131	5,801	5,661	6,528
Other cereals (unmilled)	149	148	93	172	199	26	238	176	342	251
Other cereals	606	579	801	1,384	1,585	1,594	1,588	1,770	1,204	1,429
Cereals preparations	15,864	16,098	16,854	18,643	18,092	19,133	18,390	20,173	21,392	22,073
<b>Roots, tubers and products</b>										
Potatoes	8,808	7,690	8,272	8,824	6,676	7,462	11,236	12,224	9,176	11,410
Tapioca & Sago	339	517	454	405	427	340	475	358	464	375
<b>Sugar and syrups</b>										
Cane sugar	33,299	26,945	17,689	18,601	29,857	67,236	92,500	107,020	111,415	22,598
Other sugars	572	834	685	596	331	548	292	371	332	288
Sugar preparations	1,815	2,061	1,902	2,318	2,319	2,146	2,210	2,224	2,051	2,259
Honey	90	121	113	233	217	202	265	283	356	431
<b>Pulses</b>										
Beans, dry	1,293	1,089	1,306	1,279	1,111	1,347	1,368	1,194	1,187	997
Broad beans, dry	1,094	2,588	1,576	1,704	2,297	1,494	2,018	1,185	2,261	1,024
Lentils	3,529	3,048	3,067	2,910	3,427	3,563	2,964	3,339	3,398	3,027
Peas, dry	4,162	4,745	4,052	4,485	4,647	4,396	4,126	4,909	4,811	4,499
Other pulses	1,920	2,019	2,200	1,977	2,112	2,046	1,969	2,084	1,859	2,015

**Table 2.25 (cont'd) - Imports of crops, Republic of Mauritius, 2009 - 2018**

	Tonnes									
<b>Commodity</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
<b>Tree nuts</b>										
Tree nuts	254	269	312	255	292	337	259	334	369	315
<b>Oilcrops</b>										
Coconuts	1,636	1,307	1,284	1,533	1,477	1,421	1,380	1,376	1,461	1,303
Groundnuts (in shells or not)	1,137	1,573	1,637	1,346	1,659	1,192	1,245	1,415	1,371	1,531
Other oilcrops	544	473	491	876	653	700	710	988	601	778
<b>Vegetables and products</b>										
<i>Fresh:</i>										
Cabbage	28	12	17	18	16	20	69	70	44	57
Carrots	185	31	8	12	231	74	316	184	49	276
Cauliflower	36	34	37	38	48	48	63	83	90	115
Cucumbers	3	1	6	5	0	1	4	1	3	1
Lettuce	119	109	87	101	168	119	0	155	0	0
Onions, dry	12,840	11,345	11,573	9,505	8,660	10,915	10,836	11,717	12,281	14,528
Tomatoes	0	5	16	30	56	44	0	0	0	0
Other fresh vegetables	220	192	233	311	215	280	444	386	388	560
<i>Prepared/preserved vegetables</i>										
Asparagus	4	29	30	27	23	18	28	26	39	19
Mushroom	974	1,186	1,239	1,048	1,287	1,191	1,286	1,317	1,356	1,302
Potatoes	2,163	2,686	3,087	3,467	3,386	4,074	4,129	4,273	5,136	5,065
Sweet corn	1,268	1,095	1,450	1,381	1,346	1,345	1,156	1,485	1,501	1,414
Tomatoes	4,362	6,211	3,983	5,443	6,125	7,714	9,500	7,864	8,452	10,611
Other vegetables preparations	3,658	4,027	4,257	5,351	5,695	6,444	7,027	7,716	7,932	8,583
Frozen vegetables	1,031	998	1,114	1,067	1,304	1,330	1,734	1,811	1,857	2,391

**Table 2.25 (cont'd) - Imports of crops, Republic of Mauritius, 2009 - 2018**

	Tonnes									
<b>Commodity</b>	<b>2009</b>	<b>2010</b>	<b>2011</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>
<b>Fruits and products</b>										
<i>Fresh:</i>										
Oranges	4,452	4,102	4,220	4,970	5,013	4,764	4,821	5,128	5,379	4,939
Lemons	679	656	705	772	817	1,010	1,270	1,342	1,382	1,573
Mandarins	1,478	2,150	1,716	1,965	2,223	2,831	2,176	2,096	1,961	2,856
Other citrus fruits	782	783	812	828	902	1,020	815	863	830	928
Apples	6,138	4,950	5,368	5,253	6,020	5,322	6,053	5,877	5,823	5,239
Grapes	1,625	1,671	1,526	1,818	1,835	1,835	1,895	2,126	2,056	1,894
Pineapples	0	0	1	3	1	2	2	2	1	1
Other fresh fruits	3,454	3,637	3,518	4,004	3,862	4,387	4,413	5,029	5,353	5,616
<i>Other:</i>										
Raisins	241	261	186	244	228	275	243	263	303	288
Other dried fruits	644	950	760	1,098	1,020	1,035	1,135	1,231	1,081	1,288
Preserved fruits	2,664	2,350	2,347	2,433	2,176	2,481	2,526	2,729	2,584	2,026
Fruit & vegetable juices	6,347	6,300	6,424	7,760	81,574	32,775	11,109	10,863	6,472	6,668
<b>Stimulants</b>										
Tea	28	41	48	47	78	69	145	270	394	483
Coffee	643	499	572	581	645	671	730	995	1,064	1,230
Cocoa beans, cocoa preparations and chocolate	1,980	1,886	2,010	2,145	2,358	2,486	2,468	2,851	2,808	3,265
<b>Spices</b>										
Chillies	295	252	187	158	155	229	282	300	313	294
Garlic	1,649	1,792	1,571	1,624	1,570	1,683	1,624	1,834	1,693	1,813
Ginger	9	3	23	9	14	13	21	16	15	24
Pimento (dried chillies)	481	469	364	399	423	376	357	515	435	533
Other spices	1,319	1,382	1,562	1,626	1,398	1,672	1,768	1,858	1,715	1,562



Table 2.26- Exports of crops, Republic of Mauritius, 2009 - 2018

	Tonnes									
Commodity	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<b>CEREALS AND PRODUCTS</b>										
Wheat	0	0	0	2	0	0	0	0	0	0
Wheaten flour	22,811	25,900	15,542	19,370	18,988	16,918	21,244	15,016	14,892	11,611
Ration	0	0	0	0	69	3	21	35	6	0
Luxurious	1,540	788	1,025	93	693	1,165	38	702	56	13
Maize	58	3	684	560	1,287	0	0	9	0	238
Oats	1	0	0	0	0	0	0	0	0	0
Malt	0	1	55	0	0	0	0	0	0	0
Other cereals (unmilled)	0	0	0	0	0	0	0	0	0	0
Other cereals	5	770	22	5	5	12	13	6	18	11
Cereals preparations	6,336	8,051	9,934	11,012	12,724	12,724	10,385	11,612	10,619	12,712
<b>ROOTS, TUBERS AND PRODUCTS</b>										
Potatoes	0	0	0	106	16	0	0	0	0	0
Tapioca & Sago	10	0	0	0	0	0	0	0	2	1
<b>SUGARS AND SYRUPS</b>										
Cane sugar	343,541	435,105	410,877	357,724	420,909	421,717	438,292	444,815	439,854	278,915
Other sugars	25	50	66	62	11	15	0	26	24	10
Sugar preparations	179	745	749	718	786	786	325	314	226	143
Honey	1	3	3	1	2	2	3	5	4	2
<b>PULSES</b>										
Beans, dry	25	31	75	82	135	74	104	28	60	53
Broad beans, dry	74	443	628	253	675	259	249	50	102	106
Lentils	9	4	6	2	170	145	69	283	81	73
Peas, dry	3	2	3	3	2	9	0	3	1	1
Other pulses	3	0	5	1	1	5	1	1	2	2

Table 2.26 (cont'd) - Exports of crops, Republic of Mauritius, 2009 - 2018

Tonnes										
Commodity	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<b>TREE NUTS</b>										
Tree nuts	6	6	2	1	1	2	0	1	1	1
<b>OILCROPS</b>										
Coconuts	4	2	0	4	1	0	0	2	1	1
Groundnuts (in shells or not)	2	40	47	0	0	22	3	2	1	135
Other oilcrops	2	1	93	5	12	0	2	3	2	1
<b>VEGETABLES AND PRODUCTS</b>										
<i>Fresh:</i>										
Cabbage	0	18	0	0	0	0	0	1	0	0
Cauliflower	0	1	0	0	0	0	0	1	1	0
Cucumbers	6	8	10	4	3	0	0	2	0	0
Onions, dry	38	14	0	2	4	28	0	0	0	0
Other fresh vegetables	35	42	62	73	53	55	36	50	39	36
<i>Prepared/preserved vegetables</i>										
Mushroom	3	26	8	35	37	34	56	33	16	1
Potatoes	13	10	13	33	15	19	15	14	16	21
Sweet corn	1	12	32	83	93	55	100	9	47	1
Tomatoes	13	46	108	167	114	136	113	129	47	7
Other vegetables preparations	87	118	126	269	197	359	289	393	243	93
Frozen vegetables	15	0	29	33	21	1	3	12	28	21
<b>FRUITS AND PRODUCTS</b>										
<i>Fresh:</i>										
Oranges	42	10	21	2	2	0	0	0	0	0
Lemons	2	4	0	2	2	0	0	0	0	1
Mandarins	0	0	4	14	14	0	0	0	0	0

Table 2.26 (cont'd) - Exports of crops, Republic of Mauritius, 2009 - 2018

Tonnes

Commodity	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Other citrus fruits	0	3	14	4	4	0	0	0	0	1
Apples	21	9	0	0	0	0	0	0	0	0
Grapes	7	0	0	6	6	0	0	0	0	0
Pineapples	721	1,122	1,440	1,638	1,708	1,816	0	1,834	2	1,736
Other fresh fruits	310	419	360	542	482	385	324	473	215	451
<i>Other:</i>										
Raisins	2	0	1	5	1	8	12	11	4	2
Other dried fruits	42	14	7	3	2	4	1	3	2	6
Preserved fruits	57	58	56	55	94	68	96	102	49	18
Fruit & vegetable juices	77	33	288	399	131	102	149	159	34	35
<b>STIMULANTS</b>										
Tea	40	38	35	38	69	53	42	42	47	33
Coffee	12	17	14	34	10	17	13	11	16	16
Cocoa beans, cocoa preparations and chocolate	17	25	48	28	14	188	39	61	11	4
<b>SPICES</b>										
Chillies	0	24	21	17	10	7	2	5	3	0
Garlic	21	10	1	1	0	0	0	0	0	0
Ginger	0	0	9	17	12	0	0	1	0	0
Pimento (dried chillies)	85	76	27	83	45	76	78	43	25	44
Other spices	43	116	56	276	50	100	251	205	136	13

Table 2.27 - Imports and value (c.i.f) of fertilisers and pesticides, 2009 - 2018

	2009	2010	2011	2012	2013	2014	2015	2016	2017 <sup>1</sup>	2018 <sup>2</sup>
<b>Fertilizers</b>										
Quantity (tonnes)	57,169	46,282	54,356	52,739	45,924	53,276	32,861	47,766	44,028	33,750
Value c.i.f (Rs mn)	832	586	816	835	596	682	451	545	487	418
<b>Pesticides</b>										
Quantity (tonnes)	2,290	2,337	2,223	2,029	2,185	2,201	2,567	2,554	2,427	2,587
Value c.i.f (Rs mn)	389	390	375	363	370	407	482	483	465	505

c.i.f: Cost, Insurance, Freight

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

**Table 2.28 - Number of small breeders and livestock population by geographical district as at December 2018**

District	Cattle		Goat		Sheep		Pig	
	No. of farmers	No. of heads	No. of farmers	No. of heads	No. of farmers	No. of heads	No. of farmers	No. of heads
Pamplemousses	65	323	348	3,612	45	415	36	1,106
Riviere du Rempart	153	950	458	4,993	41	561	29	482
Flacq (LN3)	42	175	312	2,952	14	158	26	1,334
Flacq (LN4)	65	217	381	3,443	21	202	28	988
Plaines Wilhems	59	495	49	681	11	151	13	407
Moka	38	298	44	440	6	52	7	235
Grand Port	57	295	245	2,763	15	216	28	696
Savanne	46	442	212	2,824	47	631	14	318
Black River	33	226	193	2,709	25	313	227	12,910
Port Louis	17	87	88	1,123	18	306	48	1,186
<b>Total</b>	<b>575</b>	<b>3,508</b>	<b>2,330</b>	<b>25,540</b>	<b>243</b>	<b>3,005</b>	<b>456</b>	<b>19,662</b>

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

**Table 2.29 - Livestock herd and poultry status by geographical district as at December 2018**

District	Cattle						Pig						
	No. of farmers	Cows	Calves	Heifers	Bulls	Total no. of heads	No. of farmers	Boars	Sows	Piglets	Fatteners	Gilts	Total no. of heads
Pamplemousses	65	128	20	115	60	323	36	34	230	477	309	56	1,106
Riviere du Rempart	153	325	71	260	294	950	29	21	73	197	162	29	482
Flacq (LN3)	42	70	15	56	34	175	26	14	61	123	1,113	23	1,334
Flacq (LN4)	65	89	13	69	46	217	28	27	153	267	502	39	988
Plaines Wilhems	59	179	17	163	136	495	13	12	73	122	185	15	407
Moka	38	143	39	69	47	298	7	10	30	50	134	11	235
Grand Port	57	92	5	91	107	295	28	25	152	194	297	28	696
Savanne	46	153	78	99	112	442	14	13	49	108	91	57	318
Black River	33	72	7	51	96	226	227	233	1,662	3,717	6,740	558	12,910
Port Louis	17	22	5	26	34	87	48	39	188	362	553	44	1,186
<b>Total</b>	<b>575</b>	<b>1,273</b>	<b>270</b>	<b>999</b>	<b>966</b>	<b>3,508</b>	<b>456</b>	<b>428</b>	<b>2,671</b>	<b>5,617</b>	<b>10,086</b>	<b>860</b>	<b>19,662</b>

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

**Table 2.29 (cont'd) - Livestock herd and poultry status by geographical district as at December 2018**

District	Sheep					Goat					Poultry <sup>1</sup>			
	No. of farmers	Ewes	Ram	Followers	Total no. of heads	No. of farmers	Bucks	Does	Followers	Total no. of heads	No. of farmers	Broilers	No. of farmers	Layers
Pamplemousses	45	150	50	215	415	348	400	1,300	1,912	3,612	18	26,420	22	23,850
Riviere du Rempart	41	141	53	367	561	458	502	1,490	3,001	4,993	65	242,000	13	40,115
Flacq (LN3)	14	38	16	104	158	312	389	813	1,750	2,952	15	10,353	7	5,718
Flacq (LN4)	21	79	19	104	202	381	313	1,044	2,086	3,443	33	46,407	16	5,356
Plaines Wilhems	11	69	23	59	151	49	118	286	277	681	26	40,650	16	27,700
Moka	6	20	23	9	52	44	101	151	188	440	28	43,800	12	9,600
Grand Port	15	82	23	111	216	245	327	876	1,560	2,763	16	18,425	14	7,115
Savanne	47	211	57	363	631	212	301	932	1,591	2,824	34	67,545	15	19,425
Black River	25	136	18	159	313	193	230	921	1,558	2,709	23	40,450	34	19,211
Port Louis	18	146	24	136	306	88	100	411	612	1,123	7	1,000	3	19
<b>Total</b>	<b>243</b>	<b>1,072</b>	<b>306</b>	<b>1,627</b>	<b>3,005</b>	<b>2,330</b>	<b>2,781</b>	<b>8,224</b>	<b>14,535</b>	<b>25,540</b>	<b>265</b>	<b>537,050</b>	<b>152</b>	<b>158,109</b>

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

<sup>1</sup> Exclude industrial farm and farmers rearing more than 5,000 heads

**Table 2.30 - Livestock slaughtered <sup>1</sup>, 2014 - 2018**

Type of livestock	2014		2015		2016		2017		2018	
	No. of Heads	Carcass weight (tonnes)	No. of Heads	Carcass weight (tonnes)	No. of Heads	Carcass weight (tonnes)	No. of Heads	Carcass weight (tonnes)	No. of Heads	Carcass weight (tonnes)
<b>Cattle</b>	<b>7,634</b>	<b>1,955.7</b>	<b>7,887</b>	<b>2,012.6</b>	<b>7,125</b>	<b>1,955.9</b>	<b>7,151</b>	<b>2,078.0</b>	<b>7,443</b>	<b>2,052.5</b>
<i>Local</i>	246	44.3	175	63.7	194	36.3	67	12.3	114	22.6
<i>Rodrigues</i>	122	15.9	184	24.8	130	17.8	411	73.9	277	54.9
<i>Imported</i>	7,266	1,895.5	7,528	1,924.1	6,801	1,901.8	6,673	1,991.8	7,052	1,975.0
<b>Goat</b>	<b>4,033</b>	<b>37.1</b>	<b>3,855</b>	<b>35.6</b>	<b>3,289</b>	<b>31.8</b>	<b>2,434</b>	<b>31.8</b>	<b>2,328</b>	<b>35.8</b>
<i>Local and Rodrigues</i>	3,372	28.1	3,752	33.7	3,164	29.5	2,196	27.5	1,498	19.2
<i>Imported</i>	661	9.0	103	1.9	125	2.3	238	4.3	830	16.6
<b>Sheep</b>	<b>473</b>	<b>7.5</b>	<b>443</b>	<b>6.0</b>	<b>648</b>	<b>9.8</b>	<b>1,624</b>	<b>24.2</b>	<b>1,590</b>	<b>25.6</b>
<b>Pigs</b>	<b>8,516</b>	<b>556.5</b>	<b>8,564</b>	<b>560.0</b>	<b>9,632</b>	<b>631.6</b>	<b>9,332</b>	<b>605.9</b>	<b>8,424</b>	<b>542.8</b>

<sup>1</sup> Abattoir slaughtered only

**Table 2.31 - Imports of vaccines for veterinary medicines, 2015 - 2018**

SITC <sup>1</sup> code	Description	Quantity (kg)				Value (c.i.f) Rupees			
		2015	2016	2017	2018	2015	2016	2017	2018
5416330	Vaccines for veterinary medicines	9,567	10,464	9,237	9,473	31,055,980	28,774,159	29,509,302	36,295,798

<sup>1</sup> SITC - Standard International Trade Classification - Rev. 4 (United Nations)

**Table 2.32 - Imports of selected livestock, 2014 - 2018**

Livestock	Number					Value (c.i.f) Rupees				
	2014	2015	2016	2017	2018	2014	2015	2016	2017	2018
Cattle	10,008	11,576	10,677	10,216	12,149	404,863,005	490,218,132	446,493,598	456,023,113	621,915,480
Sheep	441	826	1,185	1,458	2,292	3,718,030	5,977,362	6,375,226	9,519,026	16,906,741
Goat	540	1,416	1,148	1,993	3,312	3,035,571	8,907,878	7,655,666	12,754,951	25,314,863
Guinea Fowls	351	322	561	187	586	221,799	165,983	293,763	99,600	288,662
Turkey	1,000	0	0	0	510	76,634	0	0	0	39,449
<b>Total</b>	<b>12,340</b>	<b>14,140</b>	<b>13,571</b>	<b>13,854</b>	<b>18,849</b>	<b>411,915,039</b>	<b>505,269,355</b>	<b>460,818,253</b>	<b>478,396,690</b>	<b>664,465,195</b>

c.i.f - Cost, insurance and freight

**Table 2.33 - Exports of selected live animals, 2014 - 2018**

Live animals	Number					Value (f.o.b) Rupees				
	2014	2015	2016	2017 <sup>1</sup>	2018 <sup>2</sup>	2014	2015	2016	2017 <sup>1</sup>	2018 <sup>2</sup>
Monkeys	8,992	7,754	8,251	8,819	6,939	719,654,558	661,403,701	702,025,435	735,314,918	668,606,762
Tortoise	430	536	848	1,155	486	8,714,174	4,234,099	11,717,848	11,998,555	17,529,115
Dogs	78	63	89	68	113	259,283	171,928	184,543	267,858	424,047
Cats	7	23	15	44	38	13,036	26,995	21,708	45,000	104,052
Horses	278	122	341	0	0	7,886,289	3,038,258	7,471,822	0	0
Birds	0	0	0	1	1	0	0	0	3,000	2,045
Lizards	0	0	0	0	0	0	0	0	0	0
Spider	0	0	0	0	0	0	0	0	0	0
Bat (fruit)	0	0	0	0	0	0	0	0	0	0
Rabbit	0	0	0	0	0	0	0	0	0	0
<b>Total</b>	<b>9,785</b>	<b>8,498</b>	<b>9,544</b>	<b>10,087</b>	<b>7,577</b>	<b>736,527,340</b>	<b>668,874,981</b>	<b>721,421,356</b>	<b>747,629,331</b>	<b>686,666,021</b>

f.o.b: Freight on board

<sup>1</sup> Revised

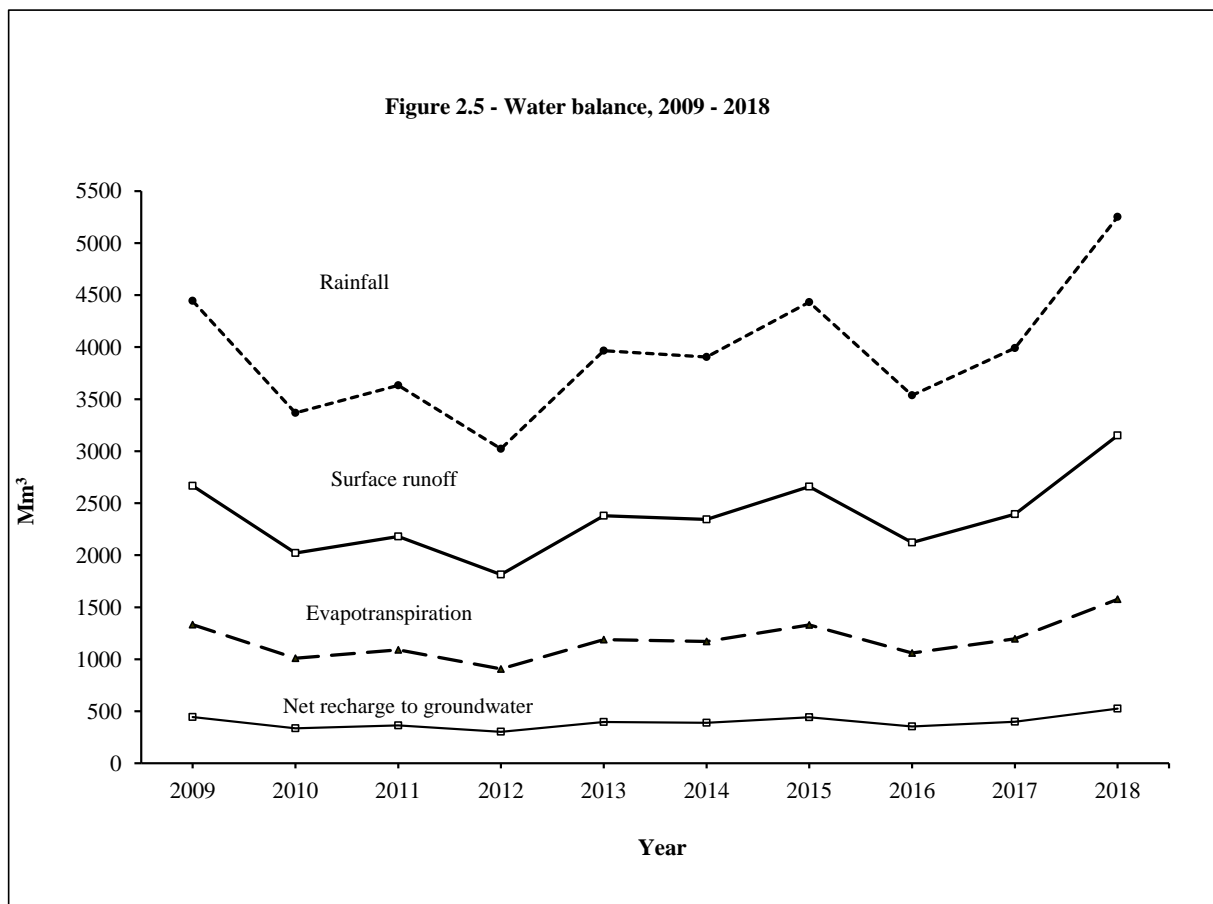
<sup>2</sup> Provisional



Table 2.34 - Water balance, 2009 - 2018

	Mm <sup>3</sup>									
Year	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<b>Rainfall (Precipitation)</b>	<b>4,444</b>	<b>3,368</b>	<b>3,633</b>	<b>3,023</b>	<b>3,965</b>	<b>3,905</b>	<b>4,433</b>	<b>3,536</b>	<b>3,991</b>	<b>5,252</b>
<i>Surface runoff</i>	2,667	2,021	2,180	1,814	2,379	2,343	2,660	2,122	2,395	3,151
<i>Evapotranspiration</i>	1,333	1,010	1,090	907	1,189	1,172	1,330	1,061	1,197	1,576
<i>Net recharge to groundwater</i>	444	337	363	302	397	390	443	353	399	525

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



**Table 2.35 - Average annual (2001 - 2010) volume of water measured at the flow measuring station on selected rivers**

<b>River</b>	<b>Location</b>	<b>Average Annual Flow <sup>1</sup> (Mm<sup>3</sup>)</b>
Riviere Rempart	La Nicoliere	6.4
Riviere Francoise	Constance	21.8
Riviere Seche	Bel Air	44.5
Riviere Rempart	Bois Clair Dam	27.7
Riviere Bateau	Belle Rive	7.9
Riviere Vacoas	Belle Rive	1.5
Riviere Gontran	Dubreuil	1.7
Total Grand River South East <sup>2</sup>	La Pipe	63.1
Deep River	Pont Lardier	74.1
Riviere Francoise	Montagne Maurice	21.2
Grand River South East	Beau Champ	115.1
Riviere Des Creoles	Riche en Eau	113.3
Riviere La Chaux	Beau Vallon	56.4
Riviere Citron	Nouvelle France	13.6
Riviere Du Poste	La Flora	35.5
Riviere Dragon	Batymarais	14.5
Riviere Des Anguilles	Riv. Des Anguilles	54.2
Riviere Patates	Mont Blanc	11.7
Riviere Des Galets	Chamouny	19.1
Riviere Baie du Cap	Chamarel	14.3
Riviere Plaines Wilhems	Trianon Bridge	17.6
Riviere Terre Rouge	Trianon	14.2
Riviere Cascade	Reduit	23.4
Riviere Profonde	Petit Verger	11.7
Riviere Labourdonnais	Calebasses Road Bridge	6.6
Riviere Calebasses	Calebasses	17.3
Riviere Citronnier	Poudre D'or	5.6

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

<sup>1</sup> A 10 year (2001 - 2010) average of the annual volume of water measured at the flow measuring station on the concerned river

<sup>2</sup> To note that La Nicoliere Feeder Canal (LNFC) has its offtake just upstream of the point of measurement for the flow in Grand River South East (GRSE). Total GRSE refer to flow of GRSE and flow diverted to LNFC.

Table 2.36 - Fresh water abstractions<sup>1</sup> by source, 2009 - 2018

	Mm <sup>3</sup>									
Source	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Gross fresh surface water abstraction	511	513	449	460	487	489	467	473	468	441
<i>Reservoirs</i>	150	152	104	121	136	141	157	158	144	154
<i>Rivers and streams</i>	361	361	345	339	351	348	310	315	324	287
Gross ground water abstraction	121	124	122	122	121	131	145	147	142	150
<b>Total</b>	<b>632</b>	<b>637</b>	<b>571</b>	<b>582</b>	<b>608</b>	<b>620</b>	<b>612</b>	<b>620</b>	<b>610</b>	<b>591</b>

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

<sup>1</sup> For agricultural, domestic and industrial purposes.Table 2.37 - Fresh water abstractions<sup>1</sup> by sector, 2009 - 2018

	Mm <sup>3</sup>									
Sector	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<b>Gross fresh surface water abstraction</b>	<b>511</b>	<b>513</b>	<b>449</b>	<b>460</b>	<b>487</b>	<b>489</b>	<b>467</b>	<b>473</b>	<b>468</b>	<b>441</b>
<i>Water supply industry (Central Water Authority)</i>	112	110	94	97	112	115	122	124	130	143
<i>Manufacturing</i>	5	5	5	5	7	7	7	5	5	4
<i>Agriculture, forestry and fishing</i>	394	398	350	358	368	367	338	344	333	294
<b>Gross ground water abstraction</b>	<b>121</b>	<b>124</b>	<b>122</b>	<b>122</b>	<b>121</b>	<b>131</b>	<b>145</b>	<b>147</b>	<b>142</b>	<b>150</b>
<i>Water supply industry (Central Water Authority)</i>	111	113	111	109	108	119	133	133	130	138
<i>Manufacturing</i>	5	5	5	6	6	6	7	7	7	7
<i>Agriculture, forestry and fishing</i>	5	6	6	7	7	6	5	7	5	5
<b>Total</b>	<b>632</b>	<b>637</b>	<b>571</b>	<b>582</b>	<b>608</b>	<b>620</b>	<b>612</b>	<b>620</b>	<b>610</b>	<b>591</b>

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

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

Note: Year refer to Hydrologic year (i.e. From November n-1 to October n, where n = year)

Table 2.38 - Water Utilisation, Island of Mauritius, 2017 - 2018

Mm<sup>5</sup>

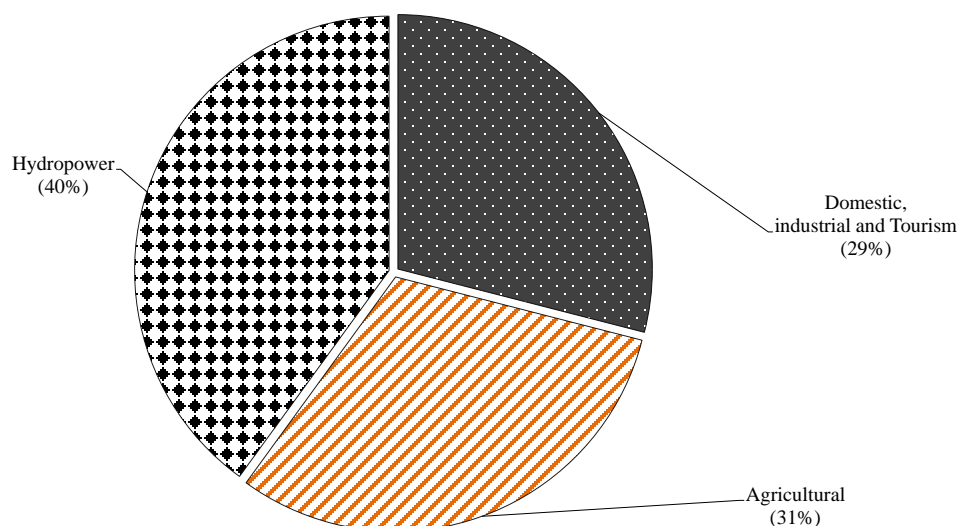
Utilisation	2017					2018				
	Surface water		Ground water	Reuse of treated waste water	Total	Surface water		Ground water	Reuse of treated waste water	Total
	River-run offtakes	Storage (Reservoirs)				River-run offtakes	Storage (Reservoirs)			
Domestic, Industrial and Tourism	42 <sup>1</sup>	88	130	Napp	260	51 <sup>1</sup>	92	138	0	281
Agricultural	279	54 <sup>2</sup>	5	6	344	234	60 <sup>2</sup>	5	5	304
Hydropower	154 <sup>3</sup>	158 <sup>4</sup>	Napp	Napp	312	166 <sup>3</sup>	232 <sup>4</sup>	0	0	398
Industrial	3	2 <sup>5</sup>	7	Napp	12	2	2 <sup>5</sup>	7	0	11
<b>Overall utilisation</b>	<b>478</b>	<b>302</b>	<b>142</b>	<b>6</b>	<b>928</b>	<b>453</b>	<b>386</b>	<b>150</b>	<b>5</b>	<b>994</b>
<b>Total water mobilisation</b>	<b>446</b>	<b>252</b>	<b>142</b>	<b>Napp</b>	<b>840</b>	<b>396</b>	<b>325</b>	<b>150</b>	<b>Napp</b>	<b>871</b>

<sup>1</sup>16 Mm<sup>3</sup> used also for Reduit hydropower station<sup>2</sup>15 Mm<sup>3</sup> used also for Tamarind Falls and Magenta hydropower stations and 8 Mm<sup>3</sup> for La Ferme hydropower station;<sup>3</sup>16 Mm<sup>3</sup> used also twice for Le Val and Ferney hydropower stations;<sup>4</sup>27 Mm<sup>3</sup> used also twice at Midlands and La Nicoliere<sup>5</sup> Used by IPP (formerly accounted in agricultural purpose)

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

<sup>1</sup>33 Mm<sup>3</sup> used also for Reduit hydropower station<sup>2</sup>26 Mm<sup>3</sup> used also for Tamarind Falls and Magenta hydropower stations and 5 Mm<sup>3</sup> for La Ferme hydropower station;<sup>3</sup>24 Mm<sup>3</sup> used also twice for Le Val and Ferney hydropower stations;<sup>4</sup>30 Mm<sup>3</sup> used also twice at Midlands and La Nicoliere; <sup>5</sup> Used by IPP (formerly accounted in agricultural purpose)

Figure 2.6 - Water utilisation, 2018



**Table 2.39 - Volume of treated effluent from wastewater treatment plants used for irrigation, 2009 - 2018**

Year	Irrigation
2009	271,510
2010	0
2011	3,347,765
2012	3,991,797
2013	3,432,175
2014	5,144,168
2015	4,737,923
2016	6,095,850
2017	6,401,568
2018	4,527,278

Source: Wastewater Management Authority

Note: Discharge to canals (Magenta and La Ferme) stopped in January 2009 and restarted in April 2011

Table 2.40 – Daily per capita domestic and potable water consumption, 2009 – 2018

Year	Litres/day	
	Daily per capita domestic water consumption	Daily per capita potable water consumption
2009	170	222
2010	173	227
2011	166	218
2012	164	214
2013	165	216
2014	161	210
2015	163	213
2016	166	217
2017	174	226
2018	180	235

Source: Central Water Authority

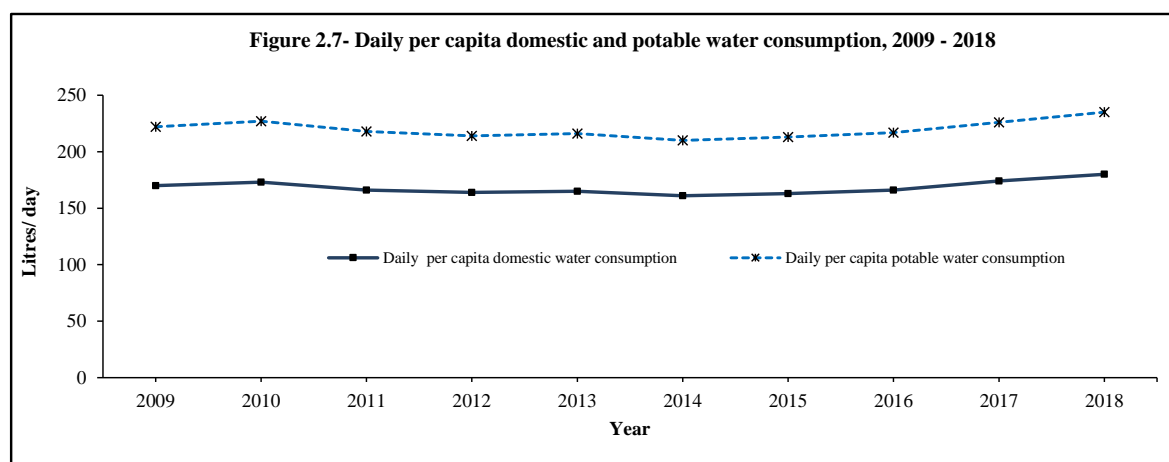


Table 2.41 - Volume of water used by the Central Electricity Board for hydropower generation, 2009 - 2018

Power station	Mm <sup>3</sup>									
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Champagne	105	87	44	69	78	67	103	82	74	128
Ferney	125	100	77	82	107	106	121	111	115	111
Tamarind Falls	33	29	11	13	20	23	31	24	15	26
Le Val	13	13	3	10	17	13	21	14	16	24
Reduit	36	20	21	18	15	16	30	18	16	33
Cascade Cecile	23	19	11	12	17	20	25	20	15	17
Magenta	17	22	10	12	19	22	23	2	0	0
La Ferme	14	8	4	2	7	8	7	12	8	5
<b>Total</b>	<b>366</b>	<b>298</b>	<b>181</b>	<b>218</b>	<b>280</b>	<b>275</b>	<b>361</b>	<b>283</b>	<b>259</b>	<b>344</b>

Source: Central Electricity Board

**Table 2.42- Water supply by economic activity <sup>1</sup>, 2009 - 2018**

Category	Unit	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<b>Gross freshwater supplied by water supply industry</b>	mio m <sup>3</sup> /y	<b>228.9</b>	<b>233.6</b>	<b>221.3</b>	<b>233.6</b>	<b>216.6</b>	<b>229.6</b>	<b>245.5</b>	<b>248.0</b>	<b>230.8</b>	<b>285.2</b>
Losses during transport	mio m <sup>3</sup> /y	120.7	118.7	108.0	122.4	105.3	117.8	132.5	130.0	110.7	161.2
<b>Net freshwater supplied by water supply industry</b>	mio m <sup>3</sup> /y	<b>108.2</b>	<b>114.9</b>	<b>113.3</b>	<b>111.2</b>	<b>111.3</b>	<b>111.8</b>	<b>113.1</b>	<b>118.9</b>	<b>120.1</b>	<b>124.0</b>
<i>of which supplied to:</i>											
<i>Domestic (Households)</i>	mio m <sup>3</sup> /y	<i>75.1</i>	<i>76.5</i>	<i>73.6</i>	<i>72.9</i>	<i>73.4</i>	<i>74.2</i>	<i>75.1</i>	<i>76.3</i>	<i>80.2</i>	<i>83.0</i>
<i>Agriculture, forestry and fishing</i>	mio m <sup>3</sup> /y	<i>13.9</i>	<i>16.2</i>	<i>18.4</i>	<i>17.5</i>	<i>16.7</i>	<i>12.7</i>	<i>12.3</i>	<i>15.7</i>	<i>12.3</i>	<i>11.9</i>
<i>Industrial (ex Manufacturing)</i>	mio m <sup>3</sup> /y	<i>4.0</i>	<i>4.2</i>	<i>4.2</i>	<i>3.9</i>	<i>3.8</i>	<i>3.6</i>	<i>3.7</i>	<i>3.8</i>	<i>3.7</i>	<i>3.7</i>
<i>Other economic activities</i>	mio m <sup>3</sup> /y	<i>15.2</i>	<i>18.0</i>	<i>17.1</i>	<i>16.9</i>	<i>17.4</i>	<i>21.3</i>	<i>22.0</i>	<i>23.1</i>	<i>23.9</i>	<i>25.4</i>

Source : Central Water Authority

<sup>1</sup> Classified according to the National Standard Industrial Classification of All Economic Activities (NSIC) Rev. 4

**COMPONENT 3**

**RESIDUALS**



**Table 3.1 - National inventory of greenhouse gas emissions <sup>1</sup> by sector, Republic of Mauritius, 2015 <sup>2</sup> - 2018 <sup>2</sup>**

Sector	Gg or Thousand Tonnes												Gg CO <sub>2</sub> - eq				Greenhouse gas emissions (GHG) <sup>3</sup> (Gg CO <sub>2</sub> - eq) excluding Forestry and Other Land Use (FOLU)				% of total GHG emissions			
	Carbon dioxide (CO <sub>2</sub> )				Methane (CH <sub>4</sub> )				Nitrous oxide (N <sub>2</sub> O)				(HFCs)											
	2015	2016	2017	2018	2015	2016	2017	2018	2015	2016	2017	2018	2015	2016	2017	2018	2015	2016	2017	2018	2015	2016	2017	2018
1. Energy <sup>4</sup>	4,019.74	4,053.27	4,190.80	4,153.74	0.93	0.89	0.88	0.86	0.15	0.14	0.13	0.14	..	..	..	..	4,086.91	4,115.35	4,250.13	4,213.50	76.2	75.6	75.7	75.1
2. Industrial Processes and Product Use (IPPU)	32.40	33.75	35.37	36.72	..	..	..	..	..	..	..	..	7.77	8.92	10.06	11.19	40.17	42.67	45.44	47.91	0.7	0.8	0.8	0.9
3. Agriculture Forestry and Other Land Use (AFOLU) - Agriculture	..	..	..	..	1.58	1.54	1.50	1.50	0.31	0.37	0.36	0.31	..	..	..	..	128.91	147.04	141.59	128.28	2.4	2.7	2.5	2.3
4. Waste	..	..	..	..	51.73	53.27	54.87	57.18	0.07	0.07	0.07	0.07	..	..	..	..	1,109.27	1,140.37	1,174.92	1,223.49	20.7	20.9	20.9	21.8
<b>Total</b>	<b>4,052.14</b>	<b>4,087.02</b>	<b>4,226.17</b>	<b>4,190.46</b>	<b>54.24</b>	<b>55.70</b>	<b>57.25</b>	<b>59.54</b>	<b>0.53</b>	<b>0.58</b>	<b>0.56</b>	<b>0.52</b>	<b>7.77</b>	<b>8.92</b>	<b>10.06</b>	<b>11.19</b>	<b>5,365.26</b>	<b>5,445.43</b>	<b>5,612.08</b>	<b>5,613.18</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Emissions	Gg CO <sub>2</sub> -eq			
	2015 <sup>2</sup>	2016 <sup>2</sup>	2017 <sup>2</sup>	2018 <sup>2</sup>
1. GHG emissions excluding FOLU	5,365.26	5,445.43	5,612.08	5,613.19
2. GHG removals <sup>5</sup> - (FOLU)	367.90	363.20	364.72	365.00
3. GHG emissions including FOLU (= 1 - 2)	4,997.36	5,082.23	5,247.36	5,248.19

<sup>1</sup> Based on 2006 Intergovernmental Panel on Climate Change (IPCC) Guidelines of the United Nations Framework Convention on Climate Change (UNFCCC)

<sup>2</sup> Provisional (To be revised in First Biennial Update Report)

<sup>3</sup> Refers to carbon dioxide, methane, nitrous oxide and hydrofluorocarbons

<sup>4</sup> Transport under Energy sector is based on linear extrapolation of National Inventory Report (NIR) series 2006 - 2013

<sup>5</sup> Excludes the amount of CO<sub>2</sub> sequestered by trees and vegetations found along rivers, canal reserves and trees along roads

.. : Not occurring

**Table 3.2a - National inventory of greenhouse gas emissions <sup>1</sup> (carbon dioxide) and removals by source categories, Republic of Mauritius, 2009 <sup>2</sup> - 2013 <sup>2</sup> and 2014 <sup>3</sup> - 2018 <sup>3</sup>**

Gg or thousand tonnes

Source category	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<b>1. Energy (fuel combustion activities)</b>	<b>3,495.48</b>	<b>3,728.36</b>	<b>3,692.61</b>	<b>3,815.22</b>	<b>3,903.66</b>	<b>4,025.04</b>	<b>4,019.74</b>	<b>4,053.27</b>	<b>4,190.80</b>	<b>4,153.74</b>
<i>(a) Energy industries (electricity)</i>	2,024.15	2,213.48	2,174.84	2,270.19	2,352.83	2,437.57	2,397.16	2,421.30	2,532.54	2,465.39
<i>(b) Manufacturing industries</i>	368.39	373.18	356.04	350.46	336.55	352.49	356.17	342.37	344.72	344.54
<i>(c) Transport</i>	878.49	918.19	929.81	967.88	987.75	1,001.28	1,022.84	1,044.32	1,065.84	1,087.36
<i>(d) Other sectors</i>	224.46	223.51	231.91	226.68	226.53	233.70	243.58	245.28	247.70	256.45
<b>2. Industrial processes</b>	<b>44.69</b>	<b>44.69</b>	<b>48.74</b>	<b>44.96</b>	<b>37.54</b>	<b>37.94</b>	<b>32.40</b>	<b>33.75</b>	<b>35.37</b>	<b>36.72</b>
<b>3. Agriculture Forestry and Other Land Use (AFOLU) - Agriculture</b>	-	-	-	-	-	-	-	-	-	-
<b>4. Waste</b>	-	-	-	-	-	-	-	-	-	-
<b>Total</b>	<b>3,540.18</b>	<b>3,773.05</b>	<b>3,741.35</b>	<b>3,860.18</b>	<b>3,941.20</b>	<b>4,062.98</b>	<b>4,052.14</b>	<b>4,087.02</b>	<b>4,226.17</b>	<b>4,190.46</b>
Removals <sup>4</sup>	362.26	358.12	364.90	370.10	367.50	366.90	368.70	363.20	364.72	365.00
Net CO <sub>2</sub> emission	3,177.92	3,414.93	3,376.45	3,490.08	3,573.70	3,696.08	3,683.44	3,723.82	3,861.45	3,825.46
Per capita Total Carbon Dioxide Emissions (tonnes)	2.84	3.02	2.99	3.07	3.13	3.22	3.21	3.23	3.34	3.31

<sup>1</sup> Based on 2006 Intergovernmental Panel on Climate Change (IPCC) Guidelines of the United Nations Framework Convention on Climate Change (UNFCCC)

<sup>2</sup> Source: National Greenhouse Gases Inventory Report (NIR) under the Third National Communication (TNC), 2007-2013

<sup>3</sup> Provisional (To be revised in First Biennial Update Report)

<sup>4</sup> Excludes the amount of CO<sub>2</sub> sequestered by trees and vegetations found along rivers and canal reserves and trees along road

- Not occurring, not applicable, not estimated

**Table 3.2b - National inventory of greenhouse gas emissions <sup>1</sup> (methane) by source categories, Republic of Mauritius, 2009<sup>2</sup> - 2013<sup>2</sup> and 2014 - 2018**

Gg or thousand tonnes

Source category	2009	2010	2011	2012	2013	2014 <sup>3</sup>	2015 <sup>3</sup>	2016 <sup>3</sup>	2017 <sup>3</sup>	2018 <sup>3</sup>
<b>1. Energy (fuel combustion activities)</b>	<b>0.80</b>	<b>0.83</b>	<b>0.82</b>	<b>0.82</b>	<b>0.83</b>	<b>0.84</b>	<b>0.93</b>	<b>0.89</b>	<b>0.88</b>	<b>0.86</b>
(a) Energy industries (electricity)	0.40	0.40	0.40	0.40	0.41	0.40	0.48	0.44	0.42	0.40
(b) Manufacturing industries	0.10	0.11	0.10	0.09	0.09	0.08	0.09	0.07	0.07	0.06
(c) Transport	0.20	0.21	0.22	0.23	0.24	0.26	0.27	0.29	0.30	0.32
(d) Other sectors	0.10	0.10	0.10	0.10	0.10	0.09	0.09	0.09	0.09	0.09
<b>2. Industrial Processes and Product Use</b>	-	-	-	-	-	-	-	-	-	-
<b>3. Agriculture Forestry and Other Land Use (AFOLU) - Agriculture</b>	<b>1.70</b>	<b>1.91</b>	<b>1.98</b>	<b>1.96</b>	<b>1.93</b>	<b>1.57</b>	<b>1.58</b>	<b>1.54</b>	<b>1.50</b>	<b>1.50</b>
<b>4. Waste</b>	<b>39.73</b>	<b>45.61</b>	<b>47.62</b>	<b>46.74</b>	<b>45.86</b>	<b>51.01</b>	<b>51.73</b>	<b>53.27</b>	<b>54.87</b>	<b>57.18</b>
<b>Total</b>	<b>42.23</b>	<b>48.36</b>	<b>50.42</b>	<b>49.52</b>	<b>48.62</b>	<b>53.41</b>	<b>54.24</b>	<b>55.69</b>	<b>57.25</b>	<b>59.55</b>

<sup>1</sup> Based on 2006 Intergovernmental Panel on Climate Change (IPCC) Guidelines of the United Nations Framework Convention on Climate Change (UNFCCC)

<sup>2</sup> Source: National Greenhouse Gases Inventory Report (NIR) under the Third National Communication (TNC), 2007-2013

<sup>3</sup> Provisional (To be revised in First Biennial Update Report)

- Not occurring, not applicable, not estimated

**Table 3.2c - National inventory of greenhouse gas emissions <sup>1</sup> (nitrous oxide) by source categories, Republic of Mauritius, 2009<sup>2</sup> - 2013<sup>2</sup> and 2014 - 2018**

Gg or thousand tonnes

Source category	2009	2010	2011	2012	2013	2014 <sup>3</sup>	2015 <sup>3</sup>	2016 <sup>3</sup>	2017 <sup>3</sup>	2018 <sup>3</sup>
<b>1. Energy (fuel combustion activities)</b>	<b>0.133</b>	<b>0.139</b>	<b>0.138</b>	<b>0.140</b>	<b>0.142</b>	<b>0.142</b>	<b>0.152</b>	<b>0.147</b>	<b>0.134</b>	<b>0.140</b>
(a) Energy industries (electricity)	0.075	0.078	0.077	0.078	0.080	0.080	0.089	0.085	0.075	0.079
(b) Manufacturing industries	0.014	0.016	0.015	0.013	0.013	0.012	0.013	0.011	0.008	0.009
(c) Transport	0.042	0.044	0.045	0.047	0.048	0.048	0.049	0.050	0.050	0.051
(d) Other sectors	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.001	0.001
<b>2. Industrial Processes and Product Use</b>	-	-	-	-	-	-	-	-	-	-
<b>3. Agriculture Forestry and Other Land Use (AFOLU) - Agriculture</b>	<b>0.252</b>	<b>0.282</b>	<b>0.391</b>	<b>0.322</b>	<b>0.326</b>	<b>0.396</b>	<b>0.309</b>	<b>0.370</b>	<b>0.355</b>	<b>0.312</b>
<b>4. Waste</b>	<b>0.073</b>	<b>0.073</b>	<b>0.074</b>	<b>0.075</b>	<b>0.076</b>	<b>0.073</b>	<b>0.074</b>	<b>0.073</b>	<b>0.073</b>	<b>0.073</b>
<b>Total</b>	<b>0.458</b>	<b>0.494</b>	<b>0.603</b>	<b>0.537</b>	<b>0.543</b>	<b>0.611</b>	<b>0.535</b>	<b>0.590</b>	<b>0.562</b>	<b>0.525</b>

<sup>1</sup> Based on 2006 Intergovernmental Panel on Climate Change (IPCC) Guidelines of the United Nations Framework Convention on Climate Change (UNFCCC)

<sup>2</sup> Source: National Greenhouse Gases Inventory Report (NIR) under the Third National Communication (TNC), 2007-2013

<sup>3</sup> Provisional (To be revised in First Biennial Update Report)

- Not occurring, not applicable, not estimated

**Table 3.2d - National inventory of greenhouse gas emissions<sup>1</sup> (hydrofluorocarbons) by source categories, Republic of Mauritius, 2009<sup>2</sup> - 2013<sup>2</sup> and 2014<sup>3</sup> - 2018<sup>3</sup>**

Source category	Gg CO <sub>2</sub> eq									
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<b>1. Industrial processes</b>	4.60	5.20	5.70	6.00	6.20	6.92	7.77	8.92	10.06	11.19
<b>Total</b>	<b>4.60</b>	<b>5.20</b>	<b>5.70</b>	<b>6.00</b>	<b>6.20</b>	<b>6.92</b>	<b>7.77</b>	<b>8.92</b>	<b>10.06</b>	<b>11.19</b>

<sup>1</sup> Based on 2006 Intergovernmental Panel on Climate Change (IPCC) Guidelines of the United Nations Framework Convention on Climate Change (UNFCCC)

<sup>2</sup> Source: National Greenhouse Gases Inventory Report (NIR ) under the Third National Communication (TNC), 2007-2013

<sup>3</sup> Provisional (To be revised in First Biennial Update Report)

**Table 3.3 - Greenhouse gas emissions from energy sector (fuel combustion activities), Republic of Mauritius, 2014<sup>1</sup> - 2018<sup>1</sup>**

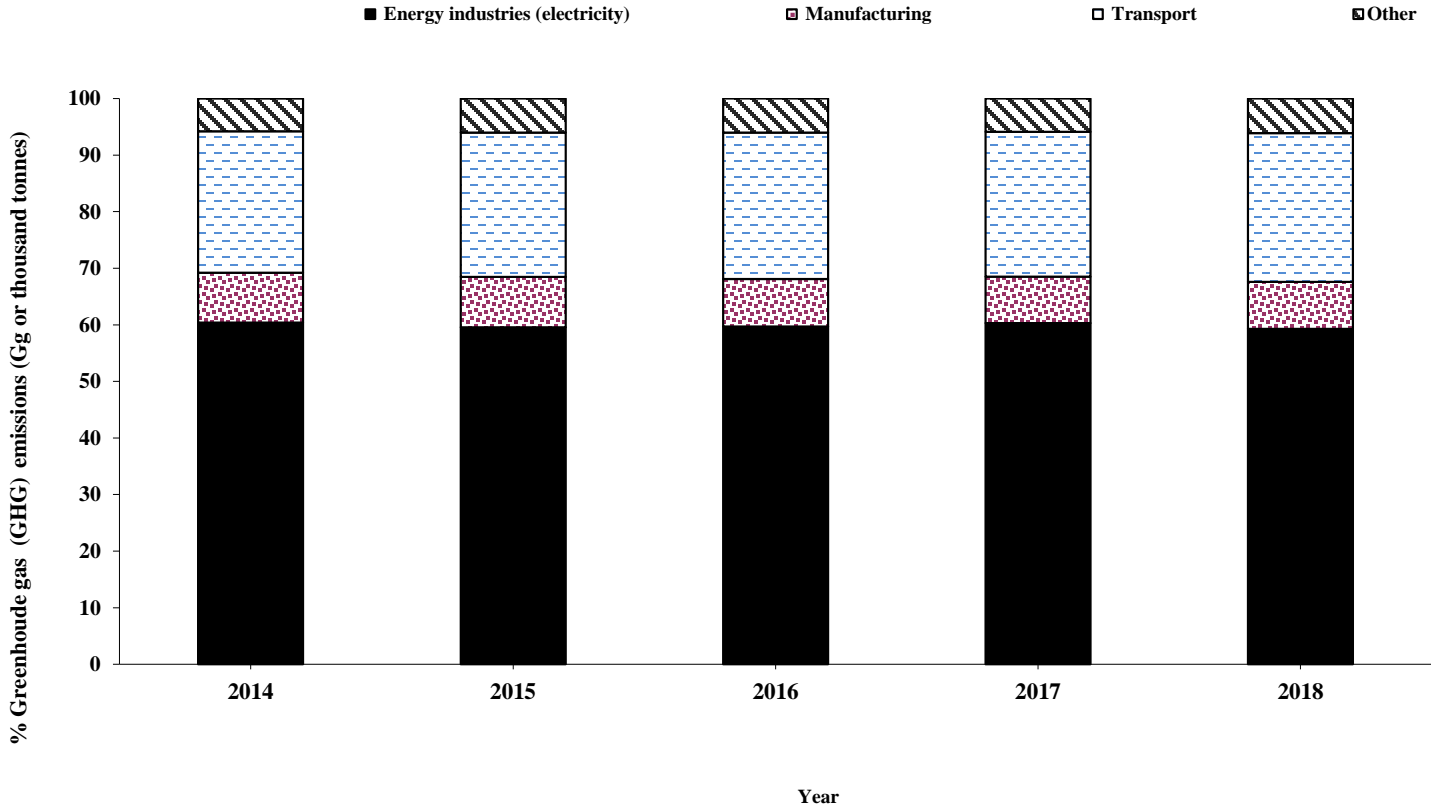
Energy Sector	Gg CO <sub>2</sub> eq									
	2014		2015		2016		2017		2018	
	Quantity	%	Quantity	%	Quantity	%	Quantity	%	Quantity	%
Energy industries (electricity generation)	2,470.96	60.4	2,434.76	59.6	2,456.74	59.7	2,564.67	60.3	2,498.32	59.3
Manufacturing industries and construction	357.79	8.8	361.97	8.9	347.23	8.4	348.47	8.2	348.49	8.3
Transport <sup>2</sup>	1,022.20	25.0	1,044.24	25.5	1,065.87	25.9	1,087.24	25.6	1,108.07	26.3
Other	236.15	5.8	245.94	6.0	245.51	6.0	249.75	5.9	258.62	6.1
<b>Total</b>	<b>4,087.10</b>	<b>100.0</b>	<b>4,086.91</b>	<b>100.0</b>	<b>4,115.35</b>	<b>100.0</b>	<b>4,250.13</b>	<b>100.0</b>	<b>4,213.50</b>	<b>100.0</b>

<sup>1</sup> Provisional (To be revised in First Biennial Update Report)

<sup>2</sup> Based on linear extrapolation of NIR series 2006 - 2013

Note: Figures for total emissions in CO<sub>2</sub>-eq may slightly differ from calculated CO<sub>2</sub>-eq of Table 3.2a-3.2c due to rounding

Figure 3.1 - Percentage of greenhouse gas (GHG) emissions from energy sector (fuel combustion activities), Republic of Mauritius, 2014 - 2018



**Table 3.4 - National inventory of greenhouse gas (GHG) emissions by source categories, Republic of Mauritius, 2009<sup>1</sup> - 2018<sup>1</sup>**

Gg or thousand tonnes CO<sub>2</sub> eq.

Source category	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<b>1. Energy (fuel combustion activities)</b>	<b>3,553.40</b>	<b>3,789.00</b>	<b>3,752.60</b>	<b>3,875.80</b>	<b>3,964.80</b>	<b>4,086.54</b>	<b>4,086.91</b>	<b>4,115.35</b>	<b>4,250.13</b>	<b>4,213.50</b>
<i>(a) Energy industries (electricity)</i>	2,055.70	2,246.00	2,207.10	2,302.92	2,386.00	2,470.96	2,434.76	2,456.74	2,564.67	2,498.32
<i>(b) Manufacturing industries</i>	374.70	380.40	362.70	356.47	342.30	357.79	362.47	349.70	353.03	347.10
<i>(c) Transport</i>	895.80	936.40	948.20	987.11	1,007.40	1,021.64	1,043.74	1,063.40	1,082.67	1,109.46
<i>(d) Other sectors</i>	227.20	226.20	234.60	229.31	229.10	236.15	245.94	245.51	249.75	258.62
<b>2. Industrial processes and Product Use</b>	<b>49.28</b>	<b>49.91</b>	<b>54.43</b>	<b>50.97</b>	<b>43.71</b>	<b>44.86</b>	<b>40.17</b>	<b>42.67</b>	<b>45.43</b>	<b>47.91</b>
<b>3. Agriculture Forestry and Other Land Use (AFOLU) - Agriculture</b>	<b>113.84</b>	<b>127.56</b>	<b>162.83</b>	<b>141.08</b>	<b>141.55</b>	<b>155.53</b>	<b>128.91</b>	<b>147.04</b>	<b>141.59</b>	<b>128.28</b>
<b>4. Waste</b>	<b>857.02</b>	<b>980.56</b>	<b>1,022.84</b>	<b>1,004.66</b>	<b>986.59</b>	<b>1,093.85</b>	<b>1,109.27</b>	<b>1,140.37</b>	<b>1,174.92</b>	<b>1,223.49</b>
<b>Total</b>	<b>4,573.54</b>	<b>4,947.03</b>	<b>4,992.70</b>	<b>5,072.51</b>	<b>5,136.65</b>	<b>5,380.78</b>	<b>5,365.25</b>	<b>5,445.43</b>	<b>5,612.07</b>	<b>5,613.19</b>
Removals <sup>2</sup>	362.26	358.12	364.90	370.10	367.50	366.90	367.90	363.20	364.72	365.00
Net GHG emission (Thousand tonnes CO <sub>2</sub> eq.)	4,211.28	4,588.91	4,627.80	4,702.41	4,769.15	5,013.88	4,997.35	5,082.23	5,247.35	5,248.19
Per capita Total Carbon Dioxide Emissions (tonnes)	3.67	3.96	3.99	4.04	4.08	4.27	4.25	4.31	4.44	4.44

<sup>1</sup> Provisional (To be revised in First Biennial Update Report)

<sup>2</sup> Excludes the amount of CO<sub>2</sub> sequestered by trees and vegetations found along rivers and canal reserves and trees along road

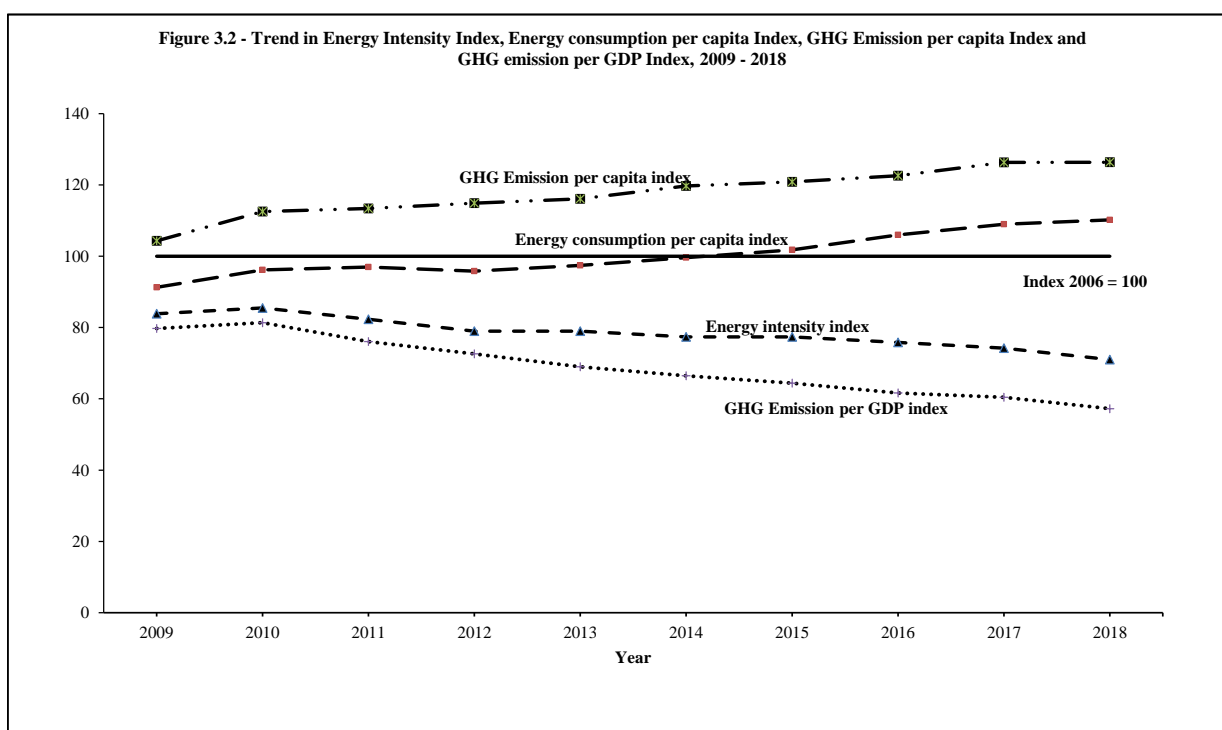
Note: Figures for total emissions in CO<sub>2</sub>-eq may slightly differ from calculated CO<sub>2</sub>-eq of Tables 3.2a - 3.2d due to rounding

**Table 3.5 - Trend in Energy intensity index, Energy consumption per capita index, GHG Emission per capita index and GHG emission per GDP index, 2009 - 2018**

Base Year 2006 = 100

Year	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018 <sup>1</sup>
Energy Intensity index	83.9	85.5	82.3	79.0	79.0	77.4	77.4	75.8	74.2	71.0
Energy consumption per capita index	91.3	96.2	96.9	95.8	97.4	99.6	101.8	106.0	109.0	110.2
GHG Emission per capita index	104.3	112.6	113.4	114.9	116.1	119.7	120.9	122.6	126.3	126.4
GHG Emissions per GDP index	79.7	81.4	76.0	72.6	69.0	66.5	64.4	61.6	60.4	57.2

<sup>1</sup> Provisional



**Table 3.6 - Consumption of controlled ozone-depleting substances by sector, 2009 - 2018**

Tonnes

Sector	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Refrigeration and air conditioning	192.12	96.13	157.40	125.94	96.87	142.52	122.34	110.97	106.10	124.48

Source: Ministry of Social Security, National Solidarity, and Environment and Sustainable Development (Environment and Sustainable Development Division)

**Table 3.7 - Consumption of controlled ozone-depleting substances by type of substances, 2009 - 2018**

Type of substances	Tonnes									
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Hydrochlorofluorocarbon (HCFC's)	192.12	96.13	157.40	125.94	96.87	142.52	122.34	110.97	106.10	124.48
<b>Total</b>	<b>192.12</b>	<b>96.13</b>	<b>157.40</b>	<b>125.94</b>	<b>96.87</b>	<b>142.52</b>	<b>122.34</b>	<b>110.97</b>	<b>106.10</b>	<b>124.48</b>

Source: Ministry of Environment, Solid Waste Management and Climate Change

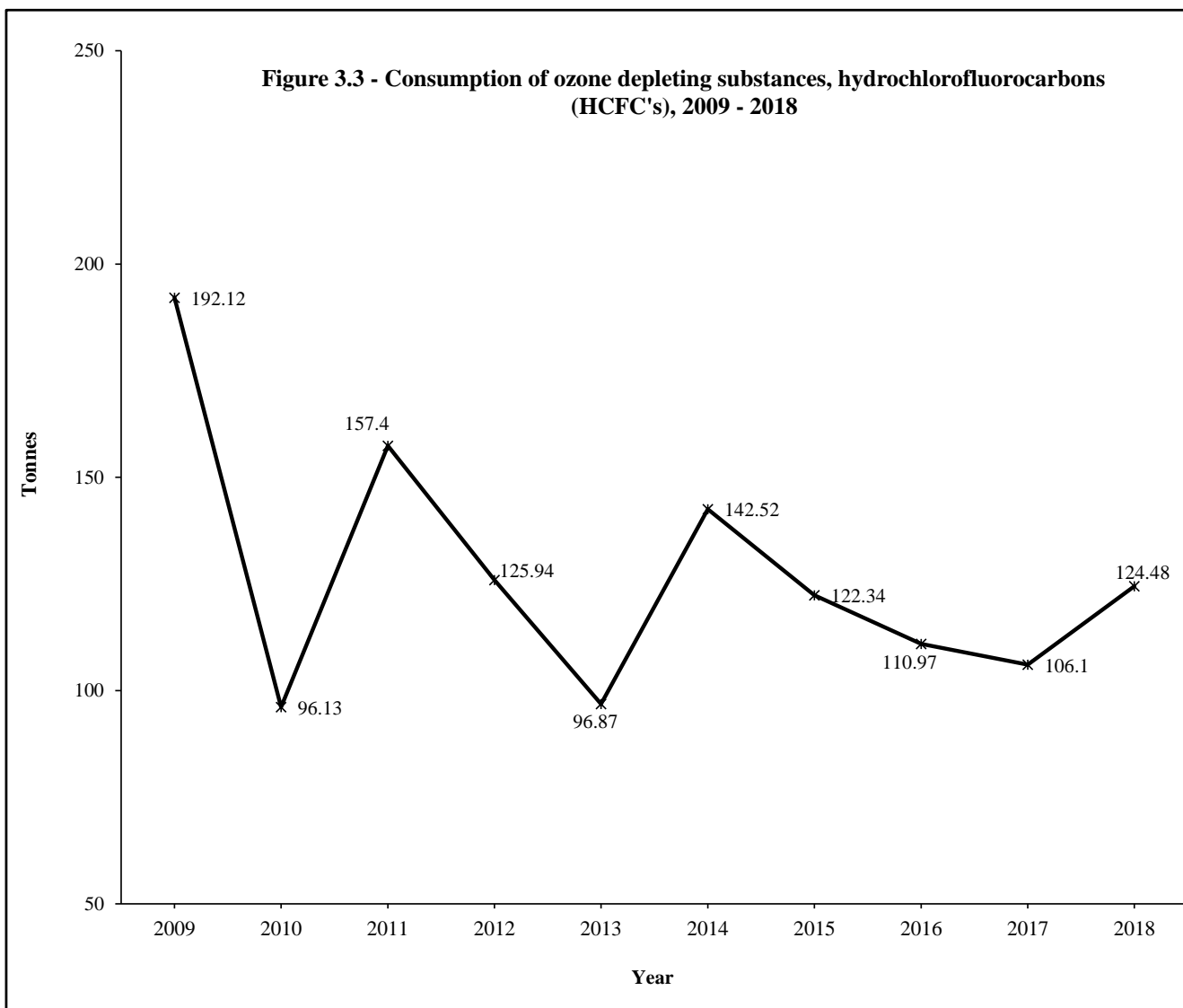




Table 3.8 - Volume of wastewater treated by public treatment stations and by type of treatment, 2009 - 2018

Mm <sup>3</sup>										
Type of treatment and Station	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
<b>Primary treatment</b>	<b>24.71</b>	<b>19.61</b>	<b>26.19</b>	<b>20.20</b>	<b>21.76</b>	<b>23.95</b>	<b>27.91</b>	<b>29.46</b>	<b>31.46</b>	<b>25.92</b>
Montagne Jacquot	16.50	11.40	17.25	11.50	13.22	14.40	15.07	14.49	15.49	12.78
Baie du Tombeau	8.21	8.21	8.94	8.70	8.54	9.55	12.84	14.97	15.97	13.14
<b>Secondary treatment</b>	<b>0.73</b>	<b>0.73</b>	<b>0.73</b>	<b>0.73</b>	<b>0.73</b>	<b>0.76</b>	<b>0.79</b>	<b>0.83</b>	<b>0.90</b>	<b>0.90</b>
Pailles Treatment Plant	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.14	0.14
Bois Marchand	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20	0.20
Riviere du Rempart	0.10	0.10	0.10	0.10	0.10	0.06	0.06	0.10	0.10	0.10
Robinson	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03	0.03
Vuillemin	0.10	0.10	0.10	0.10	0.10	0.12	0.15	0.15	0.15	0.15
Flacq	0.10	0.10	0.10	0.10	0.10	0.15	0.15	0.15	0.15	0.15
Dubreuil	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.13	0.13
<b>Tertiary treatment</b>	<b>16.55</b>	<b>14.60</b>	<b>13.24</b>	<b>15.67</b>	<b>18.55</b>	<b>15.75</b>	<b>20.67</b>	<b>20.35</b>	<b>20.23</b>	<b>16.70</b>
Grand Bay	0.60	0.60	0.60	0.77	0.86	0.98	0.99	0.85	0.83	0.90
St. Martin	15.95	14.00	12.64	14.90	17.69	14.77	19.68	19.50	19.40	15.80
<b>Total</b>	<b>41.99</b>	<b>34.94</b>	<b>40.16</b>	<b>36.60</b>	<b>41.04</b>	<b>40.46</b>	<b>49.37</b>	<b>50.64</b>	<b>52.59</b>	<b>43.52</b>

Source : Wastewater Management Authority

**Table 3.9 - Volume of wastewater treated, number and capacity of treatment plants, 2009 - 2018**

Category	Unit	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Total wastewater treated	Mm <sup>3</sup>	41.99	34.94	40.16	36.60	41.40	40.46	49.37	50.64	52.59	43.52
Number of treatment plants	Unit	10	10	10	10	10	10	10	10	10	10
Total treatment capacity of plants (Designed capacity)	m <sup>3</sup> /day	171,920	171,920	171,920	171,920	171,920	171,920	171,920	171,920	171,920	171,920

Source: Wastewater Management Authority

**Table 3.10 - Discharge of treated wastewater to environment, 2009 - 2018**

Category	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Total wastewater treated	41.99	34.94	40.16	36.60	41.40	40.46	49.37	50.64	52.59	43.52
Total wastewater discharged to environment after treatment	41.72	34.94	36.81	33.19	32.61	35.32	44.63	44.39	46.19	38.99
Total wastewater used for irrigation after treatment	0.27	0.0	3.35	3.41	3.99	5.14	4.74	6.01	6.40	4.53

Source: Wastewater Management Authority

**Table 3.11 - Average volume of wastewater treated by station, treatment level, final discharge point and monitoring of selected chemical parameters, 2018**

Station	Average Volume of wastewater treated (m <sup>3</sup> /day)	Treatment level	Final Discharge point	Temperature	Lab pH	Total Suspended Solid	Chemical Oxygen Demand	Ammonia	Nitrate	Reactive Phosphorus
				°C	No unit	mg/l	mg/l	mg/l	mg/l	mg/l
St Martin	53,000	Tertiary	Irrigation	7.25	7.06	9.8	33	2.13	3.99	Napp
			Standards of effluent for use in irrigation	NL	5--9	45	120	NL	20	NL
Baie du Tombeau	43,750	Preliminary	Sea Outfall	28	7.33	516	1386	Napp	Napp	Napp
			Standards for discharge into ocean	40	5--9	300	750	NL	NL	NL
Montagne Jacquot	42,400	Primary	Sea Outfall	28	8.07	89	282	Napp	Napp	Napp
			Standards for discharge into ocean	40	5--9	300	750	NL	NL	NL
Grand Baie	2,300	Tertiary	Borehole injection	27	7.11	14	40	1	13	3.36
			Standards for discharge onto land/underground	40	5--9	45	120	1	10	10
Riviere du Rempart	270	Secondary	Leaching field	27	7.47	48.9	92	12.2	8.1	3.81
			Standards for discharge onto land/underground	40	5--9	45	120	1	10	10

Source: Wastewater Management Authority

NL- No limit

**Table 3.11 (cont'd) - Average volume of wastewater treated by station, treatment level, final discharge point and monitoring of selected chemical parameters, 2018**

Station	Average Volume of wastewater treated (m <sup>3</sup> /day)	Treatment level	Final Discharge point	Temperature	Lab pH	Total Suspended Solid	Chemical Oxygen Demand	Ammonia	Nitrate	Reactive Phosphorus
				°C	No unit	mg/l	mg/l	mg/l	mg/l	mg/l
Dubreuil	355	Tertiary	Surface Water	25	7.16	33	93	18	2.8	2.1
			Standards for discharge into surface water	<b>40</b>	<b>5--9</b>	<b>35</b>	<b>120</b>	<b>1</b>	<b>10</b>	<b>1</b>
Flacq	410	Tertiary	Surface Water	25	7.16	33	89	18	2.99	2
			Standards for discharge into surface water	<b>40</b>	<b>5--9</b>	<b>35</b>	<b>120</b>	<b>1</b>	<b>10</b>	<b>1</b>
Pailles	380	Tertiary	Surface Water	27	7.08	131	395	37	0.7	5
			Standards for discharge into surface water	<b>40</b>	<b>5--9</b>	<b>35</b>	<b>120</b>	<b>1</b>	<b>10</b>	<b>1</b>
Bois Marchand	550	Tertiary	Surface Water	27	6.99	31	120	17	1.3	3.4
			Standards for discharge into surface water	<b>40</b>	<b>5--9</b>	<b>35</b>	<b>120</b>	<b>1</b>	<b>10</b>	<b>1</b>
Vullemin	410	Secondary	Surface Water	25	7.16	35	93	18	2.79	2
			Standards for discharge into surface water	<b>40</b>	<b>5--9</b>	<b>35</b>	<b>120</b>	<b>1</b>	<b>10</b>	<b>1</b>

Source: Wastewater Management Authority

**Table 3.12 - Disposal of solid waste at Mare Chicose landfill site by type, 2009 - 2018**

Waste type	Tonnes									
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Domestic and Commercial	389,999	402,816	389,743	365,867	408,858	401,785	431,995	428,032	462,431	522,292
Construction	671	2,394	5,306	5,601	6,141	2,363	1,488	2,757	2,090	4,872
Industrial (excl. textile)	1,170	1,140	1,565	680	325	190	279	263	507	471
Textile	300	432	130	233	89	18	9	0	0	0
Tuna/Sludge	9,126	10,949	10,402	7,370	6,963	5,191	4,692	4,284	5,081	4,592
Poultry	7,209	6,339	5,942	6,061	5,316	5,707	6,333	7,028	7,576	8,094
Rubber tyres	365	481	447	372	315	431	486	492	855	671
Asbestos	26	44	15	6	50	26	15	34	41	136
Condemned goods	1,164	1,388	848	1,573	1,588	1,586	2,840	1,125	1,340	1,049
Difficult and hazardous <sup>1</sup>	NA	42	13	7	17	1	17	1	934	805
Paper waste	NA	6	67	7	30	5	10	2	24	50
Others <sup>2</sup>	5,918	1,771	65	149	243	175	312	677	1,318	165
<b>Total</b>	<b>415,948</b>	<b>427,802</b>	<b>414,543</b>	<b>387,926</b>	<b>429,935</b>	<b>417,478</b>	<b>448,476</b>	<b>444,695</b>	<b>482,196</b>	<b>543,197</b>

Source: Solid Waste Management Division, Ministry of Environment, Solid Waste Management and Climate Change

**Note:** The Mare Chicose Landfill (49.9 hectares) started operation in 1997.

<sup>1</sup> Mainly E-waste and clinical waste

<sup>2</sup> Mainly dredged materials (not disposed every year)

Daily per capita total solid waste landfilled (kg)	0.94	0.97	0.94	0.87	0.97	0.94	1.01	1.00	1.08	1.22
Daily per capita domestic & commercial solid waste landfilled (kg)	0.88	0.91	0.88	0.83	0.92	0.90	0.97	0.96	1.04	1.17

**Table 3.13 - Disposal of solid waste at Mare Chicose landfill site by economic activity, 2009 - 2018**

Tonnes

Activity	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Agriculture, forestry and fishing	7,209	6,339	5,942	6,061	5,316	5,707	6,333	7,028	7,576	8,094
Manufacturing	10,596	12,521	12,097	8,283	7,377	5,399	4,980	4,547	5,588	5,062
Construction	671	2,394	5,306	5,601	6,141	2,363	1,488	2,757	2,090	5,009
Households	389,999	402,816	389,743	365,867	408,858	401,785	431,995	428,032	462,431	522,292
Other economic activities	7,473	3,732	1,455	2,114	2,243	2,224	3,680	2,331	4,511	2,740
<b>Total waste disposed</b>	<b>415,948</b>	<b>427,802</b>	<b>414,543</b>	<b>387,926</b>	<b>429,935</b>	<b>417,478</b>	<b>448,476</b>	<b>444,695</b>	<b>482,196</b>	<b>543,197</b>

Source: Solid Waste Management Division, Ministry of Environment, Solid Waste Management and Climate Change

**Table 3.14 - Management of solid waste, 2009 - 2018**

Category	Tonnes									
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Landfilling	415,948	427,802	414,543	387,926	429,935	417,478	448,476	444,695	482,196	543,196
Composting (Solid Waste Recycling Company Ltd)	Napp	Napp	5,154	34,785	19,257	41,032	37,979	38,308	14,533	0
<b>Total</b>	<b>415,948</b>	<b>427,802</b>	<b>419,697</b>	<b>422,711</b>	<b>449,192</b>	<b>458,510</b>	<b>486,455</b>	<b>483,003</b>	<b>496,729</b>	<b>543,196</b>

Source: Solid Waste Management Division, Ministry of Environment, Solid Waste Management and Climate Change

**Table 3.15 - Number and capacity of solid waste transfer stations, 2018**

Transfer station	Starting Year of Operation	Design capacity /tons / day	Average quantity transferred/tons per month
La Brasserie	1991	150 to 300	9,330
Roche Bois	1992	300 to 400	7,431
Poudre D'Or	2000	150 to 180	6,587
La Laura	2005	100 to 150	4,155
La Chaumiere	2011	350 to 450	7,090

Source: Solid Waste Management Division, Ministry of Environment, Solid Waste Management and Climate Change

**Table 3.16 - Exports of selected wastes, 2009 - 2018**

Standard International Trade Classification (SITC)		Tonnes									
		2009	2010	2011	2012	2013	2014	2015	2016	2017 <sup>1</sup>	2018
282	Ferrous waste and scrap; remelting scrap ingots of iron or steel	29,774	45,599	49,984	39,543	36,869	30,443	23,874	14,531	3,090	3,124
288	Non-ferrous base metal waste and scrap, n.e.s	2,319	2,688	2,493	2,762	2,459	2,720	1,987	1,460	113	37
289	Ores and concentrates of precious metals; waste, scrap and sweeping of precious metals (other than of gold)	1	2	4	7	4	0	0	1	0	0
579	Waste, parings and scrap, of plastics	896	1,067	1,093	1,080	1,134	1,518	1,557	1,318	1,741	1,823

<sup>1</sup> Revised



# **COMPONENT 4**

## **EXTREME EVENTS AND DISASTERS**

Table 4.1 - Tropical storms/cyclones when warnings were issued for Island of Mauritius, 1991 - 2018

Year	Month and date	Name	Intensity	Closest distance from Mauritius	Highest gust recorded (km/h)	Lowest pressure recorded (hPa) in Mauritius
1991	January 29 - 31	Bella	Tropical Cyclone	410 km North East	74	1001.7
1992	February 29 - 2 March	Gerda	Tropical Cyclone	200 km North East	93	1003.6
1993	January 18 - 19	Colina	Tropical Cyclone	200 km West South West	114	1004.4
1993	January 26 - 27	Edwina	Tropical Cyclone	150 km East	124	994.8
1994	February 9 - 11	Hollanda	Intense Tropical Cyclone	Off North West Coast	216	984
1995	January 4 - 6	Bentha	Moderate Tropical Storm	160 km North	79	1009.9
1995	January 7 - 8	Christelle	Moderate Tropical Storm	Over Island	109	993.8
1995	February 24 - 27	Ingrid	Tropical Cyclone	80 km East	153	989.2
1995	March 8 - 13	Kylie	Severe Tropical Storm	140 km West	116	1004.8
1996	January 7 - 9	Bonita	Intense Tropical Cyclone	190 km North West	87	1008.7
1996	February 24 - 25	Edwige	Moderate Storm	100 km North	162	1009
1996	February 29 - 1 March	Flossy	Tropical Cyclone	385 km West	-	1010.2
1996	March 21 - 22	Guylianne	Moderate Tropical Storm	80 km North East	82	1007.3
1996	April 14 - 16	Itelle	Intense Tropical Cyclone	300 km North North West	109	1010.9
1996	December 6 - 8	Daniella	Intense Tropical Cyclone	40 km South West	170	997.8
1998	February 10 - 11	Anacelle	Tropical Cyclone	60 km from Ile aux Cerfs	121	985.8
1999	March 8 - 10	Davina	Intense Tropical Cyclone	25 km South East	173	974.3
2000	January 27 - 29	Connie	Intense Tropical Cyclone	200 km North West	134	1003.8
2000	February 13 - 15	Eline	Severe Tropical Storm	130 km North	137	1006.3
2001	January 4 - 6	Ando	Intense Tropical Cyclone	360 km North West	82	-
2001	January 15 - 16	Bindu	Moderate Tropical Storm	360 km East South East	140	-
2002	January 20 - 22	Dina	Very Intense Tropical Cyclone	50 km North	228	988.3
2002	February 17 - 19	Guillaume	Intense Tropical Cyclone	155 km East	100	1005.7
2002	November 20 - 21	Boura	Severe Tropical Storm	435 km North North West	97	1012.9
2002	December 26 - 27	Crystal	Tropical Cyclone	125 km East	79	1002.8
2003	February 12 - 13	Gerry	Tropical Cyclone	100 km North North East	143	986.3
2003	May 4 - 5	Manou	Tropical Cyclone	430 km North	112	1007.9
2003-04	31 December - 3 January	Darius	Severe Tropical Storm	40 km South East	112	993.5
2005	March 22 - 24	Hennie	Severe Tropical Storm	60 km South East	112	990.3
2006	March 3 - 4	Diwa	Severe Tropical Storm	220 km North North West	126	1005.7
2007	February 22 - 25	Gamede	Intense Tropical Cyclone	230 km North West	158	995.5
2008	January 30 - 31	Gula	Tropical Cyclone	155 km South East	97	996.8
2009	February 3 - 5	Gael	Severe Tropical Storm	200 km North	104	1004.8
2012	February 10 - 12	Giovanna	Intense Tropical Cyclone	260 km North	97	1004.1
2013	January 1 - 3	Dumile	Tropical Cyclone	300 km West	97	1005.9
2013	April 13 - 15	Imelda	Tropical Cyclone	500 km North North East	79	-
2013-14	31 December - 2 January	Bejisa	Intense Tropical Cyclone	265 km West	94	1004.3
2014	February 4 - 6	Edilson	Severe Tropical Storm	70 km South East	90	994.1
2015	January 11 -14	Bansi	Very Intense Tropical Storm	260 km North North West	104	1000.7
2016 <sup>1</sup>			NIL			
2017	February 4 - 7	Carlos	Severe Tropical Storm	110 km North west	96	1005.1
2018	January 15 - 18	Berguitta	Intense Tropical Cyclone	NA	105	981.7
2018	April 23 - 24	Fakir	Severe Tropical Storm	NA	90	1006.3
2018	December 20 - 23	Cilida	Intense Tropical Cyclone	200 km North East	NA	NA

Source: Mauritius Meteorological Services

<sup>1</sup> No cyclone warning issued in 2016

**Table 4.2 - Number of incidents related to flooding and hazardous material release attended by Mauritius Fire and Rescue Service and number of persons evacuated by fire station - Island of Mauritius, 2016 - 2018**

Fire Station	Flooding						Hazardous material release					
	2016		2017		2018		2016		2017		2018	
	No. of incidents	No. of persons evacuated	No. of incidents	No. of persons evacuated	No. of incidents	No. of persons evacuated	No. of incidents	No. of persons evacuated	No. of incidents	No. of persons evacuated	No. of incidents	No. of persons evacuated
Port Louis	125	2	37	0	299	16	3	NA	3	NA	7	NA
Triolet	60	0	46	0	175	1	1	NA	2	NA	0	NA
Piton	29	0	64	0	183	45	4	NA	1	NA	1	NA
Flacq	33	0	146	9	181	0	2	NA	3	NA	3	NA
Mahebourg	41	0	33	0	124	0	2	NA	0	NA	1	NA
Saint Aubin	49	7	66	8	79	0	1	NA	1	NA	0	NA
Coromandel	65	0	34	0	269	1	2	NA	0	NA	4	NA
Quatre Bornes	50	0	57	0	201	4	6	NA	7	NA	4	NA
Curepipe	95	1	129	0	291	1	4	NA	9	NA	6	NA
Tamarin	17	59	16	0	118	0	0	NA	0	NA	0	NA
<b>Total</b>	<b>564</b>	<b>69</b>	<b>628</b>	<b>17</b>	<b>1,920</b>	<b>68</b>	<b>25</b>	<b>NA</b>	<b>26</b>	<b>NA</b>	<b>26</b>	<b>NA</b>

Source: Mauritius Fire and Rescue Service

**COMPONENT 5**

**HUMAN SETTLEMENTS AND ENVIRONMENTAL  
HEALTH**

**Table 5.1 - Evolution of the population by urban<sup>1</sup> / rural residence and sex between the 2000 and 2011 Population Censuses**

Urban\Rural Residence	2000 census <sup>2</sup>			2011 census			Intercensal change	
	Both sexes	Male	Female	Both sexes	Male	Female	Number	Annual average (%)
<b>Island of Mauritius</b>	<b>1,143,069</b>	<b>566,056</b>	<b>577,013</b>	<b>1,196,383</b>	<b>590,944</b>	<b>605,439</b>	<b>53,314</b>	<b>0.42</b>
<i>Urban population</i>	<b>503,045</b>	<b>247,844</b>	<b>255,201</b>	<b>499,349</b>	<b>244,688</b>	<b>254,661</b>	<b>-3,696</b>	<b>-0.07</b>
Port Louis	144,303	71,720	72,583	137,608	68,370	69,238	-6,695	-0.43
Beau Bassin/Rose Hill	103,872	50,730	53,142	103,098	51,114	51,984	-774	-0.07
Quatre Bornes	75,884	37,306	38,578	75,613	36,870	38,743	-271	-0.03
Vacoas/Phoenix	100,066	49,452	50,614	105,559	50,963	54,596	5,493	0.49
Curepipe	78,920	38,636	40,284	77,471	37,371	40,100	-1,449	-0.17
<i>Rural population</i>	<b>640,024</b>	<b>318,212</b>	<b>321,812</b>	<b>697,034</b>	<b>346,256</b>	<b>350,778</b>	<b>57,010</b>	<b>0.78</b>

<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 5.2 - Evolution of the population by geographical district and sex between the 2000 and 2011 Population Censuses**

Geographical district	2000 Census <sup>1</sup>			2011 Census <sup>1</sup>			Intercensal change	
	Both sexes	Male	Female	Both sexes	Male	Female	Number	Annual average (%)
Port Louis	127,855	63,458	64,397	118,431	58,615	59,816	-9,424	-0.69
Pamplemousses	122,252	60,533	61,719	136,268	67,898	68,370	14,016	0.99
Riviere du Rempart	98,854	49,116	49,738	106,267	52,672	53,595	7,413	0.66
Flacq	126,839	63,549	63,290	135,406	67,156	68,250	8,567	0.60
Grand Port	106,665	53,011	53,654	110,907	55,066	55,841	4,242	0.36
Savanne	66,356	32,787	33,569	67,906	33,485	34,421	1,550	0.21
Plaine Wilhems	358,182	175,852	182,330	362,292	176,603	185,689	4,110	0.10
Moka	75,479	37,275	38,204	82,302	40,910	41,392	6,823	0.79
Black River	60,587	30,475	30,112	76,604	38,539	38,065	16,017	2.16
<b>Island of Mauritius</b>	<b>1,143,069</b>	<b>566,056</b>	<b>577,013</b>	<b>1,196,383</b>	<b>590,944</b>	<b>605,439</b>	<b>53,314</b>	<b>0.42</b>

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

**Table 5.3 - Estimated resident population <sup>1</sup> by urban <sup>2</sup>/rural residence and sex - Republic of Mauritius, <sup>3</sup> 2017 & 2018**

(End of year estimates)						
Urban\Rural	31 <sup>st</sup> December 2017			31 <sup>st</sup> December 2018		
	Both sexes	Male	Female	Both sexes	Male	Female
<b>Island of Mauritius</b>	<b>1,222,217</b>	<b>604,899</b>	<b>617,318</b>	<b>1,222,208</b>	<b>604,923</b>	<b>617,285</b>
<b>Urban population</b>	<b>514,260</b>	<b>252,269</b>	<b>261,991</b>	<b>512,824</b>	<b>251,617</b>	<b>261,207</b>
- <i>Port Louis</i>	147,826	73,849	73,977	147,066	73,518	73,548
- <i>Beau Bassin/Rose Hill</i>	104,249	51,698	52,551	103,900	51,524	52,376
- <i>Quatre Bornes</i>	77,358	37,773	39,585	77,255	37,739	39,516
- <i>Vacoas/Phoenix</i>	106,091	51,219	54,872	105,985	51,192	54,793
- <i>Curepipe</i>	78,736	37,730	41,006	78,618	37,644	40,974
<b>Rural population</b>	<b>707,957</b>	<b>352,630</b>	<b>355,327</b>	<b>709,384</b>	<b>353,306</b>	<b>356,078</b>
<b>Island of Rodrigues <sup>4</sup></b>	<b>42,818</b>	<b>21,016</b>	<b>21,802</b>	<b>43,155</b>	<b>21,164</b>	<b>21,991</b>
<i>Urban population</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>	<i>Napp</i>
<i>Rural population</i>	42,818	21,016	21,802	43,155	21,164	21,991
<b>Republic of Mauritius</b>	<b>1,265,035</b>	<b>625,915</b>	<b>639,120</b>	<b>1,265,363</b>	<b>626,087</b>	<b>639,276</b>
<i>Urban population</i>	514,260	252,269	261,991	512,824	251,617	261,207
<i>Rural population</i>	750,775	373,646	377,129	752,539	374,470	378,069
Percentage Urban (Republic of Mauritius)	40.7			40.7		
Percentage Urban (Island of Mauritius)	42.1			42.0		

<sup>1</sup> Based on 2011 census data adjusted for underenumeration of young children. Internal migration within towns is assumed to be the same as the net annual internal migration during 2006 - 2011 (obtained from the 2011 Census)

<sup>2</sup> According to new boundaries as amended and gazetted in the Local Government Act 2011 (Act No. 36 of 2011) and the Representation of the People Act (GN no. 1 of 2012, 3rd January 2012)

<sup>3</sup> Excluding Agalega and St. Brandon

<sup>4</sup> Island of Rodrigues is completely rural

**Table 5.4 - Urban and rural area and population, Republic of Mauritius, 2011**

	<b>Area <sup>1</sup> (km<sup>2</sup>)</b>	<b>2011 Population Census</b>	<b>2011 Census Population Density (persons per km<sup>2</sup>)</b>
<b>Total Urban area</b>	<b>233.21</b>	<b>499,349</b>	<b>2,141</b>
<i>of which</i>			
- <i>Port Louis MVCA</i>	<i>61.02</i>	<i>137,608</i>	<i>2,255</i>
- <i>Beau Bassin/Rose Hill MVCA</i>	<i>21.30</i>	<i>103,098</i>	<i>4,840</i>
- <i>Quatre Bornes MVCA</i>	<i>21.32</i>	<i>75,613</i>	<i>3,547</i>
- <i>Vacoas/Phoenix MVCA</i>	<i>106.02</i>	<i>105,559</i>	<i>996</i>
- <i>Curepipe MVCA</i>	<i>23.55</i>	<i>77,471</i>	<i>3,290</i>
<b>Total Rural area</b>	<b>1,624.32</b>	<b>697,034</b>	<b>429</b>
<b>Island of Mauritius</b>	<b>1,857.53</b>	<b>1,196,383</b>	<b>644</b>
<b>Rodrigues</b>	<b>108.36</b>	40,434	373
<b>Total</b>	<b>1,965.89</b>	<b>1,236,817</b>	<b>629</b>

<sup>1</sup> Areas are based according to new boundaries as amended and gazetted in the Local Government Act 2011 (Act No. 36 of 2011) and the Representation of the People Act (GN no. 1 of 2012, 3rd January 2012)

**Table 5.5 - Population by geographical district and type of water supply, Republic of Mauritius, 2011 Housing Census**

Geographical district	Total	Type of water supply						
		Piped water			Tank-wagon	Well/River	Other	Not stated
		Inside housing unit	Outside, on premises	Outside, public fountain				
Port Louis	<b>117,198</b> (100%)	108,125 (92.3%)	8,350 (7.1%)	252 (0.2%)	16 (0.0%)	50 (0.0%)	396 (0.3%)	9 (0.0%)
Pamplemousses	<b>132,857</b> (100%)	125,483 (94.4%)	6,630 (5.0%)	351 (0.3%)	17 (0.0%)	50 (0.0%)	326 (0.4%)	0 (0.0%)
Riviere du Rempart	<b>105,774</b> (100%)	100,543 (95.1%)	4,963 (4.7%)	52 (0.1%)	2 (0.0%)	0 (0.0%)	214 (0.2%)	0 (0.0%)
Flacq	<b>135,389</b> (100%)	127,233 (94.0%)	7,703 (5.7%)	96 (0.1%)	0 (0.0%)	14 (0.0%)	336 (0.2%)	7 (0.0%)
Grand Port	<b>110,247</b> (100%)	105,688 (95.9%)	4,113 (3.7%)	42 (0.0%)	86 (0.1%)	56 (0.1%)	262 (0.2%)	0 (0.0%)
Savanne	<b>67,145</b> (100%)	63,261 (94.2%)	3,436 (5.1%)	144 (0.2%)	0 (0.0%)	22 (0.0%)	274 (0.4%)	8 (0.0%)
Plaine Wilhems	<b>352,148</b> (100%)	349,195 (99.2%)	2,650 (0.8%)	21 (0.0%)	11 (0.0%)	6 (0.0%)	240 (0.1%)	25 (0.0%)
Moka	<b>80,408</b> (100%)	78,298 (97.4%)	1,841 (2.3%)	72 (0.2%)	6 (0.0%)	53 (0.1%)	125 (0.2%)	13 (0.0%)
Black River	<b>73,872</b> (100%)	67,476 (91.3%)	5,808 (7.9%)	13 (0.0%)	0 (0.0%)	11 (0.0%)	549 (0.7%)	15 (0.0%)
<b>Island of Mauritius</b>	<b>1,175,038</b> (100%)	1,12,5302 (95.8%)	45,494 (3.9%)	1,043 (0.1%)	138 (0.0%)	262 (0.0%)	2,722 (0.2%)	77 (0.0%)
Rodrigues & Agalega	<b>40,132</b> (100%)	22,040 (54.9%)	16,022 (39.9%)	252 (0.6%)	119 (0.3%)	440 (1.1%)	1,258 (3.1%)	1 (0.0%)
<b>Total</b>	<b>1,215,170</b> (100%)	<b>1,147,342</b> (94.4%)	<b>61,516</b> (5.1%)	<b>1,295</b> (0.1%)	<b>257</b> (0.0%)	<b>702</b> (0.1%)	<b>3,980</b> (0.3%)	<b>78</b> (0.0%)
<i>of which Urban population</i>	<b>487,393</b> (100%)	474,885 (97.4%)	11,425 (2.3%)	273 (0.1%)	26 (0.0%)	79 (0.0%)	659 (0.1%)	46 (0.0%)
<i>Rural population</i>	<b>727,777</b> (100%)	672,457 (92.4%)	50,091 (6.9%)	1,022 (0.1%)	231 (0.0%)	623 (0.1%)	3,321 (0.5%)	32 (0.0%)

Note : Data excluding 27 homeless households with a population of 29.



**Table 5.6 - Population by geographical district and type of toilet facilities, Republic of Mauritius, 2011 Housing Census**

Geographical district	Total	Type of toilet facilities						
		Sewerage system	Absorption pit	Septic tank	Pit latrine (Water seal)	Pit latrine (Other)	Other	None/Not stated
Port Louis	<b>117,198</b> (100%)	101,419 (86.5%)	11,821 (10.1%)	2,140 (1.8%)	563 (0.5%)	1,022 (0.9%)	62 (0.1%)	171 (0.1%)
Pamplemousses	<b>132,857</b> (100%)	14,034 (10.6%)	103,439 (77.9%)	12,728 (9.6%)	1,372 (1.0%)	1,244 (0.9%)	1 (0.0%)	39 (0.0%)
Riviere du Rempart	<b>105,774</b> (100%)	5,014 (4.7%)	85,899 (81.2%)	12,906 (12.2%)	983 (0.9%)	848 (0.8%)	48 (0.0%)	76 (0.0%)
Flacq	<b>135,389</b> (100%)	0 (0.0%)	128,084 (94.6%)	4,211 (3.1%)	1765 (1.3%)	1227 (0.9%)	11 (0.0%)	91 (0.1%)
Grand Port	<b>110,247</b> (100%)	0 (0.0%)	97,225 (88.2%)	9,234 (8.4%)	2,274 (2.1%)	1,428 (1.3%)	1 (0.0%)	85 (0.0%)
Savanne	<b>67,145</b> (100%)	0 (0.0%)	62,131 (92.5%)	2,456 (3.7%)	1,351 (2.0%)	1,174 (1.7%)	7 (0.0%)	26 (0.0%)
Plaine Wilhems	<b>352,148</b> (100%)	131,216 (37.3%)	203,714 (57.8%)	15,416 (4.4%)	1,039 (0.3%)	647 (0.2%)	9 (0.0%)	107 (0.0%)
Moka	<b>80,408</b> (100%)	4,881 (6.1%)	69,999 (87.1%)	4,080 (5.1%)	748 (0.9%)	601 (0.7%)	10 (0.0%)	89 (0.1%)
Black River	<b>73,872</b> (100%)	108 (0.1%)	54,327 (73.5%)	15,375 (20.8%)	1,905 (2.6%)	2,011 (2.7%)	16 (0.0%)	130 (0.2%)
Rodrigues & Agalega	<b>40,132</b> (100%)	0 (0.0%)	17,387 (43.3%)	2,973 (7.4%)	388 (1.0%)	18,030 (44.9%)	16 (0.0%)	1,338 (3.3%)
<b>Total</b>	<b>1,215,170</b> (100%)	256,672 (21.1%)	834,026 (68.6%)	81,519 (6.7%)	12,388 (1.0%)	28,232 (2.3%)	181 (0.0%)	2,152 (0.2%)
<i>of which Urban population</i>	<b>487,393</b> (100.0%)	<b>231,810</b> (47.6%)	<b>232,146</b> (47.6%)	<b>19,597</b> (4.0%)	<b>1,779</b> (0.4%)	<b>1,667</b> (0.3%)	<b>71</b> (0.0%)	<b>323</b> (0.1%)
<i>Rural population</i>	<b>727,777</b> (100.0%)	24,862 (3.4%)	601,880 (82.7%)	61,921 (8.5%)	10,609 (1.4%)	26,565 (3.7%)	111 (0.0%)	1,829 (0.3%)

Note : Data excluding 27 homeless households with a population of 29.

**Table 5.7 - Population connected to sewerage system by geographical district, 2011 Housing Census**

Geographical district	Total	Connected to sewerage system		Not connected to sewerage system	
		Number	%	Number	%
Port Louis	117,198	101,419	86.5	15,779	13.5
Pamplemousses	132,857	14,034	10.6	118,823	89.4
Riviere du Rempart	105,774	5,014	4.7	100,760	95.3
Flacq	135,389	0	0.0	135,389	100.0
Grand Port	110,247	0	0.0	110,247	100.0
Savanne	67,145	0	0.0	67,145	100.0
Plaine Wilhems	352,148	131,216	37.3	220,932	62.7
Moka	80,408	4,881	6.1	75,527	93.9
Black River	73,872	108	0.1	73,764	99.9
Rodrigues & Agalega	40,132	0	0.0	40,132	100.0
<b>Total</b>	<b>1,215,170</b>	<b>256,672</b>	<b>21.1</b>	<b>958,498</b>	<b>78.9</b>
<i>of which Urban population</i>	<b>487,393</b>	231,810	<b>47.6</b>	255,583	<b>52.4</b>
<i>Rural population</i>	<b>727,777</b>	24,862	<b>3.4</b>	702,915	<b>96.6</b>

Note : Data excluding 27 homeless households with a population of 29.

**Table 5.8 - Population by geographical district and method of refuse disposal, Republic of Mauritius, 2011 Housing Census**

Geographical district	Total	Method of refuse disposal							
		Authorised collector		Ash pit	Dumped on premises	Dumped on roadside	Used for Compost	Other	Not stated
		Regular	Irregular						
Port Louis	<b>117,198</b> (100%)	114,770 (97.9%)	812 (0.7%)	440 (0.4%)	264 (0.2%)	781 (0.7%)	13 (0.0%)	90 (0.1%)	28 (0.0%)
Pamplemousses	<b>132,857</b> (100%)	120,696 (90.8%)	10,159 (7.6%)	742 (0.6%)	951 (0.7%)	259 (0.2%)	16 (0.0%)	28 (0.0%)	6 (0.0%)
Riviere du Rempart	<b>105,774</b> (100%)	99,997 (94.5%)	4,284 (4.1%)	642 (0.6%)	595 (0.6%)	209 (0.2%)	15 (0.0%)	32 (0.0%)	0 (0.0%)
Flacq	<b>135,389</b> (100%)	132,372 (97.8%)	1,478 (1.1%)	493 (0.4%)	460 (0.3%)	409 (0.3%)	47 (0.0%)	92 (0.1%)	38 (0.0%)
Grand Port	<b>110,247</b> (100%)	109,035 (98.9%)	819 (0.7%)	127 (0.1%)	135 (0.1%)	79 (0.1%)	16 (0.0%)	31 (0.0%)	5 (0.0%)
Savanne	<b>67,145</b> (100%)	66,459 (99.0%)	161 (0.2%)	249 (0.4%)	94 (0.1%)	42 (0.1%)	48 (0.1%)	87 (0.1%)	5 (0.0%)
Plaine Wilhems	<b>352,148</b> (100%)	349,845 (99.3%)	1,835 (0.5%)	102 (0.0%)	215 (0.1%)	24 (0.0%)	70 (0.0%)	29 (0.0%)	28 (0.0%)
Moka	<b>80,408</b> (100%)	79,409 (98.8%)	510 (0.6%)	139 (0.2%)	156 (0.2%)	109 (0.1%)	40 (0.0%)	26 (0.0%)	19 (0.0%)
Black River	<b>73,872</b> (100%)	73,051 (98.9%)	211 (0.3%)	182 (0.2%)	148 (0.2%)	220 (0.3%)	0 (0.0%)	23 (0.0%)	37 (0.1%)
Rodrigues & Agalega	<b>40,132</b> (100%)	24,406 (60.8%)	1,294 (3.2%)	9,996 (24.9%)	2,625 (6.5%)	595 (1.5%)	1,180 (2.9%)	36 (0.1%)	0 (0.0%)
<b>Total</b>	<b>1,215,170</b> (100%)	<b>1,170,040</b> (96.3%)	<b>21,563</b> (1.8%)	<b>13,112</b> (1.1%)	<b>5,643</b> (0.5%)	<b>2,727</b> (0.2%)	<b>1,445</b> (0.1%)	<b>474</b> (0.0%)	<b>166</b> (0.0%)
<i>of which Urban population</i>	<b>487,393</b> (100%)	482,558 (99.0%)	2,724 (0.6%)	583 (0.1%)	453 (0.1%)	817 (0.2%)	43 (0.0%)	126 (0.0%)	89 (0.0%)
<i>Rural population</i>	<b>727,777</b> (100%)	687,482 (94.5%)	18,839 (2.6%)	12,529 (1.7%)	5,190 (0.7%)	1,910 (0.3%)	1,402 (0.2%)	348 (0.0%)	77 (0.0%)

Note : Data excluding 27 homeless households with a population of 29.

Table 5.9 - Water sales by tariff of subscriber, 2017 - 2018

Type of tariff	2017								2018							
	Subscribers		Volume sold		Amount collectible		Average consumption (m <sup>3</sup> )	Average price per m <sup>3</sup>	Subscribers		Volume sold		Amount collectible		Average consumption (m <sup>3</sup> )	Average price per m <sup>3</sup>
	No.	%	Mm <sup>3</sup>	%	Rs million	%			No.	%	Mm <sup>3</sup>	%	Rs million	%		
Domestic	341,939	92.9	80.2	67.0	775.1	51.5	234.0	9.7	348,036	93.0	83.0	66.9	810.1	51.3	238.5	9.8
Public Sector Agency	2,575	0.7	4.0	3.3	96.1	6.4	1,551.0	24.1	2,573	0.7	4.1	3.3	98.2	6.2	1,588.2	24.0
Acquired / concessionary prizes	30	0.0	0.0135	0.0	0.2000	0.0	452.0	13.2	29	0.0	0.0	0.0	0.1	0.0	382.5	9.4
Business	1,216	0.3	7.8	6.5	268.8	17.9	6,413.0	34.5	1,270	0.3	8.4	6.8	289.5	18.3	6,617.4	34.5
Commercial	15,013	4.1	6.8	5.7	182.2	12.1	455.0	26.7	15,371	4.1	7.2	5.8	192.0	12.2	468.6	26.7
Religious	2,181	0.6	0.7	0.6	14.5	1.0	322.0	20.6	2,210	0.6	0.8	0.7	15.8	1.0	339.8	21.0
Industrial	544	0.1	3.7	3.1	67.9	4.5	6,866.0	18.2	529	0.1	3.7	3.0	67.0	4.3	6,960.5	18.2
Agriculture	4,111	1.1	1.4	1.2	21.2	1.4	343.0	15.1	4,169	1.1	1.5	1.2	22.0	1.4	356.0	14.8
<b>Total potable water</b>	<b>367,609</b>	<b>99.9</b>	<b>104.6</b>	<b>87.5</b>	<b>1426.0</b>	<b>94.8</b>	<b>284.6</b>	<b>13.6</b>	<b>374,187</b>	<b>99.9</b>	<b>108.7</b>	<b>87.7</b>	<b>1494.7</b>	<b>94.7</b>	<b>290.3</b>	<b>13.8</b>
<b>Total non-treated water (Mainly for Agriculture and Industry)</b>	<b>387</b>	<b>0.1</b>	<b>14.9</b>	<b>12.5</b>	<b>78.0</b>	<b>5.2</b>	<b>38,625.0</b>	<b>5.2</b>	<b>395</b>	<b>0.1</b>	<b>15.3</b>	<b>12.3</b>	<b>83.8</b>	<b>5.3</b>	<b>38,611.5</b>	<b>5.5</b>
<b>Grand Total</b>	<b>367,996</b>	<b>100.0</b>	<b>119.5</b>	<b>100.0</b>	<b>1504.0</b>	<b>100.0</b>	<b>325.0</b>	<b>12.6</b>	<b>374,582</b>	<b>100.0</b>	<b>124.0</b>	<b>100.0</b>	<b>1578.5</b>	<b>100.0</b>	<b>330.7</b>	<b>12.7</b>

Source: Central Water Authority

**Table 5.10 - Population with access to electricity by geographical district, Republic of Mauritius, 2011 Housing Census**

Geographical district	Total	Electricity			
		Available		Not available	
		Number	%	Number	%
Port Louis	117,198	116,484	99.4	707	0.6
Pamplemousses	132,857	132,183	99.5	674	0.5
Riviere du Rempart	105,774	105,573	99.8	201	0.2
Flacq	135,389	134,969	99.7	419	0.3
Grand Port	110,247	109,883	99.7	364	0.3
Savanne	67,145	66,950	99.7	195	0.3
Plaine Wilhems	352,148	351,795	99.9	339	0.1
Moka	80,408	80,227	99.8	180	0.2
Black River	73,872	73,480	99.5	392	0.5
Rodrigues & Agalega	40,132	38,734	96.5	1,398	3.5
<b>Total</b>	<b>1,215,170</b>	<b>1,210,278</b>	<b>99.6</b>	<b>4,869</b>	<b>0.4</b>

Note :Data exclude 27 homeless households with a population of 29.

**Table 5.11 - Sales of electricity by type of tariff, Republic of Mauritius, 2017 - 2018**

Type of tariff	2017				2018			
	No. of consumers	Sales (MWh)	Value sold (Rs. Mn)	Average sales price <sup>1</sup> per kWh (Rupees)	No. of consumers	Sales (MWh)	Value sold (Rs. Mn)	Average sales price <sup>1</sup> per kWh (Rupees)
Domestic	420,876	872,699	5,036	5.77	428,569	899,306	5,226	5.81
Commercial	42,761	951,958	6,964	7.32	43,398	954,289	6,995	7.33
Industrial	6,353	755,254	2,670	3.53	5,696	740,503	2,631	3.55
<i>of which: irrigation</i>	<i>697</i>	<i>23,376</i>	<i>65</i>	<i>2.78</i>	<i>724</i>	<i>18,647</i>	<i>52</i>	<i>2.80</i>
Other	676	38,212	298	7.81	724	37,501	294	7.83
<b>Total</b>	<b>470,666</b>	<b>2,618,123</b>	<b>14,968</b>	<b>5.72</b>	<b>479,111</b>	<b>2,650,246</b>	<b>15,198</b>	<b>5.73</b>

<sup>1</sup> Excluding VAT & meter rent

Source: Central Electricity Board

**Table 5.12 - Number of buildings by type, Republic of Mauritius, 2000 and 2011 Housing Censuses**

Building Type	Housing Census		%	
	2000	2011	2000	2011
Under construction and not inhabited	12,110	13,027	4.5	4.1
Wholly residential	228,977	261,612	85.4	84.0
Partly residential	11,418	17,130	4.3	5.5
Hotels, Tourist residence and Guest house	367	1,162	0.1	0.4
Institutions	148	194	0.0	0.1
Non-residential	15,282	18,405	5.7	5.9
<b>All buildings</b>	<b>268,302</b>	<b>311,530</b>	<b>100.0</b>	<b>100.0</b>

**Table 5.13 - Residential and partly residential buildings <sup>1</sup> by type, Republic of Mauritius <sup>2</sup>, 2000 and 2011 Housing Censuses**

Type of building	Number		%	
	2000	2011	2000	2011
Building used as one housing unit (Separate houses)	193,391	213,944	81.0	77.0
Semi-detached houses and block of flats	27,507	45,166	11.5	16.2
Partly residential buildings	11,418	17,130	4.8	6.2
Other dwellings	6,612	1,773	2.7	0.6
<b>Total</b>	<b>238,928</b>	<b>278,013</b>	<b>100.0</b>	<b>100.0</b>

<sup>1</sup> Figures exclude detached rooms (1,500 for 2000 and 729 for 2011), used as part of household<sup>2</sup> Includes Agalega

**Table 5.14 - Number of improvised <sup>1</sup> housing units and population by geographical district, Republic of Mauritius, 2000 and 2011 Housing Censuses**

Geographical district	2000 Census		2011 Census	
	Housing units	Population	Housing units	Population
Port Louis	97	346	79	274
Pamplemousses	44	135	21	62
Riviere du Rempart	15	53	3	10
Flacq	19	41	6	12
Grand Port	15	32	5	11
Savanne	5	20	8	19
Plaine Wilhems	39	101	17	48
Moka	18	52	4	14
Black River	31	127	6	29
Rodrigues	3	11	1	4
<b>Republic of Mauritius</b>	<b>286</b>	<b>918</b>	<b>150</b>	<b>483</b>

<sup>1</sup> An improvised housing unit is an independent, makeshift shelter or structure, built of waste materials and without a predetermined plan for the purpose of habitation by one household, which is being used as living quarters at the time of the census.



**Table 5.15 - Residential and partly residential buildings<sup>1</sup> by type of wall and roof materials, Republic of Mauritius, 2000 and 2011 Housing Censuses.**

Type of construction materials	Number				Change 2000 - 2011	
	2000		2011			
	Number	%	Number	%	Number	%
Concrete walls and roof	206,210	86.3	255,746	92.0	49,536	24.0
Concrete walls and iron/tin roof	9,416	4.0	7,440	2.7	-1,976	-21.0
Iron/tin walls and roof	19,345	8.1	12,608	4.5	-6,737	-34.8
Wood walls and iron/tin/shingle roof	2,198	0.9	1,025	0.4	-1,173	-53.4
Other	1,759	0.7	1,194	0.4	-565	-32.1
<b>Total</b>	<b>238,928</b>	<b>100.0</b>	<b>278,013</b>	<b>100.0</b>	<b>39,085</b>	<b>16.4</b>

<sup>1</sup> Figures exclude detached rooms (1,500 for 2000 and 729 for 2011), used as part of household

**Table 5.16 - Distribution of housing units by occupancy status, Republic of Mauritius, 2000 and 2011 Housing Censuses**

Type of occupancy	2000		2011	
	Number	%	Number	%
Housing units occupied as :				
Principal residence	<b>278,226</b>	<b>93.5</b>	<b>325,759</b>	<b>90.7</b>
Secondary residence	<b>3,932</b>	<b>1.3</b>	<b>5,271</b>	<b>1.5</b>
Total vacant housing units	<b>15,513</b>	<b>5.2</b>	<b>27,985</b>	<b>7.8</b>
<i>For rent</i>	<i>6,103</i>	<i>2.1</i>	<i>7,467</i>	<i>2.1</i>
<i>For sale</i>	<i>2,560</i>	<i>0.9</i>	<i>1,460</i>	<i>0.4</i>
<i>Provided by employer</i>	<i>637</i>	<i>0.2</i>	<i>438</i>	<i>0.1</i>
<i>Under repairs</i>	<i>1,124</i>	<i>0.4</i>	<i>1,732</i>	<i>0.5</i>
<i>Not stated</i>	<i>5,089</i>	<i>1.7</i>	<i>16,888</i>	<i>4.7</i>
<b>Total</b>	<b>297,671</b>	<b>100.0</b>	<b>359,015</b>	<b>100.0</b>

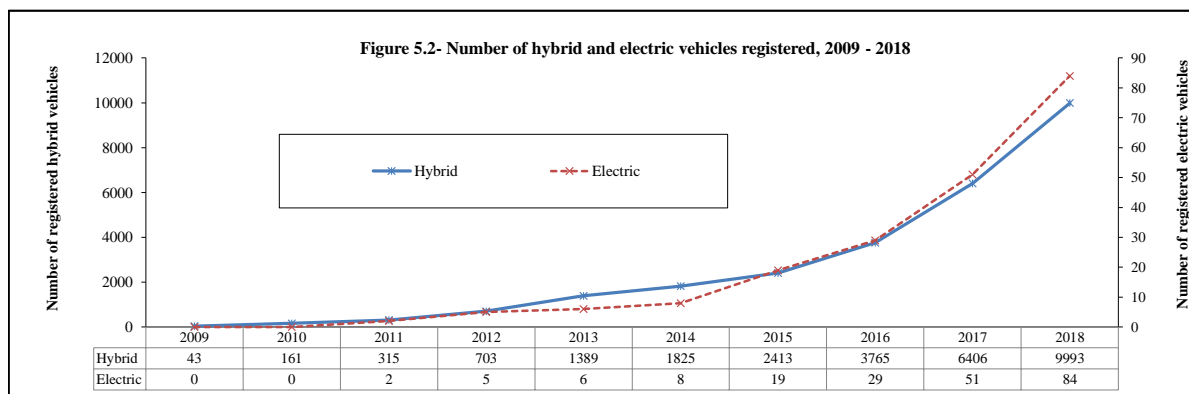
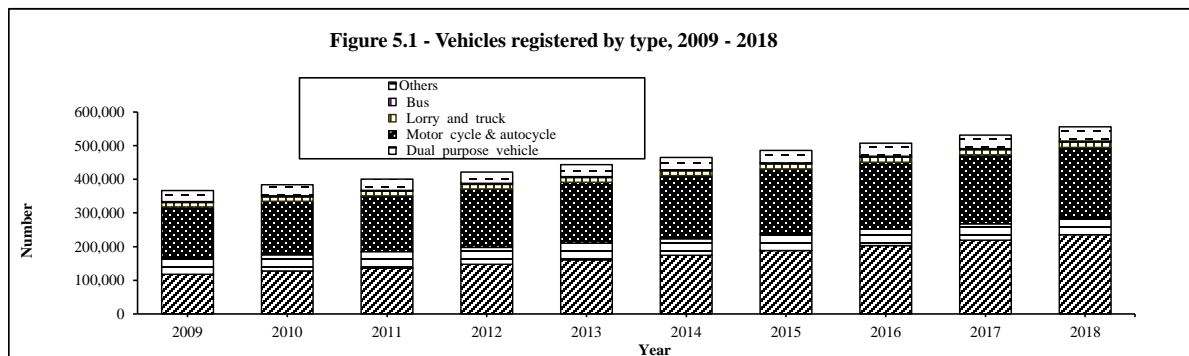
Table 5.17 - Vehicles <sup>1</sup> registered by type, 2009 - 2018

Type of vehicle	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Car	117,890	127,363	136,226	147,733	160,701	173,954	188,299	202,696	218,976	235,598
(of which taxi car)	6,921	6,924	6,907	6,905	6,915	6,911	6,907	6,905	6,909	6,907
Dual purpose vehicle	47,146	48,271	49,132	50,116	49,730	49,503	49,301	48,961	48,603	48,200
Double cab pickup <sup>2</sup>	-	-	-	-	1,155	2,065	2,689	3,542	4,634	5,878
Heavy motor car	1,275	1,249	1,230	1,244	1,250	1,271	1,284	1,316	1,345	1,367
Motor cycle	44,222	48,655	53,409	59,637	65,827	72,067	77,603	82,746	88,360	93,636
Auto cycle	108,713	110,674	112,296	113,871	114,958	115,784	116,085	116,653	117,133	117,489
Lorry and truck	12,950	13,186	13,539	13,902	14,061	14,243	14,372	14,645	15,024	15,505
Van	25,622	25,914	26,090	26,293	26,624	26,890	27,229	27,656	28,121	28,506
Bus	2,803	2,845	2,912	2,957	2,963	3,006	2,980	3,107	3,101	3,086
Tractor and dumper	3,102	3,119	3,173	3,202	3,226	3,254	3,244	3,251	3,277	3,351
Prime mover	558	596	650	689	715	734	774	817	873	947
Trailer	1,823	1,821	1,834	1,845	1,846	1,842	1,850	1,853	1,913	1,999
Road roller	97	98	99	101	102	103	103	105	109	110
Other	319	324	329	336	337	336	331	328	328	329
<b>Total</b>	<b>366,520</b>	<b>384,115</b>	<b>400,919</b>	<b>421,926</b>	<b>443,495</b>	<b>465,052</b>	<b>486,144</b>	<b>507,676</b>	<b>531,797</b>	<b>556,001</b>
<i>of which</i>										
<i>hybrid vehicles</i>	43	161	315	703	1,389	1,825	2,413	3,765	6,406	9,993
<i>electric vehicles</i>	NA	NA	2	5	6	8	19	29	51	84

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

<sup>2</sup> New category of vehicle defined in Road Traffic Act as amended by Act NO. 27 of 2012.

Note: Prior to the year 2013, 'Double cab pickup' was included in 'Dual purpose vehicle'



Source: National Transport Authority

Table 5.18 - Road network, 2009 - 2018

Year	Length of roads ( km )					% of roads paved	Density of total network in km per sq km <sup>1</sup>	Number of vehicles per km of road
	Motorways	Main roads	Secondary roads	Other roads	Total			
2009	75	1,000	593	398	2,066	98	1.11	177
2010	75	1,014	593	398	2,080	98	1.12	185
2011	82	1,035	595	400	2,112	98	1.13	190
2012	86	1,068	608	408	2,170	98	1.16	194
2013	99	1,131	625	420	2,275	98	1.22	195
2014	99	1,131	673	453	2,356	98	1.26	197
2015	99	1,131	716	482	2,428	98	1.30	200
2016	100	1,137	756	509	2,502	98	1.34	203
2017 <sup>2</sup>	100	1,192	833	561	2,686	98	1.44	202
2018	104	1,140	871	586	2,701	98	1.45	206

<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

<sup>2</sup> Revised

**Table 5.19 - Respiratory diseases registered in government hospitals, 2009 - 2018**

Year	General hospital discharges ( including deaths )			First attendances at regional health centres			Discharges ( including deaths ) at Poudre D'Or chest hospital <sup>1</sup>			New cases diagnosed at specialist clinics in chest diseases		
	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes	Male	Female	Both sexes
2009	8,311	7,903	16,214	247,318	270,233	517,551	469	204	673	340	317	657
2010	7,727	7,469	15,196	223,242	244,812	468,054	834	375	1,209	432	393	825
2011	8,082	8,005	16,087	260,946	285,527	546,473	760	433	1,193	434	382	816
2012	8,564	8,549	17,113	274,605	296,318	570,923	578	321	899	516	465	981
2013	7,970	8,707	16,677	280,934	299,685	580,619	641	371	1,012	565	521	1,086
2014	8,469	8,719	17,188	283,936	299,720	583,656	430	225	655	433	427	860
2015	8,025	8,006	16,031	272,745	289,430	562,175	423	232	655	653	561	1,214
2016	8,251	8,857	17,108	308,894	327,747	636,641	297	162	459	591	574	1,165
2017	7,463	7,843	15,309	311,044	323,619	634,663	318	174	492	452	415	867
2018	7,782	8,578	16,360	317,405	337,326	654,731	315	220	535	620	550	1,170

Source : Statistics Unit, Ministry of Health and Wellness

<sup>1</sup> Prior to 2010, figures exclude transfer-out patients

**Table 5.20 - Admissions due to certain respiratory diseases by sex in government general hospitals, 2012 - 2018**

Disease	Sex	2012	2013	2014	2015	2016	2017	2018
Acute upper respiratory infections	Male	3,624	3,095	3,673	2,918	3,121	2,482	2,554
	Female	3,479	3,199	3,671	2,882	3,305	2,504	2,524
	<b>Total</b>	<b>7,103</b>	<b>6,294</b>	<b>7,344</b>	<b>5,800</b>	<b>6,426</b>	<b>4,986</b>	<b>5,078</b>
Acute bronchitis and bronchiolitis	Male	822	1,077	1,135	1,351	1,123	1,276	1,253
	Female	647	1,026	954	1,154	1,105	1,188	1,378
	<b>Total</b>	<b>1,469</b>	<b>2,103</b>	<b>2,089</b>	<b>2,505</b>	<b>2,228</b>	<b>2,464</b>	<b>2,631</b>
Pneumonia	Male	280	353	368	331	436	386	415
	Female	276	365	368	335	385	336	397
	<b>Total</b>	<b>556</b>	<b>718</b>	<b>736</b>	<b>666</b>	<b>821</b>	<b>722</b>	<b>812</b>
Bronchitis, emphysema and other chronic obstructive pulmonary diseases	Male	914	820	765	669	892	686	864
	Female	816	895	626	509	758	640	668
	<b>Total</b>	<b>1,730</b>	<b>1,715</b>	<b>1,391</b>	<b>1,178</b>	<b>1,650</b>	<b>1,326</b>	<b>1,532</b>
Asthma	Male	1,098	1,059	1,020	1,061	835	859	772
	Female	1,403	1,431	1,356	1,305	1,246	1,128	1,288
	<b>Total</b>	<b>2,501</b>	<b>2,490</b>	<b>2,376</b>	<b>2,366</b>	<b>2,081</b>	<b>1,987</b>	<b>2,060</b>

Source : Statistics Unit, Ministry of Health and Wellness

**Table 5.21- Cases of asthma treated as in-patients in government hospitals, 2009 - 2018**

Year	In-Patients		
	Male	Female	Total
2009	1,282 (48.0%)	1,387 (52.0%)	2,669
2010	1,211 (47.2%)	1,354 (52.8%)	2,565
2011	1,238 (44.9%)	1,518 (55.1%)	2,756
2012	1,098 (43.9%)	1,403 (56.1%)	2,501
2013	1,059 (42.5%)	1,431 (57.5%)	2,490
2014	1,020 (42.9%)	1,356 (57.1%)	2,376
2015	1,061 (44.8%)	1,305 (55.2%)	2,366
2016	835 (40.1%)	1,246 (59.9%)	2,081
2017	859 (43.2%)	1,128(56.8%)	1,987
2018	772 (37.5%)	1,288 (62.5%)	2,060

Source : Statistics Unit, Ministry of Health and Wellness

**Table 5.22 - Deaths registered due to asthma, 2009 - 2018**

Year	Deaths		
	Male	Female	Total
2009	105	79	184
2010	61	86	147
2011	60	55	115
2012	53	61	114
2013	60	54	114
2014	68	64	132
2015	49	37	86
2016	29	42	71
2017	53	46	99
2018	45	55	100

Source : Statistics Unit, Ministry of Health and Wellness

**Table 5.23 - Cases of asthma treated as in-patients in government hospitals by age group and sex, 2017 - 2018**

Age group ( years )	Number of cases					
	Male		Female		Total	
	2017	2018	2017	2018	2017	2018
Less than one year	8	7	4	0	12	7
1 - 4	95	43	39	19	134	62
5 - 9	108	55	63	39	171	94
10 - 14	71	61	46	47	117	108
15 - 19	22	23	40	51	62	74
20 - 24	30	30	45	43	75	73
25 - 29	25	34	34	31	59	65
30 - 34	30	38	24	31	54	69
35 - 39	20	26	36	53	56	79
40 - 44	24	27	28	50	52	77
45 - 49	34	28	55	67	89	95
50 - 54	50	52	103	94	153	146
55 - 59	49	48	93	112	142	160
60 - 64	63	68	113	139	176	207
65 - 69	70	79	119	140	189	219
70 - 74	63	54	111	135	174	189
75 - 79	43	41	80	109	123	150
80 - 84	34	31	56	78	90	109
85 and over	20	27	39	50	59	77
<b>Total</b>	<b>859</b>	<b>772</b>	<b>1,128</b>	<b>1,288</b>	<b>1,987</b>	<b>2,060</b>

Source : Statistics Unit, Ministry of Health and Wellness

**Table 5.24- Enteritis and other diarrhoeal diseases, 2009 - 2018**

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
2009	545	1,220	722	2,989	<b>5,476</b>	1	2	0	22	<b>25</b>
2010	513	1,482	830	3,073	<b>5,898</b>	1	1	0	26	<b>28</b>
2011	646	1,467	965	4,061	<b>7,139</b>	1	3	0	23	<b>27</b>
2012	406	827	838	3,590	<b>5,661</b>	2	0	1	29	<b>32</b>
2013	615	1,758	1,156	3,991	<b>7,520</b>	2	2	0	33	<b>37</b>
2014	389	1,078	930	3,539	<b>5,936</b>	0	0	0	18	<b>18</b>
2015	368	973	862	3,652	<b>5,855</b>	1	1	0	12	<b>14</b>
2016	265	910	680	3,571	<b>5,426</b>	1	1	0	14	<b>16</b>
2017	185	416	512	3,035	<b>4,148</b>	0	0	0	15	<b>15</b>
2018	154	474	515	3,351	<b>4,494</b>	0	1	0	17	<b>18</b>

Source : Statistics Unit, Ministry of Health and Wellness



**Table 5.25 - New cases of certain notifiable diseases reported to sanitary authorities, 2009 - 2018**

		Number					
Disease  Year	Water borne diseases	Food borne diseases		Mosquito borne diseases			Mammal borne disease
	Amoebiasis (gastroenteritis)	Typhoid	Food poisoning	Malaria <sup>1</sup>	Dengue	Chickunguya	Leptospirosis
2009	0	5	718	23	252 <sup>2</sup>	0	7
2010	0	3	156	52	11 <sup>1</sup>	5 <sup>1</sup>	28
2011	0	5	445	54	8 <sup>1</sup>	1	17
2012	0	4	264	33	13 <sup>1</sup>	1	16
2013	0	5	390	49	19 <sup>1</sup>	0	25
2014	0	1	169	20	64 <sup>2</sup>	2	16
2015	1	1	82	32	91	0	30
2016	0	2	147	25	24	7	17
2017	0	0	208	28	13	3	23
2018	0	4	65	41	6	1	18

Source : Statistics Unit, Ministry of Health and Wellness

<sup>1</sup> All imported/introduced cases

<sup>2</sup> Including locally transmitted cases

Note: No new cases of schistosomiasis have been reported from 2008 - 2017

**Table 5.26 - Incidence rate <sup>1</sup> of selected notifiable diseases reported to sanitary authorities, 2009 - 2018**

Disease		2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Malaria	Number of cases	23	52	54	33	49	20	32	25	28	41
	Incidence rate	1.8	4.2	4.3	2.6	3.9	1.6	2.5	2.0	2.2	3.2
Pulmonary tuberculosis	Number of cases	113	117	113	128	122	119	128	118	119	123
	Incidence rate	9.1	9.4	9.0	10.2	9.7	9.4	10.1	9.3	9.4	9.7
Food poisoning	Number of cases	718	156	445	264	390	169	82	147	208	65
	Incidence rate	57.6	12.5	35.5	21.0	31.0	13.4	6.5	11.6	16.4	5.1

<sup>1</sup> per 100,000 mid-year population

Source : Statistics Unit, Ministry of Health and Wellness

**Table 5.27 - Death due to selected diseases , 2009 - 2018**

Cause of death	Number of deaths									
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Cancers	1,085	1,033	1,022	1,159	1,233	1,186	1,263	1,265	1,371	1,351
Chronic respiratory diseases	236	239	190	199	214	230	175	159	194	197

Source : Statistics Unit, Ministry of Health and Wellness

**Table 5.28 - First attendances for the treatment of gastro-enteritis at community hospitals, medi-clinics, area health centres and community health centres, by sex, 2009 - 2018**

Sex	Number of cases									
	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Male	27,102	28,834	30,685	29,901	31,351	30,586	37,781	34,724	39,528	41,108
Female	28,536	30,171	32,108	30,347	31,476	30,135	38,909	35,368	40,261	41,906
<b>Total</b>	<b>55,638</b>	<b>59,005</b>	<b>62,793</b>	<b>60,248</b>	<b>62,827</b>	<b>60,721</b>	<b>76,690</b>	<b>70,092</b>	<b>79,789</b>	<b>83,014</b>

Source : Statistics Unit, Ministry of Health and Wellness

**COMPONENT 6**

**ENVIRONMENT PROTECTION, MANAGEMENT AND  
ENGAGEMENT**

**Table 6.1 - Annual Government Expenditure on environmental protection (Budgetary Central Government<sup>1</sup>) 2012 - 2014<sup>2</sup>, 2015/2016<sup>3</sup>, 2016/2017<sup>3</sup> and 2017/18<sup>3</sup>**

<b>Rs Million</b>						
<b>Expenditure</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015/16</b>	<b>2016/17</b>	<b>2017/18</b>
Expenses (Recurrent)	1,085.3	1,058.2	981.2	1184.9 <sup>4</sup>	1134.6 <sup>4</sup>	1,125.2
Acquisition of non-financial assets (Investment)	1,508.8	234.5	347.5	425.5 <sup>4</sup>	235.3	204.1
<b>Total Expenditure</b>	<b>2,594.1</b>	<b>1,292.7</b>	<b>1,328.7</b>	<b>1,610.4</b>	<b>1,369.9</b>	<b>1,329.3</b>

<sup>1</sup> Budgetary Central Government refers to Ministries and Departments.

<sup>2</sup> Programme 405 - Land Drainage and Watershed Management; Programme 444 - Sanitation; Programme 445 - Radiation Protection; Programme 463 - Solid Waste Management, Landscaping and Beach Management, Programme 486 - Native Terrestrial Biodiversity and Conservation

<sup>3</sup> Vote 24 -105 Solid & Hazardous Waste and Beach Management; Vote 24 - 106 - National Disaster Risk Reduction

<sup>4</sup> Revised

**Table 6.2 - Annual budget of the Ministry of Environment, Solid Waste Management and Climate Change - 2012 - 2017/18**

<b>Rs Million</b>						
<b>Budget allocation</b>	<b>2012</b>	<b>2013</b>	<b>2014</b>	<b>2015/16</b>	<b>2016/17</b>	<b>2017/18</b>
Compensation of Employees	196.3	219.8	234.5	251.8	274.4	270.7
Goods & Services	186.5	89.5	570.3	600.1	601.2	701.6
Grants	2.1	102.1	28.6	57.6	60.9	75.8
Other Expenses	0.0	0.0	0.0	179.7	103.8	17.5
Acquisition of non-financial assets	196.0	164.4	330.2	411.3	201.8	190.4
<b>Total</b>	<b>580.9</b>	<b>575.8</b>	<b>1,163.6</b>	<b>1,500.5</b>	<b>1,242.1</b>	<b>1,256.0</b>
<b>No of Employees</b>	<b>854</b>	<b>726</b>	<b>742</b>	<b>748</b>	<b>794</b>	<b>794</b>

Source: Ministry of Environment, Solid Waste Management and Climate Change

**Table 6.3 - Amount collected on environment protection fee, 2010 - 2017/18**

Year	Amount (Rs)
2010	141,350,514
2011	302,151,797
2012	144,533,859
2013	130,278,990
2014	159,461,475
2015/2016	402,607,080
2016/2017	382,504,623
2017/2018	400,045,837

**Table 6.4 - Main environmental authority, 2018**

Main Environmental Authority	Ministry of Environment, Solid Waste Management and Climate Change
Year of establishment	The Department of Environment was established in 1989
Mission	<ul style="list-style-type: none"> <li>- Devise appropriate legal and policy framework regarding environment related issues such as climate change, solid and hazardous waste management, disaster risk reduction and beach management to effectively respond to emerging challenges</li> <li>- Incorporate climate change adaptation and mitigation measures to ensure sustainable development initiatives</li> <li>- Preserve our beaches through integrated coastal zone management</li> <li>- Devise effective waste management policy to minimize the negative impacts of solid and hazardous wastes</li> <li>- Ensure effective disaster preparedness and response to enhance the safety and security of the citizens</li> </ul>
Vision	To achieve a “cleaner, greener and safer Mauritius” in a sustainable manner, through protection and management of our environmental assets, mainstreaming sustainable development principles in different sectors of the economy, solid and hazardous waste management, enhanced resilience to disasters, and conservation and rehabilitation of beaches.
Environment Protection Act <a href="http://environment.govmu.org/English/Documents/EPA%20as%20amended%20in%202017.pdf">http://environment.govmu.org/English/Documents/EPA%20as%20amended%20in%202017.pdf</a>	First enacted in 1991, thoroughly reviewed in 2002 and amended in 2008 in response to emerging challenges. The act provides for the protection and management of the environmental assets of Mauritius so that their capacity to sustain the society and its development remains unimpaired and to foster harmony between quality of life, environmental protection and sustainable development for the present and future generations; more specifically to provide for the legal framework and the mechanism to protect the natural environment, to plan for environmental management and to coordinate the inter-relations of environmental issues, and to ensure the proper implementation of governmental policies and enforcement provisions necessary for the protection of human health and the environment of Mauritius.
Services	<ul style="list-style-type: none"> <li>- Processing of Preliminary Environment Report (PER) and Environment Impact Assessment (EIA) report</li> <li>- Advise industrialists and public on appropriate pollution abatement measures</li> <li>- Attending complaints made by the public regarding environmental pollution</li> <li>- Public awareness and environmental education</li> <li>- Infrastructure upgrading and enhancement of the environment</li> <li>- Rehabilitation and preservation of our national heritage sites</li> <li>- Public access to environmental information</li> <li>- Non Governmental Organisation desk</li> </ul>

Source: Ministry of Environment, Solid Waste Management and Climate Change

**Table 6.5 - Environmental Standards and Regulations under the Environment Protection Act 2002**

Act	Act No.	Link address
<p>Environment Protection Act 2002: The Environment Protection Act 2002 (EPA) is the main legal framework for the overall protection and management of the environment pollution control. Sections 37- 48 and 96 of the EPA make provision for making environmental standards and regulations to maintain and preserve the quality of environment by regulating pollutants discharged into the air, onto land and in water bodies. Standards have been prescribed as regulations under the EPA on air, noise, effluent, water, waste (hazardous wastes, used oil, industrial waste) and plastics (PET bottles and plastic bags).</p>	19 of 2002	<a href="http://environment.govmu.org/English/Documents/EPA%20as%20amended%20in%202017.pdf">http://environment.govmu.org/English/Documents/EPA%20as%20amended%20in%202017.pdf</a>
Standards and Regulations	GN No.	Link address
1. Environment Protection (Drinking Water Standards) Regulations 1996	55 of 1996	<a href="http://environment.govmu.org/English/Documents/regulations/Drinking%20water%20standards%20(GN%20No.%2055%20of%201996).pdf">http://environment.govmu.org/English/Documents/regulations/Drinking%20water%20standards%20(GN%20No.%2055%20of%201996).pdf</a>
2. Environment Protection (Environment Standards for Noise) Regulations 1997	17 of 1997	<a href="http://environment.govmu.org/English/Documents/regulations/Environmental%20standards%20for%20noise%20(GN%20No.%2017%20of%201997).pdf">http://environment.govmu.org/English/Documents/regulations/Environmental%20standards%20for%20noise%20(GN%20No.%2017%20of%201997).pdf</a>
3. Environment Protection (Effluent Limitations for the Sugar Industry) Regulations 1997	34 of 1997	<a href="http://environment.govmu.org/English/Documents/regulations/effluent%20sugar%20cane%201999.pdf">http://environment.govmu.org/English/Documents/regulations/effluent%20sugar%20cane%201999.pdf</a>
4. Environment Protection (Standards for Air ) Regulations 1998	105 of 1998	<a href="http://environment.govmu.org/English/Documents/regulations/standards%20for%20Air(GN%20No.%20105%20of%201998).doc">http://environment.govmu.org/English/Documents/regulations/standards%20for%20Air(GN%20No.%20105%20of%201998).doc</a>
5. Environment Protection (Standards for Hazardous Wastes) Regulations 2001	157 of 2001	<a href="http://environment.govmu.org/English/Documents/regulations/Hazardous%20wastes%20regs%20(GN%20No157%20of%202001)(2).pdf">http://environment.govmu.org/English/Documents/regulations/Hazardous%20wastes%20regs%20(GN%20No157%20of%202001)(2).pdf</a>
6. Environment Protection (Standards for Effluent for use in Irrigation) Regulations 2003	46 of 2003	<a href="http://environment.govmu.org/English/Documents/regulations/effluent%20for%20use%20in%20irrigation%20Regs%20(GN%20No.%2046%20of%202003).pdf">http://environment.govmu.org/English/Documents/regulations/effluent%20for%20use%20in%20irrigation%20Regs%20(GN%20No.%2046%20of%202003).pdf</a>
7. Environment Protection (Effluent Discharge Permit) Regulations 2003	43 of 2003	<a href="http://environment.govmu.org/English/Documents/regulations/Effluent%20discharge%20permit%20consolidated%20version.pdf">http://environment.govmu.org/English/Documents/regulations/Effluent%20discharge%20permit%20consolidated%20version.pdf</a>
8. Environment Protection (Standards for Effluent Discharge) Regulations 2003	44 of 2003	<a href="http://environment.govmu.org/English/Documents/regulations/standards%20for%20effluent%20discharge.pdf">http://environment.govmu.org/English/Documents/regulations/standards%20for%20effluent%20discharge.pdf</a>

Source: Ministry of Environment, Solid Waste Management and Climate Change



**Table 6.5 (cont'd) - Environmental Standards and Regulations under the Environment Protection Act 2002**

Standards and Regulations	GN No.	Link address
9. Environment Protection (PET Bottles Permit) Regulations 2001	33 of 2001	<a href="http://environment.govmu.org/English/Documents/regulations/Environment%20Protection%20(Polyethelene%20Terephthalate%20(PET)%20Bottle%20Permit)%20Regulations%202001.pdf">http://environment.govmu.org/English/Documents/regulations/Environment%20Protection%20(Polyethelene%20Terephthalate%20(PET)%20Bottle%20Permit)%20Regulations%202001.pdf</a>
10. Environment Protection (Effluent Discharge Permit) Regulations 2003	43 of 2003	<a href="http://environment.govmu.org/English/Documents/regulations/Effluent%20discharge%20permit%20consolidated%20version.pdf">http://environment.govmu.org/English/Documents/regulations/Effluent%20discharge%20permit%20consolidated%20version.pdf</a>
11. Environment Protection (Standards for effluent discharge into Ocean 2003) Regulations 2003	45 of 2003	<a href="http://environment.govmu.org/English/Documents/regulations/effluents%20to%20ocean%202003.pdf">http://environment.govmu.org/English/Documents/regulations/effluents%20to%20ocean%202003.pdf</a>
12. Environment Protection (Collection, Storage, Treatment, Use and Disposal of Waste Oil) Regulations 2006	208 of 2006	<a href="http://environment.govmu.org/English/Documents/regulations/Environment%20Protection%20(Waste%20Oil)%20Regulations%202006%20(208%20of%202006).pdf">http://environment.govmu.org/English/Documents/regulations/Environment%20Protection%20(Waste%20Oil)%20Regulations%202006%20(208%20of%202006).pdf</a>
13. Environment Protection (Control of Noise) Regulations 2008	114 of 2008	<a href="http://environment.govmu.org/English/Documents/regulations/EP%20(Control%20of%20Noise)%20Regulations%202008%20(114%20of%202008).pdf">http://environment.govmu.org/English/Documents/regulations/EP%20(Control%20of%20Noise)%20Regulations%202008%20(114%20of%202008).pdf</a>
14. Environment Protection (Industrial Waste Audit) Regulations 2008	255 of 2008	<a href="http://environment.govmu.org/English/Documents/regulations/Industrial%20waste%20audit%202008%20(182%20of%202008).pdf">http://environment.govmu.org/English/Documents/regulations/Industrial%20waste%20audit%202008%20(182%20of%202008).pdf</a>
15. Environment Protection (Banning of plastic bags) Regulations 2015	153 of 2015	<a href="http://environment.govmu.org/English/Documents/regulations/Environment%20Protection%20(Banning%20of%20Plastic%20Bags)%20Regulations%202015.pdf">http://environment.govmu.org/English/Documents/regulations/Environment%20Protection%20(Banning%20of%20Plastic%20Bags)%20Regulations%202015.pdf</a>

Source: Ministry of Environment, Solid Waste Management and Climate Change

**Table 6.6 - Licensing system to ensure compliance with environmental standards for businesses, 2018**

Licensing system	Description	Undertakings requiring an Environmental Impact Assessment	Website link
1. Environment Impact Assessment (EIA)	<p>EIA is a study that predicts the environmental consequences of a proposed development. It evaluates the expected effects on the natural environment, human health and on property. The study requires a multi-disciplinary approach.</p> <p>The EIA compares various alternatives by which the project could be realized and seeks to identify the one which represents the best combination of economic and environmental costs and benefits. Alternatives include location as well as methods, process technology and construction methods.</p>	<p>Undertakings requiring an EIA licence are listed in Part B of the Environment Protection (Amendment of Schedule) Regulations 2006.</p> <p>The EPA 2002 also empowers the Minister to request an EIA for any non- listed activity, which, by reason of its nature, scope, scale and sensitive location could have an impact on the environment.</p>	<p><a href="http://environment.govmu.org/English/eia/Pages/Environmental-Impact-Assessment.aspx#List of undertakings requiring an Environmental Impact Assessment">http://environment.govmu.org/English/eia/Pages/Environmental-Impact-Assessment.aspx#List of undertakings requiring an Environmental Impact Assessment</a></p>
2. Preliminary Environment Report (PER)	<p>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.</p> <p>PER is also a tool to ascertain whether the project can go ahead as proposed or whether there are sufficient likely significant adverse environmental impacts to warrant a full EIA.</p>	<p>Undertakings requiring a Preliminary Environment Report (PER) are listed in Part A of the fifth schedule of the Environment Protection (Amendment of Schedule) Regulations 2006. These undertakings of a lesser scale and by their very nature, are not highly polluting. The EPA 2002 also empowers the Minister to request an PER for any non- listed activity, which, by reason of its nature, scope, scale and sensitive location could have an impact on the environment.</p>	

Source: Ministry of Environment, Solid Waste Management and Climate Change

Table 6.7 - List, description and amount collected for green/environmental taxes, 2017/18

Green/Environmental tax	Date of establishment	Description	Amount collected (Rs Million)
1. Maurice Ile Durable Levy	2008	Levy imposed on mogas, gas oil, fuel oil, coal, and liquid petroleum gas 2008 at 15 cents per Litre/Kg 2010 at 30 cents per Litre/Kg The levy was abolished on gas oil and mogas on 15 June 2018.	223
2. Environment Protection Fee (EPF)	2008	The Environmental Protection Fee (EPF) is levied on any of the following activities as specified in the Schedule of the Environment Protection (Amendment of Schedule) Regulations 2008: - Hotels, guesthouses and tourist residences irrespective of the number of rooms with a tariff structure of 0.85% turnover; - Stone crushing plants and manufacture or processing of aggregates, concrete blocks, pre-cast units with a tariff of 0.75% turnover; - Mobile phones (Rs 70 for import value exceeding Rs 1000); - Batteries for motor vehicles other than motorcycles, electric bicycles and electric wheelchairs (Rs 50 per unit); - Pneumatic tyres meant for all vehicles except for motorcycles, bicycles and wheel chairs (Rs 50 per unit)	400
3. Energy Inefficient Electrical Appliances	2013	A 25% levy has been introduced in 2013 on energy inefficient appliances namely household refrigerators, electric ovens and dishwashers. In 2014, the 25% levy was extended to include 3 additional types of appliances namely air conditioners, electric lamps and tumble dryers. In 2016, the 25% levy was further extended to include 4 new types of appliances namely washing machines, mercury vapour lamps, sodium high pressure lamps and metal halide lamps.	3.9
4. Insecticides, Herbicides and Fruit Ripeners	2016	Introduction of a 15 percent levy on specific pesticides, herbicides and fruit ripeners, to curb the excessive use of these products.	18
5. Polyethylene terephthalate (PET) bottles and Other Plastic Products	2018	An excise duty of Rs 2 is applicable on each PET bottle used for soft drink and water only.  PET REFUND SCHEME 2014 rates were as follows: Rs 15 per kilo exported in excess 1,000 tons; and Rs 20 per kilo exported in excess of 1,500 tons In 2015, the rates were revised to Rs 5 per kilo, to encourage recycling.  Note: Regarding recycling of waste PET bottles into reusable goods by a local manufacturer, financial incentive has been increased from Rs 5 to Rs 15 per kg of used PET bottles as from 9 August 2018. In 2017/18, Rs million 5.6 has been refunded for export of 1,125 tonnes of PET bottles.	252

Source: Ministry of Finance, Economic Planning and Development

**Table 6.8 - Quantity of polyethylene terephthalate (PET) products exported, 2018**

Tonnes

Description	2018												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
PET flakes	19.3	19.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	<b>38.6</b>
PET sheet regrinds flakes	0.0	0.0	0.0	0.0	0.0	0.0	17.6	0.0	0.0	0.0	0.0	0.0	<b>17.6</b>
Used polythylene terephthalate	42.0	21.0	126.0	63.0	84.0	101.0	84.1	101.0	63.0	63.0	84.0	84.0	<b>916.1</b>
Scrap of PET bottles	0.0	0.0	0.0	0.0	41.6	0.0	46.8	19.6	20.9	21.8	45.8	42.7	<b>239.0</b>
<b>Total</b>	<b>61.3</b>	<b>40.3</b>	<b>126.0</b>	<b>63.0</b>	<b>125.6</b>	<b>101.0</b>	<b>148.5</b>	<b>120.6</b>	<b>83.9</b>	<b>84.8</b>	<b>129.8</b>	<b>126.7</b>	<b>1,211.3</b>

Source: Ministry of Environment, Solid Waste Management and Climate Change

**Table 6.9 - Quantity of PET bottles on which excise duty has been collected from local manufacturers, 2018**

Tonnes

Products	2018												
	Jan	Feb	Mar	Apr	May	Jun	Jul	Aug	Sep	Oct	Nov	Dec	Total
Water	5,896.4	4,967.4	7,336.4	5,194.3	4,384.5	4,088.5	3,478.8	4,045.5	4,087.5	3,434.3	4,832.7	5,237.8	<b>56,984.1</b>
Soft drinks	10,197.7	4,544.8	3,550.6	6,613.7	5,898.7	5,837.4	4,979.9	5,039.1	6,027.7	4,839.7	6,444.5	7,343.7	<b>71,317.5</b>
<b>Total</b>	<b>16,094.1</b>	<b>9,512.2</b>	<b>10,887.0</b>	<b>11,807.9</b>	<b>10,283.3</b>	<b>9,925.9</b>	<b>8,458.7</b>	<b>9,084.6</b>	<b>10,115.2</b>	<b>8,274.0</b>	<b>11,277.2</b>	<b>12,581.5</b>	<b>128,301.6</b>

Source: Ministry of Environment, Solid Waste Management and Climate Change

**Table 6.10 - Multilateral Environmental Agreements (MEA's) and other Global Environmental Conventions, 2018**

Multilateral Environmental Agreements/ Global Environmental Conventions	Date	
	Ratification status <sup>1</sup>	Entry into force
<b>Atmosphere-related MEAs</b>		
1. Vienna Convention for the Protection of the Ozone Layer	August 1992 (Acceded)	September 1988
2. United Nations Framework Convention on Climate Change (UNFCCC)	'Sept 1992 (Ratified)	'March 1994
3. Montreal Protocol on substances that deplete the ozone	October 1992 (Acceded)	January 1989
4. Kyoto Protocol under the UNFCCC Doha Amendment to the Kyoto Protocol	May 2001 (Ratified) September 2013 (Accepted)	February 2005
5. Statute of the International Renewable Energy Agency (IRENA)	2009 (Ratified)	July 2010
<b>Biodiversity-related MEAs</b>		
1. African Convention for the Conservation of Nature and Natural Resources (Algiers Convention)	Sept 1968 (Signed)	June 1969
2. International Plant Protection Convention (1971); Revised text 1990	June 1971 (Acceded)	October 2005
3. Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES)	April 1975 (Ratified)	July 1975
4. Convention on Biological Diversity (CBD)	September 1992 (Ratified)	December 1993
5. United Nations Convention to Combat Desertification (UNCCD)	January 1996 (Ratified)	December 1996
6. Bonn Convention on Migratory Species (CMS)	January 2001 (Ratified)	November 1999
7. Convention on Wetlands of International importance especially as Waterfowl Habitat (RAMSAR 1971)	May 2001 (Ratified)	September 2001

Source: Ministry of Environment, Solid Waste Management and Climate Change

<sup>1</sup>Note: **Acceded**: It is an act that is not preceded by a signature. The country accepts to adopt the convention which has been negotiated and signed by other countries. ; **Signed**: Preliminary endorsement of a convention. There is no legal binding commitment on the country; **Ratified**: A country first signs a convention and then ratifies it; **Adopted**: Adoption by a country of an international agreement refers to the process of its incorporation into the domestic legal system, through signature, ratification or any other process under national law; **Succeeded**: A state which makes a notification of succession is considered a party to a treaty from the date of the succession of States or from the date of entry into force of the treaty.

**Table 6.10 (cont'd)- Multilateral Environmental Agreements (MEA's) and other Global Environmental Conventions, 2018**

Multilateral Environmental Agreements/ Global Environmental Conventions	Date	
	Ratification status <sup>1</sup>	Entry into force
<b><u>Biodiversity-related MEAs</u></b>		
8. Cartagena Protocol on Biosafety	April 2002 (Acceded)	September 2003
9. African-Eurasian Waterbird Agreement (AEWA)	September 2002 (Signed)	November 1999
<b><u>Chemical-related MEAs</u></b>		
1. Bamako convention on the ban of the import into Africa and the control of transboundary movement and management of hazardous wastes within Africa	October 1992 (Ratified)	April 1998
2. Basel Convention on the Control of Transboundary Movement of Hazardous Wastes and their disposal ; Ban Amendment to the Basel Convention	November 1992 (Ratified) November 2004 (signed)	May 1992
3. Chemical Weapons Convention	February 1993 (Ratified)	April 1997
4. Stockholm Convention on Persistent Organic Pollutants (POPs)	July 2004 (Ratified)	May 2004
5. Rotterdam Convention	August 2005 (Acceded)	February 2004
6. The Strategic Approach to International Chemical Management (SAICM)	February 2006 (Adopted)	February 2006
7. Minamata Convention on Mercury	October 2013 (Signed)	90 days after ratification by at least 50 states

Source: Ministry of Environment, Solid Waste Management and Climate Change

<sup>1</sup>Note: **Acceded**: It is an act that is not preceded by a signature. The country accepts to adopt the convention which has been negotiated and signed by other countries. ; **Signed**: Preliminary endorsement of a convention. There is no legal binding commitment on the country; **Ratified**: A country first signs a convention and then ratifies it; **Adopted**: Adoption by a country of an international agreement refers to the process of its incorporation into the domestic legal system, through signature, ratification or any other process under national law; **Succeeded**: A state which makes a notification of succession is considered a party to a treaty from the date of the succession of States or from the date of entry into force of the treaty.

**Table 6.10 (cont'd) - Multilateral Environmental Agreements (MEA's) and other Global Environmental Conventions, 2018**

Multilateral Environmental Agreements/ Global Environmental Conventions	Date	
	Ratification status <sup>1</sup>	Entry into force
<b><u>Marine-related MEAs</u></b>		
1. Convention on the High Seas (1958)	October 1970 (Succeeded)	September 1962
2. Convention on the Territorial Sea and Contiguous Zone, 1958	October 1970 (Succeeded)	September 1964
3. Convention on Fishing and Conservation of the Living Resources of the High Seas 1958	October 1970 (Succeeded)	March 1966
4. Agreement on the Organization for Indian Ocean Marine Affairs	July 1992 (Ratified)	September 1990
5. Agreement for the Establishment of the Indian Ocean Tuna Commission (IOTC), adopted in 1983	November 1993 (Signed)	March 1996
6. Convention on the prevention of pollution from Ships of 1973, as modified by the Protocol of 1978 (MARPOL 73/78)	April 1995 (Acceded)	July 1995/October 1983
7. Jakarta Mandate on Marine and Coastal Biological Diversity	1998 (Adopted)	1998
8. Convention on the Establishment of an International Fund for Compensation for Oil Pollution Damage (FUND) 1971 and Protocol of 1976	April 1999 (Acceded)	June 1975
9. Convention on the Protection, Management and Development of the marine and coastal environment of the Eastern African Region and related protocols (Nairobi Convention 1985)	July 2000 (Acceded)	May 1996
10. 1992 Civil Liability Convention (CLC) and Fund Convention	December 2000 (Acceded)	December 2000
11. Protocol on preparedness, response and cooperation to pollution incidents by hazardous and Noxious Substances, 2000 - (OPRC-HNS Protocol )	October 2013 (Acceded)	June 2007
12. Convention on Civil Liability for Bunker oil pollution, 2001	October 2013 (Acceded)	November 2008

Source: Ministry of Environment, Solid Waste Management and Climate Change

<sup>1</sup>Note: **Acceded:** It is an act that is not preceded by a signature. The country accepts to adopt the convention which has been negotiated and signed by other countries. ; **Signed:** Preliminary endorsement of a convention. There is no legal binding commitment on the country; **Ratified:** A country first signs a convention and then ratifies it; **Adopted:** Adoption by a country of an international agreement refers to the process of its incorporation into the domestic legal system, through signature, ratification or any other process under national law; **Succeeded:** A state which makes a notification of succession is considered a party to a treaty from the date of the succession of States or from the date of entry into force of the treaty.

**Table 6.10 (cont'd) - Multilateral Environmental Agreements (MEA's) and other Global Environmental Conventions, 2018**

Multilateral Environmental Agreements/ Global Environmental Conventions	Date	
	Ratification status <sup>1</sup>	Entry into force
<b><u>Other environmental-related MEAs</u></b>		
1. Convention on the Prohibition of Military or any other Hostile Use of Environmental Modification Techniques 1997	September 1992 (Acceded)	October 1978
2. Convention for the Protection of the World Cultural and Natural Heritage 1972	September 1995 (Ratified)	December 1975

Source: Ministry of Environment, Solid Waste Management and Climate Change

<sup>1</sup>**Note:**

**Acceded** : It is an act that is not preceded by a signature. The country accepts to adopt the convention which has been negotiated and signed by other countries.

**Signed** : Preliminary endorsement of a convention. There is no legal binding commitment on the country.

**Ratified** : A country first signs a convention and then ratifies it.

**Adopted** : Adoption by a country of an international agreement refers to the process of its incorporation into the domestic legal system, through signature, ratification or any other process under national law.

**Succeeded** : A state which makes a notification of succession is considered a party to a treaty from the date of the succession of States or from the date of entry into force of the treaty.



**Table 6.11 - National disaster schemes, 2015**

<b>National Disaster Scheme</b>	<b>Website link</b>
<p>1. Cyclone Emergency Scheme</p> <p>2. Heavy Rainfall, Torrential Rain and Flooding Emergency Scheme</p> <p>3. Tsunami Emergency Scheme</p> <p>4. High Waves Emergency Scheme</p> <p>5. Water Crisis Emergency Scheme</p> <p>6. Earthquake Emergency Scheme</p> <p>7. Landslide Emergency Scheme</p> <p>8. Port Louis Flood Response Plan</p>	<p><a href="http://environment.govmu.org/English/DOCUMENTS/NDS%20EDITION%202015.PDF">http://environment.govmu.org/English/DOCUMENTS/NDS%20EDITION%202015.PDF</a></p>

Source: Ministry of Environment, Solid Waste Management and Climate Change

Table 6.12 - Emergency shelters by region and capacity, 2015

Region	Region number	No. of shelters	Capacity (No. of persons)	Website link
Port Louis	1	7	525	
Port Louis	1(a)	4	105	
Beau Bassin	2	3	280	
Rose Hill	3	2	1,730	
Quatre Bornes	4	3	225	
Vacoas	5	6	120	
Curepipe	5A	8	395	
Phoenix	5	4	355	
Grand Port	6	13	835	
Grand Port - Plaine Magnien- Rose Belle	6	15	915	<a href="http://environment.govmu.org/English//DOCUMENTS/NDS%20EDITION%202015.PDF">http://environment.govmu.org/English//DOCUMENTS/NDS%20EDITION%202015.PDF</a>
Savanne	6A	21	1,440	
Moka	7	12	905	
Flacq	7A	15	795	
Goodlands, Grand Gaube, Grand Baie and Morcellement St. Andre	8-8A	12	480	
Triolet and Pamplemousses	8-8A	6	345	
Terre Rouge and Long Mountain	8-8A	7	470	
Riviere du Rempart and Piton	8-8A	9	865	
Black River	9	17	975	
<b>Total</b>		<b>164</b>	<b>11,760</b>	

Source: National Disaster Scheme, 2015

**Table 6.13 - Some publicly accessible environmental information**

Source	Website
1. Statistics Mauritius	<a href="http://statsmauritius.govmu.org/English/Pages/default.aspx">http://statsmauritius.govmu.org/English/Pages/default.aspx</a>
2. Ministry of Environment, Solid Waste Management and Climate Change	<a href="http://environment.govmu.org/English/Pages/default.aspx">http://environment.govmu.org/English/Pages/default.aspx</a>

**Table 6.14- Description of national environment statistics programmes**

Year of existence of environment statistics unit	In 1994 , Statistics Mauritius started to work on the development of environment statistics. Following increasing demand for statistics on environment, a Statistical Unit was created at the Ministry of Environment, Sustainable Development and Disaster and Beach Management in 1999.
Mandate of the Statistics Unit	To implement the Framework for the Development of Environment Statistics (FDES 2013) and disseminate statistics therein.
Scope of environment statistics	Biophysical aspects of the environment and those aspects of the socio-economic system that directly influence and interact with the environment.
Coverage	<ol style="list-style-type: none"> <li>1. Environmental conditions and quality</li> <li>2. Environmental resources and their use</li> <li>3. Residuals</li> <li>4. Extreme events and disasters</li> <li>5. Human settlements and environmental health</li> <li>6. Environment protection, management and engagement</li> <li>7. Information on environment from surveys</li> </ol>
Sources of environment statistics	Administrative records, census and surveys, monitoring systems, scientific and special projects
Guidelines	United Nations Framework for the Development of Environment Statistics, 2013 <a href="https://unstats.un.org/unsd/environment/FDES/FDES-2015-supporting-tools/FDES.pdf">https://unstats.un.org/unsd/environment/FDES/FDES-2015-supporting-tools/FDES.pdf</a>

**Table 6.15 - Type of environment statistics products and periodicity of update**

<b>Environment statistics products</b>		<b>Periodicity of update</b>
1.	Economic and Social Indicator on Environment Statistics - A publication designed to rapidly disseminate the main statistical data pending the publication of more detailed information	Yearly
2.	Digest of Environment Statistics - An publication meant to bring together in a single volume all data pertaining to environment statistics	Yearly
3.	Time series for selected environment indicators	Yearly
4.	Environment Statistics published in Mauritius in Figures	Yearly
5.	Environment Statistics presented in Tableau de Bord	Yearly
6.	Environment Statistics published in Annual Digest of Statistics	Yearly
7.	Environment Economic Accounts Water <i>Energy use and atmospheric emissions</i> <i>Material flow</i>	Published in 2011 for years 2002-2009
8.	Water Accounts	Published in 2014

**Table 6.16: List of institutions/organisations providing data for the production of environment statistics, 2018**

<b>Institution/Organisation</b>
1. National Parks and Conservation Service (NPCS)
2. Mauritius Meteorological Services (MMS)
3. Albion Fisheries Research Centre, Ministry of Blue Economy, Marine Resources, Fisheries and Shipping
4. Central Electricity Board (CEB)
5. Forestry Service, Ministry of Agro Industry and Food Security
6. Food and Agricultural Research and Extension Institute (FAREI), Ministry of Agro Industry and Food Security
7. Wastewater Management Unit
8. Central Water Authority
9. Ministry of Environment, Solid Waste Management and Climate Change
10. Water Resources Unit
11. Solid Waste Management Division
12. Statistics Mauritius
13. Statistics Unit , Ministry of Health and Wellness

**Table 6.17 - Environmental education programmes and number of participants, 2018**

Programmes	2018		
	Male	Female	Total
<b>1. Activities organised to mark major International Environmental Events</b>			
• Earth Day (22 April 2018)	100	100	200
• World Environment Day (5 June 2018)	5,000	5,000	10,000
• Clean up the World (September 2018)	500	500	1,000
<b>2. Awareness Raising Activities</b>			
<i>General awareness raising activities with different target groups</i>			
• Community Centre/ Social Welfare Centre/ Village Hall (60 talks delivered)	1500	3,800	5,300
• Women Association/Women Community/Women Council (30 talks delivered)	350	1,900	2,250
• Schools (38 talks delivered)	600	900	1,500
• Private Institutions/NGO's/Force Vives and other (4 talks delivered)	200	300	500
• Radio Talks (12 ) and TV Programme (1)	...	...	...
<b>2. Exhibitions (5 Exhibitions set up)</b>	145,000	190,000	335,000
<b>Total</b>	<b>153,250</b>	<b>202,500</b>	<b>355,750</b>

Source: Ministry of Environment, Solid Waste Management and Climate Change

... : Public at large

**Table 6.18 - Non-Government Organisations affiliated to the Ministry of Environment, Solid Waste Management and Climate Change, 2018**

SN	Organisation	Activities
1	Boy Scouts and Girl Guides Federation	Awareness raising and sensitization to the public; clean up campaigns, seminars and workshops
2	Environnement Protection & Conservation Organisation (EPCO)	World Wetlands Day Celebration; World Environment Day Celebration; Climate Change: Conservation; Poverty alleviation in Agalega
3	Mauritius Marine Conservation Society (MMCS)	Protection of Dolphins, Creation of Artificial Reefs, Environment Education -Underwater archaeology Sensitization on Environmental Issues, composting, rain water harvesting system and tree planting
4	Global Rivers Environmental Education	Sensitization on Environmental Issues, composting, rain water harvesting system and Tree planting
5	Mauritius Underwater Group	Scuba Diving and Teaching Scuba Diving
6	Society of Biology	Promotion of Biology by organizing activities such as workshops and seminars through integrating EE/ESO, HIV/AIDS
7	Falcon Citizen League	Clean up, tree planting, composting, seminar on environment campaign on Bio cultivation and renewable energy
8	Le Cercle D'Epanouissement Feminin	Sensitization on Environment. Workshop on health problems such as Aids, Cancer and violence
9	Indian Ocean Centre for Education in Human Values	Silent sitting, Drama about Human Values, educational outings, Spiritual Day Camp; parenting Sessions; Balvikas classes, sports and Values Day
10	Blue Crescent	Drugs take back project, tree planting
11	Council for Development, Environmental Studies and Conservation (MAUDESCO)	Awareness raising campaigns on Food Security, Climate Change, Cleaning Campaigns, Conduct activities related to Maurice Ile Durable
12	Environnement Care Association (ECA)	Sensitization programs on Climate Change, Resource Conservation, Tree Planting, Natural Disasters (flooding, cyclones and drought) and Waste Recycling.
13	Biodiversity Action Group	To arouse awareness about sustainable use and conservation of Biodiversity resources. Capacity building to meet the challenges of global environmental management, in particular, areas of Biodiversity. To meet the objectives of the Convention on Biological Diversity.

Source: Ministry of Environment, Solid Waste Management and Climate Change

**Table 6.18 (cont'd)- Non-Government Organisations affiliated to the Ministry of Environment, Solid Waste Management and Climate Change, 2018**

SN	Organisation	Activities
14	Atlantis D.C	Protection of marine environment through education and sensitizing the public. Beach and lagoon clean up. Create employment and help for economic growth through sustainable development. Teach scuba diving, snorkelling, swimming and other watersports.
15	Save Our Planet Earth (SOPE)	Environmental awareness such as Tree planting, Tree census, Presentations and Seminars, Sensitization campaigns in schools.
16	Association for the Protection of the Environment and Consumers	Fight against consumer exploitation and environmental degradation. Improve quality of life
17	Eco-Raise Society	Interactive workshop delivery on Environmental Pollution, Waste Management. Repurposing workshop (make usable objects out of waste materials). Clean up and awareness campaigns
18	Desarokev Multi-Purpose Cooperative Society Ltd	Agriculture - Production of compost Environment - Production of plantlets and seedlings, production of cloth bags,
19	Association Pour le Development Durable (ADD)	Awareness raising on Sustainable Development. Dissemination of Information. Community-based projects. Strategic Research and studies.
20	Educational and Holistic Health Care Association	Conduct retreats, seminars, workshops and talks on healthy and happy lifestyle on coronary artery diseases (diabetes, hypertension, etc), anger management, stress free living, positive thinking, human and cultural values conducive to world brotherhood and world peace, protection of the environment and Raja Yoga Meditation.
21	Fondation Ressources et Nature (FORENA)	Promote Sustainable Development, promote sustainable livelihood. Practices to promote conservation and re-introduction of terrestrial and marine endemic and native biodiversity. Promote mitigation of Climate Change.
22	M-Kids Association	Child and teenager development in society. Youth Empowerment, Education, Poverty, Environment and Sports.
23	Consumer's Union	Consumer Protection, Protection of environment and Protection of workers rights.

Source: Ministry of Environment, Solid Waste Management and Climate Change



**Table 6.18 (cont'd)- Non-Government Organisations affiliated to the Ministry of Environment, Solid Waste Management and Climate Change, 2018**

SN	Organisation	Activities
24	Experiential Learning Initiative (Africa) – ELI Africa	Education of underprivileged children. Environmental initiatives (Coral farming, endemic forest, mangroves propagation). Animal welfare (ELI WOOFF project).
25	Sustainable Agricultural Organization	Organic Agriculture, Climate Change and climate smart agriculture.
26	Centre D'Education et de Développement pour les Enfants Mauriciens (CEDEM)	Education of Children (handicapped & abused). Rehabilitation of abused children. Family counseling and support. Publication of story books for children. Animation, Community development programmes and Training programmes for social workers and educators
27	Association of Community development and Social Work Professionals	Poverty alleviation Programme.Sensitization campaign on Environmental issues and non-communicable diseases. Training/workshops. Recreational programme for elderly and school children
28	Association de Soutien et D'Entraide aux Victimes de L'Energie Carbonée	To help victims of Carbon Energy; Energy/Health/Economy
29	Association des Consommateurs de L'Ile Maurice (ACIM)	Consumer Education and Information; Radio Programmes; Seminars and workshops.
30	Mauritius India Friendship Society	Social works and Environmental awareness
31	Community Development Programme Agency	Promote Sustainable Community Development & Environmental stewardship. Socio-Economic and Environmental Integration.
32	Group Hope	Poverty alleviation Programme.Sensitization campaign on Environmental Issues, non-communicable diseases. Training/Workshops.Recreational programme for elderly/school children. Clean Up Campaign and tree Planting.
33	African Network for Policy, Research & Advocacy for sustainability	Earth Day - Tree planting Campaign.World Tourism Day. World Environment Day. AYICC Conference.
34	Yes You Can	Environment Protection. Education & Skill development. Arts & Culture and Community Welfare. Earth Day. World Environment Day.Mangrove Planting. 'Food for all Program'; International Day for Biological Diversity; Fun Day. Abolition of Slavery Day. Independence and Republic Day.
35	Youth United in Voluntary Action (YUVA)	Development and foster of volunteerism as force for sustainable development; Activities related to sustainable development such as poverty, food, health, education, gender equality, economic, climate change, marine conservation, sport technology and culture.

Source: Ministry of Environment, Solid Waste Management and Climate Change

**Table 6.18 (cont'd)- Non-Government Organisations affiliated to the Ministry of Environment, Solid Waste management and Climate Change, 2018**

SN	Organisation	Activities
36	EcoMode Society	Educate people on recycling of waste and promote 3 R's, promote public awareness on conservation, and protect terrestrial and marine environment. Involve in projects such as coral farming.
37	Pesticide Action Network	Sensitization to public on the effects of pesticides, consistent organic pollutants, heavy metals (mercury, lead) on human health. Conduct analysis on mercury found in fishes. Carry out projects to decrease the use of pesticides in agriculture. Sensitization campaigns on climate change to different target groups.
38	CSO Platform on Climate change	Awareness raising on climate change and its impacts with specific target groups, planters and other community based organisation. Planting of mangroves and sensitization on the importance of mangroves to fisherman.
39	United Nations Association (Mauritius)	Organise clean up activities. Celebration of World Environment Day. Awareness raising on climate change, green energy, banning of plastic bags, bio and organic farming. Promote the use of solar cooker.
40	Action Against Global Warming	Awareness campaign on global warming, save energy and water, general environmental issue, tree planting and poverty. Coral reef restoration projects.
41	Arsenal Force Vive	Cleaning campaigns, tree planting, sensitisation on gender issues and social development.
42	Association Pour l'Education Des Enfants Defavorises (APEDED)	Promotion of medicinal plants; sensitisation on environmental issues, bio farming and renewable energy; provide education and extra curricular activities to deprived children; distribution of uniforms, school materials to children in needs.

Source: Ministry of Environment, Solid Waste Management and Climate Change

**Table 6.19 - Number of permits<sup>1</sup> and floor area by region, 2014 - 2018**

Region	2014		2015		2016		2017		2018	
	No of permits issued	Floor area (m <sup>2</sup> )	No of permits issued	Floor area (m <sup>2</sup> )	No of permits issued	Floor area (m <sup>2</sup> )	No of permits issued	Floor area (m <sup>2</sup> )	No of permits issued	Floor area (m <sup>2</sup> )
<b>Urban areas</b>	<b>2,528</b>	<b>447,665</b>	<b>2,691</b>	<b>491,976</b>	<b>2,673</b>	<b>578,072</b>	<b>2,320</b>	<b>516,370</b>	<b>2,219</b>	<b>463,978</b>
Port Louis	446	66,586	486	83,353	668	112,958	393	74,632	418	132,899
Beau Bassin - Rose Hill	541	85,630	423	52,954	441	69,814	369	66,604	362	71,027
Curepipe	432	91,766	481	100,485	426	76,536	338	80,298	244	39,076
Quatre Bornes	423	86,942	498	124,471	450	175,873	406	128,763	328	65,495
Vacoas - Phoenix	686	116,741	803	130,713	688	142,891	814	166,073	867	155,481
<b>Rural areas</b>	<b>4,062</b>	<b>1,092,251</b>	<b>4,222</b>	<b>826,823</b>	<b>4,197</b>	<b>864,491</b>	<b>4,583</b>	<b>965,098</b>	<b>5,025</b>	<b>1,169,778</b>
Pamplemousses	690	127,874	558	98,144	788	152,098	883	168,322	945	283,110
Riviere du Rempart	699	327,831	832	193,850	776	229,337	832	218,493	984	241,496
Flacq	669	90,801	783	147,053	761	107,456	858	129,581	1,034	174,582
Grand Port	442	116,346	556	75,692	403	66,152	558	82,865	746	156,012
Savanne	472	76,767	471	60,411	480	61,027	516	72,107	515	68,633
Plaines Wilhems	34	4,031	49	6,549	23	2,902	28	3,035	11	1,883
Moka	518	231,720	425	108,311	433	88,434	505	130,036	459	110,420
Black River	538	116,881	548	136,813	533	157,085	403	160,659	331	133,642
<b>Total</b>	<b>6,590</b>	<b>1,539,916</b>	<b>6,913</b>	<b>1,318,800</b>	<b>6,870</b>	<b>1,442,563</b>	<b>6,903</b>	<b>1,481,468</b>	<b>7,244</b>	<b>1,633,756</b>

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

**Table 6.20- Number of permits <sup>1</sup> and floor area by type of building, 2014 - 2018**

Type of building	2014		2015		2016		2017		2018	
	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>6,125</b>	<b>1,381,058</b>	<b>6,538</b>	<b>1,110,954</b>	<b>6,443</b>	<b>1,171,332</b>	<b>6,377</b>	<b>1,253,638</b>	<b>6,760</b>	<b>1,141,125</b>
New buildings	4,348	1,186,155	4,666	904,397	4,565	969,282	4,336	1,029,108	4,074	800,350
Additions	1,777	194,903	1,872	206,557	1,878	202,050	2,041	224,530	2,686	340,775
<b>Non residential</b>	<b>465</b>	<b>158,858</b>	<b>375</b>	<b>207,846</b>	<b>427</b>	<b>271,230</b>	<b>526</b>	<b>227,830</b>	<b>484</b>	<b>492,631</b>
Agriculture, forestry, hunting and fishing	17	9,263	23	13,674	29	9,956	17	10,020	45	28,579
Manufacturing	36	14,335	24	23,234	31	7,352	34	12,272	35	26,084
Electricity and water	2	930	2	381	0	0	0	0	4	4,615
Construction	0	0	0	0	0	0	4	1,497	7	6,667
Wholesale and retail trade, restaurant and hotels	271	65,039	178	82,842	180	48,287	204	46,768	194	92,854
Transport, storage & communication	14	6,798	11	5,300	30	33,845	42	43,022	34	46,550
Banking, insurance and real estate	3	1,503	5	2,933	32	97,792	29	38849	34	72553
Community, social & personal services	122	60,990	132	79,482	125	73,998	196	75402	131	214730
<b>Total</b>	<b>6,590</b>	<b>1,539,916</b>	<b>6,913</b>	<b>1,318,800</b>	<b>6,870</b>	<b>1,442,563</b>	<b>6,903</b>	<b>1,481,468</b>	<b>7,244</b>	<b>1,633,756</b>

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

**Table 6.21 - Number of Environmental Impact Assessment (EIA) licences granted by type of project, 2009 - 2018**

Project	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Land parcelling (morcellement)	2	5	4	7	7	7	2	9	8	10
Industrial development	7	5	2	1	6	4	4	0	0	0
Coastal hotels and related works	7	12	10	10	6	6	3	1	7	17
Housing/Integrated Resort Scheme/Property Development Scheme/Smart City	1	1	2	2	0	8	1	5	7	8
Photovoltaic Farms	0	0	0	0	1	0	3	1	5	2
Stone crushing plants	0	3	3	0	3	0	2	1	0	0
Development in port area	0	1	4	4	2	6	2	0	1	2
Construction of road and highway	0	1	0	0	0	0	0	1	3	2
Other projects	6	16	5	2	2	3	5	5	8	8
<b>Total</b>	<b>23</b>	<b>44</b>	<b>30</b>	<b>26</b>	<b>27</b>	<b>34</b>	<b>22</b>	<b>23</b>	<b>39</b>	<b>49</b>

Source: Ministry of Environment, Solid Waste Management and Climate Change

**Table 6.22 - Number of Preliminary Environmental Report (PER) approvals granted by type of project, 2009 - 2018**

Project	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Land parcelling (morcellement)	0	0	0	3	1	1	0	2	0	1
Poultry rearing	9	3	9	7	4	7	4	7	5	11
Industrial development	6	5	7	12	4	4	3	3	8	10
Coastal hotels and related works	0	0	0	1	0	0	0	0	0	0
Livestock rearing	0	4	2	4	0	3	0	0	1	2
Housing/Integrated Resort Scheme/Property Development Scheme	0	0	1	1	0	3	1	2	2	2
Other projects	16	7	5	6	4	4	5	6	2	6
<b>Total</b>	<b>31</b>	<b>19</b>	<b>24</b>	<b>34</b>	<b>13</b>	<b>22</b>	<b>13</b>	<b>20</b>	<b>18</b>	<b>32</b>

Source: Ministry of Environment, Solid Waste Management and Climate Change

**Table 6.23 - No. of complaints <sup>1</sup> received at the Pollution Prevention and Control (PPC) Division by category, 2009 - 2018**

Category	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Noise	123	160	170	131	150	78	114	98	132	91
Solid waste	136	118	127	100	93	91	39	49	98	59
Air pollution	57	76	96	105	120	138	115	91	128	113
Waste water	72	77	84	71	82	101	78	63	78	71
Odour	88	128	77	79	79	81	76	77	92	66
Barelands	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	76	58
Flooding/Obstruction of rivers and drains <sup>2</sup>	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	Napp	16
Other <sup>3</sup>	46	63	177	176	163	174	206	323	161	152
<b>Total</b>	<b>522</b>	<b>622</b>	<b>731</b>	<b>662</b>	<b>687</b>	<b>664</b>	<b>628</b>	<b>701</b>	<b>765</b>	<b>626</b>

<sup>1</sup> Include number of complaints attended at PPC Division through the Citizen Support Portal.

<sup>2</sup> Complaints regarding "Flooding/obstruction of rivers and drains" were recorded in "Other" prior to 2018.

<sup>3</sup> Includes backfilling, erosion, illegal construction, objections to projects, law and order, land conversion, land reclamations, landslides etc

Source: Ministry of Environment, Solid Waste Management and Climate Change

**Table 6.24 - Contraventions <sup>1</sup> established and notices issued by "Police De L'Environnement", 2009 - 2018**

Type of contravention	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Illegal Littering	3,402	963	687	1,827	924	528	819	683	2,568	2,456
Illegal Dumping	0	152	35	11	18	10	12	12	10	21
Noise (playing music in loud tone )	27	11	34	18	20	12	31	14	27	12
Smoking in prohibited area	48	61	58	178	126	158	430	515	203	203
Waste carriers offences	3	0	0	2	0	0	8	10	11	4
Setting fire within 50 metres from building/plantation	1	0	0	0	3	1	1	2	0	4
Trading without licence/without PER	0	41	28	55	60	32	33	39	38	26
Vehicle emitting smoke (above opacity level )	0	0	0	73	224	142	72	0	0	0
Vehicle emitting excessive noise	0	0	0	0	436	784	1,281	923	495	687
Supplying/selling banned plastic bags	0	0	0	0	0	0	0	58	208	214
Others	81	23	15	61	51	15	35	13	14	0
<b>Total</b>	<b>3,562</b>	<b>1,251</b>	<b>857</b>	<b>2,225</b>	<b>1,862</b>	<b>1,682</b>	<b>2,722</b>	<b>2,269</b>	<b>3,574</b>	<b>3,627</b>

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
No. of notices issued to drivers of vehicles emitting black smoke	2,270	1,651	374	(Jan-May) 60	40	564	1,084	879	930	420

Source: Ministry of Environment, Solid Waste Management and Climate Change

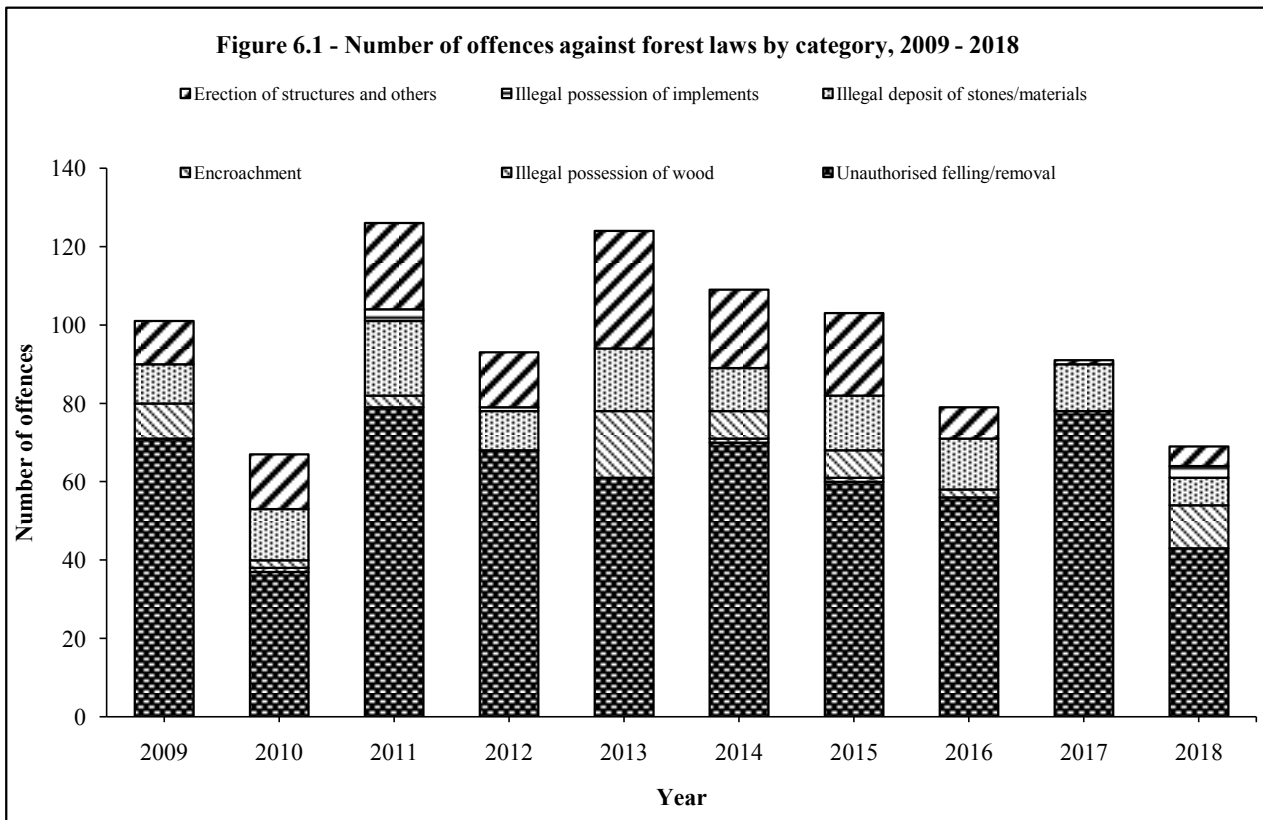
<sup>1</sup> Relating to environment only

**Table 6.25 - Number of offences detected against forest laws <sup>1</sup> by category, 2009 - 2018**

Category	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Unauthorised felling/removal	71	37	79	68	61	70	60	56	78	43
Illegal possession of wood	0	1	0	0	0	1	1	0	0	0
Encroachment	9	2	3	0	17	7	7	2	0	11
Illegal deposit of stones/materials	10	13	19	10	16	11	14	13	12	7
Illegal possession of implements	0	0	3	1	0	0	0	0	0	3
Erection of structures and others	11	14	22	14	30	20	21	8	1	5
<b>Total</b>	<b>101</b>	<b>67</b>	<b>126</b>	<b>93</b>	<b>124</b>	<b>109</b>	<b>103</b>	<b>79</b>	<b>91</b>	<b>69</b>

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

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





**STATISTICS ON ENVIRONMENT  
FROM SURVEYS**

**Table 7.1 - Households with members suffering from health problems related to air pollution by type of problem, Continuous Multi-Purpose Household Survey (CMPHS) 2001, Republic of Mauritius**

Health problem	Households reporting specific health problems		as a % of all sampled households
	Number	as a % of households reporting health problems	
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: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2001

**Table 7.2 - Rating of the state of the environment by head of household surveyed, Continuous Multi-Purpose Household Survey (CMPHS) 2001, Republic of Mauritius**

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

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2001

**Table 7.3 – Percentage distribution of households surveyed by specified environment problem, Continuous Multi-Purpose Household Survey (CMPHS) 2002, Republic of Mauritius**

Environmental problem	Percentage of household affected		
	Not affected at all	Affected to some extent	Seriously affected
Dumping of solid waste	80.4	12.8	6.8
Waste/stagnant water	83.1	10.8	6.1
Stray dogs	62.1	25.6	12.3
Breeding of animals by neighbours	89.6	7.5	2.9
Rats/mice	64.9	26.3	8.8
Presence of crows	90.8	6.8	2.4
Traffic noise	75.7	18	6.3
Industrial noise	95.2	3.3	1.5
Other noise	86.8	9.8	3.4
Smoke/dust	81.7	13	5.3
Odours	83.1	10.8	6.1

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2002

**Table 7.4 - Distribution of households surveyed by methods of carrying goods purchased, Continuous Multi-Purpose Household Survey (CMPHS) 2002, Republic of Mauritius**

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

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2002

**Table 7.5 - Percentage distribution of households by response on solid waste issues, Continuous Multi-Purpose Household Survey (CMPHS) 2007, Republic of Mauritius**

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

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2007

**Table 7.6 - Percentage distribution of households by environmental issues, Continuous Multi-Purpose Household Survey (CMPHS) 2007, Republic of Mauritius**

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

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2007

**Table 7.7 - Percentage distribution of households surveyed by type of vehicles owned, Continuous Multi-Purpose Household Survey (CMPHS) 2009, Republic of Mauritius**

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

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2009

**Table 7.8 - Percentage distribution of households surveyed reporting on average kilometres travelled per year by type of vehicles owned, Continuous Multi- Purpose Household Survey (CMPHS) 2009, Republic of Mauritius**

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

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2009

**Table 7.9 - Percentage distribution of households surveyed by awareness of global environmental challenges, Continuous Multi - Purpose Household Survey (CMPHS) 2009, Republic of Mauritius**

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

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2009

**Table 7.10 - Percentage distribution of households surveyed by type and number of vehicles owned, Continuous Multi-Purpose Household Survey (CMPHS) 2009, Republic of Mauritius**

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

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2009

**Table 7.11 - Number and percentage distribution of tourists interviewed by rating of the state of the environment at various sites, Survey of outgoing tourists, 2000 & 2002**

Site	Number of Parties		Percentage									
			Very Poor		Poor		Satisfactory		Good		Excellent	
	2000	2002	2000	2002	2000	2002	2000	2002	2000	2002	2000	2002
Beaches	13,166	15,760	0.8	0.5	4.4	4.2	15.6	13	57.9	59.8	21.3	22.6
Public places	13,019	15,710	2.0	1.2	16.4	13	31.7	26	41.6	47.5	8.4	12.3
Tourist Sites	11,708	14,937	0.5	0.3	3.5	3.4	19.4	18.5	61.9	61.3	14.6	16.5
Country in general	13,476	15,906	2.1	0.5	12.2	5.4	28.9	24.2	46	56.4	10.8	13.5

**Table 7.11 (Cont'd) - Number and percentage distribution of tourists interviewed by rating of the state of the environment at various sites, Survey of outgoing tourists, 2004 & 2006**

Site	Number of Parties		Percentage									
			Very Poor		Poor		Satisfactory		Good		Excellent	
	2004	2006	2004	2006	2004	2006	2004	2006	2004	2006	2004	2006
Beaches	16,151	15,648	0.7	0.7	4.1	4.6	11.7	12.5	63.6	56.9	20.0	25.3
Public places	16,189	15,399	1.3	1.2	13.3	10.7	25.5	23.2	50.0	53.0	9.8	11.9
Tourist Sites	15,396	14,669	0.4	0.4	4.7	3.2	18.1	15.8	63.7	63.1	13.0	17.5
Country in general	16,400	15,996	0.6	0.6	6.0	5.2	22.3	20.4	60	59.3	11.1	14.5

**Table 7.11 (Cont'd) - Number and percentage distribution of tourists interviewed by rating of the state of the environment at various sites, Survey of outgoing tourists, 2009**

Site	Number of Parties	Percentage				
		Very Poor	Poor	Satisfactory	Good	Excellent
Beaches	15,428	0.5	5.4	13.4	62.3	18.4
Public places	15,587	1.1	11.2	21.6	57.0	9.1
Tourist Sites	14,699	0.1	2.0	10.3	67.1	20.5
Country in general	15,881	0.2	2.6	12.8	71.2	13.2

**Table 7.12 - Percentage distribution of households by awareness of environmental issues, Continuous Multi-Purpose Household Survey (CMPHS)<sup>1</sup> 2012, Republic of Mauritius**

Environmental Issues	%	
	Yes	No
1. Maurice Ile Durable	69.9	30.1
2. Environment friendly goods (e.g ozone friendly products)	58.6	41.4
3. Greenhouse gas emission from fossil combustion is responsible for climate change	60.8	39.2
4. Effect of climate change (e.g abnormal weather, flooding, sea level rise, etc)	81.5	18.5
5. Environmental benefits of car pooling	53.3	46.7
6. Emission from vehicles cause air pollution	89.1	10.9
7. Environment benefits of using bicycle or walking short distances	84.3	15.7
8. Dumping at unauthorised places is illegal	91.8	8.2

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2012

Note: Figures are based on sample results of 5,640 households surveyed

**Table 7.13 - Percentage distribution of households taking measures to reduce/reuse/recycle waste, Continuous Multi-Purpose Household Survey (CMPHS) 2012, Republic of Mauritius**

Measures	Households reporting on measures to reduce/reuse/recycle waste		
	Number	as a % of households reporting taking measures	as a % of all sampled households
1. Use own bags for shopping	3,895	91.9	69.1
2. Choose products with minimum packing	1,590	37.5	28.2
3. Reuse plastic bags	3,528	83.2	62.6
4. Reuse empty containers	2,784	65.7	49.4
5. Compost waste	883	20.8	15.7
6. Other	53	1.3	0.9

Note: Figures are based on sample results of 5,640 households surveyed of which 75% took measures



**Table 7.14 - Percentage distribution of households collecting and using rainwater for household purposes, Continuous Multi-Purpose Household Survey (CMPHS) 2012, Republic of Mauritius**

Purposes	Households reporting on purposes of collecting rainwater		
	Number	as a % of households reporting taking measures	as a % of all sampled households
1. General cleaning (house, car and pavement)	1,791	89.2	31.8
2. Watering plants/lawn	1,383	68.9	24.5
3. Other	171	8.5	3.0

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2012

Note: Figures are based on sample results of 5,640 households surveyed of which 36% collect rain water

**Table 7.15 - Percentage distribution of households equipped with solar water heater, Continuous Multi-Purpose Household Survey (CMPHS) 2012, Republic of Mauritius**

Solar water heater	%
Equipped	19.7
Not equipped	80.3
<i>Interested to buy</i>	<i>41.2</i>
<i>Not interested to buy</i>	<i>39.1</i>
<b>Total</b>	<b>100.0</b>

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2012

**Table 7.16- Percentage distribution of households equipped with a solar water heater by geographical district, Continuous Multi-Purpose Household Survey (CMPHS) 2012, Republic of Mauritius**

Geographical district	%	
	Yes	No
Port Louis	12.6	87.4
Pamplemousses	26.7	73.3
Riviere du Rempart	26.4	73.6
Flacq	19.8	80.2
Grand Port	18.2	81.8
Savanne	12.0	88.0
Plaines Wilhems	21.9	78.1
Moka	22.2	77.8
Black River	19.3	80.7
Rodrigues	12.8	87.2
<b>Total</b>	<b>19.7</b>	<b>80.3</b>

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2012

**Table 7.17 - Percentage distribution of households not interested to buy a solar water heater by reason, Continuous Multi-Purpose Household Survey (CMPHS) 2012, Republic of Mauritius**

Reason	%
Not necessary	51.8
Too expensive	40.5
Not appropriate for region	2.6
Other reasons	5.1
<b>Total</b>	<b>100.0</b>

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2012

**Table 7.18 - Percentage distribution of households by measures taken to reduce electrical energy consumption, Continuous Multi-Purpose Household Survey (CMPHS) 2012, Republic of Mauritius**

Measures	% of households reporting	
	Yes	No
Turning off lights when not in use	97.5	2.5
Switch off electric appliances after use	80.1	19.9
Use low consumption electric bulbs	73.8	26.2
Use other energy sources instead of electricity for cooking	73.5	26.5
Use other energy sources instead of electricity for water heating	62.7	37.3
Iron clothes in batches	52.2	47.8
Use energy efficient electric appliances	32.4	67.6
Other measures	0.7	99.3

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2012

Note: Figures are based on sample results of 5,640 households surveyed

**Table 7.19 - Percentage distribution of households by awareness of environmental issues, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius**

Environmental Issues	%	
	Yes	No
1. Sustainable Development /Maurice Ile Durable	72.6	27.4
2. Environment friendly goods (e.g ozone friendly products)	60.0	40.0
3. Solar water heating system	96.1	3.9
4. Solar electricity system (solar Photovoltaic)	72.7	27.3
5. Sorting of recycle and non recycle wastes	80.8	19.2
6. Dangers of plastic bags	95.0	5.0

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2015

Note: Figures are based on sample results of 5,640 households surveyed

**Table 7.20 - Percentage distribution of households by awareness of "Environmental Awareness Campaigns", Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius**

Environmental Awareness Campaigns	%	
	Yes	No
1. Distribution of medicinal plants	57.7	42.3
2. Tree planting	78.1	21.9
3. Waste segregation projects at school	48.3	51.7
4. Composting	83.8	16.2
5. Rainwater harvesting	76.7	23.3
6. School endemic gardens	48.8	51.2
7. Say "No" to plastic bags	92.4	7.6

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2015

Note: Figures are based on sample results of 5,640 households surveyed

**Table 7.21 - Number and percentage of households reporting on awareness of "Say No to plastic bags" campaign by extent of success in reducing use of plastic bags, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius**

<b>Extent of success in reducing use of plastic bags</b>	<b>Number</b>	<b>%</b>
To a large extent	1,114	21.4
To some extent	3,457	66.4
Not at all	637	12.2
<b>Total</b>	<b>5,208</b>	<b>100.0</b>

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2015

Note: Figures are based on 5,208 households who are aware of "Say No to plastic bags" campaign

**Table 7.22 - Number and percentage of households reporting on extent of use of reusable long-lasting and eco-friendly shopping bags, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius**

<b>Extent of use of reusable long-lasting and eco-friendly shopping bags</b>	<b>Number</b>	<b>%</b>
Always	2,085	37.0
Sometimes	2,726	48.4
Very rarely	648	11.5
Never	179	3.1
<b>Total</b>	<b>5,638</b>	<b>100.0</b>

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2015

**Table 7.23 - Number and percentage of households by main option favoured to reduce plastic bags in the country, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius**

<b>Main option favoured to reduce plastic bags</b>	<b>Number</b>	<b>%</b>
Increase levy	820	14.6
Ban	4,336	77.0
Other	476	8.4
<b>Total</b>	<b>5,632</b>	<b>100.0</b>

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2015

**Table 7.24 - Number and percentage of households reporting on availability of drop-off bins in their locality for the disposal of segregated wastes, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius**

Availability of drop-off bins	Number	%
Yes	651	11.6
No	4,403	78.1
Not aware	580	10.3
<b>Total</b>	<b>5,634</b>	<b>100.0</b>

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2015

**Table 7.25 - Number and percentage of households reporting on segregation of wastes generated for recycling including composting, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius**

Waste segregation for recycling	Number	%
Yes	1,290	22.9
No	4,347	77.1
<b>Total</b>	<b>5,637</b>	<b>100.0</b>

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2015

**Table 7.26 - Percentage of households reporting on segregation of wastes generated for recycling including composting by type of wastes, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius**

Type of wastes segregated for recycling	%	
	Yes	No
1. Green waste for composting	71.8	28.2
2. PET (plastic) bottles	56.4	43.6
3. Paper	18.8	81.2
4. Glass	22.1	77.9
5. Other	3.7	96.3

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2015

Note: Figures presented in Tables 7.26 - 7.28 are based on 1,290 households who segregate waste for recycling

**Table 7.27 - Percentage of households reporting on disposal of segregated wastes by type of disposal method, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius**

Type of disposal method	%	
	Yes	No
1. Drop-off bins	20.8	79.2
2. Collection by private recyclers/individuals	50.7	49.3
3. Dropped at recyclers	6.6	93.4
4. Other	43.5	56.5

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2015

**Table 7.28 - Percentage of households reporting on difficulties to dispose of segregated wastes for recycling, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius**

Difficulties to dispose of segregated wastes for recycling	%	
	Yes	No
1. Drop-off bins are not easily available	60.4	39.6
2. Limited number of drop-off bins	37.6	62.4
3. Drop-off bins are not well labelled	15.0	85.0
4. Drop-off bins are not cleared up regularly	15.7	84.3
5. Lack of information about recyclers	41.2	58.8
6. No separate collection by Authorities	70.4	29.6
7. Other	3.0	97.0

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2015

**Table 7.29 - Percentage of households that would consider to start segregation of waste for recycling, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius**

Consider to start segregation of waste for recycling	%
Yes	66.6
No	33.4

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2015

Note: Figures presented in Tables 7.29 and 7.30 are based on 4,347 households who reported they are not segregating waste for recycling

**Table 7.30 - Percentage of households reporting on means to enhance participation in waste segregation, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius**

<b>Means to enhance participation in waste segregation</b>	<b>Yes</b>	<b>No</b>
1. Mass media sensitisation & awareness on the drop off bins	36.7	63.3
2. Drop off bins placed near to your locality	69.7	30.3
3. Ability to distinguish which garbage is recyclable	22.5	77.5
4. Collection of segregated wastes by Local Authorities	53.3	46.7
5. Other	4.4	95.6

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2015

**Table 7.31 - Percentage of households reporting on disposal of some selected waste, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius**

<b>Type of waste</b>	<b>Method of disposal</b>						
	Collection by municipal /district council	Collection by private recyclers	Dumped on own premises	Dumped on road side	Dumped on bareland	Other	Not applicable
1. Unused ICT equipment & accessories, unused domestic appliances	59.0	17.5	6.0	1.7	1.0	2.3	12.5
2. Old batteries	69.6	12.1	2.9	0.7	0.7	5.6	8.4
3. Old furniture (including mattresses)	46.0	10.0	9.9	1.9	2.9	9.3	20.0
4. Construction material wastes	22.8	13.3	23.5	1.2	3.6	2.3	33.3
5. Branches and trees	43.7	4.2	18.0	2.5	3.2	5.3	23.2

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2015



**Table 7.32 - Percentage of households reporting on engagement in activities related to environmental protection, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius**

Activities related to environmental protection	%	
	Yes	No
1. Use of energy efficient light bulbs (CFL and LED)	81.7	18.3
2. Use of solar photovoltaic panels to produce electricity	1.4	98.6
3. Carry out backyard gardening/rooftop gardening	37.2	62.8
4. Collect rainwater	27.8	72.2
5. Participate in awareness campaign on environmental issues	17.6	82.4

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2015

**Table 7.33 - Percentage of households reporting on awareness of "Climate Change", Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius**

Climate change awareness	%
Yes	89.5
No	10.5

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2015

**Table 7.34 - Percentage of households reporting on "Climate Changes" affecting their household, Continuous Multi-Purpose Household Survey 2015, Republic of Mauritius**

<b>Climate changes</b>	<b>Yes</b>	<b>No</b>	<b>Don't know/Not Applicable</b>
1. Weather extremes (flooding, cyclones, drought, etc)	67.4	30.2	2.5
2. Uncomfortable temperatures	87.3	11.3	1.4
3. Water scarcity	66.0	31.9	2.1
4. Scarcity of fresh foods	59.5	37.3	3.2
5. Threat to job security (e.g. tourism and agriculture)	28.0	55.6	16.4
6. Health issues (epidemics, dehydration, etc)	65.2	30.5	4.3
7. Landslide	11.7	71.0	17.3
8. Sea level rise	14.1	66.7	19.2

Source: Statistics Mauritius, Continuous Multi-Purpose Household Survey, 2015

Table 7.35 - Percentage distribution of establishments<sup>1</sup> taking measures to reduce energy consumption, Census of Economic Activities 2013 - Small Establishments, Republic of Mauritius

%

Industry group	Establishments having a Residual Current Device (RCD)	Establishments which take measures to reduce electricity consumption	Measures taken to reduce electrical energy consumption		
			Make use of low consumption electric bulbs	Make use of energy efficient electric appliances	Make use of solar water heater
<b>Total</b>	<b>52.2</b>	<b>39.7</b>	<b>36.7</b>	<b>19.4</b>	<b>4.6</b>
Manufacturing	84.8	59.5	53.4	29.2	6.5
Construction	-	17.1	15.9	12.3	2.9
Wholesale and retail trade; repair of motor vehicles, motorcycles	60.6	37.7	35.8	16.5	3.7
Transportation and storage	-	12.3	11.3	6.2	3.3
Accommodation and food service activities	81.7	65.6	60.6	30.6	9.0
Information and communication	92.3	44.5	37.5	15.4	-
Financial and insurance activities	94.4	60.6	57.8	27.8	5.6
Real estate activities	100.0	87.5	87.5	12.5	12.5
Professional, scientific and technical activities	91.4	68.2	62.1	48.9	3.4
Administrative and support service activities	66.7	45.1	44.1	26.2	7.8
Education	85.0	65.7	60.4	28.2	7.9
Human health and social work activities	93.3	68.1	62.8	42.5	9.9
Arts, entertainment and recreation	74.2	47.4	45.7	18.9	1.4
Other services	82.4	63.6	55.6	36.0	6.1

<sup>1</sup> Those engaging less than ten persons

**Table 7.36 - Percentage distribution of establishments<sup>1</sup> taking measures to reduce water consumption, Census of Economic Activities 2013 - Small Establishments, Republic of Mauritius**

%

Industry group	Establishments equipped with a potable water storage tank	Establishments which take measures to reduce water consumption	Measures to reduce water consumption			
			Make use of special taps	Make use of dual flush toilets	Use rain water	Clean vehicles at river/canal
<b>Total</b>	<b>30.5</b>	<b>22.2</b>	<b>9.8</b>	<b>9.0</b>	<b>7.9</b>	<b>3.8</b>
Manufacturing	42.5	28.5	10.7	13.3	13.5	3.8
Construction	-	20.6	8.5	-	11.0	6.8
Wholesale and retail trade; repair of motor vehicles, motorcycles	31.8	13.9	6.9	7.3	5.0	1.3
Transportation and storage	-	21.7	6.8	0.4	9.5	11.4
Accommodation and food service activities	64.6	36.3	16.2	19.7	11.9	2.0
Information and communication	37.9	16.0	7.7	8.3	-	-
Financial and insurance activities	57.1	17.1	5.7	14.3	-	-
Real estate activities	75.0	37.5	12.5	12.5	12.5	-
Professional, scientific and technical activities	65.0	41.8	31.3	28.2	1.0	-
Administrative and support service activities	56.6	25.8	11.7	17.5	4.6	3.8
Education	70.5	44.4	10.7	27.5	11.8	-
Human health and social work activities	72.5	39.2	26.3	25.7	1.2	-
Arts, entertainment and recreation	40.7	24.7	10.3	17.9	5.9	-
Other services	44.2	27.5	15.2	15.5	3.1	-

<sup>1</sup> Those engaging less than ten persons

## TECHNICAL NOTES

### Introduction

The statistics presented in this report are divided into seven main sections of which six correspond to the following components of the Framework for the Development of Environment Statistics 2013 (FDES 2013): (i) Environmental Conditions and Quality, (ii) Environmental Resources and their Use, (iii) Residuals, (iv) Extreme Events and Disasters, (v) Human Settlements and Environmental Health, (vi) Environment Protection, Management and Engagement. The seventh section relates to statistics on environment from surveys.

### Concept and coverage

The following United Nations manual has been used as a basis for the compilation of the data on environment statistics: Framework for the Development of Environment Statistics 2013 (FDES 2013).

The digest covers data for the period 2009 to 2018, wherever possible. Environmental data are collected over different time periods, ranging from decades in some major censuses to monthly, daily, hourly or even continual monitoring. Hence, in some cases, annual data are not available due to the periodicity of censuses and surveys.

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

### Concepts and definitions

#### Environment

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

Environmental indicator: A parameter or a value derived from parameters that points to, provides information about and/or describes the state of the environment, and has a significance extending beyond that directly associated with any given parametric value.

#### 1. Environmental Conditions and Quality

**Aquifer:** Underground geologic formation, or group of formations, containing groundwater that can supply wells and springs.

**Catchment area:** Area from which rainwater drains into river systems, lakes and sea.

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

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

**Coliform:** The term “Coliform” refers to a group of gram-negative aerobic to facultative anaerobic non-spore forming bacteria that ferments lactose at 35<sup>0</sup> C in 24 - 48 hours. Coliforms are widely distributed in the environment and form an important part of the flora in the gut of warm blooded animals and man. The coliform organisms, while relatively harmless, are almost present in water containing enteric pathogens such as waterborne intestinal parasites and viruses. Since they are relatively easy to isolate and survive longer than the disease-producing organisms, coliforms are a useful indicator of the possible presence of enteric pathogenic bacteria and viruses.

**Critically endangered :** Species under this category is considered to be facing an extremely high risk of extinction in the wild.

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

**Ecosystem** is a dynamic complex of plant, animal and microorganism communities and their non-living environment interacting as a functional unit.

**Endangered:** Species is considered to be facing a very high risk of extinction in the wild.

**Endemic:** Native to, and restricted to, a particular geographical region.

**Faecal coliform:** They are distinguished from Total Coliform by having the ability to ferment lactose at 35+- 0.5<sup>0</sup> C as well as at an elevated temperature of 44.5+- 0.2<sup>0</sup> . This temperature has been shown to be the best to select coliforms specifically of faecal origin. Any Total Coliform count may include faecal organisms. Faecal Coliform analysis is a more definitive test for recent faecal pollution. In most cases, water that is free of Total Coliform is considered free of disease-producing bacteria.

**Fauna:** The animal life of a particular region or time. It is generally regarded as that which is naturally occurring and indigenous.

**Flora:** The plant life of a particular region or time. It is generally regarded as that which is naturally occurring and indigenous.

**Forest:** Land spanning more than 0.5 hectares with trees higher than 5 metres and a canopy cover of more than 10 per cent, or trees able to reach these thresholds in situ. It does not include land that is predominantly under agricultural or urban land use.

**Geomorphology:** Study of the earth’s form and its evolution, both of which owe much to the action of water in rivers and glaciers.

**Least concern:** The category is applied to taxa that do not qualify (and are not close to qualifying) as threatened. It is important to emphasise that “least concern” simply means that, in terms of extinction risk, these species are of lesser concern than species in other threat categories. It does not imply that these species are of no conservation concern.

**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.

**Near threatened:** The category is applied to taxa that do not qualify as threatened now (critically endangered, endangered or vulnerable), but may be close to qualifying as threatened, and to taxa that do not currently meet the criteria for a threatened category, but are likely to do so if ongoing conservation actions abate or cease.

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

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

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

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

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

**River basin:** Total land area drained by a river or its tributaries.

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

**Total coliform:** Total coliform (TC) generally refers to the genera *Escherichia*, *Enterobacter*, *Citrobacter* and *Klebsiella* spp. All of these except, *Escherichia* sp, can exist as free-living saprophytes in addition to being intestinal organisms. In most cases, water that is free from Total Coliform is considered free of disease-producing bacteria.

**Vulnerable:** Species is considered to be facing a high risk of extinction in the wild.

**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.

## 2. Environmental Resources and their Use

**Aquaculture:** Aquaculture is the farming of aquatic organisms, including fish, molluscs, crustaceans and aquatic plants. Farming implies some form of intervention in the rearing process to enhance production, such as stocking, feeding, protection from predators, etc.

**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.

**Capacity:** The maximum power available from a power station at a point in time:

- *Installed capacity:* The nameplate capacity of the generator set.
- *Plant capacity:* The net capacity measured at the terminals of the stations, i.e, after deduction of the power absorbed by the auxiliary installations and the losses in the station transformers.
- *Effective capacity:* It is the plant capacity less any amount of derated capacity from the install capacity.

**Deforestation:** Deforestation is the clearing of tree formation and their replacement by non-forest land uses.

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

**Energy Balance:** Shows in a consistent accounting framework, the production, transformation and final consumption of all forms of energy for a given geographical area and a given period of time, with quantities expressed in terms of a single accounting unit for purposes of comparison and aggregation. The energy balance thus presents an overview of the energy produced and consumed in a system, matching input and output for a specific time period, usually a year.

**Final energy consumption:** Energy consumption by final user, i.e energy which is not being used for transformation into other forms of energy.

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

**Land use:** Land use reflects both the activities undertaken and the institutional arrangements put in place for a given area for the purposes of economic production, or the maintenance and restoration of environmental functions. Consequently, there are areas of land that are “not in use” by human activities.

**Livestock:** Livestock are animal species that are raised by humans for commercial purposes, consumption, or labour.

**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.

**Renewable energy:** Renewable energy is captured from sources that replenish themselves. It includes solar (photovoltaic and thermal), hydroelectric, geothermal, tidal action, wave action, marine (non-tidal currents, temperature differences and salinity gradients), wind and biomass energy, all of which are naturally replenished, even though their flow may be limited.

**Reused water:** It is wastewater supplied to a user for further use with or without prior treatment.

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

**Timber resources:** Timber resources are defined by volume of trees, living or dead, which can still be used for timber or fuel.

**Water abstraction:** It is the amount of water that is removed from any source, either permanently or temporarily, in a given period of time. Water is abstracted from surface and groundwater resources by economic activities and households. Water can be abstracted for own use or for distribution to other users.

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

### 3. Residuals

**Residuals** are flows of solid, liquid and gaseous materials, and energy that are discarded, discharged or emitted by establishments and households through processes of production, consumption or cumulation.



**Carbon dioxide equivalent (CO<sub>2</sub>-eq):** It is a measure used to compare the emissions from various greenhouse gases based upon their global warming potential (GWP). The carbon dioxide equivalent of a gas is derived by multiplying the weight of the gas by its associated Global Warming Potential (GWP).

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

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

**Carbon dioxide equivalent (CO<sub>2</sub>-eq):** It is a measure used to compare the emissions from various greenhouse gases based upon their global warming potential (GWP). The carbon dioxide equivalent of a gas is derived by multiplying the weight of the gas by its associated Global Warming Potential (GWP).

GHG	GWP
Carbon Dioxide CO <sub>2</sub>	1
Methane CH <sub>4</sub>	21
Nitrous Oxide N <sub>2</sub> O	310
Hydrofluorocarbon 134-a	1300

**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.

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

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

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

**Wastewater treatment:** Process to render wastewater fit to meet environmental standards or other quality norms.

#### 4. Extreme Events and Disasters

**Warnings:** The tropical cyclone warning system in Mauritius is as follows:

**Class I:** Issued 36 to 48 hours before Mauritius or Rodrigues is likely to be affected by gusts reaching 120 km/hr.

**Class II:** Issued so as to allow, as far as practicable, 12 hours of daylight before the occurrence of gusts of 120 km/hr.

**Class III:** Issued so as to allow, as far as practicable, 6 hours of daylight before the occurrence of gusts of 120 km/hr.

**Class IV:** Issued when gusts of 120 km/hr have been recorded and are expected to continue to occur.

**Termination:** Issued when there is no longer any appreciable danger of gusts exceeding 120 km/hr.

## 5. Human Settlements and Environmental Health

**Human settlements:** Refer to the totality of the human community, whether people live in large cities, towns or villages. They encompass the human population that resides in a settlement, the physical elements (e.g., shelter and infrastructure), services (e.g., water, sanitation, waste removal, energy and transport), and the exposure of humans to potentially deleterious environmental conditions.

**Buildings:** Independent, free-standing structure, comprising one or more rooms and other spaces, covered by a roof and usually enclosed within external walls or dividing walls which extend from the foundation to the roof.

**Housing unit:** A housing unit is a separate and independent place of abode intended for habitation by one household, or one not intended for habitation, but occupied for living purposes by a household.

## 6. Environment Protection, Management and Engagement

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

**Abbreviations**

a.m.s.l	above mean sea level
%	Percentage
000	Thousand
c.i.f	Cost, insurance, freight
CFU/ ml	Colony-forming unit per millilitre
EIA	Environmental Impact Assessment
f.o.b	free on board
Gg	Gigagram (thousand tonnes)
GWh	Gigawatt hour (million kWh)
hPa	Hectopascal
IUCN	International Union for Conservation of Nature
ktoe	Thousand tonnes of oil equivalent
kWh	Kilowatt hour
LPG	Liquefied Petroleum Gas
mm	Millimetre
m <sup>3</sup>	Cubic metres
Mm <sup>3</sup>	Million cubic metres
n.e.s	Not elsewhere specified
NPCS	National Parks and Conservation Service
PER	Preliminary Environmental Report
Rs	Rupees
Rs mn	Rupees million
Toe	Tonne of oil equivalent
TSP	Total suspended particles
ug/m <sup>3</sup>	Micrograms per cubic metre
mg/l	Milligram per litre
ug/l	Micrograms per litre
ug/l	Micrograms per litre
	0 Nil
	NA Not available
	Napp Not applicable

**Conversion factor**

1 square kilometer = 100 hectares