



**Republic of Mauritius**  
**Water Account, Mauritius 2018**

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**Statistics Mauritius**

**Ministry of Finance, Economic Planning and Development**

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## Foreword

This report is the third issue prepared by Statistics Mauritius presents and presents Water Accounts for years 2014 and 2018 based on the UN System of Environment – Economic Accounts (SEEA).

Other indicators on water covering the period 2005 to 2018 are also presented. Wherever possible, latest data available are presented and these may be subject to revision in later issues. All data, unless otherwise stated, refer to the Island of Mauritius.

The report has been prepared with the inputs from the Water Resources Unit of the Ministry of Minister of Energy and Public Utilities, the Central Water Authority and several other organisations.

The cooperation and assistance of all these organisations are gratefully acknowledged.

The report, together with other publications released by Statistics Mauritius, is available on the website <http://statsmauritius.govmu.org>.

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**REPUBLIC OF MAURITIUS**

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## Contents

|  |    |
|--|----|
| Foreword.....  | II |
| List of Symbols and Abbreviations.....                                 | V  |
| 1. Introduction .....  | 1  |
| 2. Water resources.....  | 1  |
| 3. Physical Water Supply and Use (Figure 1 & 2, Table 3 – 7).....      | 2  |
| 3.1 Water Abstraction .....  | 2  |
| 3.2 Water utilisation .....  | 4  |
| 3.3 Water consumption.....   | 4  |
| 3.4 Water return to the economy .....                                  | 5  |
| 4. Water Asset Accounts .....  | 16 |
| Concepts and Methodologies .....                                       | 19 |
| Annex A.....   | 22 |
| Table A1: Selected water indicators, 2010-2018 .....                   | 22 |
| Table A2: Water Supply by sector, Island of Mauritius, 2005-2018 ..... | 23 |
| Table A3: Water abstraction, Island of Mauritius, 2005 – 2018.....     | 24 |

## List of Tables

|   |   |
|---|---|
| Table 1: Water Availability, 2016-2018, Island of Mauritius .....   | 1 |
| Table 2: Fresh water abstraction, 2016-2018.....                    | 2 |
| Table 3.1: Detailed Physical Supply and Use, Mauritius - 2014.....  | 6 |
| Table 3.2: Detailed Physical Supply and Use, Mauritius - 2014.....  | 7 |
| Table 4.1: Detailed Physical Supply and Use, Mauritius - 2015 ..... | 8 |
| Table 4.2: Detailed Physical Supply and Use, Mauritius - 2015 ..... | 9 |

|  |    |
|--|----|
| Table 5.1: Detailed Physical Supply and Use, Mauritius - 2016..... | 10 |
| Table 5.2: Detailed Physical Supply and Use, Mauritius - 2016..... | 11 |
| Table 6.1: Detailed Physical Supply and Use, Mauritius - 2017..... | 12 |
| Table 6.2: Detailed Physical Supply and Use, Mauritius - 2017..... | 13 |
| Table 7.1: Detailed Physical Supply and Use, Mauritius - 2018..... | 14 |
| Table 7.2: Detailed Physical Supply and Use, Mauritius - 2018..... | 15 |
| Table 8: Water Asset Account, Mauritius – 2016.....                | 16 |
| Table 9: Water Asset Account, Mauritius – 2017.....                | 17 |
| Table 10: Water Asset Account, Mauritius – 2018.....               | 16 |

### List of Figures

|   |    |
|---|----|
| Figure 1 : Water flows in the environment and economy in Mm <sup>3</sup> – 2017.....  | 3  |
| Figure 2 : Water flows in the environment and economy in Mm <sup>3</sup> – 2018.....  | 3  |
| Figure3: Water flows to and from inland water resources in Mm <sup>3</sup> –2018..... | 18 |

## List of Symbols and Abbreviations

|                 |   |
|-----------------|---|
| -               | Nil or negligible                                 |
| ...             | Not available or not applicable                   |
| CPC             | Central Product Classification                    |
| CWA             | Central Water Authority                           |
| m <sup>3</sup>  | Cubic metres                                      |
| hm <sup>3</sup> | Hectometre cube (million cubic metres)            |
| inhab           | Inhabitants                                       |
| IRWS            | International Recommendation for Water Statistics |
| ISIC            | International Standard Industrial Classification  |
| km              | Kilometre   |
| KWh             | Kilowatt hour                                     |
| L               | Litre   |
| mm              | Millimetres                                       |
| Mm <sup>3</sup> | Million cubic metres                              |
| %               | Percent   |
| km <sup>2</sup> | Square kilometres                                 |
| SEEA            | System of Environmental-Economic Accounting       |
| TRWR            | Total Renewable Water Resources                   |
| UFW             | Unaccounted For Water                             |
| UN              | United Nations                                    |
| WRU             | Water Resources Unit                              |

## 1. Introduction

This report on Water Accounts shows the stock and flow of water in physical terms between the environment and the different sectors of the economy for the Island of Mauritius. The accounts include rainfall, water abstractions (i.e. withdrawals from reservoirs, rivers and boreholes), water uses, and wastewater, among others.

The Water Accounts are based on the UN System of Environmental-Economic Accounting of Water (SEEA-Water), the System of Environmental-Economic Accounting - Central Framework of 2012 (SEEA-CF) and the International Recommendation for Water Statistics (IRWS).

## 2. Water resources

In 2018, a total amount of 5,252 Mm<sup>3</sup> of water was received from 2,816 mm of rainfall or precipitation whereas in 2017, an amount of 3,991 Mm<sup>3</sup> of water is recorded from 2,134 mm of rainfall, showing an increase of around 30% and 40% in excess of the long term mean of 2,011 mm for the period 1971 – 2000.

Out of the water received from precipitation, 60% (3,151 Mm<sup>3</sup>) went as surface runoff, 10% or 525 Mm<sup>3</sup> recharged groundwater resources and the remaining 30% (1,576 Mm<sup>3</sup>) were evapotranspiration from plants, water bodies and land surfaces.

Total water abstractions decreased slightly over the years by 0.8% in 2017 and 3.9% in 2018. On the other hand, Total Renewable Water Resources (TRWR) increases from 2,475 Mm<sup>3</sup> in 2016 to 2,794 Mm<sup>3</sup> in 2017 and then to 3,676 Mm<sup>3</sup> in 2018. TRWR per capita in 2018 worked out to 3,008 m<sup>3</sup>, above the threshold of 1,700 m<sup>3</sup> for water stress countries.

Total water abstracted from the environment for use within the economy and for households as a proportion of available water declined from 25.1 % in 2016 to 16.1 % in 2018. Table 1 below shows water availability for the years 2016 to 2018.

**Table 1: Water Availability, 2016-2018, Island of Mauritius**

| Water Availability                                      | 2016  | 2017  | 2018  |
|---|-------|-------|-------|
| Precipitation (rainfall in height), mm                  | 1,896 | 2,134 | 2,816 |
| Precipitation (rainfall in volume), Mm <sup>3</sup>     | 3,536 | 3,991 | 5,252 |
| Surface run off, Mm <sup>3</sup>                        | 2,122 | 2,395 | 3,151 |
| Evapotranspiration, Mm <sup>3</sup>                     | 1,061 | 1,197 | 1,576 |
| Net Recharge to Groundwater, Mm <sup>3</sup>            | 353   | 399   | 525   |
| Total Renewable Water Resources (TRWR), Mm <sup>3</sup> | 2,475 | 2,794 | 3,676 |
| Total Water abstractions*, Mm <sup>3</sup>              | 620   | 615   | 591   |
| Total Water abstracted as proportion of TRWR (%)        | 25.1  | 22.0  | 16.1  |

\*excluding hydroelectricity

### 3. Physical Water Supply and Use (Figure 1 & 2, Table 3 – 7)

The physical supply and use tables for water describe the flows of water from the environment to the economy, within the economy, and from the economy to the environment. The balance between the water flows for the whole economy can be written as follows:

$$\begin{aligned}
 & \textit{Total abstraction + use of water received from other economic units} \\
 & \qquad \qquad \qquad = \\
 & \textit{Supply of water to other economic units + total returns + water consumption} \\
 & \qquad \qquad \qquad \text{OR} \\
 & \textit{Total abstraction = total returns + water consumption} \\
 & \textit{since total supply of water to other economic units is equal to the total water use received from} \\
 & \qquad \qquad \qquad \textit{other economic units.}
 \end{aligned}$$

Water consumption gives an indication of the amount of water that is lost by the economy during use, in the sense that the water has entered the economy but has not returned to either water resources or the sea. This happens during use because part of the water is incorporated into products, evaporated, transpired by plants or simply consumed by households or livestock.

#### 3.1 Water Abstraction

In 2018, 994 Mm<sup>3</sup> of water extracted from the environment, compared to 933 Mm<sup>3</sup> in 2017. Out of these, 40.0% was taken up for hydropower, 30.6% extracted by agriculture, 28.3% by the water provider (CWA) and the remaining 1.1% by manufacturing sector. Table 2 shows breakdown of water abstracted for the years 2016 to 2018.

**Table 2: Fresh water abstraction, 2016-2018**

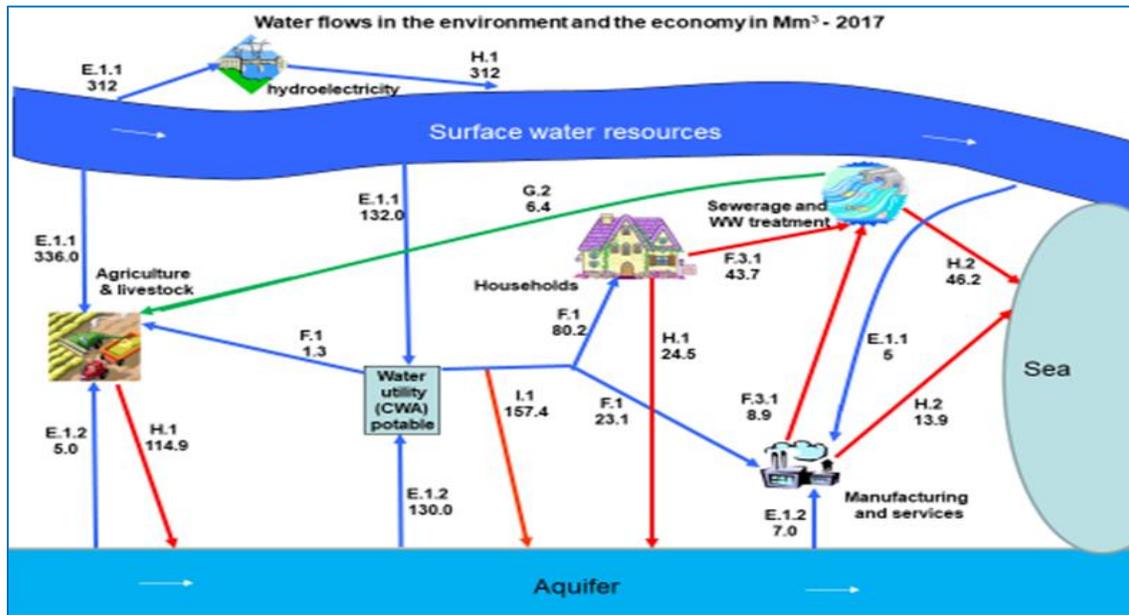
| Sources of abstraction             | 2016            |              | 2017            |              | 2018            |              |
|------------------------------------|-----------------|--------------|-----------------|--------------|-----------------|--------------|
|                                    | Mm <sup>3</sup> | %            | Mm <sup>3</sup> | %            | Mm <sup>3</sup> | %            |
| <b>Agriculture</b>                 | 357             | 37.1         | 347             | 37.2         | 304             | 30.6         |
| <b>Manufacturing</b>               | 12              | 1.2          | 12              | 1.3          | 11              | 1.1          |
| <b>Hydropower</b>                  | 341             | 35.5         | 312             | 33.4         | 398             | 40.0         |
| <b>Water Supply Industry (CWA)</b> | 257             | 26.7         | 262             | 28.1         | 281             | 28.3         |
| <b>TOTAL</b>                       | <b>961</b>      | <b>100.0</b> | <b>933</b>      | <b>100.0</b> | <b>994</b>      | <b>100.0</b> |

\*As from year 2016, the total for agriculture includes re-use of treated waste water (Non-Conventional)

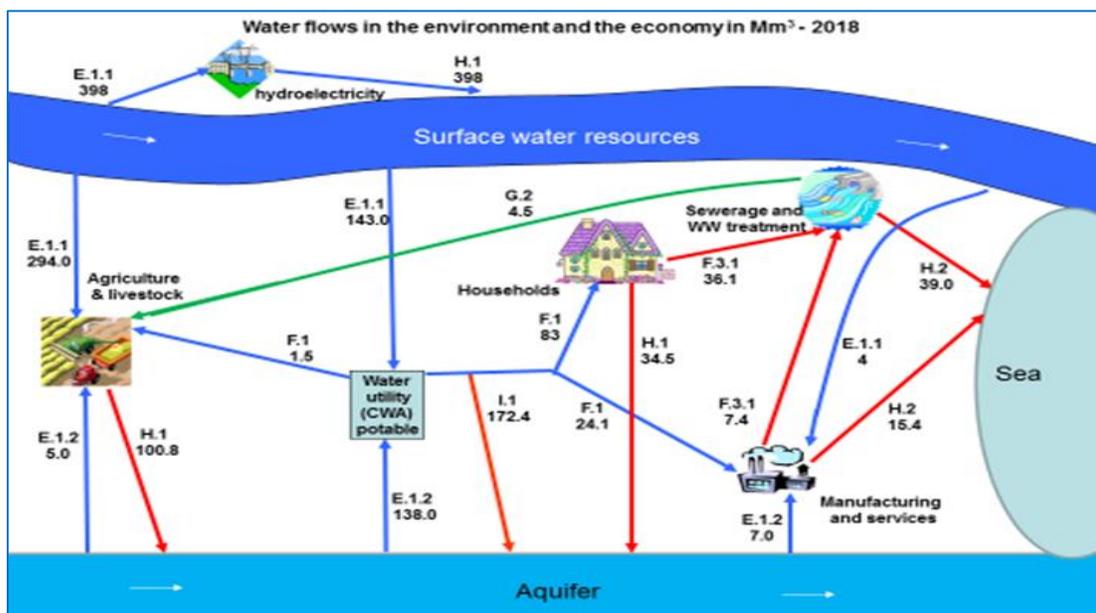
Of the 281 Mm<sup>3</sup> of water extracted in 2018 by the CWA, around half was from surface water and the other half from groundwater sources. After treatment, 83 Mm<sup>3</sup> were distributed to households, 24.1 Mm<sup>3</sup> to the manufacturing and services industries, and 1.5 Mm<sup>3</sup> to the agriculture industries. The remaining 172.4 Mm<sup>3</sup> was lost in distribution because of leakages (Unaccounted for Water - UFW).

Water return to the environment amounted to 764.6 Mm<sup>3</sup> of which 398 Mm<sup>3</sup> by hydropower generation while water incorporated in products/ evaporation/ transpiration amounted to 229.1Mm<sup>3</sup>.

**Figure 1 : Water flows in the environment and economy in Mm<sup>3</sup> – 2017**



**Figure 2: Water flows in the environment and economy in Mm<sup>3</sup> – 2018**



| Directions | Details  |
|------------|--|
| E.1.1      | Abstraction from surface water   |
| E.1.2      | Abstraction from ground water  |
| F.1        | Water supplied by resident economic units to resident economic units                           |
| F.3.1      | Water supplied by resident economic units to resident economic units for treatment or disposal |
| G.4.2      | Wastewater received for further use  |
| H.1        | Returns of water to the environment by economic units to inland water resources                |
| H.2        | Returns of water to the environment by economic units to the sea                               |
| I.1        | Losses of water in distribution  |

### 3.2 Water utilisation

In 2018, total water utilized amounted to 1145.6 Mm<sup>3</sup>, 5% more than the 1090.6 Mm<sup>3</sup> of 2017. The hydropower generation industries (398 Mm<sup>3</sup> or 34.7%) and the agriculture industry (305 Mm<sup>3</sup> or 26.6%) are the two largest users of water. They were followed by CWA (281.0 Mm<sup>3</sup> or 24.5%) and households (83 Mm<sup>3</sup> or 7.2%). The “manufacturing and services industries” is the smallest user with 35.1 Mm<sup>3</sup> of water utilised or 3.1% of total.

The corresponding figures for 2017 were:

Agriculture industry: 348 Mm<sup>3</sup> or 32%,  
Electricity industry: 312 Mm<sup>3</sup> or 28.6%,  
CWA: 262 Mm<sup>3</sup> or 24%,  
Households: 80.3 Mm<sup>3</sup> or 7.4%, and  
Manufacturing and services industries: 35.1 Mm<sup>3</sup> or 3.2%,

### 3.3 Water consumption

Water consumption refers to the water incorporated into products, evaporated, transpired by plants or simply consumed by households or livestock.

In 2018, total water consumption was 229.1 Mm<sup>3</sup>, a decrease of 2.2% compared to the figure of 257.9 Mm<sup>3</sup> for 2017. The highest water consumption was by agriculture industry (305.0 Mm<sup>3</sup> or 89%) whilst both manufacturing sector (12.3 Mm<sup>3</sup>) and households (12.5 Mm<sup>3</sup>) each represented 5.4% of total consumption.

The corresponding figures for 2017 were:

Agriculture industries – 233.6 Mm<sup>3</sup> or 90.6%  
Households – 12 Mm<sup>3</sup> or 4.7% and  
Manufacturing and services industries – 12.3 Mm<sup>3</sup> or 4.7%

### **3.4 Water return to the economy**

The total amount of water that is returned to the economy adds up to 764.6 Mm<sup>3</sup> in 2018, compared to 675.3 Mm<sup>3</sup> in 2017. The electricity industry returned 398 Mm<sup>3</sup> (that is all the water which is abstracted for hydropower generation) to the economy, the agricultural sector 100.8 Mm<sup>3</sup> as irrigation water and CWA 172.4 Mm<sup>3</sup> of water as a result of losses in distribution due to leakages. For the remaining sectors, households returned 70.6 Mm<sup>3</sup> of which 36.1 Mm<sup>3</sup> through sewerage and water system treatment and 34.5 directly into the environment and manufacturing and services, the remaining 22.8 Mm<sup>3</sup>.

**Table 3.1: Detailed Physical Supply and Use, Mauritius - 2014**

| A. Physical Use table 2014 (millions of cubic metres) |   | ISIC 01-03  | ISIC 05-33,<br>41-<br>43,38,39,45-<br>99 | ISIC 3510            | ISIC 3600                               | ISIC 3700  | Total       | Households  |     | Total         |
|---|---|-------------|--|----------------------|---|--|-------------|-------------|-----|---------------|
|   |   | Agriculture | Manufacture<br>re and<br>services        | Hydroelect<br>ricity | Water<br>utility<br>(drinking<br>water) | Sewerage<br>(sewage<br>collection<br>and<br>treatment) |             |             |     |               |
| From the<br>environm<br>ent                           | <b>1. Total Abstraction<br/>( = 1.a + 1.b = 1.i + 1.ii)</b>   | <b>373</b>  | <b>13</b>                                | <b>275</b>           | <b>234</b>                              |  | <b>895</b>  |             |     | <b>895</b>    |
|   | 1.a. Abstraction for own use                                  | 373         | 13                                       | 275                  |   |  | 661         |             |     | 661           |
|   | Hydroelectric power generation                                |             |  | 275                  |   |  | 275         |             |     | 275           |
|   | Irrigation water  | 373         |  |                      |   |  | 373         |             |     | 373           |
|   | Mine water  |             |  |                      |   |  |             |             |     |               |
|   | Urban run-off   |             |  |                      |   |  |             |             |     |               |
|   | cooling water   |             |  |                      |   |  |             |             |     |               |
|   | Other   |             |  |                      |   |  |             |             |     |               |
|   | 1.b. Abstraction for distribution                             |             |  |                      | 234                                     |  | 234         |             |     | 234           |
|   | <b>1.i. From inland water resources</b>                       | <b>373</b>  | <b>13</b>                                | <b>275</b>           | <b>234</b>                              |  | <b>895</b>  |             |     | <b>895</b>    |
| 1.i.1. Surface water                                  | 367   | 7           | 275                                      | 115                  |   | 764  |             |             | 764 |               |
| 1.i.2. Ground water                                   | 6   | 6           |  | 119                  |   | 131  |             |             | 131 |               |
| 1.i.3. Soil water                                     |   |             |  |                      |   |  |             |             |     |               |
| 1.ii. Collection of precipitation                     |   |             |  |                      |   |  |             |             |     |               |
| 1.iii. Abstraction from the sea                       |   |             |  |                      |   |  |             |             |     |               |
| Within the<br>economy                                 | <b>2. Use of water received from other<br/>economic units</b> | <b>6.5</b>  | <b>21.3</b>                              |                      |   | <b>40.5</b>  | <b>68.3</b> | <b>74.2</b> |     | <b>142.5</b>  |
|   | of which:   |             |  |                      |   |  |             |             |     |               |
|   | 2.a. Reused water   | 5.1         |  |                      |   |  |             |             |     |               |
|   | 2.b. Wastewater to sewerage                                   |             |  |                      |   | 40.5   | 40.5        |             |     | 40.5          |
| 2.c. Desalinated water                                |   |             |  |                      |   |  |             |             |     |               |
| <b>3. Total use of water ( =1 + 2)</b>                | <b>379.5</b>  | <b>34.3</b> | <b>275</b>                               | <b>234</b>           | <b>40.5</b>                             | <b>963.3</b>   | <b>74.2</b> |             |     | <b>1037.5</b> |

**Table 3.2: Detailed Physical Supply and Use, Mauritius - 2014**

| B. Physical Supply table 2014 (millions of cubic metres) |           |  | ISIC 01-03                         | ISIC 05-33, 41-43,38,39,45-99 | ISIC 3510        | ISIC 3600                      | ISIC 3700                                  | Total        | Households  | Total        |
|--|-----------|--|------------------------------------|-------------------------------|------------------|--------------------------------|--|--------------|-------------|--------------|
|  |           |  | Agriculture                        | Manufacture and services      | Hydroelectricity | Water utility (drinking water) | Sewerage (sewage collection and treatment) |              |             |              |
| Within the economy                                       | <b>4.</b> | <b>Supply of water to other economic units of which:</b> |                                    | <b>6.9</b>                    |                  | <b>96.9</b>                    |  | <b>103.8</b> | <b>33.6</b> | <b>137.4</b> |
|  | 4.a.      | Reused water   |                                    | 6.9                           |                  |                                |  | <b>6.9</b>   | 33.6        | <b>40.5</b>  |
|  | 4.b.      | Wastewater to sewerage                                   |                                    |                               |                  |                                |  |              |             |              |
|  | 4.c.      | Desalinated water  |                                    |                               |                  |                                |  |              |             |              |
| Into the environment                                     | <b>5.</b> | <b>Total returns (= 5.a + 5.b)</b>                       | <b>125.2</b>                       | <b>15.7</b>                   | <b>275</b>       | <b>137.1</b>                   | <b>40.5</b>                                | <b>593.5</b> | <b>29.5</b> | <b>623.0</b> |
|  |           | Hydroelectric power generation                           |                                    |                               | 275              |                                |  | 275          |             | 275          |
|  |           | Irrigation water   | 125.2                              |                               |                  |                                |  |              |             |              |
|  |           | Mine water   |                                    |                               |                  |                                |  |              |             |              |
|  |           | Urban run-off  |                                    |                               |                  |                                |  |              |             |              |
|  |           | cooling water  |                                    |                               |                  |                                |  |              |             |              |
|  |           | Losses in distribution because of I                      |                                    |                               |                  | 137.1                          |  | 137.1        |             | <b>137.1</b> |
|  |           | Treated wastewater                                       |                                    |                               |                  |                                | 40.5                                       | 40.5         |             | <b>40.5</b>  |
|  |           | Other  |                                    |                               |                  |                                |  | 0            |             | <b>0</b>     |
|  |           | 5.a.   | To inland water (= 5.a.1 + 5.a.2 + | 125.2                         |                  | 275                            | 137.1                                      |              | 537.3       | 29.5         |
|  | 5.a.1.    | Surface water  |                                    |                               | 275              |                                |  | 275          |             | 275          |
|  | 5.a.2.    | Groundwater  | 125.2                              |                               |                  | 137.1                          |  | 262.3        | 29.5        | 291.8        |
|  | 5.a.3.    | Soil water   |                                    |                               |                  |                                |  |              |             |              |
|  | 5.b.      | To other sources (e.g. s                                 |                                    | 15.7                          |                  |                                | 40.5                                       | 56.2         |             | 56.2         |
|  | <b>6.</b> | <b>Total supply of water (= 4 + 5)</b>                   | <b>125.2</b>                       | <b>22.6</b>                   | <b>275</b>       | <b>234</b>                     | <b>40.5</b>                                | <b>697.4</b> | <b>63.1</b> | <b>760.4</b> |
|  | <b>7.</b> | <b>Consumption (= 3 - 6)</b>                             | <b>254.3</b>                       | <b>11.7</b>                   | <b>0</b>         | <b>0</b>                       | <b>0</b>                                   | <b>266</b>   | <b>11.1</b> | <b>277.1</b> |
|  | 7.a.      | Losses of distribution of leakages                       |                                    |                               |                  |                                |  |              |             |              |

**Table 4.1: Detailed Physical Supply and Use, Mauritius – 2015**

|  |   | ISIC 01-03  | ISIC 05-33,<br>41-<br>43,38,39,45-<br>99 | ISIC 3510            | ISIC 3600                               | ISIC 3700  |               |             |     |               |
|--|---|-------------|--|----------------------|---|--|---------------|-------------|-----|---------------|
| <b>A. Physical Use table 2015 (millions of cubic metres)</b> |   | Agriculture | Manufactur<br>e and<br>services          | Hydroelectr<br>icity | Water<br>utility<br>(drinking<br>water) | Sewerage<br>(sewage<br>collection<br>and<br>treatment) | Total         | Households  |     | Total         |
| <b>From the<br/>environm<br/>ent</b>                         | <b>1. Total Abstraction<br/>( = 1.a + 1.b = 1.i + 1.ii)</b> | <b>343</b>  | <b>14</b>                                | <b>361</b>           | <b>255</b>                              |  | <b>973</b>    |             |     | <b>973</b>    |
|  | 1.a. Abstraction for own use                                | 343         | 14                                       | 361                  |   |  | 718           |             |     | 718           |
|  | Hydroelectric power generation                              |             |  | 361                  |   |  | 361           |             |     | 361           |
|  | Irrigation water  | 343         |  |                      |   |  | 343           |             |     | 343           |
|  | Mine water  |             |  |                      |   |  |               |             |     |               |
|  | Urban run-off   |             |  |                      |   |  |               |             |     |               |
|  | cooling water   |             |  |                      |   |  |               |             |     |               |
|  | Other   |             |  |                      |   |  |               |             |     |               |
|  | 1.b. Abstraction for distribution                           |             |  |                      | 255                                     |  | 255           |             |     | 255           |
|  | <b>1.i. From inland water resources</b>                     | <b>343</b>  | <b>14</b>                                | <b>361</b>           | <b>255</b>                              |  | <b>973</b>    |             |     | <b>973</b>    |
| 1.i.1. Surface water   | 338   | 7           | 361                                      | 122                  |   | 828  |               |             | 828 |               |
| 1.i.2. Ground water  | 5   | 7           |  | 133                  |   | 145  |               |             | 145 |               |
| 1.i.3. Soil water  |   |             |  |                      |   |  |               |             |     |               |
| 1.ii. Collection of precipitation                            |   |             |  |                      |   |  |               |             |     |               |
| 1.iii. Abstraction from the sea                              |   |             |  |                      |   |  |               |             |     |               |
| <b>Within<br/>the<br/>economy</b>                            | <b>2. Use of water received from<br/>of which:</b>          | <b>6</b>    | <b>21.8</b>                              |                      |   | <b>49.4</b>  | <b>77.2</b>   | <b>75.1</b> |     | <b>152.3</b>  |
|  | 2.a. Reused water   | 4.7         |  |                      |   |  |               |             |     |               |
|  | 2.b. Wastewater to sewerage                                 |             |  |                      |   | 49.4   | 49.4          |             |     | 49.4          |
|  | 2.c. Desalinated water                                      |             |  |                      |   |  |               |             |     |               |
|  | <b>3. Total use of water ( =1 + 2)</b>                      | <b>349</b>  | <b>35.8</b>                              | <b>361</b>           | <b>255</b>                              | <b>49.4</b>  | <b>1050.2</b> | <b>75.1</b> |     | <b>1125.3</b> |

**Table 4.2: Detailed Physical Supply and Use, Mauritius – 2015**

| B. Physical Supply table 2015 (millions of cubic metres) |   | ISIC 01-03   | ISIC 05-33, 41-43,38,39,45-99 | ISIC 3510        | ISIC 3600                      | ISIC 3700                                  | Total        | Households  |   | Total        |
|--|---|--------------|-------------------------------|------------------|--------------------------------|--|--------------|-------------|---|--------------|
|  |   | Agriculture  | Manufacture and services      | Hydroelectricity | Water utility (drinking water) | Sewerage (sewage collection and treatment) |              |             |   |              |
| Within the economy                                       | <b>4. Supply of water to other</b>        |              | <b>8.4</b>                    |                  | <b>98.2</b>                    |  | <b>106.6</b> | <b>41.0</b> |   | <b>147.6</b> |
|  | of which:                                 |              |                               |                  |                                |  |              |             |   |              |
|  | 4.a. Reused water                         |              | 8.4                           |                  |                                |  | 8.4          | 41.0        |   | 49.4         |
|  | 4.b. Wastewater to sewerage               |              |                               |                  |                                |  |              |             |   |              |
|  | 4.c. Desalinated water                    |              |                               |                  |                                |  |              |             |   |              |
| Into the environment                                     | <b>5. Total returns (= 5.a + 5.b)</b>     | <b>115.2</b> | <b>15</b>                     | <b>361</b>       | <b>156.8</b>                   | <b>49.4</b>                                | <b>697.4</b> | <b>22.8</b> |   | <b>720.2</b> |
|  | Hydroelectric power generation            |              |                               | 361              |                                |  | 361          |             |   | 361          |
|  | Irrigation water                          | 115.2        |                               |                  |                                |  | 115.2        |             |   | 115.2        |
|  | Mine water                                |              |                               |                  |                                |  |              |             |   |              |
|  | Urban run-off                             |              |                               |                  |                                |  |              |             |   |              |
|  | cooling water                             |              |                               |                  |                                |  |              |             |   |              |
|  | Losses in distribution because of leakage |              |                               |                  | 156.8                          |  | 156.8        |             |   | 156.8        |
|  | Treated wastewater                        |              |                               |                  |                                | 49.4                                       | 49.4         |             |   | 49.4         |
| Other  |   |              |                               |                  |                                | 0  |              |             | 0 |              |
|  | 5.a. To inland water                      | 115.2        |                               | 361              | 156.8                          |  | 633          | 22.8        |   | 655.8        |
|  | (= 5.a.1 + 5.a.2 + 5.a.3)                 |              |                               |                  |                                |  |              |             |   |              |
|  | 5.a.1. Surface water                      |              |                               | 361              |                                |  | 361          |             |   | 361          |
|  | 5.a.2. Groundwater                        | 115.2        |                               |                  | 156.8                          |  | 272.0        | 22.8        |   | 294.8        |
|  | 5.a.3. Soil water                         |              |                               |                  |                                |  |              |             |   |              |
|  | 5.b. To other sources (e.g. rain)         |              | 15.0                          |                  |                                | 49.4                                       | 64.4         |             |   | 64.4         |
|  | <b>6. Total supply of water (= 4 + 5)</b> | <b>115.2</b> | <b>23.4</b>                   | <b>361</b>       | <b>255</b>                     | <b>49.4</b>                                | <b>804.0</b> | <b>63.8</b> |   | <b>867.9</b> |
|  | <b>7. Consumption (= 3 - 6)</b>           | <b>233.8</b> | <b>12.4</b>                   | <b>0</b>         | <b>0</b>                       | <b>0</b>                                   | <b>246</b>   | <b>11.3</b> |   | <b>257.4</b> |
|  | of which:                                 |              |                               |                  |                                |  |              |             |   |              |
|  | 7.a. Losses of distribution of leakages   |              |                               |                  |                                |  |              |             |   |              |

**Table 5.1: Detailed Physical Supply and Use, Mauritius – 2016**

| A. Physical Use table 2016 (millions of cubic metres) |   | ISIC 01-03  | ISIC 05-33,<br>41-<br>43, 38, 39, 45-<br>99 | ISIC 3510            | ISIC 3600                               | ISIC 3700  | Total       | Households  |     | Total         |
|---|---|-------------|---|----------------------|---|--|-------------|-------------|-----|---------------|
|   |   | Agriculture | Manufactur<br>e and<br>services             | Hydroelectr<br>icity | Water<br>utility<br>(drinking<br>water) | Sewerage<br>(sewage<br>collection<br>and<br>treatment) |             |             |     |               |
| From the<br>environm<br>ent                           | <b>1. Total Abstraction<br/>( = 1.a + 1.b = 1.i + 1.ii)</b> | <b>351</b>  | <b>12</b>                                   | <b>341</b>           | <b>257</b>                              |  | <b>961</b>  |             |     | <b>961</b>    |
|   | 1.a. Abstraction for own use                                | 351         | 12  | 341                  |   |  | 704         |             |     | 704           |
|   | Hydroelectric power generated                               |             |   | 341                  |   |  | 341         |             |     | 341           |
|   | Irrigation water  | 351         |   |                      |   |  | 351         |             |     | 351           |
|   | Mine water  |             |   |                      |   |  |             |             |     |               |
|   | Urban run-off   |             |   |                      |   |  |             |             |     |               |
|   | cooling water   |             |   |                      |   |  |             |             |     |               |
|   | Other   |             |   |                      |   |  |             |             |     |               |
|   | 1.b. Abstraction for distribution                           |             |   |                      | 257                                     |  | 257         |             |     | 257           |
|   | <b>1.i. From inland water resources</b>                     | <b>351</b>  | <b>12</b>                                   | <b>341</b>           | <b>257</b>                              | <b>961</b>   | <b>961</b>  |             |     | <b>961</b>    |
| 1.i.1. Surface water                                  | 344   | 5           | 341   | 124                  | 814                                     | 814  |             |             | 814 |               |
| 1.i.2. Ground water                                   | 7   | 7           |   | 133                  | 147                                     | 147  |             |             | 147 |               |
| 1.i.3. Soil water                                     |   |             |   |                      |   |  |             |             |     |               |
| 1.ii. Collection of precipitation                     |   |             |   |                      |   |  |             |             |     |               |
| 1.iii. Abstraction from the sea                       |   |             |   |                      |   |  |             |             |     |               |
| Within<br>the<br>economy                              | <b>2. Use of water received from<br/>of which:</b>          | <b>7.4</b>  | <b>22.6</b>                                 |                      |   | <b>50.4</b>  | <b>80.4</b> | <b>76.3</b> |     | <b>156.7</b>  |
|   | 2.a. Reused water   | 6.0         |   |                      |   |  |             |             |     |               |
|   | 2.b. Wastewater to sewerage                                 |             |   |                      |   | 50.4   | 50.4        |             |     | 50.4          |
|   | 2.c. Desalinated water                                      |             |   |                      |   |  |             |             |     |               |
| <b>3. Total use of water ( =1 + 2)</b>                | <b>358.4</b>  | <b>34.6</b> | <b>341</b>                                  | <b>257</b>           | <b>50.4</b>                             | <b>1041.4</b>  | <b>76.3</b> |             |     | <b>1117.7</b> |

**Table 5.2: Detailed Physical Supply and Use, Mauritius – 2016**

| B. Physical Supply table 2016 (millions of cubic metres) |  | ISIC 01-03   | ISIC 05-33, 41-43,38,39,45-99 | ISIC 3510        | ISIC 3600                      | ISIC 3700                                  | Total        | Households  |       | Total        |
|--|--|--------------|-------------------------------|------------------|--------------------------------|--|--------------|-------------|-------|--------------|
|  |  | Agriculture  | Manufacture and services      | Hydroelectricity | Water utility (drinking water) | Sewerage (sewage collection and treatment) |              |             |       |              |
| Within the economy                                       | <b>4. Supply of water to other of which:</b>   |              | <b>8.6</b>                    |                  | <b>100.3</b>                   |  | <b>108.9</b> | <b>41.8</b> |       | <b>150.7</b> |
|  | 4.a. Reused water                              |              |                               |                  |                                |  |              |             |       |              |
|  | 4.b. Wastewater to sewerage                    |              | 8.6                           |                  |                                |  | <b>8.6</b>   | 41.8        |       | <b>50.4</b>  |
| Into the environment                                     | <b>5. Total returns (= 5.a + 5.b)</b>          | <b>118.3</b> | <b>13.9</b>                   | <b>341</b>       | <b>156.7</b>                   | <b>50.4</b>                                | <b>680.3</b> | <b>23.1</b> |       | <b>703.4</b> |
|  | Hydroelectric power generation                 |              |                               | 341              |                                |  | 341          |             |       | <b>341</b>   |
|  | Irrigation water                               | 118.3        |                               |                  |                                |  | 118.3        |             |       | 118.3        |
|  | Mine water                                     |              |                               |                  |                                |  |              |             |       |              |
|  | Urban run-off cooling water                    |              |                               |                  |                                |  |              |             |       |              |
|  | Losses in distribution because of leakage      |              |                               |                  | 156.7                          |  | 156.7        |             |       | <b>156.7</b> |
|  | Treated wastewater                             |              |                               |                  |                                | 50.4                                       | 50.4         |             |       | <b>50.4</b>  |
|  | Other  |              |                               |                  |                                |  |              |             |       |              |
|  | 5.a. To inland water (= 5.a.1 + 5.a.2 + 5.a.3) | 118.3        |                               | 341              | 156.7                          |  | 616          | 23.1        |       | 639.1        |
|  | 5.a.1. Surface water                           |              |                               | 341              |                                |  | 341          |             |       | 341          |
| 5.a.2. Groundwater                                       | 118.3  |              |                               | 156.7            |                                | 275.0                                      | 23.1         |             | 298.1 |              |
| 5.a.3. Soil water  |  |              |                               |                  |                                |  |              |             |       |              |
| 5.b. To other sources (e.g. desalination)                |  | 13.9         |                               |                  |                                | 50.4                                       | 64.3         |             | 64.3  |              |
|  | <b>6. Total supply of water (= 4 + 5)</b>      | <b>118.3</b> | <b>22.5</b>                   | <b>341</b>       | <b>257</b>                     | <b>50.4</b>                                | <b>789.2</b> | <b>64.9</b> |       | <b>854.0</b> |
|  | <b>7. Consumption (= 3 - 6)</b>                | <b>240.1</b> | <b>12.1</b>                   | <b>0</b>         | <b>0</b>                       | <b>0</b>                                   | <b>252</b>   | <b>11.4</b> |       | <b>263.7</b> |
|  | 7.a. Losses of distribution of leakages        |              |                               |                  |                                |  |              |             |       |              |

**Table 6.1: Detailed Physical Supply and Use, Mauritius – 2017**

|  |  | ISIC 01-03  | ISIC 05-33,<br>41-43,38,39,45-99 | ISIC 3510        | ISIC 3600                      | ISIC 3700                                  |             |             |     |               |
|--|--|-------------|----------------------------------|------------------|--------------------------------|--|-------------|-------------|-----|---------------|
| <b>A. Physical Use table 2017 (millions of cubic metres)</b> |  | Agriculture | Manufacture and services         | Hydroelectricity | Water utility (drinking water) | Sewerage (sewage collection and treatment) | Total       | Households  |     | Total         |
| <b>From the environment</b>                                  | <b>1. Total Abstraction (= 1.a + 1.b = 1.i + 1.ii)</b> | <b>341</b>  | <b>12</b>                        | <b>312</b>       | <b>262</b>                     |  | <b>927</b>  |             |     | <b>927</b>    |
|  | 1.a. Abstraction for own use                           | 341         | 12                               | 312              |                                |  | 665         |             |     | 665           |
|  | Hydroelectric power generation                         |             |                                  | 312              |                                |  | 312         |             |     | 312           |
|  | Irrigation water                                       |             |                                  |                  |                                |  | 0           |             |     | 0             |
|  | Mine water   |             |                                  |                  |                                |  |             |             |     |               |
|  | Urban run-off cooling water                            |             |                                  |                  |                                |  |             |             |     |               |
|  | Other  |             |                                  |                  |                                |  |             |             |     |               |
|  | 1.b. Abstraction for distribution                      |             |                                  |                  |                                |  | 0           |             |     | 0             |
|  | <b>1.i. From inland water resources</b>                | <b>341</b>  | <b>12</b>                        | <b>312</b>       | <b>262</b>                     |  | <b>927</b>  |             |     | <b>927</b>    |
|  | 1.i.1. Surface water                                   | 336         | 5                                | 312              | 132                            |  | 785         |             |     | 785           |
| 1.i.2. Ground water  | 5  | 7           |                                  | 130              |                                | 142  |             |             | 142 |               |
| 1.i.3. Soil water  |  |             |                                  |                  |                                |  |             |             |     |               |
| 1.ii. Collection of precipitation                            |  |             |                                  |                  |                                |  |             |             |     |               |
| 1.iii. Abstraction from the sea                              |  |             |                                  |                  |                                |  |             |             |     |               |
| <b>Within the economy</b>                                    | <b>2. Use of water received from of which:</b>         | <b>7.7</b>  | <b>23.1</b>                      |                  |                                | <b>52.6</b>                                | <b>83.4</b> | <b>80.2</b> |     | <b>163.6</b>  |
|  | 2.a. Reused water                                      | 6.4         |                                  |                  |                                |  |             |             |     |               |
|  | 2.b. Wastewater to sewerage                            |             |                                  |                  |                                | 52.6                                       | 52.6        |             |     | 52.6          |
|  | 2.c. Desalinated water                                 |             |                                  |                  |                                |  |             |             |     |               |
| <b>3. Total use of water (=1 + 2)</b>                        | <b>348.7</b>   | <b>35.1</b> | <b>312</b>                       | <b>262</b>       | <b>52.6</b>                    | <b>1010.4</b>                              | <b>80.2</b> |             |     | <b>1090.6</b> |

**Table 6.2: Detailed Physical Supply and Use, Mauritius – 2017**

| B. Physical Supply table 2017 (millions of cubic metres) |  | ISIC 01-03   | ISIC 05-33, 41-43,38,39,45-99 | ISIC 3510        | ISIC 3600                      | ISIC 3700                                  | Total        | Households  |              | Total        |
|--|--|--------------|-------------------------------|------------------|--------------------------------|--|--------------|-------------|--------------|--------------|
|  |  | Agriculture  | Manufacture and services      | Hydroelectricity | Water utility (drinking water) | Sewerage (sewage collection and treatment) |              |             |              |              |
| Within the economy                                       | <b>4. Supply of water to other</b>             |              | <b>8.9</b>                    |                  | <b>104.6</b>                   |  | <b>113.5</b> | <b>43.7</b> |              | <b>157.2</b> |
|  | of which:                                      |              |                               |                  |                                |  |              |             |              |              |
|  | 4.a. Reused water                              |              |                               |                  |                                |  |              |             |              |              |
|  | 4.b. Wastewater to sewerage                    |              | 8.9                           |                  |                                |  | 8.9          | 43.7        |              | 52.6         |
|  | 4.c. Desalinated water                         |              |                               |                  |                                |  |              |             |              |              |
| Into the environment                                     | <b>5. Total returns (= 5.a + 5.b)</b>          | <b>114.9</b> | <b>13.9</b>                   | <b>312</b>       | <b>157.4</b>                   | <b>52.6</b>                                | <b>650.8</b> | <b>24.5</b> |              | <b>675.3</b> |
|  | Hydroelectric power generation                 |              |                               | 312              |                                |  | 312          |             |              | 312          |
|  | Irrigation water                               | 114.9        |                               |                  |                                |  | 114.9        |             |              | 114.9        |
|  | Mine water                                     |              |                               |                  |                                |  |              |             |              |              |
|  | Urban run-off cooling water                    |              |                               |                  |                                |  |              |             |              |              |
|  | Losses in distribution because of leakage      |              |                               |                  | 157.4                          |  | 157.4        |             |              | 157.4        |
|  | Treated wastewater                             |              |                               |                  |                                | 52.6                                       | 52.6         |             |              | 52.6         |
|  | Other  |              |                               |                  |                                |  |              |             |              |              |
|  | 5.a. To inland water (= 5.a.1 + 5.a.2 + 5.a.3) | 114.9        |                               | 312              | 157.4                          |  | 584.3        | 24.5        |              | 608.8        |
|  | 5.a.1. Surface water                           |              |                               | 312              |                                |  | 312          |             |              | 312          |
| 5.a.2. Groundwater                                       | 114.9  |              |                               | 157.4            |                                | 272.3                                      | 24.5         |             | 296.8        |              |
| 5.a.3. Soil water  |  |              |                               |                  |                                |  |              |             |              |              |
| 5.b. To other sources (e.g. desalination)                |  | 13.9         |                               |                  |                                | 52.6                                       | 66.5         |             | 66.5         |              |
| <b>6. Total supply of water (= 4 + 5)</b>                | <b>115.1</b>                                   | <b>22.8</b>  | <b>312</b>                    | <b>262</b>       | <b>52.6</b>                    | <b>764.5</b>                               | <b>68.2</b>  |             | <b>832.7</b> |              |
| <b>7. Consumption (= 3 - 6)</b>                          | <b>233.6</b>                                   | <b>12.3</b>  | <b>0</b>                      | <b>0</b>         | <b>0</b>                       | <b>246</b>                                 | <b>12.0</b>  |             | <b>257.9</b> |              |
| of which:  |  |              |                               |                  |                                |  |              |             |              |              |
| 7.a. Losses of distribution of leakages                  |  |              |                               |                  |                                |  |              |             |              |              |

**Table 7.1: Detailed Physical Supply and Use, Mauritius – 2018**

|  |  | ISIC 01-03  | ISIC 05-33,<br>41-<br>43,38,39,45-<br>99 | ISIC 3510            | ISIC 3600                               | ISIC 3700  |             |            |     |               |
|--|--|-------------|--|----------------------|---|--|-------------|------------|-----|---------------|
| <b>A. Physical Use table 2018</b> (millions of cubic metres) |  | Agriculture | Manufactur<br>e and<br>services          | Hydroelectr<br>icity | Water<br>utility<br>(drinking<br>water) | Sewerage<br>(sewage<br>collection<br>and<br>treatment) | Total       | Households |     | Total         |
| From the<br>environm<br>ent                                  | <b>1. Total Abstraction</b><br>( = 1.a + 1.b = 1.i + 1.ii) | <b>299</b>  | <b>11</b>                                | <b>398</b>           | <b>281</b>                              |  | <b>989</b>  |            |     | <b>989</b>    |
|  | 1.a. Abstraction for own use                               | 299         | 11                                       | 398                  |   |  | 708         |            |     | 708           |
|  | Hydroelectric power generation                             |             |  | 398                  |   |  | 398         |            |     | 398           |
|  | Irrigation water   |             |  |                      |   |  | 0           |            |     | 0             |
|  | Mine water   |             |  |                      |   |  |             |            |     |               |
|  | Urban run-off  |             |  |                      |   |  |             |            |     |               |
|  | cooling water  |             |  |                      |   |  |             |            |     |               |
|  | Other  |             |  |                      |   |  |             |            |     |               |
|  | 1.b. Abstraction for distribution                          |             |  |                      |   |  | 0           |            |     | 0             |
|  | <b>1.i. From inland water resources</b>                    | <b>299</b>  | <b>11</b>                                | <b>398</b>           |   |  | <b>708</b>  |            |     | <b>708</b>    |
| 1.i.1. Surface water   | 294  | 4           | 398                                      | 143                  |   | 839  |             |            | 839 |               |
| 1.i.2. Ground water  | 5  | 7           |  | 138                  |   | 150  |             |            | 150 |               |
| 1.i.3. Soil water  |  |             |  |                      |   |  |             |            |     |               |
| 1.ii. Collection of precipitation                            |  |             |  |                      |   |  |             |            |     |               |
| 1.iii. Abstraction from the sea                              |  |             |  |                      |   |  |             |            |     |               |
| Within<br>the<br>economy                                     | <b>2. Use of water received from</b><br><i>of which:</i>   | 6.0         | <b>24.1</b>                              |                      |   | <b>43.5</b>  | <b>73.6</b> | <b>83</b>  |     | <b>156.6</b>  |
|  | 2.a. Reused water  | 4.5         |  |                      |   |  |             |            |     |               |
|  | 2.b. Wastewater to sewerage                                |             |  |                      |   | 43.5   | 43.5        |            |     | 43.5          |
|  | 2.c. Desalinated water                                     |             |  |                      |   |  |             |            |     |               |
| <b>3. Total use of water (=1 + 2)</b>                        | <b>305</b>   | <b>35.1</b> | <b>398</b>                               | <b>281</b>           | <b>43.5</b>                             | <b>1062.6</b>  | <b>83</b>   |            |     | <b>1145.6</b> |

**Table 7.2: Detailed Physical Supply and Use, Mauritius – 2018**

| B. Physical Supply table 2018 (millions of cubic metres) |  | ISIC 01-03   | ISIC 05-33, 41-43,38,39,45-99 | ISIC 3510        | ISIC 3600                      | ISIC 3700                                  | Total        | Households  |              | Total        |
|--|--|--------------|-------------------------------|------------------|--------------------------------|--|--------------|-------------|--------------|--------------|
|  |  | Agriculture  | Manufacture and services      | Hydroelectricity | Water utility (drinking water) | Sewerage (sewage collection and treatment) |              |             |              |              |
| Within the economy                                       | <b>4. Supply of water to other</b>             |              | <b>7.4</b>                    |                  | <b>108.6</b>                   |  | <b>116</b>   | <b>36.1</b> |              | <b>152.1</b> |
|  | of which:                                      |              |                               |                  |                                |  |              |             |              |              |
|  | 4.a. Reused water                              |              | 7.4                           |                  |                                |  | <b>7.4</b>   | 36.1        |              | <b>43.5</b>  |
|  | 4.b. Wastewater to sewerage                    |              |                               |                  |                                |  |              |             |              |              |
|  | 4.c. Desalinated water                         |              |                               |                  |                                |  |              |             |              |              |
| Into the environment                                     | <b>5. Total returns (= 5.a + 5.b)</b>          | <b>100.8</b> | <b>15.4</b>                   | <b>398</b>       | <b>172.4</b>                   | <b>43.5</b>                                | <b>730.1</b> | <b>34.5</b> |              | <b>764.6</b> |
|  | Hydroelectric power generation                 |              |                               | 398              |                                |  | 398          |             |              | <b>398</b>   |
|  | Irrigation water                               | 100.8        |                               |                  |                                |  | 100.8        |             |              | 100.8        |
|  | Mine water                                     |              |                               |                  |                                |  |              |             |              |              |
|  | Urban run-off                                  |              |                               |                  |                                |  |              |             |              |              |
|  | cooling water                                  |              |                               |                  |                                |  |              |             |              |              |
|  | Losses in distribution because of leakage      |              |                               |                  | 172.4                          |  | 172.4        |             |              | <b>172.4</b> |
|  | Treated wastewater                             |              |                               |                  |                                | 43.5                                       | 43.5         |             |              | <b>43.5</b>  |
|  | Other  |              |                               |                  |                                |  |              |             |              |              |
|  | 5.a. To inland water (= 5.a.1 + 5.a.2 + 5.a.3) | 100.8        |                               | 398              | 172.4                          |  | 671.2        | 34.5        |              | 705.7        |
| 5.a.1. Surface water                                     |  |              | 398                           |                  |                                | 0  |              |             | 0.0          |              |
| 5.a.2. Groundwater                                       | 100.8  |              |                               |                  |                                | 398  |              |             | 398          |              |
| 5.a.3. Soil water  |  |              |                               | 172.4            |                                | 273.2                                      | 34.5         |             | 307.7        |              |
| 5.b. To other sources (e.g. desalination)                |  | 15.4         |                               |                  |                                | 43.5                                       | 58.9         |             | 58.9         |              |
| <b>6. Total supply of water (= 4 + 5)</b>                | <b>100.7</b>                                   | <b>22.8</b>  | <b>398</b>                    | <b>281</b>       | <b>43.5</b>                    | <b>846.0</b>                               | <b>70.6</b>  |             | <b>916.5</b> |              |
| <b>7. Consumption (= 3 - 6)</b>                          | <b>204.4</b>                                   | <b>12.3</b>  | <b>0</b>                      | <b>0</b>         | <b>0</b>                       | <b>217</b>                                 | <b>12.5</b>  |             | <b>229.1</b> |              |
| of which:  |  |              |                               |                  |                                |  |              |             |              |              |
| 7.a. Losses of distribution of leakages                  |  |              |                               |                  |                                |  |              |             |              |              |

#### 4. Water Asset Accounts

Water Asset Accounts show the stocks of water resources and their changes during a particular period, linking water use by the economy (abstraction and returns) and the natural flows of water to the stocks of water in the country. They can be represented as follows:

- a) Opening and closing stocks, which are the stock levels at the beginning and the end of the period;
- b) Increases in stocks, which include those due to human activity (returns) and natural causes, such as precipitation;
- c) Decreases in stocks, which include those due to human activity (abstraction) and natural causes, such as evaporation/evapotranspiration and outflows.

In the absence of data on stocks at the beginning and end of the year, simplified accounts have been prepared where it is assumed that the total addition to stock and the reduction in stock of water are the same. The physical asset accounts for water resources in Mauritius for 2016 – 2018 are shown below.

**Table 8: Water Asset Account 2016**

|                     |   | Type of water resource |                      |                    |                    |                                  | TOTAL                            |
|---------------------|---|------------------------|----------------------|--------------------|--------------------|----------------------------------|----------------------------------|
|                     |   | Surface water          |                      |                    | Groundwater        | Soil water                       |                                  |
|                     |   | Artificial reservoirs  | Lakes                | Rivers and streams |                    |                                  |                                  |
| <b>Opening</b>      |   | <b>Opening A.1.1</b>   | <b>Opening A.1.2</b> |                    | <b>Opening A.2</b> | <b>Opening A.1 + Opening A.2</b> |                                  |
| <b>Additions to</b> |   |                        |                      |                    |                    |                                  |                                  |
|                     | Returns                                   | 341                    |                      |                    | 298                |                                  | 639                              |
|                     | Precipitation                             | 2,122                  |                      |                    |                    | 1,414                            | 3,536                            |
|                     | Inflows from other territories            |                        |                      |                    |                    |                                  | 0                                |
|                     | Inflows from other inland water resources |                        |                      |                    | 353                |                                  | 353                              |
|                     | Discoveries of water in aquifers          |                        |                      |                    |                    |                                  | 0                                |
|                     | <i>Total additions to stock</i>           | 2,463                  |                      |                    | 651                | 1,414                            | 4,528                            |
| <b>Reductions</b>   |   |                        |                      |                    |                    |                                  |                                  |
|                     | Abstractions                              | 338                    | 476                  |                    | 147                |                                  | 961                              |
|                     | for hydro power generation                | 341                    |                      |                    |                    |                                  | 341                              |
|                     | for cooling water                         |                        |                      |                    |                    |                                  | 0                                |
|                     | Evaporation & actual evapotranspiration   |                        |                      |                    |                    | 1,061                            | 1,061                            |
|                     | Outflows to other territories             |                        |                      |                    |                    |                                  | 0                                |
|                     | Outflows to the sea                       | 1,649                  |                      |                    | 504                |                                  | 2,153                            |
|                     | Outflows to other inland water resources  |                        |                      |                    |                    | 353                              | 353                              |
|                     | <i>Total reductions in stock</i>          | 2,463                  |                      |                    | 651                | 1,414                            | 4,528                            |
| <b>Closing</b>      |   | <b>Closing A.1.1</b>   | <b>Closing A.1.2</b> |                    | <b>Closing A.2</b> |                                  | <b>Closing A.1 + Closing A.2</b> |

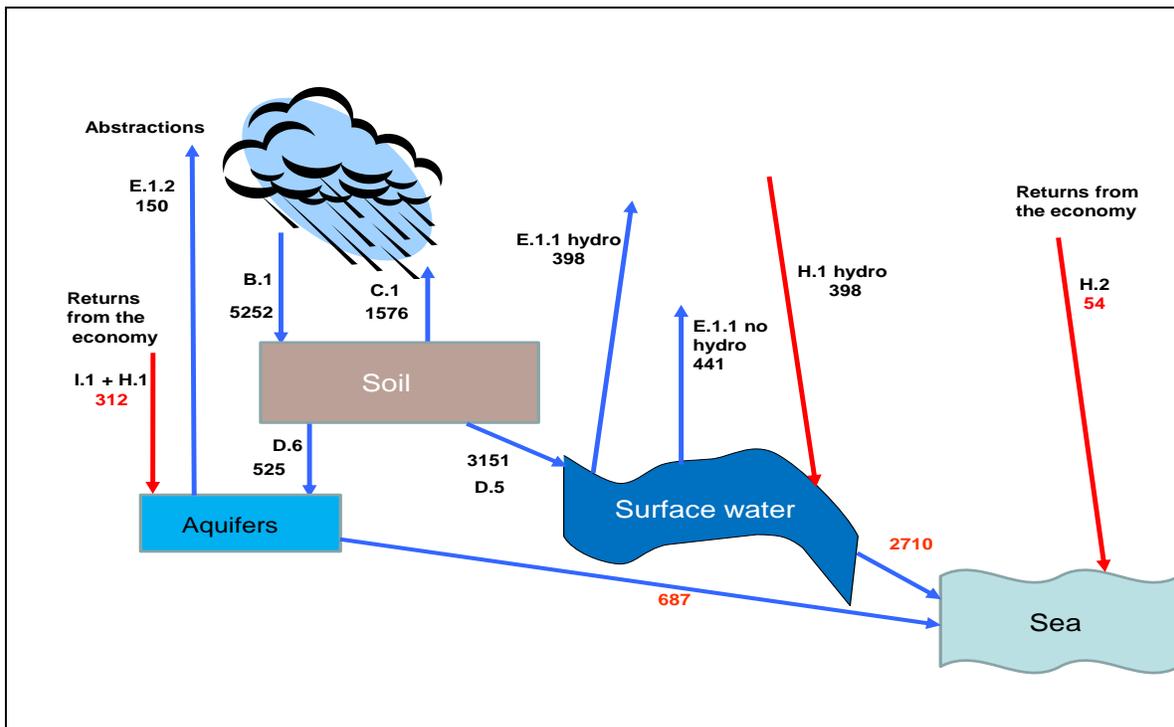
**Table 9: Water Asset Account 2017**

|                     |   | Type of water resource |                      |                    |                    |                           | TOTAL                            |
|---------------------|---|------------------------|----------------------|--------------------|--------------------|---------------------------|----------------------------------|
|                     |   | Surface water          |                      |                    | Groundwater        | Soil water                |                                  |
|                     |   | Artificial reservoirs  | Lakes                | Rivers and streams |                    |                           |                                  |
| Opening             | Opening A.1.1                             | Opening A.1.2          |                      | Opening A.2        |                    | Opening A.1 + Opening A.2 |                                  |
| <b>Additions to</b> |   |                        |                      |                    |                    |                           |                                  |
|                     | Returns                                   | 312                    |                      |                    | 297                |                           | 609                              |
|                     | Precipitation                             | 2,395                  |                      |                    |                    | 1,596                     | 3,991                            |
|                     | Inflows from other territories            |                        |                      |                    |                    |                           | 0                                |
|                     | Inflows from other inland water resources |                        |                      |                    | 399                |                           | 399                              |
|                     | Discoveries of water in aquifers          |                        |                      |                    |                    |                           | 0                                |
|                     | <i>Total additions to stock</i>           | 2,707                  |                      |                    | 696                | 1,596                     | 4,999                            |
| <b>Reductions</b>   |   |                        |                      |                    |                    |                           |                                  |
|                     | Abstractions                              | 302                    | 483                  |                    | 142                |                           | 927                              |
|                     | for hydro power generation                | 312                    |                      |                    |                    |                           | 312                              |
|                     | for cooling water                         |                        |                      |                    |                    |                           | 0                                |
|                     | Evaporation & actual evapotranspiration   |                        |                      |                    |                    | 1,197                     | 1,197                            |
|                     | Outflows to other territories             |                        |                      |                    |                    |                           | 0                                |
|                     | Outflows to the sea                       | 1,922                  |                      |                    | 554                |                           | 2,476                            |
|                     | Outflows to other inland water resources  |                        |                      |                    |                    | 399                       | 399                              |
|                     | <i>Total reductions in stock</i>          | 2,707                  |                      |                    | 696                | 1,596                     | 4,999                            |
| <b>Closing</b>      |   | <b>Closing A.1.1</b>   | <b>Closing A.1.2</b> |                    | <b>Closing A.2</b> |                           | <b>Closing A.1 + Closing A.2</b> |

**Table 10: Water Asset Account 2018**

|                     |   | Opening A.1.1        | Opening A.1.2        |  | Opening A.2        |       | Opening A.1 + Opening A.2        |
|---------------------|---|----------------------|----------------------|--|--------------------|-------|----------------------------------|
| <b>Additions to</b> |   |                      |                      |  |                    |       |                                  |
|                     | Returns                                   | 398                  |                      |  | 312                |       | 710                              |
|                     | Precipitation                             | 3,151                |                      |  |                    | 2,101 | 5,252                            |
|                     | Inflows from other territories            |                      |                      |  |                    |       | 0                                |
|                     | Inflows from other inland water resources |                      |                      |  | 525                |       | 525                              |
|                     | Discoveries of water in aquifers          |                      |                      |  |                    |       | 0                                |
|                     | <i>Total additions to stock</i>           | 3,549                |                      |  | 837                | 2,101 | 6,487                            |
| <b>Reductions</b>   |   |                      |                      |  |                    |       |                                  |
|                     | Abstractions                              | 386                  | 453                  |  | 150                |       | 989                              |
|                     | for hydro power generation                | 398                  |                      |  |                    |       | 398                              |
|                     | for cooling water                         |                      |                      |  |                    |       | 0                                |
|                     | Evaporation & actual evapotranspiration   |                      |                      |  |                    | 1,576 | 1,576                            |
|                     | Outflows to other territories             |                      |                      |  |                    |       | 0                                |
|                     | Outflows to the sea                       | 2,710                |                      |  | 687                |       | 3,397                            |
|                     | Outflows to other inland water resources  |                      |                      |  |                    | 525   | 525                              |
|                     | <i>Total reductions in stock</i>          | 3,549                |                      |  | 837                | 2,101 | 6,487                            |
| <b>Closing</b>      |   | <b>Closing A.1.1</b> | <b>Closing A.1.2</b> |  | <b>Closing A.2</b> |       | <b>Closing A.1 + Closing A.2</b> |

**Figure 3: Water flows to and from inland water resources (2018) – Mm<sup>3</sup>**



Note: red numbers are rough estimates or balancing numbers.

\* Surface water include artificial reservoirs, lakes, and rivers and streams

Total addition to stock in 2018 was 6,487 Mm<sup>3</sup> was 30 % higher than that 4,999 Mm<sup>3</sup> of 2014 and comprised 3549 Mm<sup>3</sup> from rivers, reservoirs and lakes (surface water) and 837 Mm<sup>3</sup> from groundwater, in addition to the 2,101 Mm<sup>3</sup> of soil water consisting of water from the uppermost belt of soil.

Total reduction is explained by evaporation/evapotranspiration (1,576 Mm<sup>3</sup>); abstraction including hydropower (989 Mm<sup>3</sup>); outflows to the sea (3,397 Mm<sup>3</sup>) and outflows to other inland water resources (525 Mm<sup>3</sup>).

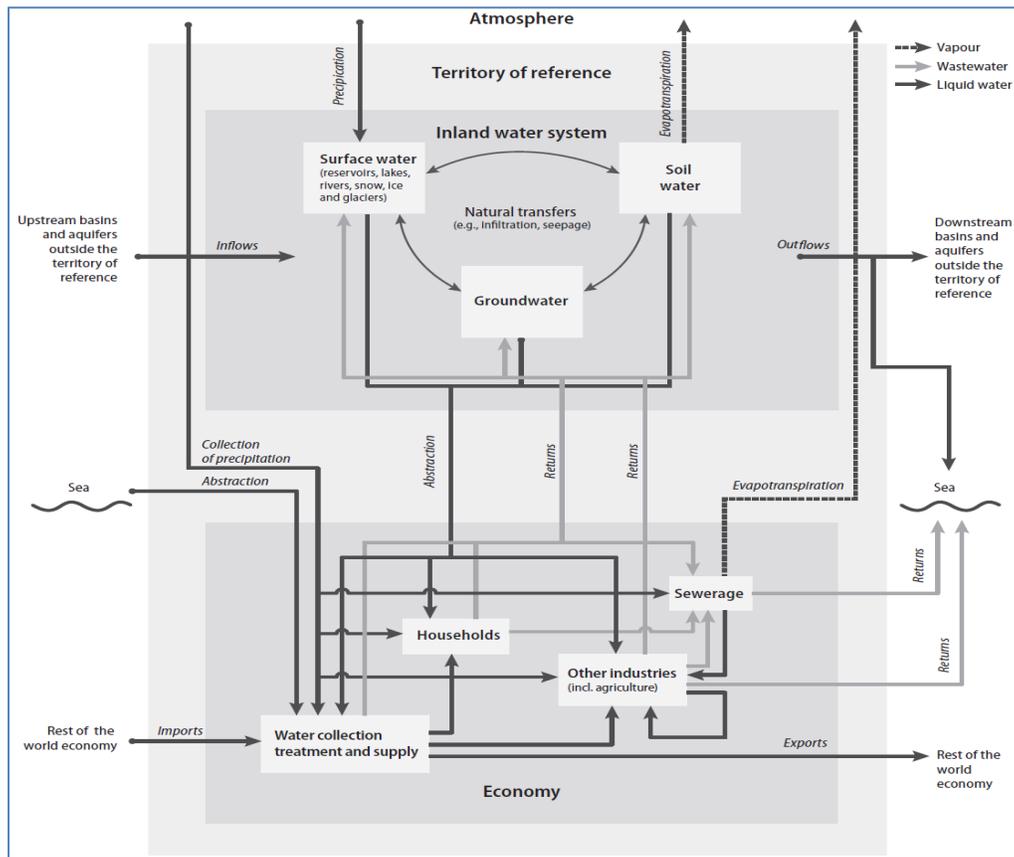
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## Concepts and Methodologies

**Water accounts:** Water accounts are a set of statistical data representing the water stocks and flow in a country in both physical and monetary terms. The framework commonly adopted for water accounting is the SEEA-Water which provides a conceptual framework for organizing hydrological and economic information in a coherent and consistent manner in order to enable the study of the interactions between the economy and the environment.

**SEEA-Water:** System of Environmental and Economic Accounts for Water is presented in simplified diagrammatic form below, which shows the economy, the system of water resources and their interactions.



Source: SEEA-Water, 2012

The economy and the inland water resource system of a territory, referred to as “territory of reference”, are represented in the figure as two separate boxes. The inland water resource system of a territory is composed of all water resources in the territory (surface water, groundwater and soil water) and the natural flows between and among them. The economy of a territory consists of residential water users that abstract water for production and consumption purposes and put in place the infrastructure to store, treat, distribute and discharge water.

## Definition from the IRWS

1. **Inland water stocks** - The volume of water contained in surface water, groundwater and soil water within the territory of reference at a particular point in time. This includes freshwater, brackish water and saline water and all types of water quality.
2. **Groundwater stocks** -The volume of water in porous and permeable underground layers, known as aquifers that can yield significant quantities of water to wells and springs.
3. **Precipitation** - The volume of water that flows from the atmosphere to inland water resources via rain, snow, sleet, hail, dew, mist, etc., per year.
4. **Run-off (i.e., surface run-off)** - The volume of water that flows from the atmosphere via rain, snow, sleet, hail, dew, mist, etc., and upon reaching the Earth's surface, either lands in surface water or flows overland into surface water bodies, per year.
5. **Evapotranspiration from inland water resources** - The volume of water from land and water surfaces that enters the atmosphere by vaporization of water into a gas and through evaporation and transpiration from plants, per year.
6. **Abstraction of water (E)** is the volume of water that is removed or collected by economic units directly from the environment. The abstraction of water is disaggregated by the source of water: inland water resources (E.1), collection of precipitation (E.2) and abstraction of water from the sea (E.3).
7. **Abstraction from inland water resources (E.1)** - The volume of water that is removed by economic units from surface water, groundwater and soil water within the territory of reference, per year. This includes the abstraction of inland waters that are fresh, brackish, saline or polluted. This excludes abstraction of water from the sea or ocean, since these are not inland water resources
8. **Abstraction from surface water (E.1.1)** - The volume of water removed by economic units from artificial reservoirs, lakes, rivers, wetlands and snow, ice and glaciers within the territory of reference, per year. Bank filtration is considered an abstraction of surface water
9. **Abstraction from groundwater (E.1.2)** - The volume of water removed by economic units from aquifers and springs within the territory of reference, per year
10. **Water supplied to other economic units (F)** is the volume of water that is provided by one economic unit to another economic unit through mains, artificial open channels, sewers, drains, trucks or other means. Water supplied to other economic units (F) excludes the losses of water in distribution that are included in data item I and the supply of bottled water (CPC, Ver. 2, 2441), which is one of the supplementary data items.

11. **Water supplied by resident economic units to resident economic units (F.1)** - The volume of water (CPC 18000) that is provided by resident economic units, typically of the water supply industry (ISIC 36), to other resident economic units through mains, artificial open channels, sewers, drains, trucks or other means, per year.
12. **Water supplied by resident economic units to resident economic units for treatment or disposal (F.3.1)** - The volume of water discharged into drains or sewers by resident economic units for treatment or disposal by other resident economic units, per year.
13. **Water received from other economic units (G)** - Water received from other economic units (G) consists of G.1 water (CPC 18000) received by resident economic units from other resident economic units; G.2 water (CPC 18000) received by resident economic units from the rest of the world (water imports); G.3 wastewater received by resident economic units from other resident economic units; and G.4 wastewater received by resident economic units from the rest of the world (wastewater imports). Wastewater (G.3 and G.4) is further divided into wastewater received for treatment and disposal (G.3.1 and G.4.1) and wastewater received not for treatment and disposal (for further use, G.3.2 and G.4.2).
14. **Returns of water to the environment by economic units (H)** - The volume of water that flows from economic units directly to inland water resources, the sea or to land, within the territory of reference, per year. This includes urban storm water, losses due to leakage and burst pipes, irrigation water that infiltrates into groundwater or ends up in surface water, and the discharges of cooling water and water used for hydroelectricity generation. It excludes evaporation because evaporation is consumption.
15. **Returns of water to the environment by economic units to inland water resources (H.1)** - The volume of water that flows from economic units directly to surface water or groundwater within the territory of reference, per year.
16. **Returns of water to the environment by economic units to the sea (H.2)** - The volume of water that flows from economic units directly into the sea or ocean, within the territory of reference, per year. These discharges may occur near the coast or further offshore.
17. **Losses of water (I)** - The volume of water that is lost in distribution or lost when sent for treatment and disposal, within the territory of reference, per year. This includes water (CPC 18000) and wastewater.
18. **Losses of water in distribution (I.1)** - The volume of water (CPC, Ver. 2, 1800) that is lost during distribution and transportation, between the point of abstraction and the point of use or between the points of use and reuse (e.g., from mains, artificial open channels and trucks). Losses of water sent for treatment or disposal in collection (I.2) consists of water lost from the system used to collect, treat or dispose of discharged water, including artificial open channels and trucks used to collect discharged water.

## Annex A

**Table A1: Selected water indicators, 2010-2018**

| INDICATORS  | UNITS                 | LTA*  | 2010  | 2011  | 2012  | 2013  | 2014  | 2015  | 2016  | 2017  | 2018  |
|---|-----------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| <b>Main Indicators</b>  |                       |       |       |       |       |       |       |       |       |       |       |
| Population density  | inhab/km <sup>2</sup> | ...   | 649   | 669   | 652   | 653   | 654   | 653   | 654   | 654   | 654   |
| Hydroelectricity as proportion of electricity   | %                     | ...   | 4%    | 2%    | 3%    | 3%    | 3%    | 4%    | 3%    | 3%    | 4%    |
| Electricity generated per capita  | KWh/inhab             | ...   | 2,195 | 2,232 | 2,275 | 2,341 | 2,378 | 2,422 | 2,458 | 2,519 | 2,527 |
| <b>Hydrologic Information</b>   |                       |       |       |       |       |       |       |       |       |       |       |
| Precipitation in height   | mm/year               | 2,011 | 1,806 | 1,948 | 1,621 | 2,126 | 2,094 | 2,377 | 1,896 | 2,134 | 2,816 |
| Total Renewable Water Resources (TRWR)  | hm <sup>3</sup> /year | 2,625 | 2,358 | 2,539 | 2,101 | 2,675 | 2,733 | 3,103 | 2,475 | 2,794 | 3,676 |
| TRWR per capita   | m <sup>3</sup> /inhab | ...   | 1,948 | 2,095 | 1,729 | 2,197 | 2,242 | 2,542 | 2,027 | 2,286 | 3,008 |
| Artificial reservoir capacity per capita  | m <sup>3</sup> /inhab | ...   | 73    | 73    | 73    | 73    | 74    | 74    | 74    | 74    | 74    |
| <b>Water in the economy</b>   |                       |       |       |       |       |       |       |       |       |       |       |
| Total water abstracted  | hm <sup>3</sup> /year | ...   | 637   | 571   | 582   | 608   | 620   | 612   | 620   | 615   | 591   |
| Water abstracted per capita   | m <sup>3</sup> /inhab | ...   | 526   | 471   | 479   | 499   | 509   | 501   | 508   | 503   | 484   |
| Water abstraction as proportion of TRWR   | %                     | ...   | 27    | 23    | 28    | 23    | 23    | 20    | 25    | 22    | 16    |
| Water abstracted for drinking water per capita  | L/inhab/day           | ...   | 505   | 459   | 485   | 488   | 515   | 550   | 586   | 554   | 639   |
| Proportion of abstraction by water utilities that is lost   | %                     | ...   | 55    | 53    | 54    | 56    | 59    | 62    | 61    | 60    | 61    |
| Water received in households per capita   | L/inhab/day           | ...   | 173   | 167   | 164   | 165   | 167   | 168   | 171   | 180   | 186   |
| <b>Water-related social-demographic data items</b>  |                       |       |       |       |       |       |       |       |       |       |       |
| Proportion of population using safely managed drinking water services <sup>1</sup>  | %                     | ...   | ...   | 99.6  | ...   | ...   | ...   | ...   | ...   | ...   | ...   |
| Proportion of population with improved sanitation; that is, availability of flush toilet or pit latrines, <u>excluding shared facilities</u> <sup>1</sup> | %                     | ...   | ...   | 94.9  | ...   | ...   | ...   | ...   | ...   | ...   | ...   |

LTA: Long term Average (1971 – 2000)

<sup>1</sup> Source: Housing and Population Census

**Table A2: Water Supply by sector, Island of Mauritius, 2005-2018**

|                                    | Units                 | 2005         | 2006         | 2007         | 2008         | 2009         | 2010         | 2011         | 2012         | 2013         | 2014         | 2015         | 2016         | 2017         | 2018         |
|------------------------------------|-----------------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| <b>Potable Water supply to</b>     |                       |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
| Households                         | Mm <sup>3</sup>       | 73.1         | 73.2         | 73.0         | 72.1         | 75.1         | 76.5         | 73.7         | 72.9         | 73.4         | 74.2         | 75.1         | 76.3         | 80.2         | 83.0         |
| Non households                     | Mm <sup>3</sup>       | 20.6         | 21.1         | 22.1         | 21.9         | 22.7         | 23.8         | 22.8         | 22.3         | 22.5         | 22.7         | 23.1         | 24.0         | 24.5         | 25.6         |
| Agriculture and livestock          | Mm <sup>3</sup>       | 1.3          | 1.4          | 1.4          | 1.4          | 1.5          | 1.5          | 1.5          | 1.4          | 1.3          | 1.4          | 1.3          | 1.4          | 1.4          | 1.5          |
| Manufacturing                      | Mm <sup>3</sup>       | 4.8          | 4.7          | 4.8          | 4.0          | 4.1          | 4.3          | 4.8          | 3.9          | 3.8          | 3.6          | 3.7          | 3.8          | 3.7          | 3.7          |
| Accommodation services             | Mm <sup>3</sup>       | 4.1          | 4.3          | 4.4          | 4.6          | 4.7          | 5.1          | 5.2          | 17.1         | 17.4         | 17.7         | 18.1         | 18.8         | 19.3         | 20.4         |
| Other services                     | Mm <sup>3</sup>       | 10.0         | 10.6         | 11.4         | 11.9         | 12.5         | 12.9         | 11.9         |              |              |              |              |              |              |              |
| <b>Total Potable Water Supply</b>  | <b>Mm<sup>3</sup></b> | <b>93.7</b>  | <b>94.3</b>  | <b>95.1</b>  | <b>94.0</b>  | <b>97.8</b>  | <b>100.3</b> | <b>96.4</b>  | <b>95.2</b>  | <b>95.9</b>  | <b>96.9</b>  | <b>98.2</b>  | <b>100.3</b> | <b>104.6</b> | <b>108.6</b> |
| <b>Non Potable Water supply to</b> |                       |              |              |              |              |              |              |              |              |              |              |              |              |              |              |
| Agriculture and livestock          | Mm <sup>3</sup>       | 9.0          | 8.9          | 7.5          | 8.9          | 7.3          | 9.2          | 10.9         | 10.4         | 10.0         | 9.6          | 9.6          | 12.0         | 9.6          | 9.3          |
| Manufacturing                      | Mm <sup>3</sup>       | 5.2          | 5.4          | 4.5          | 5.9          | 5.2          | 5.5          | 6.0          | 5.7          | 5.5          | 5.3          | 5.3          | 6.5          | 5.3          | 5.1          |
| <b>Total Non Potable</b>           | <b>Mm<sup>3</sup></b> | <b>14.2</b>  | <b>14.3</b>  | <b>12.0</b>  | <b>14.8</b>  | <b>12.5</b>  | <b>14.7</b>  | <b>16.9</b>  | <b>16.1</b>  | <b>15.5</b>  | <b>14.9</b>  | <b>14.9</b>  | <b>18.5</b>  | <b>14.9</b>  | <b>14.4</b>  |
| <b>Total Sales of water</b>        | <b>Mm<sup>3</sup></b> | <b>107.9</b> | <b>108.6</b> | <b>107.2</b> | <b>108.8</b> | <b>110.2</b> | <b>115.0</b> | <b>113.3</b> | <b>111.3</b> | <b>111.4</b> | <b>111.8</b> | <b>113.0</b> | <b>118.9</b> | <b>119.6</b> | <b>123.0</b> |

Source: CWA

**Table A3: Water abstraction, Island of Mauritius, 2005 – 2018**

| INDICATORS  | Unit                         | 2005         | 2006        | 2007        | 2008        | 2009         | 2010        | 2011        | 2012        | 2013        | 2014        | 2015        | 2016        | 2017        | 2018        |
|---|------------------------------|--------------|-------------|-------------|-------------|--------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|-------------|
| <b>Abstractions</b>                                   |                              |              |             |             |             |              |             |             |             |             |             |             |             |             |             |
| Surface water   | Mm <sup>3</sup>              | 541          | 528         | 518         | 497         | 511          | 513         | 449         | 460         | 487         | 489         | 467         | 473         | 473         | 441         |
| from reservoirs                                       | Mm <sup>3</sup>              | 154          | 146         | 145         | 137         | 150          | 152         | 104         | 121         | 136         | 141         | 157         | 158         | 144         | 154         |
| from rivers and streams                               | Mm <sup>3</sup>              | 387          | 382         | 373         | 360         | 361          | 361         | 345         | 339         | 351         | 348         | 310         | 315         | 329         | 287         |
| Groundwater   | Mm <sup>3</sup>              | 150          | 154         | 112         | 119         | 121          | 124         | 122         | 122         | 121         | 131         | 145         | 147         | 142         | 150         |
| <b>Total abstraction (excluding hydroelectricity)</b> | <b>Mm<sup>3</sup></b>        | <b>691</b>   | <b>682</b>  | <b>630</b>  | <b>616</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>615</b>  | <b>591</b>  |
| <b>Abstraction per capita</b>                         | <b>m<sup>3</sup>/ person</b> | <b>581</b>   | <b>570</b>  | <b>525</b>  | <b>511</b>  | <b>523</b>   | <b>526</b>  | <b>471</b>  | <b>479</b>  | <b>499</b>  | <b>508</b>  | <b>501</b>  | <b>508</b>  | <b>503</b>  | <b>484</b>  |
| Hydroelectricity                                      | Mm <sup>3</sup>              | 331          | 236         | 254         | 331         | 368          | 298         | 181         | 218         | 280         | 275         | 361         | 341         | 312         | 398         |
| <b>Total abstraction (including hydroelectricity)</b> | <b>Mm<sup>3</sup></b>        | <b>1,022</b> | <b>918</b>  | <b>884</b>  | <b>947</b>  | <b>1,000</b> | <b>935</b>  | <b>752</b>  | <b>800</b>  | <b>888</b>  | <b>895</b>  | <b>973</b>  | <b>961</b>  | <b>927</b>  | <b>989</b>  |
| <b>Water abstraction by CWA for distribution</b>      |                              |              |             |             |             |              |             |             |             |             |             |             |             |             |             |
| Surface water   | Mm <sup>3</sup>              | 94           | 96          | 101         | 102         | 109          | 109         | 94          | 97          | 112         | 115         | 122         | 124         | 132         | 143         |
| Groundwater   | Mm <sup>3</sup>              | 101          | 91          | 105         | 107         | 110          | 114         | 111         | 109         | 108         | 119         | 133         | 133         | 130         | 138         |
| <b>Total water abstracted by CWA</b>                  | <b>Mm<sup>3</sup></b>        | <b>195</b>   | <b>187</b>  | <b>206</b>  | <b>209</b>  | <b>220</b>   | <b>223</b>  | <b>205</b>  | <b>206</b>  | <b>220</b>  | <b>234</b>  | <b>255</b>  | <b>257</b>  | <b>262</b>  | <b>281</b>  |
| <b>% Abstracted by CWA</b>                            | <b>%</b>                     | <b>28</b>    | <b>27.4</b> | <b>32.6</b> | <b>34.0</b> | <b>34.7</b>  | <b>35.1</b> | <b>35.5</b> | <b>35.4</b> | <b>36.2</b> | <b>37.6</b> | <b>41.7</b> | <b>41.5</b> | <b>42.6</b> | <b>47.5</b> |
| <b>Unaccounted For Water</b>                          |                              |              |             |             |             |              |             |             |             |             |             |             |             |             |             |
| "Losses" Unaccounted For Water (UFW)                  | Mm <sup>3</sup>              | 101          | 93          | 110         | 115         | 122          | 123         | 109         | 111         | 124         | 137         | 157         | 157         | 157         | 172         |
|   | %                            | 52           | 49.5        | 53.7        | 55.1        | 55.5         | 55.1        | 53.0        | 53.8        | 56.4        | 58.6        | 61.5        | 61.0        | 60.1        | 61.3        |

Source: CWA and WRU