



2016

**St. Vincent & the Grenadines**  
**Compendium of Environmental Statistics**



Prepared by



## **THE STATISTICAL OFFICE**

Economic Planning Division  
Ministry of Finance and Economic Planning

KINGSTOWN, ST VINCENT & THE GRENADINES

Tel. (784) 457-2921

Fax. (784) 456-2430

E-mail: [svg.stats@mail.gov.vc](mailto:svg.stats@mail.gov.vc)

Website: [stats.gov.vc](http://stats.gov.vc)

Facebook: <https://www.facebook.com/SVG.Statistics/>

© COPYRIGHT 2016

**DATA FROM THESE TABLES MAY BE REPRODUCED  
WITH ACKNOWLEDGEMENT OF SOURCE**

## TABLE OF CONTENTS

<b>PREFACE.....</b>	<b>4</b>
<b>CONCEPTS AND DEFINITIONS .....</b>	<b>6</b>
<b>POPULATION.....</b>	<b>7</b>
Table 1: Total Population by Sex, 1871 – 2012.....	8
Table 2: Household Population by Age Group, Sex and Census Years, 1980 – 2012 .....	9
Table 3: Population Density by Census Division, 2001 – 2012 .....	10
<b>CLIMATE &amp; AIR.....</b>	<b>11</b>
Table 4: Temperature and Humidity, 2012 to 2016 .....	12
Table 5: Rainfall (mm) Recorded at Selected Agricultural Stations, 2012 to 2016.....	13
Table 6a: Summary of Green House Gas Emissions, 2004 .....	14
Table 6b: Summary of Green House Gas Emissions, 2004 cont'd. ....	15
<b>WATER RESOURCE .....</b>	<b>16</b>
Table 7: Water Abstraction by Catchment Area, 2012 to 2016, .....	17
Table 8: Potable Water Consumption, 2012 to 2016 .....	17
Table 10: Distribution of Households by Source of Water Supply, 1980 – 2012.....	18
<b>PROTECTED MARINE &amp; TERRESTRIAL AREAS.....</b>	<b>20</b>
Table 11: Marine Territory.....	21
Table 12: Protected Marine Areas.....	21
Table 13: Protected Terrestrial Areas in St Vincent and the Grenadines .....	22
Map 1: Important Bird Area .....	23
Table 14: Important Bird Areas.....	24
<b>Agriculture &amp; Land Use.....</b>	<b>25</b>
Table 15: Selection of Commodities Produced by Weight, 2012 to 2016 .....	26
Table 16: Forest Classification .....	27
<b>FISHING.....</b>	<b>28</b>
Table 18: Registered Fishing Vessels and Fishermen, 1995 to 2016 .....	29
Table 19: Fish Landed by Type, 2012 to 2016.....	30
<b>ENERGY AND FUEL.....</b>	<b>31</b>

Table 20: Electricity Generation, Sales and Consumers, 2012 to 2016 .....	32
Table 21: Fuel Imported by Type and Volume, 2012 to 2016.....	35
<b>TOURISM</b> .....	36
Table 22: Number of Visitors and Average Length of Stay, 2012 to 2016.....	37
Table 23: Selected Visitor Statistics, 2012 to 2016.....	37
Table 24: Stay-Over Visitors by Type of Accommodation, 2012 to 2016 .....	37
Table 25: Stay-Over Visitors by Country of Residence, 2013 to 2016 .....	38
Table 26: Stay-Over Visitors by Place of Stay and Month, 2016.....	39
<b>WASTE</b> .....	40
Table 27: Waste Disposed by Type of Waste, 2012 to 2016.....	41
Table 28: Waste by Type of Disposal, 2012 to 2016 .....	41
Table 29: Waste Exported from St Vincent and the Grenadines for Recycling, 2012 to 2016 .....	42
Table 30: Number of Households by Type of Sanitation Facilities, 1980 to 2012 .....	43
<b>NATURAL DISASTERS</b> .....	44
Table 31: Natural Disasters, 2012 to 2016.....	45
Table 31 cont'd.: Natural Disasters, 2012 to 2016.....	46
<b>BIODIVERSITY</b> .....	47
Table 32: St Vincent and the Grenadines' Biodiversity Facts.....	48

## PREFACE

The ***COMPENDIUM OF ENVIRONMENT STATISTICS*** is prepared and published by the Statistical Office, Economic Planning Division, Ministry of Finance and Economic Planning. This is the second issue of the publication.

The Compendium of Environment Statistics aims at the widest possible subject coverage consistent with timeliness in publication. New subject areas will be included from time to time as long as the relevant information is available.

Notification of errors, omissions and suggestions for the improvement in the format and content of future publications will be appreciated.

The Statistical Office wishes to say a heartfelt thank you to those individuals in both the Public and Private sectors who have so willingly assisted us by providing the relevant data. Without their cooperation, this edition would not have been possible.

Gatlin Roberts  
Chief Statistician  
The Statistical Office  
Economic Planning Division  
Ministry of Finance and Economic Planning  
ST. VINCENT AND THE GRENADINES

## Conversion between Imperial and Metric System

### IMPERIAL

### METRIC

#### *LENGTH*

1 inch (in)	2.54 cm
1 foot (ft) / 12 in	0.3048 m
1 yard (yd) / 3 ft	0.9144 m
1 mile / 1760 yd	1.6093 km
1 Nautical mile / 2025.4 yd	1.853 km

#### *AREA*

1 sq inch (in <sup>2</sup> )	6.4516 cm <sup>2</sup>
1 sq foot (ft <sup>2</sup> ) / 144 in <sup>2</sup>	0.0929 m <sup>2</sup>
1 sq yard (yd <sup>2</sup> ) / 9 ft <sup>2</sup>	0.8361 m <sup>2</sup>
1 acre / 4840 yd <sup>2</sup>	4046.9 m <sup>2</sup>
1 sq mile (mile <sup>2</sup> ) / 640 acres	2.59 km <sup>2</sup>
1 hectare (ha)	0.01 km <sup>2</sup>

#### *VOLUME*

1 cubic inch (in <sup>3</sup> )	16.387 cm <sup>3</sup>
1 cubic foot (ft <sup>3</sup> ) / 1,728 in <sup>3</sup>	0.0283 m <sup>3</sup>
1 fluid ounce (fl oz)	28.413 ml
1 pint (pt) / 20 fl oz	0.5683 l
1 gallon (gal)	4.5461 l

#### *MASS*

1 ounce (oz) / 437.5 grain	28.35 g
1 pound (lb) / 16 oz	0.4536 kg
1 stone / 14 lb	6.3503 kg
1 hundred weight (cwt) / 112 lb	50.802 kg
1 long ton (uk) / 20 cwt	1.016 t

## CONCEPTS AND DEFINITIONS

A **household** is defined as a group of persons living together who make common provisions for food or other essentials of living. The persons in the group may pool their incomes and have a common budget. Member of the same household may be related or unrelated or a combination of both.

A **sanitation facility** is a unit for disposal of human excreta which isolates faeces from contact with people, animals, crops and water sources.

The **number of households by sanitation facilities** describes the types of toilet facilities available to households.

A **Visitor** is a traveller taking a trip to a main destination outside his/her usual environment, for less than a year, for any main purpose (business, leisure or other personal purpose) other than to be employed by a resident entity in the country or place visited.

**Cruise passengers** are regarded as a special type of same-day visitor (even if the ship overnights at the port) who stay less than twenty-four hours in the country visited.

**Cruise ship arrival** refers to the number of times cruise ships enter the country. A cruise ship can be counted multiple times if it leaves the country, then return with new passengers within the same month.

The **average length of stay** for a number of holiday trips is calculated by dividing the total number of nights spent by the total number of tourism trips. Tourism trips are trips taken by visitors.

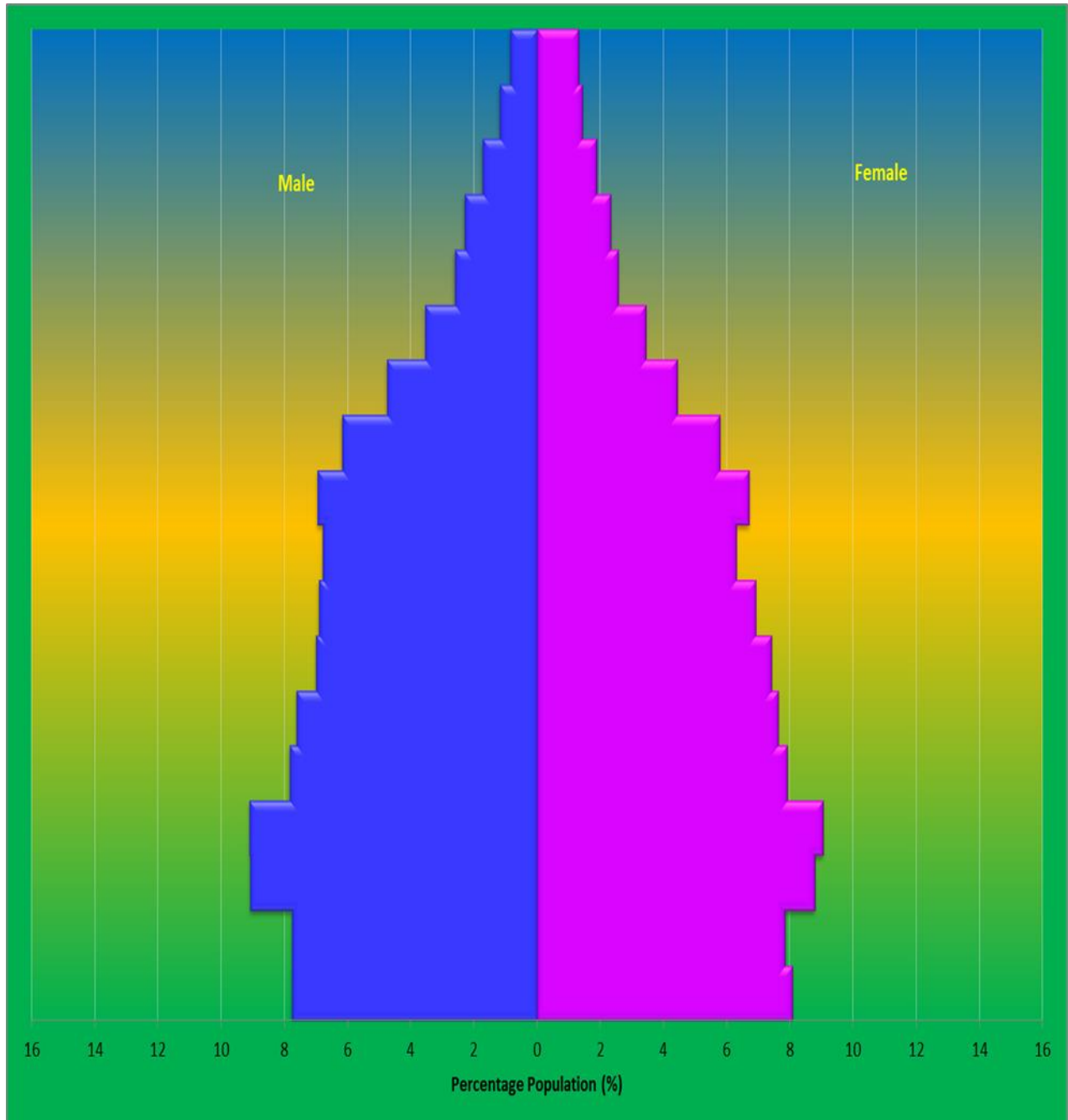
**Tourists arrival** includes all stay-over (or overnight) visitors. It does not include same-day visitors such as cruise passengers and yacht arrivals.

**Tourism (visitor) expenditure** is the total consumption expenditure made by a visitor, or on behalf of a visitor, for and during his or her trip and stay at a specific country destination.

A **natural disaster** is a physical natural event that kills people or overwhelms local capacity for damage control or recovery. Natural disasters include floods, hurricanes, tropical storms, earthquakes, torrential rains, volcanic eruptions, droughts, landslides, mudslides, tsunamis etc.



# POPULATION



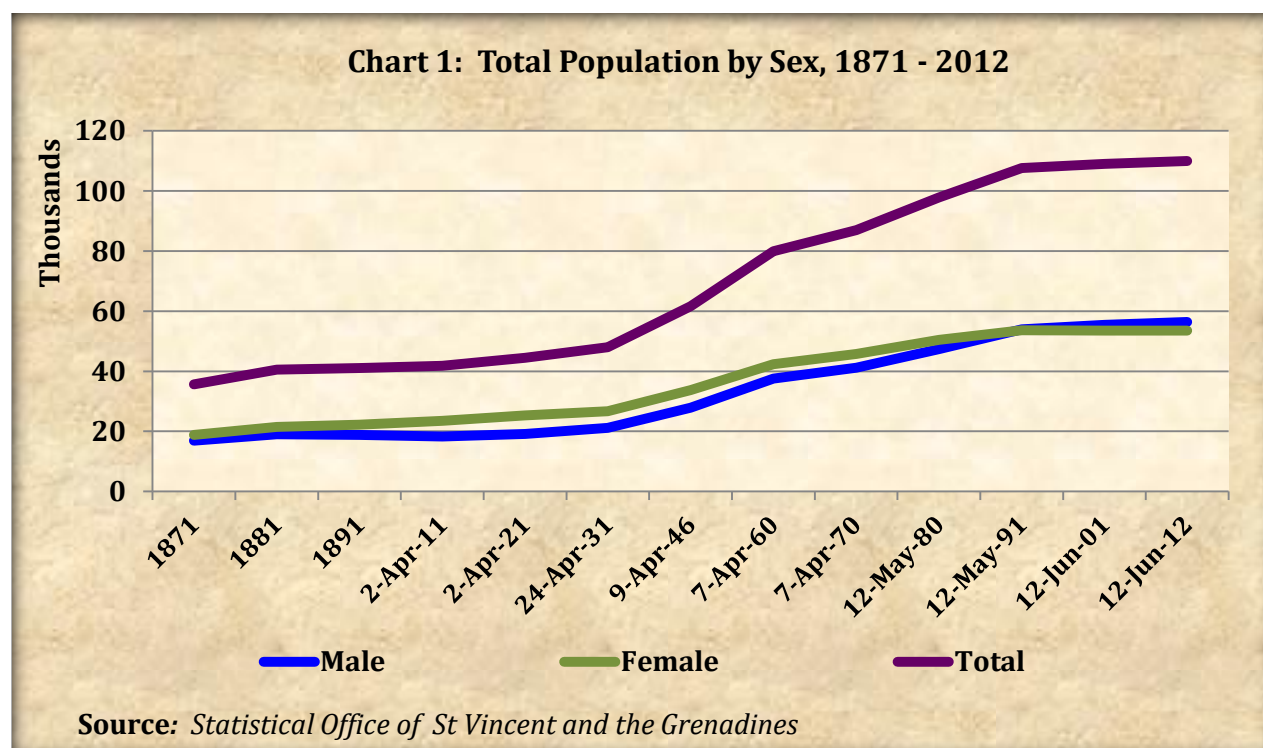


**Table 1: Total Population by Sex, 1871 – 2012**

<u>Date of Census</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>	<u>Avg. Annual Increase</u>
1871	16,865	18,823	35,688	-
1881	19,047	21,501	40,548	486
1891	18,780	22,274	41,054	51
02-Apr-11	18,345	23,532	41,877	82
02-Apr-21	19,155	25,292	44,447	257
24-Apr-31	21,208	26,753	47,961	351
09-Apr-46	27,901	33,746	61,647	912
07-Apr-60	37,561	42,387	79,948	1,307
07-Apr-70	41,150	45,794	86,944	700
12-May-80	47,409	50,436	97,845	1,090
12-May-91	53,977	53,621	107,598	887
12-Jun-01	55,456	53,566	109,022	142
12-Jun-12	56,419	53,572	109,991	88

Source: *Statistical Office of St Vincent and the Grenadines*

Note: For 1991, 2001 and 2012, the total population figures are used.



**Table 2: Household Population by Age Group, Sex and Census Years, 1980 – 2012**

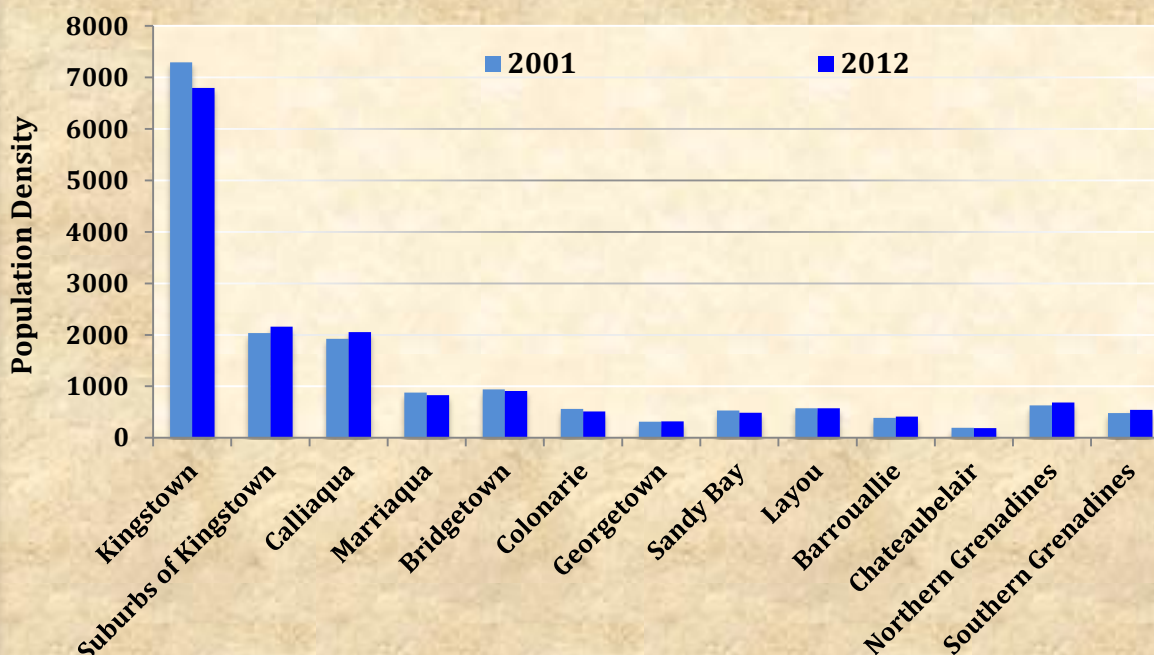
<b>Age Group</b>	<b>1980</b>			<b>1991</b>			<b>2001</b>			<b>2012</b>		
	<b>Male</b>	<b>Female</b>	<b>Total</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>
<b>0-4</b>	7,215	7,013	<b>14,228</b>	6,179	5,915	<b>12,094</b>	5201	4916	<b>10,117</b>	4,314	4,331	<b>8,645</b>
<b>5-9</b>	7,475	7,257	<b>14,732</b>	6,931	6,896	<b>13,827</b>	5816	5806	<b>11,622</b>	4,308	4,212	<b>8,520</b>
<b>10-14</b>	7,060	6,778	<b>13,838</b>	6,951	6,754	<b>13,705</b>	5715	5552	<b>11,267</b>	5,042	4,718	<b>9,760</b>
<b>15-19</b>	6,374	6,343	<b>12,717</b>	6,150	6,071	<b>12,221</b>	5762	5695	<b>11,457</b>	5,053	4,859	<b>9,912</b>
<b>20-24</b>	4,595	4,998	<b>9,593</b>	4,996	4,741	<b>9,737</b>	5051	4806	<b>9,857</b>	4,354	4,253	<b>8,607</b>
<b>25-29</b>	2,757	3,132	<b>5,889</b>	4,827	4,636	<b>9,463</b>	4418	4220	<b>8,638</b>	4,228	4,089	<b>8,317</b>
<b>30-34</b>	2,089	2,223	<b>4,312</b>	3,957	3,712	<b>7,669</b>	4078	3719	<b>7,797</b>	3,887	3,976	<b>7,863</b>
<b>35-39</b>	1,523	1,743	<b>3,266</b>	2,714	2,731	<b>5,445</b>	4259	3938	<b>8,197</b>	3,839	3,714	<b>7,553</b>
<b>40-44</b>	1,391	1,745	<b>3,136</b>	2,074	1,971	<b>4,045</b>	3502	3300	<b>6,802</b>	3,772	3,383	<b>7,155</b>
<b>45-49</b>	1,290	1,657	<b>2,947</b>	1,584	1,620	<b>3,204</b>	2454	2348	<b>4,802</b>	3,861	3,605	<b>7,466</b>
<b>50-54</b>	1,215	1,552	<b>2,767</b>	1,443	1,523	<b>2,966</b>	1966	1827	<b>3,793</b>	3,436	3,112	<b>6,548</b>
<b>55-59</b>	1,007	1,238	<b>2,245</b>	1,239	1,379	<b>2,618</b>	1421	1409	<b>2,830</b>	2,642	2,389	<b>5,031</b>
<b>60-64</b>	1,101	1,377	<b>2,478</b>	1,221	1,351	<b>2,572</b>	1333	1454	<b>2,787</b>	1,970	1,851	<b>3,821</b>
<b>65-69</b>	947	1,141	<b>2,088</b>	1,017	1,385	<b>2,402</b>	1240	1353	<b>2,593</b>	1,457	1,384	<b>2,841</b>
<b>70-74</b>	636	801	<b>1,437</b>	816	1,034	<b>1,850</b>	905	1078	<b>1,983</b>	1,282	1,254	<b>2,536</b>
<b>75-79</b>	417	634	<b>1,051</b>	556	740	<b>1,296</b>	649	891	<b>1,540</b>	964	1,014	<b>1,978</b>
<b>80-84</b>	172	420	<b>592</b>	300	487	<b>787</b>	394	571	<b>965</b>	663	780	<b>1,443</b>
<b>85+</b>	97	348	<b>445</b>	198	383	<b>581</b>	265	523	<b>788</b>	479	713	<b>1,192</b>
<b>N.S</b>	48	36	<b>84</b>	12	5	<b>17</b>	-	-	<b>-</b>	-	-	<b>-</b>
<b>TOTAL</b>	<b>47,409</b>	<b>50,436</b>	<b>97,845</b>	<b>53,165</b>	<b>53,334</b>	<b>106,499</b>	<b>54,429</b>	<b>53,406</b>	<b>107,835</b>	<b>55,551</b>	<b>53,637</b>	<b>109,188</b>

Source: Statistical Office, of St Vincent and the Grenadines

**Table 3: Population Density by Census Division, 2001 – 2012**

<b>Census Division</b>	<b>Area in Sq. Miles</b>	<b>Total Population</b>		<b>Density( persons/sq. mile)</b>	
		<b>2001</b>	<b>2012</b>	<b>2001</b>	<b>2012</b>
Kingstown	1.9	13,857	12,909	7293	6794
Suburbs of Kingstown	6.4	13,027	13,812	2035	2158
Calliaqua	11.8	22,706	24,205	1924	2051
Marriaqua	9.4	8,254	7,798	878	830
Bridgetown	7.2	6,779	6,568	942	912
Colonarie	13.4	7,491	6,849	559	511
Georgetown	22.2	6,985	7,061	315	318
Sandy Bay	5.3	2,805	2,576	529	486
Layou	11.1	6,338	6,339	571	571
Barrouallie	14.2	5,463	5,884	385	414
Chateaubelair	30.9	6,081	5,756	197	186
<b>Total (Mainland)</b>	<b>133.8</b>	<b>99,786</b>	<b>99,757</b>	<b>746</b>	<b>746</b>
Northern Grenadines	9	5,647	6,184	627	687
Southern Grenadines	7.5	3,589	4,050	479	540
<b>Total (Grenadines)</b>	<b>16.5</b>	<b>9,236</b>	<b>10,234</b>	<b>560</b>	<b>620</b>
<b>TOTAL</b>	<b>150.3</b>	<b>109,022</b>	<b>109,991</b>	<b>725</b>	<b>732</b>

Source: Statistical Office of St Vincent and the Grenadines

**Chart 2: Population Density by Census Division, 2001 & 2012**

Source: Statistical Office of St Vincent and the Grenadines

# CLIMATE & AIR



**Table 4: Temperature and Humidity, 2012 to 2016**

<b>Year</b>	<b>Quarter</b>	<b>TEMPERATURE (°C)</b>					<b>Mean Relative Humidity (%)</b>
		<b>Mean Temp.</b>	<b>Mean Max.</b>	<b>Mean Min.</b>	<b>Extreme Max.</b>	<b>Extreme Min.</b>	
2012	Jan - Mar	25.7	30.1	21.2	30.2	21.0	73
	Apr - Jun	27.1	31.1	23.1	31.5	22.8	77
	Jul - Sept	27.9	32.5	23.3	33.2	22.8	75
	Oct - Dec	27.3	32.3	22.3	33.0	21.0	76
2013	Jan - Mar	26.3	30.8	21.9	31.3	21.7	74.0
	Apr - Jun	27.2	31.2	23.1	31.3	22.6	76.0
	Jul - Sept	27.8	32.0	23.5	32.3	22.9	78.0
	Oct - Dec	26.9	31.4	22.4	31.9	21.1	77.0
2014	Jan - Mar	25.9	29.9	21.8	31.1	21.4	74.0
	Apr - Jun	27.2	31.5	22.8	32.2	22.4	74.0
	Jul - Sept	27.3	31.5	23.2	31.7	22.7	77.0
	Oct - Dec	26.9	31.7	22.0	32.3	21.7	77.0
2015	Jan - Mar	26.0	30.7	21.2	31.3	20.7	75.0
	Apr - Jun	27.0	31.0	22.9	31.0	22.2	75.0
	Jul - Sept	28.0	32.2	23.7	33.2	23.4	76.0
	Oct - Dec	27.4	31.7	23.0	32.9	22.2	77.0
2016	Jan - Mar	26.0	30.5	21.5	31.0	20.2	73.0
	Apr - Jun	27.4	31.9	22.9	31.9	22.5	76.0
	Jul - Sept	27.9	32.3	23.5	32.6	24.2	77.0
	Oct - Dec	27.0	31.5	22.5	32.0	21.8	76.0

Source: *The Meteorological Office.*

**Table 5: Rainfall (mm) Recorded at Selected Agricultural Stations, 2012 to 2016**

Year	Quarter	Location of Agricultural Station						
		Belmont	New Grounds	Dumbarton	Rabacca	Met Office	Richmond	Rivulet
2012	Jan - Mar	339.3	246.4	406.7	217.7	425.0	685.6	298.5
	Apr - Jun	458.9	473.3	858.5	686.1	443.7	888.4	393.3
	Jul - Sep	669.1	384.9	645.4	357.1	526.4	1,073.5	408.1
	Oct - Dec	406.1	507.2	964.3	0.0	606.5	748.0	405.4
	Total	1,873.4	1,611.8	2,874.9	1,260.9	2,001.6	3,395.5	1,505.3
2013	Jan - Mar	194.7	160.8	209.2	162.0	281.2	497.2	199.0
	Apr - Jun	530.6	542.3	990.7	648.1	608.4	931.3	508.9
	Jul - Sep	548.7	366.4	657.4	422.3	543.1	677.0	419.2
	Oct - Dec	1,310.6	575.4	1,199.9	861.9	904.8	1,168.4	592.2
	Total	2,584.6	1,644.9	3,057.1	2,094.3	2,337.5	3,273.9	1,719.3
2014	Jan - Mar	428.8	225.8	357.6	357.4	280.6	938.3	254.5
	Apr - Jun	143.8	127.5	267.1	245.7	182.6	365.8	135.6
	Jul - Sep	673.0	420.6	692.8	411.1	669.8	820.1	501.9
	Oct - Dec	496.8	613.5	667.6	551.1	550.1	713.2	514.1
	Total	1,742.4	1,387.4	1,985.1	1,565.3	1,683.1	2,837.4	1,406.1
2015	Jan - Mar	448.2	280.6	467	332.6	385.7	526	320.4
	Apr - Jun	404	233.7	262.6	216.5	358.7	246.9	182.6
	Jul - Sep	595.6	178.8	578.4	466.9	576	497.2	414
	Oct - Dec	628.4	302.2	594	460.1	530.2	225.8	406.6
	Total	2076.2	995.3	1902	1476.1	1850.6	1495.9	1323.6
2016	Jan - Mar	143.1	207	224.5	297.7	208.5	237.6	165.2
	Apr - Jun	406.4	244.3	361.6	368.1	322.5	497.2	251.2
	Jul - Sep	927.5	722.4	859.2	686.7	692.2	841.9	605.9
	Oct - Dec	na	na	1124.5	1065.5	1144.3	1304.9	739
	Total	1477	1173.7	2569.8	2418	1223.2	2881.6	1761.3

Source: The Meteorological Office and the Ministry of Agriculture, Forestry and Fisheries.

**Table 6a: Summary of Green House Gas Emissions, 2004**

<u>GHG Source</u>	<u>Emissions (Gg)</u>						
	<u>CO<sub>2</sub></u>	<u>CH<sub>4</sub></u>	<u>N<sub>2</sub>O</u>	<u>NO<sub>x</sub></u>	<u>CO</u>	<u>NMVOC</u>	<u>SO<sub>2</sub></u>
<b>Energy</b>							
A. Fuel Combustion	217.4	0.0	0.0	1.4	7.9	1.4	0.5
1. Energy Industries	94.1	0.0	0.0	0.3	0.0	0.0	0.3
2. Manufacturing Industries and Construction	3.2	0.0	0.0	0.0	0.0	0.0	0.0
3. Transport	107.9	0.0	0.0	1.1	7.4	1.4	0.2
4. Other Sectors	12.2	0.0	0.0	0.0	0.5	0.0	0.0
B. Fugitive Emissions from Fuels	0.0	0.0	0.0	0.0	0.0	0.0	0.0
1. Solid Fuels	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2. Oil and Natural Gas	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Industrial Processes</b>							
A. Mineral Products	0.0	0.0	0.0	0.0	0.0	3.7	0.0
B. Chemical Industry	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C. Metal Production	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D. Other Production	0.0	0.0	0.0	0.0	0.0	0.2	0.0
E. Production of Halocarbons & Sulphur Hexafluoride	0.0	0.0	0.0	0.0	0.0	0.0	0.0
F. Consumption of Halocarbons & Sulphur Hexafluoride	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Solvent and Other Product Use</b>							
A. Solvent and other product use	0.0	0.0	0.0	0.0	0.0	0.0	1.0

Source: National Greenhouse Gas Inventory for St Vincent and the Grenadines, 2004

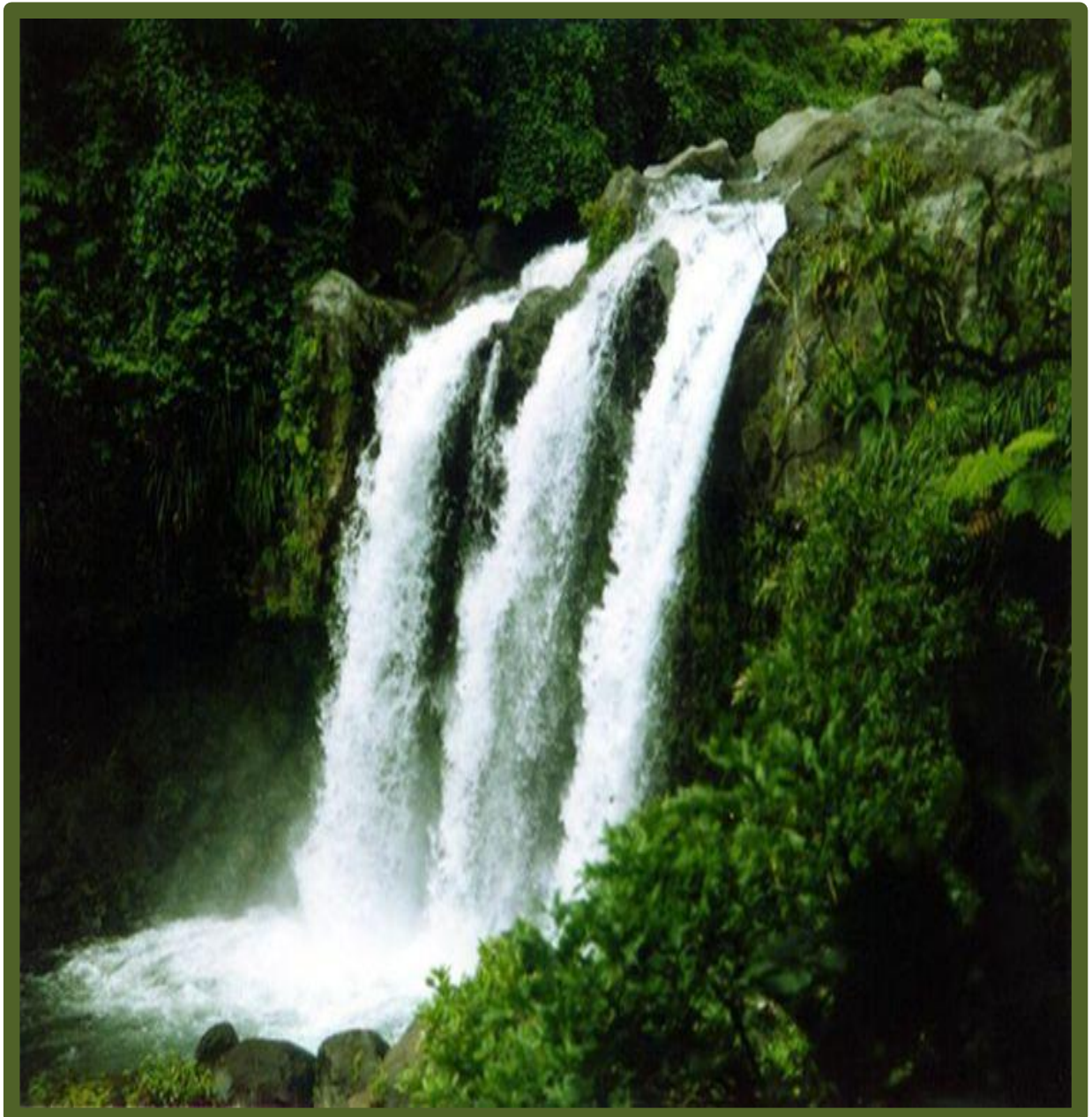


**Table 6b: Summary of Green House Gas Emissions, 2004 cont'd.**

<u>GHG Source</u>	<u>Emissions (Gg)</u>						
	<u>CO<sub>2</sub></u>	<u>CH<sub>4</sub></u>	<u>N<sub>2</sub>O</u>	<u>NO<sub>x</sub></u>	<u>CO</u>	<u>NMVOC</u>	<u>SO<sub>2</sub></u>
<b>Agriculture</b>							
A. Enteric Fermentation	0.0	0.2	0.0	0.0	0.0	0.0	0.0
B. Manure Management	0.0	0.0	0.0	0.0	0.0	0.0	0.0
C. Rice Cultivation	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D. Agricultural Soils	0.0	0.0	0.2	0.0	0.0	0.0	0.0
E. Prescribed Burning of Savannas	0.0	0.0	0.0	0.0	0.0	0.0	0.0
F. Field Burning of Agricultural Residues	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Land Use Change &amp; Forestry</b>							
A. Changes in Forests and other Woody Biomass Stocks	0.0	0.0	0.0	0.0	0.0	0.0	0.0
B. Forest and Grassland Conversion	20.9	0.0	0.0	0.0	0.0	0.2	0.0
C. Abandonment of Managed Lands	0.0	0.0	0.0	0.0	0.0	0.0	0.0
D. CO <sub>2</sub> Emissions and Removals	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Waste</b>							
A. Solid Waste Disposal on Land	0.0	2.6	0.0	0.0	0.0	0.0	0.0
B. Waste Handling	0.0	0.3	0.0	0.0	0.0	0.0	0.0
C. Waste Incineration	0.0	0.0	0.0	0.0	0.0	0.0	0.0
<b>Other</b>							
A. International Bunkers	0.7	0.0	0.0	0.0	0.0	0.0	0.0
1. Aviation	0.7	0.0	0.0	0.0	0.0	0.0	0.0
2. Marine	0.0	0.0	0.0	0.0	0.0	0.0	0.0
CO <sub>2</sub> Emissions from Biomass	7.5	0.0	0.0	0.0	0.0	0.0	0.0

Source: *National Greenhouse Gas Inventory for St Vincent and the Grenadines, 2004*

# **WATER RESOURCE**



**Table 7: Water Abstraction by Catchment Area, 2012 to 2016,**

('000 000 gal.)

Water System	Year				
	2012	2013	2014	2015	2016
Dalaway	750.4	678.7	454.2	892.1	750.3
Fancy	9.6	9.0	6.7	9.9	9.7
Hermitage	208.9	198.0	163.0	234.6	237.0
Jennings	245.4	271.6	214.4	329.3	344.6
Layout	50.3	47.3	36.0	45.9	62.3
Majorca	277.7	218.5	205.1	259.8	302.6
Mamoon	24.0	18.0	24.0	24.1	24.1
Montreal	274.1	283.5	189.4	316.7	312.0
Owia	13.1	15.0	13.1	18.2	16.1
Perseverance	83.9	83.4	70.1	111.3	120.6
Sandy Bay	36.0	34.5	30.7	39.7	41.0
<b>TOTAL</b>	<b>1,973.4</b>	<b>1,857.7</b>	<b>1,406.7</b>	<b>2,281.5</b>	<b>2,220.3</b>

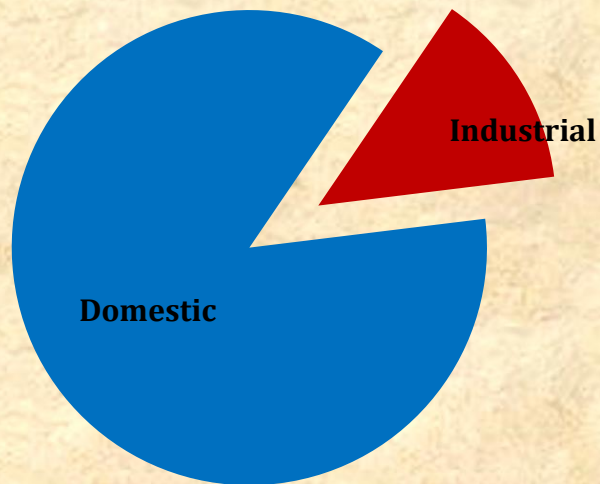
Source: Central Water and Sewage Authority (CWSA).

**Table 8: Potable Water Consumption, 2012 to 2016**

Category	Year				
	2012	2013	2014	2015	2016
<b>DOMESTIC</b>					
Consumption - Mil. gals	1,029	1,003	1,037	1062	1091
<b>INDUSTRIAL(Ships)</b>					
Consumption - Mil. gals	5	3	3	2	2
<b>COMMERCIAL(Industrial)</b>					
Consumption - Mil. gals	141	114	143	159	169
<b>GOVERNMENT**</b>					
Consumption - Mil. gals	na	na	na	na	na

\*\* Includes consumption for standpipes

Source: Central Water and Sewage Authority (CWSA).

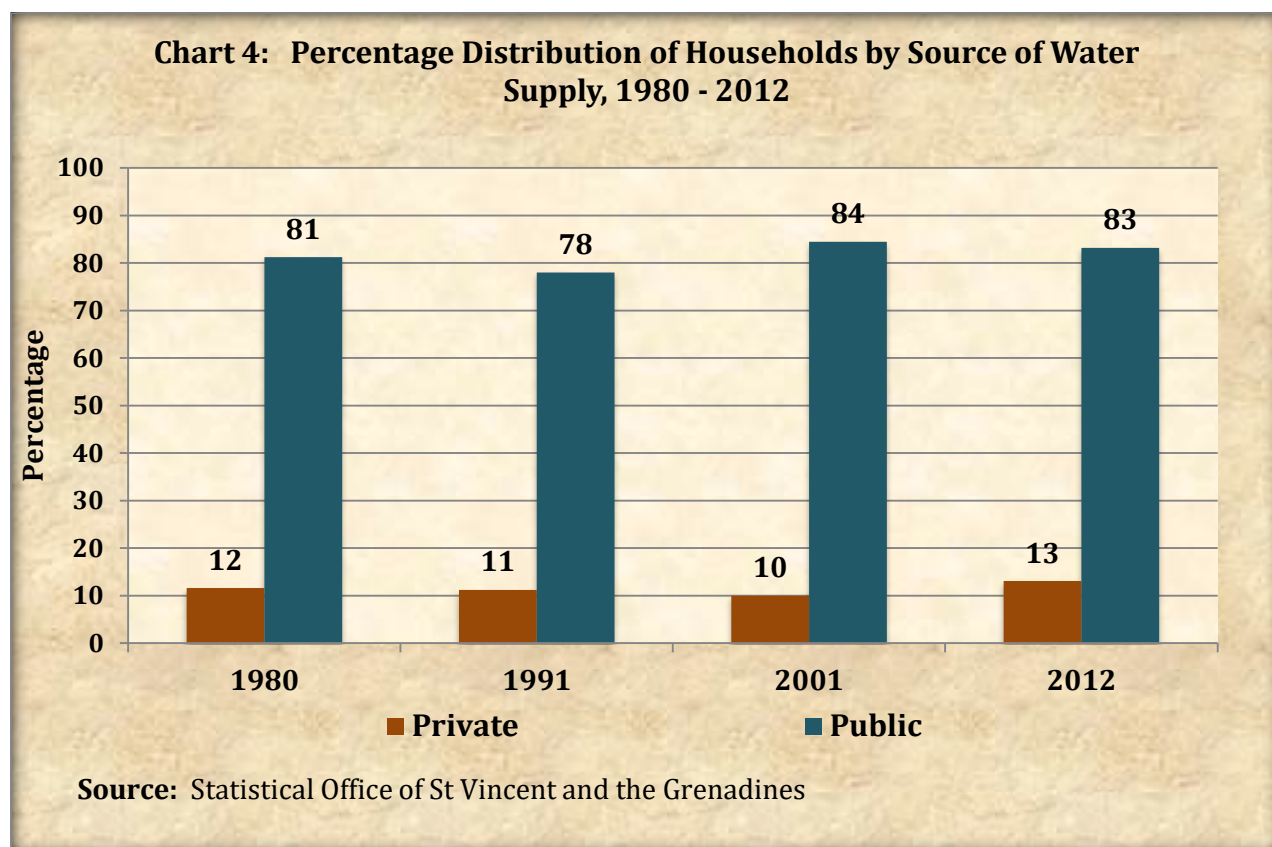
**Chart 3: Potable Water Consumption by Type of Use, 2016**

**Source:** Statistical Office of St Vincent and the Grenadines

**Table 10: Distribution of Households by Source of Water Supply, 1980 – 2012**

TYPE	Year			
	1980	1991	2001	2012
<b>Private</b>	2,349	3,027	3,042	4,813
<b>Public</b>	16,224	20,782	25,648	30,579
<i>Piped into Dwelling</i>	4,337	8,984	15,964	25,365
<i>Piped into Yard</i>	2,690	3,864	5,217	4,270
<i>Stand Pipe</i>	9,197	7,934	4,467	944
<b>Public Well/ Tank</b>	260	279	161	48
<b>Other</b>	1,158	2,914	1,707	1,103
<b>Not Stated</b>	299	-	-	286
<b>Total</b>	<b>20,290</b>	<b>27,002</b>	<b>30,558</b>	<b>36,829</b>

Source: Statistical Office of St Vincent and the Grenadines





# PROTECTED MARINE & TERRESTRIAL AREAS



**Table 11: Marine Territory**

<b>Marine Territory</b>	<b><u>Unit</u></b>	<b><u>Size/Area</u></b>
Marine Area (Exclusive Economic Zone)	Km <sup>2</sup>	27,533
Shelf Area	Km <sup>2</sup>	78,000
Length of Coastline	Km	84
Marine area under protection	Km <sup>2</sup>	98.2
Proportion of Marine area under protection	%	36.00

Source: Ministry of Agriculture, Forestry and Fisheries

**Table 12: Protected Marine Areas**

<b>Area Name</b>	<b><u>Area (ha)</u></b>	<b><u>Area (Km<sup>2</sup>)</u></b>	<b><u>Square Nautical Miles</u></b>	<b><u>Status</u></b>
Bequia Marine Conservation Area	367.5	3.75	0.99	Designated
Isle Quatre Marine Reserve	332.3	3.32	0.41	Designated
Mustique Marine Reserve	652.8	6.51	4.72	Designated
Canouan Marine Reserve	1250.7	12.51	1.84	Designated
Tobago Cays-Mayreau	5468.5	54.7	13.5	Designated
Union-Palm Island Marine Conservation Area	1359.6	13.6	4.2	Designated
Petit St. Vincent Wildlife Reserve	121	1.21	1.8	Designated
South Coast Marine Park	272	2.72	0.88	Proposed
<b>Total Marine Area Designated &amp; Protected</b>	<b>9552.4</b>	<b>95.6</b>	<b>27.46</b>	

Source: National Parks, Rivers and Beaches Authority

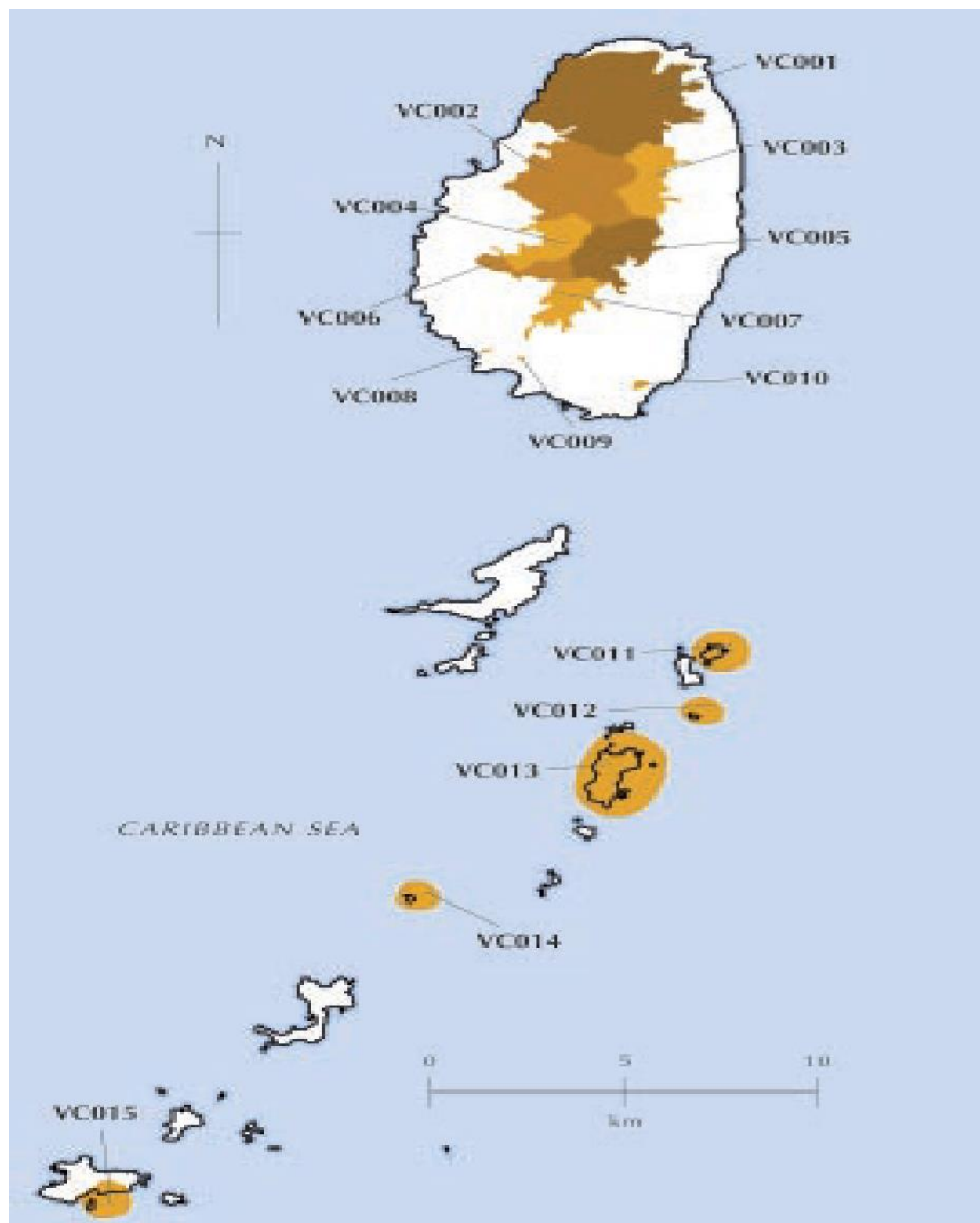


**Table 13: Protected Terrestrial Areas**

<b>Area Name</b>	<b><u>Size (ha)</u></b>	<b><u>Size (km<sup>2</sup>)</u></b>	<b><u>Status</u></b>
Chateaubelair Islet Marine Park ***	7.0	0.1	Designated
King's Hill Forest Reserve	24.4	0.2	Designated
Mt. Pleasant Forest Reserve ***	1,250.8	12.5	Designated
Colonarie Forest Reserve) ***	1,700.3	17.0	Designated
Richmond Forest Reserve	1,992.1	19.9	Designated
Young Island Wildlife Reserve	5.4	0.1	Designated
Frigate Island	8.2	0.1	Designated
Cumberland Forest Reserve	1,075.9	10.8	Designated
Miligan Island	2.6	0.0	Designated
West Cay Wildlife Reserve	0.7	0.0	Designated
Big Cay Wildlife Reserve	0.8	0.0	Designated
Pigeon Island Wildlife Reserve	8.9	0.1	Designated
Battowia Island Wildlife Reserve	65.9	0.7	Designated
Allwash Island Wildlife Reserve	3.7	0.0	Designated
Savan Island Wildlife Reserve	10.5	0.1	Designated
Petit Canouan Wildlife Reserve	19.2	0.2	Designated
Sail Rock Wildlife Reserve	0.9	0.0	Designated
Catholic Rocks Wildlife Reserve(1)	0.2	0.0	Designated
Parrot Reserve/Dalaway Forest Reserve	617.9	6.2	Designated
Parrot Reserve/Richmond Forest Reserve	1,171.2	11.7	Designated
Catholic Island Wildlife Reserve	4.9	0.0	Designated
La Soufriere National Park	5,269.7	52.7	Proposed
Kingstown Forest Reserve	876.1	8.8	Proposed
Campden Park Forest Reserve	5.3	0.1	Proposed
Balliceaux Island	142.1	1.4	Proposed
Total Terrestrial Area Designated & Protected by Law	<b>7,971.50</b>	<b>79.72</b>	

Source: *National Parks, Rivers and Beaches Authority*

**Map 1: Important Bird Area**



**Table 14: Important Bird Areas**

<u>Key</u>	<u>Name</u>
VC001	La Soufriere National Park
VC002	Richmond Forest Reserve
VC003	Mount Pleasant Forest
VC004	Cumberland Forest reserve
VC005	Colonarie Forest Reserve
VC006	Dalaway Forest Reserve
VC007	Kingstown Forest Reserve
VC008	Campden Park Forest Reserve
VC009	Botanic Gardens Natural Landmark
VC010	King's Hill Forest Reserve
VC011	Battowia Island
VC012	All Wash Island
VC013	Mustique Island
VC014	Petite Canouan
VC015	Ashton Wetland

Source: *National Parks, Rivers and Beaches Authority*

# Agriculture & Land Use



**Table 15: Selection of Commodities Produced by Weight, 2012 to 2016**

Quantity (000'Kg)

Agricultural Crops	2012	2013	2014	2015	2016
Arrowroot Rhizomes	196	137	228	414	582
Bananas	1,843	2,103	1,546	2,391	2,342
Dasheen	5,034	5,305	5,186	4,654	6,532
Eddoes	1,751	1,808	1,547	1,451	1,954
Ginger	2,075	2,322	2,415	1,910	2,453
Mace	61	61	61	61	61
Nutmegs	251	254	189	192	205
Peanuts/Groundnuts	208	239	237	228	289
Plantains	2,155	2,350	3,149	3,323	3,870
Sweet Potatoes	3,012	2,821	3,114	2,772	2,354
Tannias	270	309	304	284	319
Yams (other)	1,241	1265	1,296	1,155	880
Yams (Portuguese)	608	789	842	833	711
Yams (White)	515	564	680	690	693
Yams (Yellow)	65	69	66	68	81
<b>TOTAL</b>	<b>19,287</b>	<b>20,396</b>	<b>20,860</b>	<b>20,425</b>	<b>23,326</b>

Source: Ministry of Agriculture, Forestry and Fisheries

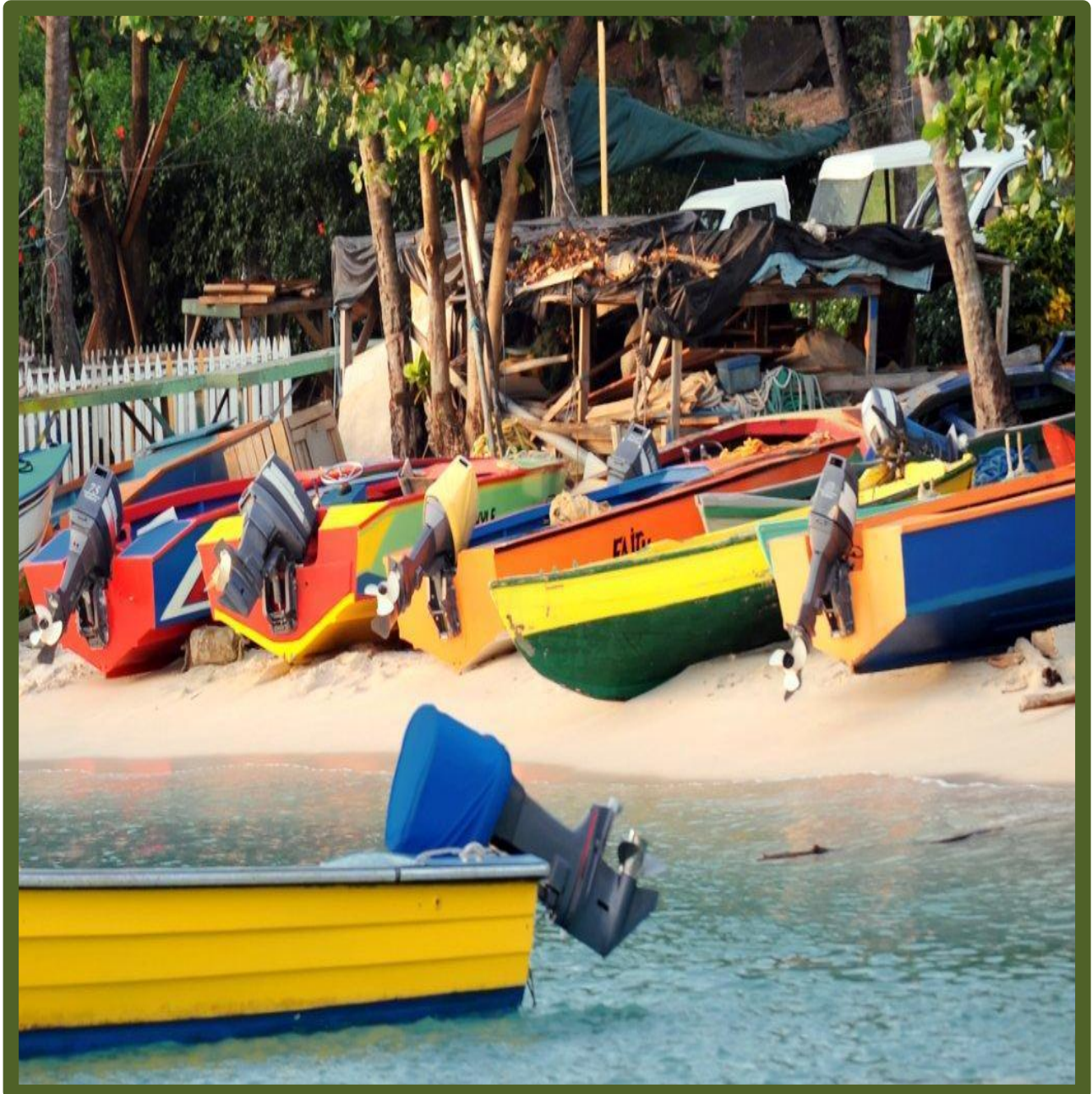
**Table 16: Forest Classification**

Forest Location	Land Cover Class	Area (Ha)	Total Forest Percent	% by land Cover class
<b>Outside Protected Areas</b>	Cloud Forests	184	0.6	4
	Forest Cloud Elfin	23	0.1	8
	Forest Cloud Transitional	341	1.1	16
	Forest Cloud Deciduous	4,558	15.1	83
	Forest Evergreen & Seasonal	8,078	26.7	76
	Forest Plantation	12	0.04	11
	Forest Semi Deciduous	2,691	8.9	96
	Mangrove	13	0.04	32
<b>Inside Proposed Protected Areas</b>	Cloud Forests	1,783	5.9	43
	Forest Cloud Elfin	275	0.9	89
	Forest Cloud Transitional	863	2.9	41
	Forest Cloud Deciduous	403	1.3	7
	Forest Evergreen & Seasonal	4,749	15.7	45
	Forest Plantation	8	0.03	7
	Forest Semi Deciduous	63	0.2	2
	Mangrove	2	0.01	5
<b>Inside designated Protected Areas</b>	Cloud Forests	2,153	7.1	52
	Forest Cloud Elfin	11	0.04	3
	Forest Cloud Transitional	879	2.9	42
	Forest Cloud Deciduous	511	1.7	9
	Forest Evergreen & Seasonal	2,523	8.3	24
	Forest Plantation	89	0.3	82
	Forest Semi Deciduous	34	0.1	1
	Mangrove	24	0.1	62

Source: Ministry of Agriculture, Forestry and Fisheries



# FISHING





**Table 18: Registered Fishing Vessels and Fishermen, 1995 to 2016**

Year	Number of Vessels	Vessels Cumulative Totals	Number of Fishers	Fishers Cumulative Totals
1995	109	109	56	56
1996	231	340	75	131
1997	94	434	136	267
1998	38	472	59	326
1999	29	501	35	361
2000	40	541	37	398
2001	23	564	23	421
2002	38	602	31	452
2003	19	621	23	475
2004	8	629	134	609
2005	6	635	129	738
2006	32	667	127	865
2007	16	683	28	893
2008	20	703	34	927
2009	18	721	34	961
2010	16	737	19	980
2011	7	744	13	993
2012	8	752	15	1,008
2013	54	806	43	1,054
2014	21	827	46	1,100
2015	12	839	42	1,142
2016	22	861	42	1,184

Source: Ministry of Agriculture, Forestry and Fisheries

**Table 19: Fish Landed by Type, 2012 to 2016**

TYPE	2012		2013		2014		2015		2016	
	Qty (lbs)	Value (\$EC)	Qty (lbs)	Value (\$EC)	Qty (lbs)	Value (\$EC)	Qty (lbs)	Value (\$EC)	Qty (lbs)	Value (\$EC)
Conch	23,128	185,101	104,127	762,059	116,556	780,174	74,637	490,696	91,388	597,158
Lobster	29,399	403,006	89,867	1,167,783	111,579	1,507,496	116,288	1,590,478	68,774	954,856
Turtle	222	1,552	0	0	0	0	0	0	0	0
Whale	950	3,425	200	1,200	10	1,000	110,367	496,517	19,040	94,380
Shark	13,597	76,528	25,910	156,115	18,479	115,687	11,9002	72,378	13,154	80,029
Balahoo	85,840	168,830	168,988	326,231	86,475	172,500	232,918	432,057	203,746	381,601
Bonito	25,460	182,552	24,682	185,366	27,095	198,461	20,733	157,480	11,488	85,642
Cavalli	35,312	249,854	25,882	190,963	35,294	257,377	41,094	252,355	49,892	305,881
Dolphin	191,248	1,707,601	189,868	1,698,957	120,413	1,079,049	205,330	1,837,900	207,602	1,862,832
Jacks	146,153	484,319	146,907	564,084	190,040	741,145	223,735	1,014,932	119,252	521,832
Kingfish	61,896	541,424	60,774	536,282	45,472	403,442	19,183	167,454	36,829	326,772
Porpoise	680	2,940	470	1,880	570	2,450	9,897	67,423	7,940	39,700
Red Hind	46,314	396,969	89,627	793,016	94,935	815,317	48,494	428,852	38,960	348,285
Red Snapper	14,295	113,654	11,883	87,600	14,394	101,300	7,818	63,978	7,262	62,364
Robin	199,774	769,469	296,817	1,272,679	334,107	1,392,595	283,788	1,283,500	142,423	632,776
Skip Jack	61,980	440,270	78,185	552,127	86,931	667,564	102,073	812,232	123,295	968,401
Other Species	211,129	1,220,446	260,717	1,970,519	330,370	1,966,532	275,693	1,953,205	432,392	2 080 980
<b>TOTAL</b>	<b>1,147,377</b>	<b>6,947,940</b>	<b>1,574,703</b>	<b>2,811,211</b>	<b>1,612,719</b>	<b>10,202,090</b>	<b>1,783,950</b>	<b>11,121,435</b>	<b>1,431,014</b>	<b>9,343,490</b>

Source: Ministry of Agriculture, Forestry and Fisheries

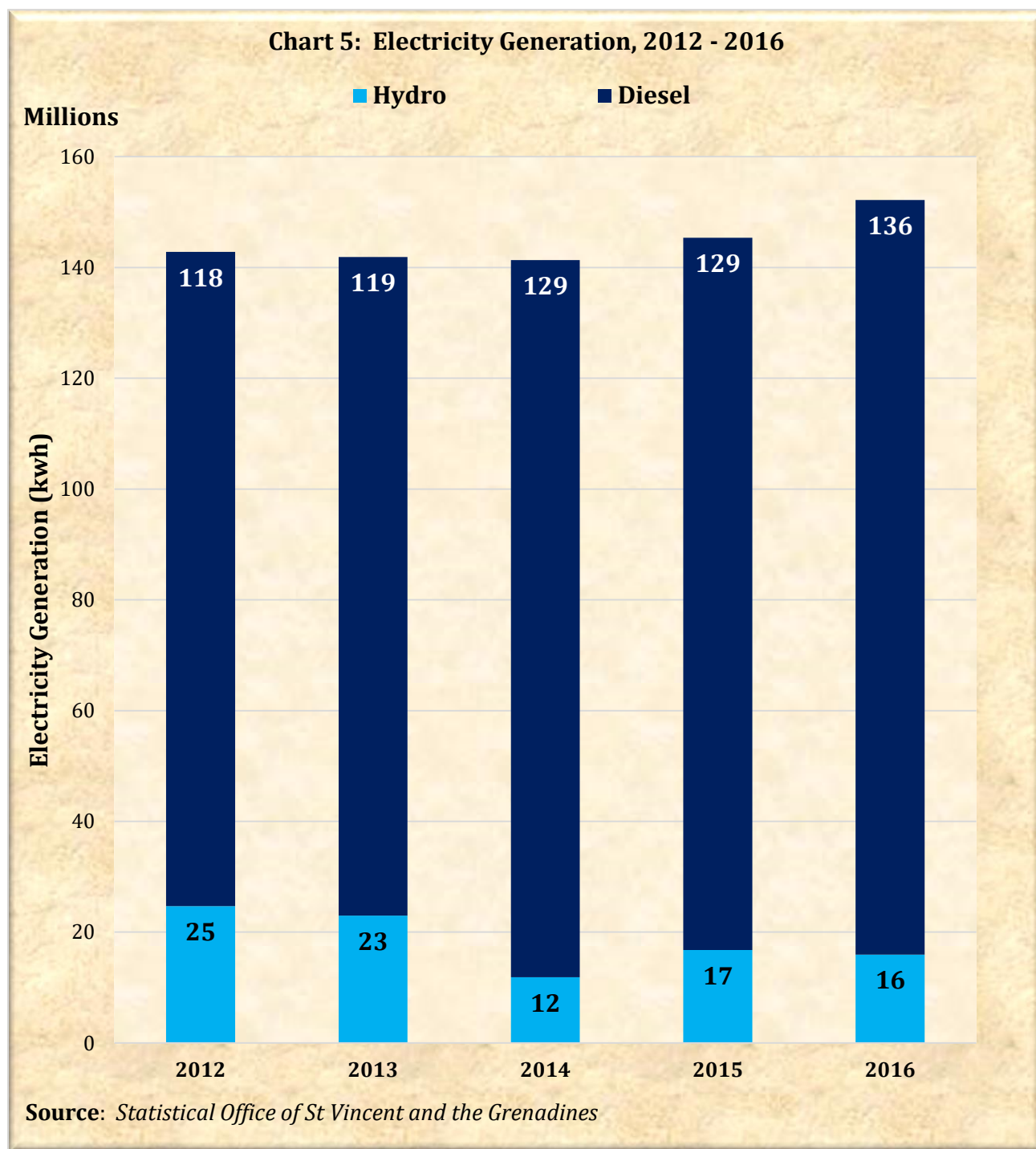
# ENERGY AND FUEL

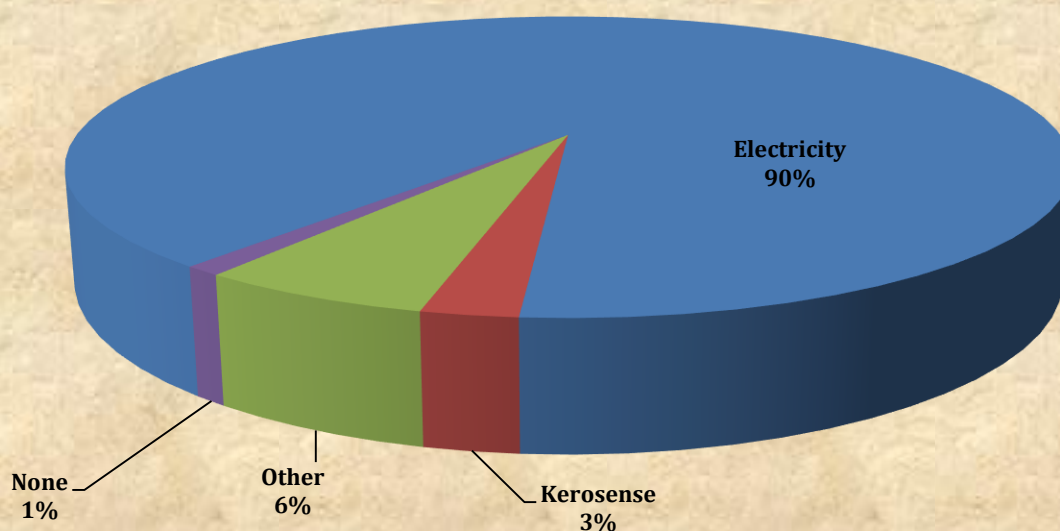


**Table 20: Electricity Generation, Sales and Consumers, 2012 to 2016**

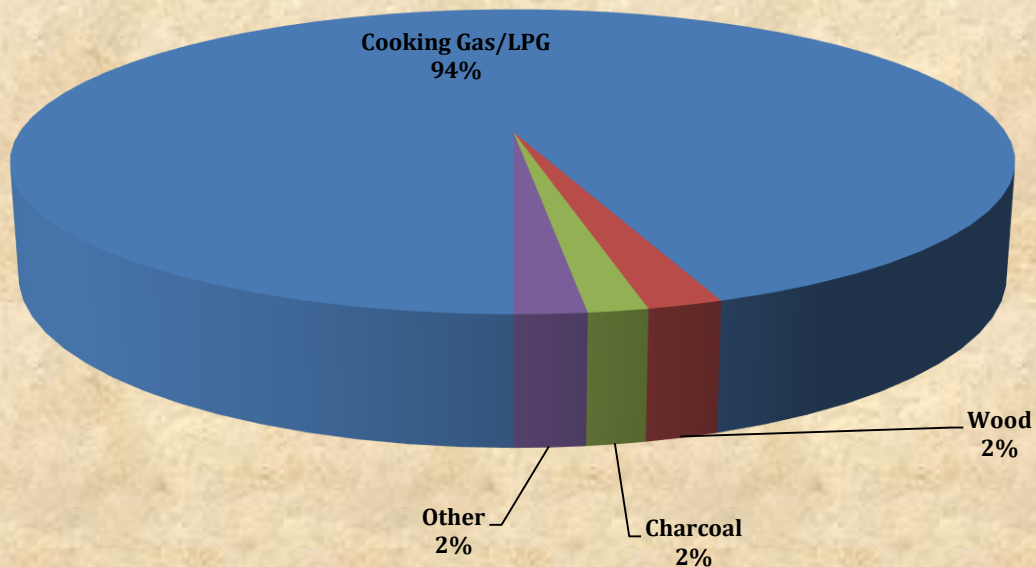
DESCRIPTION	Year				
	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>
<b>GENERATION (KWH)</b>					
Hydro	24,688,510	22,976,040	11,858,670	16,757,832	15,932,020
Diesel	118,099,077	118,904,971	129,469,267	128,614,775	136,231,070
<b>Total</b>	<b>142,787,587</b>	<b>141,881,011</b>	<b>141,327,937</b>	<b>145,372,607</b>	<b>152,163,090</b>
Fuel used in Generation (gals)	6,416,905	6,671,789	7,259,075	7,219,335	7,676,956
<b>DISTRIBUTION (KWH)</b>					
Domestic	60,516,362	60,270,672	60,194,153	52,401,534	63,526,269
Commercial	48,914,600	48,122,359	47,520,517	60,104,511	53,969,022
Industry	6,276,922	6,357,017	6,947,766	7,277,729	7,269,863
Street Lighting	3,165,738	3,173,238	3,175,998	3,185,880	3,232,336
Public Authorities	9,693,437	9,770,450	9,554,736	9,820,052	10,121,137
Other Company Needs	4,925,202	4,859,493	4,654,333	4,517,401	4,728,423
Loss in Transmission	9,209,207	9,585,415	9,782,431	10,259,667	10,557,348
<b>SALES (KWH)</b>					
Domestic	58,120,770	63,643,375	52,473,665	46,035,528	51,021,320
Commercial	56,094,680	55,706,051	55,680,710	53,003,105	43,088,003
Industry	6,417,686	6,385,718	6,900,753	5,667,293	5,098,903
Street Lighting	3,576,246	3,576,246	3,725,409	3,084,663	2,872,344
<b>CONSUMERS AT THE YEAR END</b>					
Domestic	36,292	36,864	37,531	38,248	39,031
Commercial	4,395	4,438	4,431	4,479	4,508
Industrial	20	21	21	22	23
Street Lighting	47	47	47	47	47
<b>Total</b>	<b>40,754</b>	<b>41,370</b>	<b>42,030</b>	<b>42,796</b>	<b>43,609</b>

Source: *St Vincent Electricity Services (VINLEC)*



**Chart 6: Main Type of Lighting Used by Households, 2012**

**Source:** *St Vincent and the Grenadines Statistical Office*

**Chart 7: Main Type of Fuel Used for Cooking by Households, 2012**

**Source:** *Statistical Office of St Vincent and the Grenadines*

**Table 21: Fuel Imported by Type and Volume, 2012 to 2016**Quantity (m<sup>3</sup>)

Fuel	Year				
	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>
Gasoline	29,371	22,587	35,503	29,227	35,603
Dieseline	63,329	50,242	64,028	41,224	55,508
Kerosene	97	55	89	42	69
LPG	7,492	6,149	7,460	11,306	8,693

Source: *St Vincent and the Grenadines Statistical Office*



# TOURISM



**Table 22: Number of Visitors and Average Length of Stay, 2012 to 2016**

Year	Total No. of Visitors	Average Length of Stay (days)	Total Mid-Year Population
2012	199,840	11.1	109,991
2013	200,121	11.9	110,079
2014	204,934	13.3	110,167
2015	206,662	13.5	110,255
2016	227,230	13.0	110,343

Source: *St Vincent and the Grenadines Tourism Authority***Table 23: Selected Visitor Statistics, 2012 to 2016**

	Year				
	2012	2013	2014	2015	2016
<b>Total Tourist arrivals</b>	<b>199,840</b>	<b>200,121</b>	<b>204,934</b>	<b>206,662</b>	<b>227,230</b>
Cruise Ship Passengers	77,179	80,185	85,170	82,079	99,542
Stay over visitors	74,364	71,725	70,713	75,381	78,751
Yacht passengers	45,246	45,548	46,899	47,470	47,575
Same day visitors	3,051	2,663	2,152	1,732	1,362
Average length of stay	11.1	11.9	13.3	13.5	13.0
Cruise Ship calls	173	212	222	231	259

Source: *St Vincent and the Grenadines Tourism Authority***Table 24: Stay-Over Visitors by Type of Accommodation, 2012 to 2016**

Year	Type of Accommodation						Total
	Hotels	Apartments	Guest Houses	Resorts	Private Homes	Other/Not Stated	
2012	11,349	1,888	787	15,117	39,052	6,171	74,364
2013	12,076	2,194	895	14,011	37,492	5,057	71,725
2014	11,295	2,220	885	15,102	37,504	3,707	70,713
2015	11,330	1,825	739	17,225	40,731	3,531	75,381
2016	10,926	1,662	688	19,028	42,586	3,861	78,751

Source: *St Vincent and the Grenadines Tourism Authority*

**Table 25: Stay-Over Visitors by Country of Residence, 2013 to 2016**

	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
<b>Countries</b>	<b>2013</b>	<b>2014</b>	<b>2015</b>	<b>2016</b>
United States of America	20,106	19,838	22,063	22,848
Canada	7,146	7,203	7,515	8,010
Antigua	895	722	820	884
Barbados	6,033	5,718	6,115	6,233
Grenada	977	886	931	1,017
St. Lucia	1,769	1,640	1,713	2,001
Trinidad	6,946	6,081	7,306	9,500
French Caribbean	313	299	328	379
Dutch Caribbean	329	280	316	313
Other Caribbean	4,483	4,260	4,037	4,037
United Kingdom	15,183	15,960	17,045	16,696
France	945	802	764	814
Germany	791	820	730	752
Italy	756	631	516	584
Sweden	497	399	490	502
Switzerland	440	383	390	399
Belgium	126	118	118	111
Spain	154	137	141	171
Ireland	193	185	182	154
Holland	143	112	99	76
Norway	148	195	167	150
Other Europe	1,025	1,042	938	981
South America	1,081	1,785	1,343	884
Other Countries	1,246	1,217	1,314	1,255
<b>Total</b>	<b>71,725</b>	<b>70,713</b>	<b>75,381</b>	<b>78,751</b>

Source: *St Vincent and the Grenadines Tourism Authority*

**Table 26: Stay-Over Visitors by Place of Stay and Month, 2016**

Month	Hotels	Apts.	Guest Houses	Resorts & Villas	Private Homes	Other/Not Stated	Total
January	1,175	124	79	1,938	3,305	586	7,207
February	1,348	241	51	2,029	2,908	476	7,053
March	1,361	229	105	2,501	3,409	481	8,086
April	1,019	76	37	1,699	2,823	345	5,999
May	708	103	39	1,464	2,549	254	5,117
June	807	135	36	1,128	4,700	219	7,025
July	634	156	101	1,355	4,961	311	7,518
August	761	156	33	1,492	3,690	158	6,290
September	423	76	17	968	2,368	56	3,908
October	598	94	80	1,299	2,631	162	4,864
November	1,067	146	64	1,607	2,652	308	5,844
December	1,025	126	46	1,548	6,590	505	9,840
<b>Total</b>	<b>10,926</b>	<b>1,662</b>	<b>688</b>	<b>19,028</b>	<b>42,586</b>	<b>3,861</b>	<b>78,751</b>

Source: *St Vincent and the Grenadines Tourism Authority*



# WASTE





**Table 27: Waste Disposed by Type of Waste, 2012 to 2016**Quantity (m<sup>3</sup>)

<u>Waste Category</u>	<u>Year</u>					<u>TOTAL</u>
	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	
Green Waste	15,916	31,659	40,424	41,521	30,920	<b>160,440</b>
Commercial Waste	30,650	37,330	41,848	44,460	52,813	<b>207,281</b>
Household & Institutional Waste	26,690	37,206	41,615	48,089	51,970	<b>205,570</b>
Construction & Demolition Waste	2,171	27,354	6,631	6,099	9,862	<b>52,117</b>
<b>TOTAL</b>	<b>75,427</b>	<b>133,549</b>	<b>130,518</b>	<b>142,364</b>	<b>147,581</b>	

Source: *St Vincent and the Grenadines Solid Waste Management Unit, Central Water and Sewage Authority***Table 28: Waste by Type of Disposal, 2012 to 2016**

<u>Type of Disposal</u>	<u>Quantity (m<sup>3</sup>)</u>					<u>TOTAL</u>
	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>	
Landfill	75,363	139,578	130,196	149,729	160,477	<b>655,343</b>
Composting	64	67	38	39	36	<b>244</b>
<b>TOTAL</b>	<b>75,427</b>	<b>139,645</b>	<b>130,234</b>	<b>151,783</b>	<b>162,529</b>	<b>655,587</b>

Source: *St Vincent and the Grenadines Solid Waste Management Unit, Central Water and Sewage Authority*

**Table 29: Waste Exported from St Vincent and the Grenadines for Recycling, 2012 to 2016**

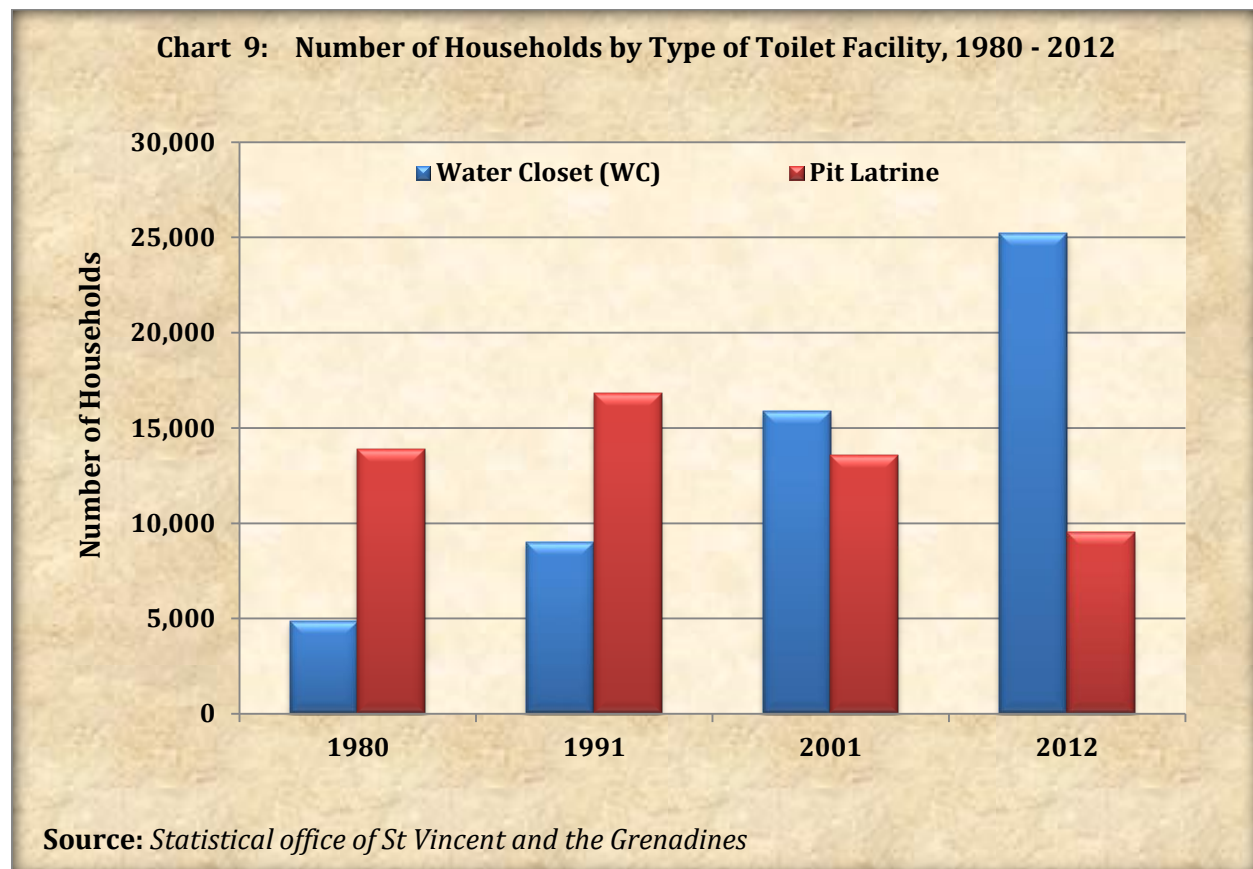
<u>Waste</u>	<u>Weight (Kg)</u>				
	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>2015</u>	<u>2016</u>
Waste, parings and scrap, of polymers of ethylene.	225	0	0	0	0
Waste, parings and scrap, of plastics other than polymers of ethylene, etc.	450	0	0	0	0
Other recovered paper or paperboard, including unsorted waste and scrap.	81,300	0	0	0	0
Waste and scrap of cast iron.	541,509	0	63,000	681	909
Waste and scrap of stainless steel.	0	0	0	0	909
Waste and scrap of alloy steel, other than of stainless steel.	1,297,870	1,400	28,000	41,858	0
Waste and scrap of tinned iron or steel.	120,000	0	0	0	0
Other ferrous waste and scrap not elsewhere specified or included.	262,435	0	0	0	0
Copper waste and scrap.	0	0	30,000	0	39,682
Aluminium waste and scrap.	120,590	141,080	101,000	126,329	40,657
<b>TOTAL</b>	<b>2,424,380</b>	<b>142,480</b>	<b>222,000</b>	<b>168,868</b>	<b>82,157</b>

Source: *St Vincent and the Grenadines Statistical Office*

**Table 30: Number of Households by Type of Sanitation Facilities, 1980 to 2012**

Sanitation Facility	1980	1991	2001	2012
Water Closet (WC)	4,868	8,970	15,886	25,214
Pit Latrine	13,903	16,815	13,544	9,529
Other	154	215	71	102
None	824	1,002	1,057	1,707
Not Stated	541	0	0	277
<b>TOTAL</b>	<b>20,290</b>	<b>27,002</b>	<b>30,588</b>	<b>36,829</b>

Source: *St Vincent and the Grenadines Statistical Office*



# NATURAL DISASTERS



**Table 31: Natural Disasters, 2012 to 2016**

Year	Natural Disaster	Type	Economic Loss (EC\$M)	Human Loss	Social Impact	Comments
2012	Heavy rains	Landslide	N/A	0	39 landslides reported, 1 home destroyed	14 homes damaged
		Flooding	N/A	0	11 homes flooded	
2013	Floods (Dec 2013)	Flood and Landslide	EC\$330M	12	530 homes affected (34 destroyed, 118 damaged, 299 flooded, 79 landslides reported), significant damage to bridges and road network	50% of population without water for several days, schools disrupted for a week, Northern part of island isolated for several days (2 days North Leeward, and 4 days Fancy - North Windward was inaccessible)
2014	Trough system - Heavy Rains (6th September 2014)	Landslide and Flooding	Direct loss of EC\$300,000	0	4 homes damaged, 1 family displaced for approximately 1 year	48 landslides, 10 retaining walls collapsed, 1 road damaged and 13 homes flooded with household items damaged. Flooding at the E. T. Joshua Airport, Airport was closed most of Saturday and opened at 5pm
2015	No major disaster	-	-	-	-	No significant damage

Source: National Emergency Management Organization (NEMO)



Table 31 cont'd.: Natural Disasters, 2012 to 2016

Year	Natural Disaster	Type	Economic Loss (EC\$M)	Human Loss	Social Impact	Comments
2016	Tropical Storm Matthew - 28th - 29th September 2016	Strong winds, landslide and flooding	EC\$7 million, Agriculture 2.28M, Infrastructure 2.435M, Housing 1.95M (please note direct damage only)	1 (15 year old)	1 person injured, 6 homes destroyed, 21 persons displaced	483 person occupied 24 emergency shelters in mainland St. Vincent, 61 homes damaged, 49 landslides, 28 retaining walls collapsed and 57 homes flooded. Island wide shut down on 28th and 29th September
	Trough System- November 9th	Heavy rains - Flooding and Landslide	NA	1 dead, 1 missing (presumed dead)	1 injured, 4 homes destroyed, 2 homes uninhabitable	10 persons sought shelter, 42 retaining walls collapsed, 41 homes damaged and 52 landslides reported. Essential services only on 9th November, public service and businesses closed
	Trough System- November 29th	Heavy rains - Flooding and Landslide	EC\$87.9 million (all trough systems combined in November 2016 - Rapid DALA report)	0	177 persons sought shelter, 15 homes destroyed, 30 damaged	Disruption to water and electricity for several days, mainly on the north windward part of the island, schools closed on 29th and 30th November, Sandy Bay Government School closed for rest of term as building was used as an emergency shelter

Source: National Emergency Management Organization (NEMO)

# BIODIVERSITY



Table 32: St Vincent and the Grenadines' Biodiversity Facts

Species	Number of Species	Comments
Mammals	17	14 species of bats.
Birds	190	Two island endemics, the St. Vincent Parrot ( <i>Amazona guildingii</i> ) and the Whistling Warbler ( <i>Catharopeza bishopi</i> ) and over 14 regional endemics. Two endemic subspecies of <i>Myadestes genibarbis</i> and <i>Troglodytes aedon</i> also exist.
Reptiles	21	Including 5 endemics, - four lizards: <i>Anolis griseus</i> , <i>Anolis trinitatus</i> , <i>Sphaerodactylus kirbyi</i> (endemic to Bequia and Mustique), and <i>Gonatodes daudini</i> (endemic to Union Island) and one snake - the Black Snake ( <i>Chironius vincentii</i> ). There are 4 species of turtles, Hawksbill ( <i>Eretmochelys imbricata</i> ), Green ( <i>Chelonia mydas</i> ), Loggerhead ( <i>Caretta caretta</i> ) and Leatherback ( <i>Dermochelys coraica</i> ). Two of the 21 species are apparently recent invasive species.
Amphibians	4	One endemic, <i>Pristemantis shrevei</i> , and two invasive species.
Plants	1600	1,150 species of flowering plants with 16 endemics. There are 163 species of ferns, 4 are endemic, including the Tree Fern ( <i>Cyathea tenera</i> ) found on the uppermost ridges within cloud and rain forests.
Fresh water	25	Fresh and brackish water species.
Marine	500	This includes 450 species of finfish, 12 species of whales and dolphins, 4 species of turtles, 9 species of gastropods, 11 species of seaweed and 30 species of corals recorded. There is also 1 invasive species of fish, i.e the lionfish ( <i>Pterois volitans</i> , <i>Pterois miles</i> ) and 1 invasive species of seagrass ( <i>Halophila stipulacea</i> ) and the invasive species of brittle star ( <i>Ophiothela mirabilis</i> ).
Other	25	25 species of <b>diplopods</b> (centipedes and millipedes), 220 species of <b>arachnids</b> (not including microscopic mites), 2,000 species of <b>insects</b> , and 35 terrestrial <b>crustaceans</b> have been recorded in the country.
	875	875 species of <b>molluscs</b> (75 terrestrial and aquatic, 800 marine) exists.
	16	16 species of <b>nematodes</b> have been recorded for Union Island alone.

Source: National Parks, Rivers & Beaches Authority