



# ***2020 Compendium of Environmental Statistics***

***Statistical Office  
Economic Planning Division  
Ministry of Finance, Economic Planning & Information  
Technology***

Prepared by



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## PREFACE

The ***COMPENDIUM OF ENVIRONMENT STATISTICS*** is prepared and published by the Statistical Office, Economic Planning Division, Ministry of Finance, Economic Planning and Information Technology.

The Compendium of Environment Statistics aims at the widest possible subject area coverage to be 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.

**Laverne Williams (Mrs.)**

Chief Statistician

The Statistical Office

Economic Planning Division

Ministry of Finance, Economic Planning and Information Technology

ST. Vincent and the Grenadines

## Conversion between Imperial and Metric System

IMPERIAL	METRIC
<b>LENGTH</b>	
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
<b>AREA</b>	
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>
<b>VOLUME</b>	
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
<b>MASS</b>	
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

## Symbols

.	Data not available for any reference period
..	Data not available for specific reference period
...	Not applicable
r	Revised
p	Preliminary
Est.	Estimated
0	True zero or value rounded to 0

## 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.

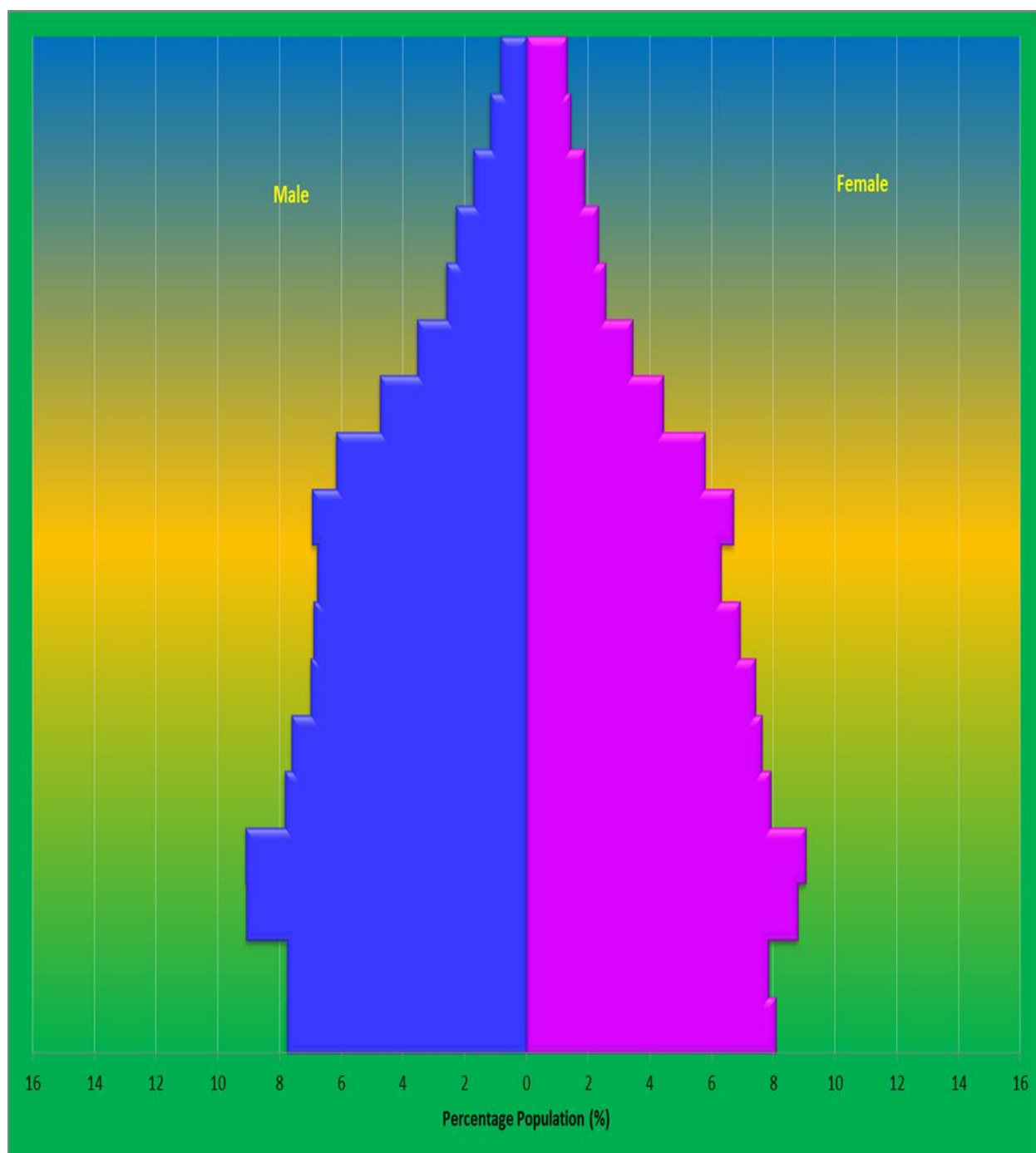
The **average length of stay** for a number of holiday trips is calculated by dividing the total number of nights spent by the total number of tourism trips. Tourism trips are trips taken by visitors.

**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



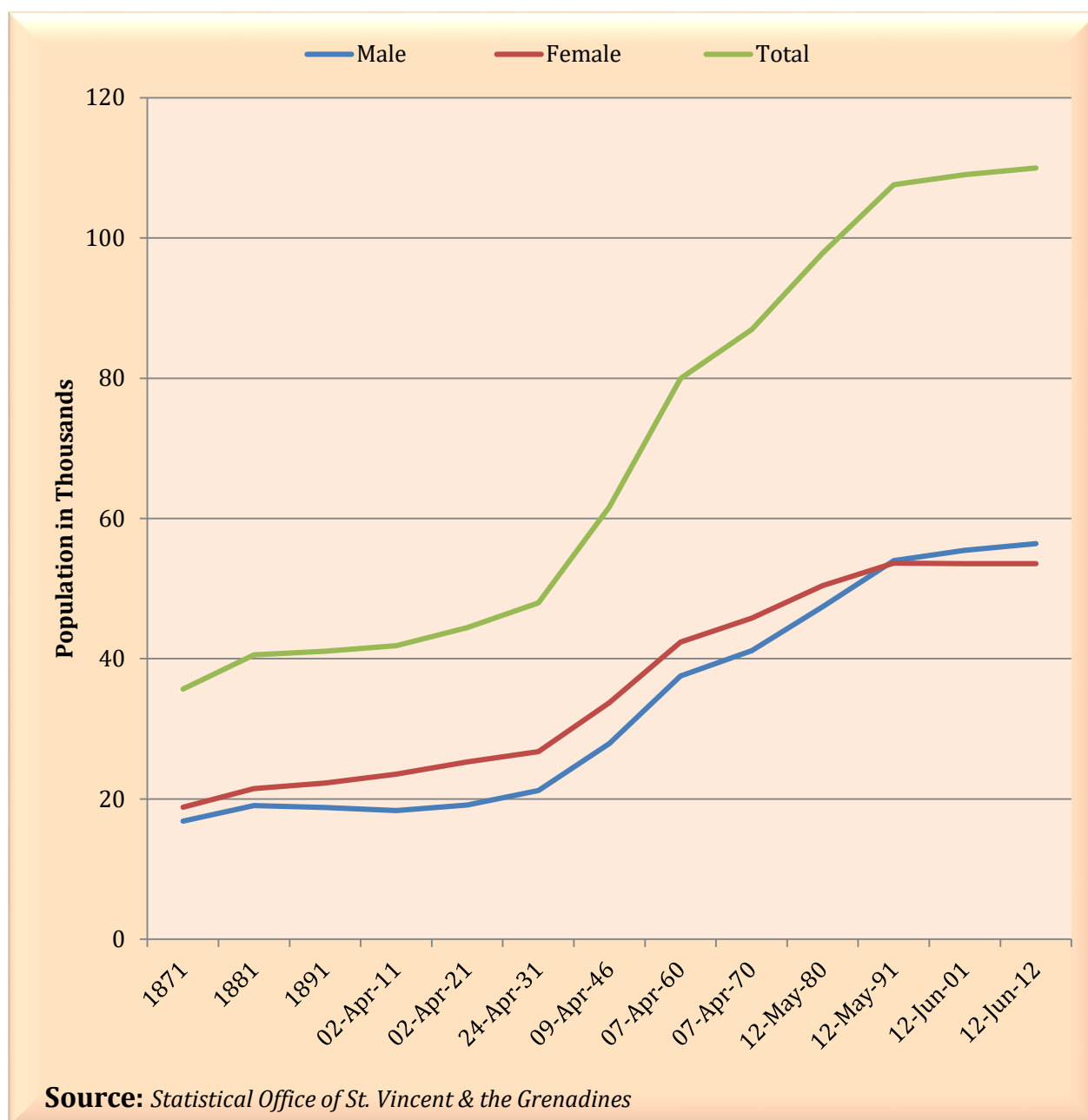
**Table 1: Total Population by Sex, 1871 - 2012**

<b>Date of Census</b>	<b>Male</b>	<b>Female</b>	<b>Total</b>	<b>Avg. Annual Increase</b>
1871	16,865	18,823	<b>35,688</b>	-
1881	19,047	21,501	<b>40,548</b>	486
1891	18,780	22,274	<b>41,054</b>	51
02- Apr -1911	18,345	23,532	<b>41,877</b>	82
02 - Apr -1921	19,155	25,292	<b>44,447</b>	257
24 - Apr - 1931	21,208	26,753	<b>47,961</b>	351
09 - Apr - 1946	27,901	33,746	<b>61,647</b>	912
07 - Apr - 1960	37,561	42,387	<b>79,948</b>	1,307
07 - Apr - 1970	41,150	45,794	<b>86,944</b>	700
12- May - 1980	47,409	50,436	<b>97,845</b>	1,090
12 - May -1991	53,977	53,621	<b>107,598</b>	887
12 - May - 2001	55,456	53,566	<b>109,022</b>	142
12 - May - 2012	56,419	53,572	<b>109,991</b>	88

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

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

**Chart 1: Total Population by Sex, 1871 - 2012**



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

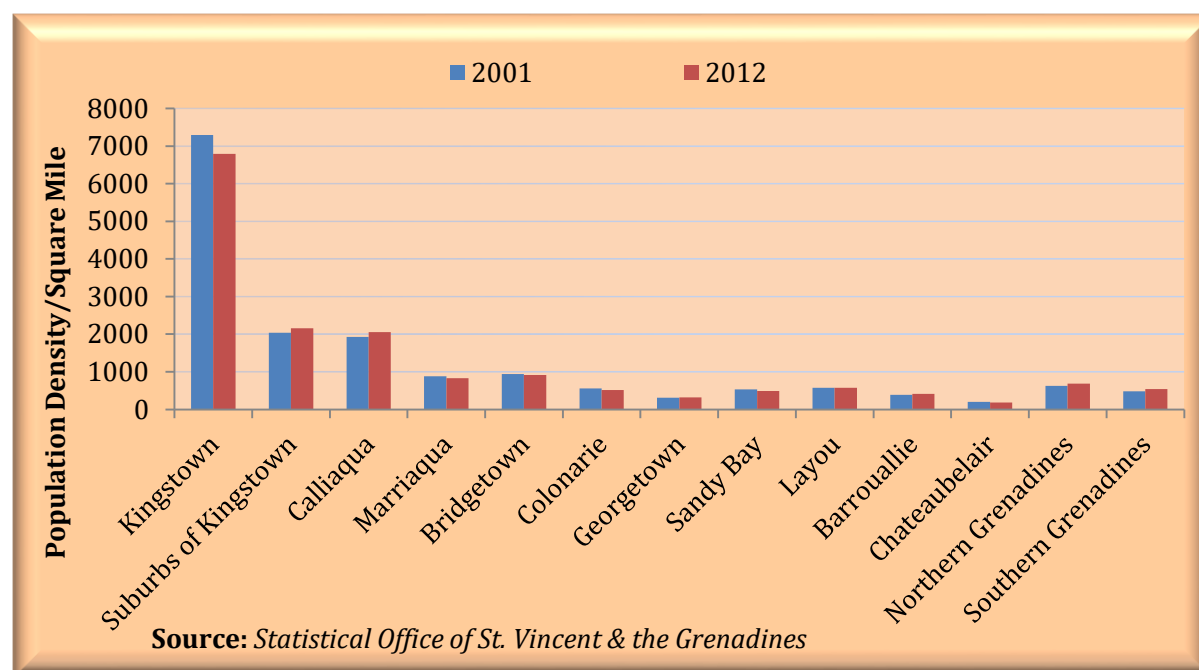
Age Group	1980			1991			2001			2012		
	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
<b>0-4</b>	7,215	7,013	<b>14,228</b>	6,179	5,915	<b>12,094</b>	5201	4916	<b>10,117</b>	4,314	4,331	<b>8,645</b>
<b>5-9</b>	7,475	7,257	<b>14,732</b>	6,931	6,896	<b>13,827</b>	5816	5806	<b>11,622</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>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 and Census Year, 2001 – 2012**

Census Division	Area in Sq. Miles	Total Population		Density( persons/sq. mile)	
		2001	2012	2001	2012
Kingstown	1.9	13,857	12,909	7,293	6,794
Suburbs of Kingstown	6.4	13,027	13,812	2,035	2,158
Calliaqua	11.8	22,706	24,205	1,924	2,051
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	9.0	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**

# CLIMATE & AIR



**Table 4: Temperature and Humidity, 2016 to 2020**

Year	Quarter	TEMPERATURE °C					Mean Relative Humidity (%)
		Mean Temp.	Mean Max.	Mean Min.	Extreme Max.*	Extreme Min.*	
2016	Jan - Mar	26.0	30.5	21.5	31.0	20.2	73
	Apr - Jun	27.4	31.9	22.9	31.9	22.5	76
	Jul - Sept	27.9	32.3	23.5	32.6	24.2	77
	Oct - Dec	27.0	31.5	22.5	32.0	21.8	76
2017	Jan - Mar	..	..	..	..	..	..
	Apr - Jun	27.5	30.0	25.0	32.6	22.1	79
	Jul - Sept	27.9	30.5	25.3	32.2	22.2	82
	Oct - Dec	26.4	29.4	23.5	31.1	20.3	82
2018	Jan - Mar	25.2	28.1	22.2	30.1	17.9	79
	Apr - Jun	26.4	29.1	23.6	30.6	21.1	80
	Jul - Sept	27.3	29.9	24.7	31.4	21.5	81
	Oct - Dec	26.2	29.0	23.5	31.4	20.5	81
2019	Jan - Mar	25.5	28.5	22.6	31.1	20.0	71
	Apr - Jun	26.5	29.5	23.6	32.0	20.9	81
	Jul - Sept	28.0	30.5	25.5	32.2	22.4	83
	Oct - Dec	27.4	29.8	24.9	32.0	19.6	80
2020	Jan - Mar	25.7	30.0	19.4	30.5	18.5	76
	Apr - Jun	27.1	31.7	22.1	32.0	20.9	74
	Jul - Sept	27.4	31.9	21.5	32.5	21.4	83
	Oct - Dec	26.1	30.7	20.8	31.2	20.6	78

**Source:** *The Meteorological Office of St. Vincent & the Grenadines.*

**Table 5: Rainfall Recorded at Selected Weather Stations (mm), 2016 to 2020**

Year	Quarter	Belmont	New Grounds	Belle isle	Dumbarton	Rabacca	Met Office	Richmond	Rivulet
2016	Jan - Mar	143.1	207.0	182.2	224.5	297.7	208.5	237.6	165.2
	Apr - Jun	406.4	244.3	426.4	361.6	368.1	322.5	497.2	251.2
	Jul - Sep	927.5	722.4	852.7	859.2	686.7	692.2	841.9	605.9
	Oct - Dec	..	..	1162.3	1124.5	1065.5	1144.3	1304.9	739.0
	<b>Total</b>	<b>1477.0</b>	<b>1173.7</b>	<b>2623.6</b>	<b>2569.8</b>	<b>2418.0</b>	<b>2367.5</b>	<b>2881.6</b>	<b>1761.3</b>
2017	Jan - Mar	..	..	247.6	455.2	248.9	..	290.9	269.5
	Apr - Jun	..	..	439.1	517.6	347.0	474.8	494.2	428.1
	Jul - Sep	..	..	950.6	739.3	632.0	585.4	1095.8	533.1
	Oct - Dec	..	..	820.7	735.0	402.5	587.2	632.0	376.0
	<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>2458.0</b>	<b>2447.1</b>	<b>1630.4</b>	<b>1647.4</b>	<b>2512.9</b>	<b>1606.7</b>
2018	Jan - Mar	..	..	487.8	472.7	253.9	340.9	459.6	370.6
	Apr - Jun	..	..	319.8	390.4	194.5	217.8	436.0	259.1
	Jul - Sep	..	..	588.4	458.3	361.2	371.6	719.7	392.8
	Oct - Dec	..	..	767.1	801.7	561.0	576.4	687.1	406.4
	<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>2163.1</b>	<b>2123.1</b>	<b>1370.6</b>	<b>1506.7</b>	<b>2302.4</b>	<b>1428.9</b>
2019	Jan - Mar	..	..	242.3	326.1	173.0	205.4	302.0	233.4
	Apr - Jun	..	..	311.1	467.9	351.0	396.0	365.3	368.3
	Jul - Sep	..	..	796.5	534.1	408.0	476.3	718.1	445.0
	Oct - Dec	..	..	533.8	512.7	372.7	405.7	452.6	408.0
	<b>Total</b>	<b>0.0</b>	<b>0.0</b>	<b>1883.7</b>	<b>1840.8</b>	<b>1304.7</b>	<b>1483.4</b>	<b>1838.0</b>	<b>1454.7</b>
2020	Jan - Mar	208.9	223.5	222.8	256.8	205.6	153.3	280.4	186.6
	Apr - Jun	210.7	178.6	251.3	254.8	223.1	206.7	343.7	209.2
	Jul - Sep	612.8	571.6	690.8	650.4	496.8	468.2	684.0	457.1
	Oct - Dec	715.7	937.2	736.2	1035.7	925.1	845.3	946.8	712.6
	<b>Total</b>	<b>1748.1</b>	<b>1910.9</b>	<b>1901.1</b>	<b>2197.7</b>	<b>1850.6</b>	<b>1673.5</b>	<b>2254.9</b>	<b>1565.5</b>

**Source:** *The Meteorological Office and the Ministry of Agriculture, Forestry and Fisheries, Rural Transformation, Industry & Labour*

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

GHG Source	Emissions (Gg)						
	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	NO <sub>x</sub>	CO	NMVOC	SO <sub>2</sub>
<b>Energy</b>							
A. Fuel Combustion	217.4	0	0	1.4	7.9	1.4	0.5
1. Energy Industries	94.1	0	0	0.3	0	0	0.3
2. Manufacturing Industries and Construction	3.2	0	0	0	0	0	0
3. Transport	107.9	0	0	1.1	7.4	1.4	0.2
4. Other Sectors	12.2	0	0	0	0.5	0	0
B. Fugitive Emissions from Fuels	0	0	0	0	0	0	0
1. Solid Fuels	0	0	0	0	0	0	0
2. Oil and Natural Gas	0	0	0	0	0	0	0
<b>Industrial Processes</b>							
A. Mineral Products	0	0	0	0	0	3.7	0
B. Chemical Industry	0	0	0	0	0	0	0
C. Metal Production	0	0	0	0	0	0	0
D. Other Production	0	0	0	0	0	0.2	0
E. Production of Halocarbons & Sulphur Hexafluoride	0	0	0	0	0	0	0
F. Consumption of Halocarbons & Sulphur Hexafluoride	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	1.0

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

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

GHG Source	Emissions (Gg)						
	CO <sub>2</sub>	CH <sub>4</sub>	N <sub>2</sub> O	NO <sub>x</sub>	CO	NMVOC	SO <sub>2</sub>
<b>Agriculture</b>							
A. Enteric Fermentation	0	0.2	0	0	0	0	0
B. Manure Management	0	0	0	0	0	0	0
C. Rice Cultivation	0	0	0	0	0	0	0
D. Agricultural Soils	0	0	0.2	0	0	0	0
E. Prescribed Burning of Savannas	0	0	0	0	0	0	0
F. Field Burning of Agricultural Residues	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
B. Forest and Grassland Conversion	20.9	0	0	0	0	0.2	0
C. Abandonment of Managed Lands	0	0	0	0	0	0	0
D. CO <sub>2</sub> Emissions and Removals	0	0	0	0	0	0	0
<b>Waste</b>							
A. Solid Waste Disposal on Land	0	2.6	0	0	0	0	0
B. Waste Handling	0	0.3	0	0	0	0	0
C. Waste Incineration	0	0	0	0	0	0	0
<b>Other</b>							
A. International Bunkers	0.7	0	0	0	0	0	0
1. Aviation	0.7	0	0	0	0	0	0
2. Marine	0	0	0	0	0	0	0
CO <sub>2</sub> Emissions from Biomass	7.5	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, 2016 to 2020**

Catchment Area	Year				
	2016	2017	2018	2019	2020
Dalaway	750.3	769.6	857.4	891.2	571.2
Fancy	9.7	9.7	9.4	8.4	46.6
Hermitage	237.0	263.7	245.9	220.3	156.7
Jennings	344.6	348.9	337.4	391.9	164.5
Layou	62.3	65.7	66.2	66.2	38.7
Majorca	302.6	255.9	247.6	300.6	258.0
Mamoon	24.1	30.9	34.0	25.2	26.8
Montreal	312.0	345.3	327.8	303.0	205.3
Owia	16.1	16.4	17.2	16.1	12.3
Perseverance	120.6	133.6	135.0	148.3	93.1
Sandy Bay	41.0	44.8	51.8	44.7	29.8
<b>Total</b>	<b>2220.3</b>	<b>2284.5</b>	<b>2329.7</b>	<b>2415.9</b>	<b>1602.9</b>

**Note:** 2020 data is aggregated from April to December

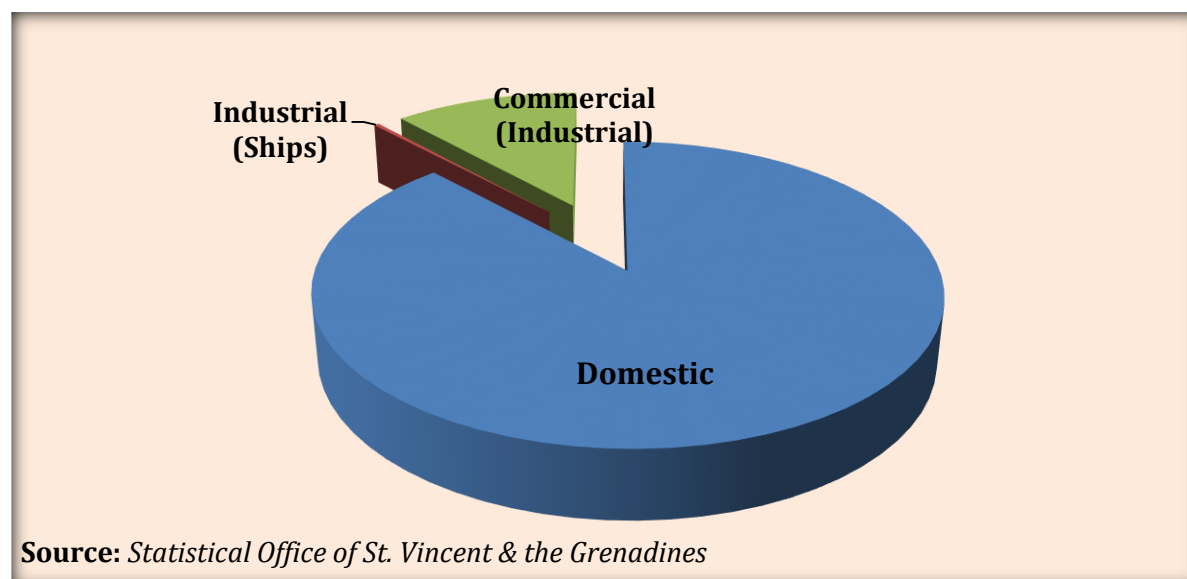
**Source:** Central Water and Sewage Authority (CWSA).

**Table 8: Potable Water Consumption, 2016 to 2020**

Customer Category	Year				
	2016	2017	2018	2019	2020
Domestic	1,091	1,099	1,109	1,130	1,149
Industrial ( Ships)	2	2	4	5	3
Commercial ( Industrial)	169	147	146	144	134
<b>Total</b>	<b>1,262</b>	<b>1,248</b>	<b>1,259</b>	<b>1,279</b>	<b>1,286</b>

\*\* Includes consumption for standpipes

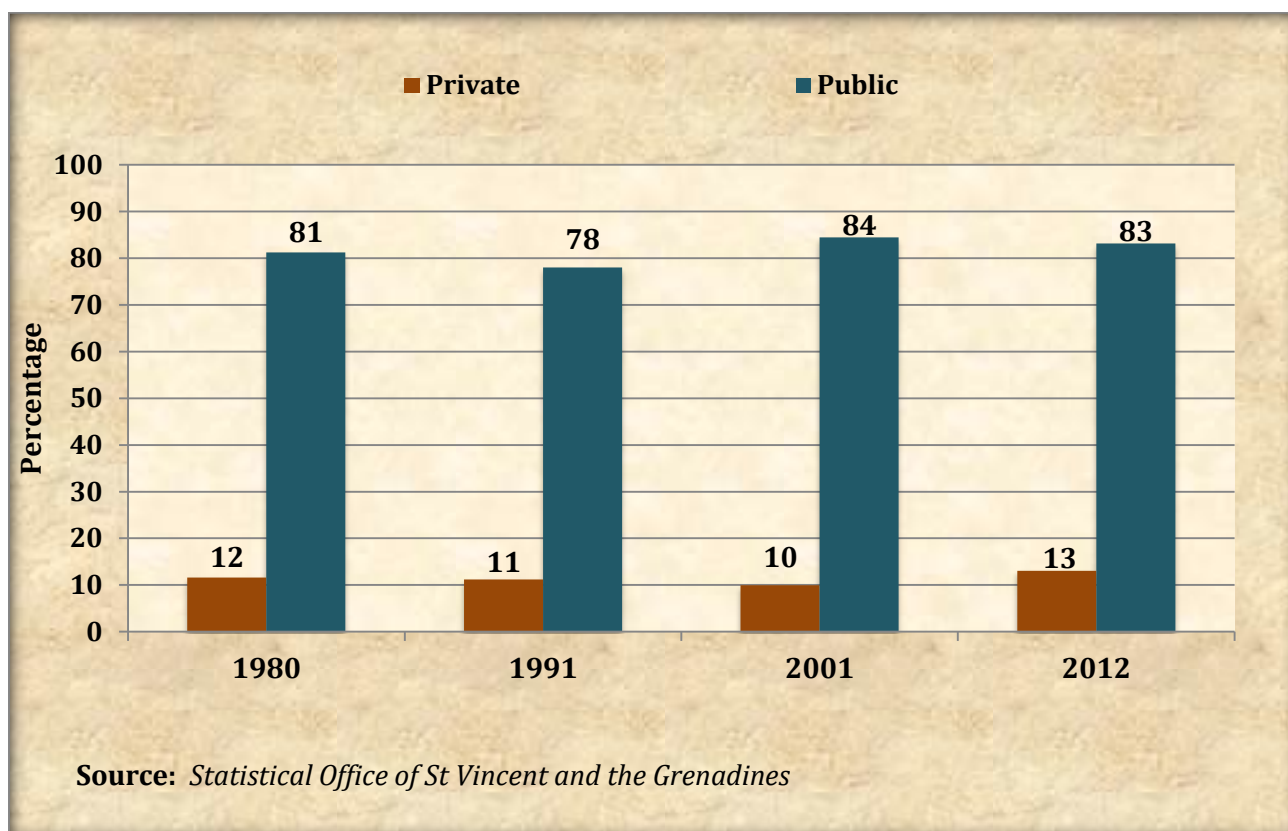
**Source:** Central Water and Sewage Authority (CWSA).

**Chart 3: Potable Water Consumption by Type of Use, 2020****Table 9: Distribution of Households by Source of Water Supply, 1980 - 2012**

Source of Water Supply	Census 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	0	0	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

**Chart 4: Percentage Distribution of Households by Source of Water Supply, 1980 - 2012**



# PROTECTED MARINE & TERRESTRIAL AREAS



**Table 10: Marine Territory**

Marine Statistics	Unit	Size/Area
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>	100.4 <sup>r</sup>
Proportion of Marine area under protection	%	0.36 <sup>r</sup>

**Source:** Ministry of Agriculture, Forestry and Fisheries, Rural Transformation, Industry & Labour

**Table 11: Protected Marine Areas**

Area Name	Area (ha)	Area (Km <sup>2</sup> )	Square Nautical Miles	Status
Bequia Marine Conservation Area	367.5	3.68	1.07	Designated
Isle Quatre Marine Reserve	332.3	3.32	0.97	Designated
Mustique Marine Reserve	652.8	6.52	1.9	Designated
Canouan Marine Reserve	1250.7	12.51	3.65	Designated
Tobago Cays-Mayreau	5468.5	54.7	15.94	Designated
Union-Palm Island Marine Conservation Area	1359.6	13.6	3.96	Designated
Petit St. Vincent Wildlife Reserve	121	1.21	0.35	Designated
South Coast Marine Park ***	272	2.72	0.79	Proposed
Leeward Coast Coastal Marine Park ***	218	2.18	0.64	Proposed
<b>Total Marine Area Designated &amp; Proposed</b>	<b>10042.4</b>	<b>100.44</b>	<b>28.63</b>	<b>Designated and Proposed</b>

\*\*\* Proposed redesignation

**Source:** National Parks, Rivers and Beaches Authority

**Table 12: Protected Terrestrial Areas**

Area Name	Size (ha)	Size (km <sup>2</sup> )	Status
Chateaubelair Islet Marine Park ***	7.0	0.1	Designated
King's Hill Forest Reserve	24.4	0.2	Designated
Mt. Pleasant Forest Reserve ***	1250.8	12.5	Designated
Colonarie Forest Reserve) ***	1700.3	17.0	Designated
Richmond Forest Reserve	1992.1	19.9	Designated
Young Island Wildlife Reserve	5.4	0.1	Designated
Frigate Island	8.2	0.1	Designated
Cumberland Forest Reserve	1075.9	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	1171.2	11.7	Designated
Catholic Island Wildlife Reserve	4.9	0.0	Designated
La Soufriere National Park	5269.7	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
<b>Total Terrestrial Area Designated &amp; Protected by Law</b>	<b>14264.7</b>	<b>142.7</b>	

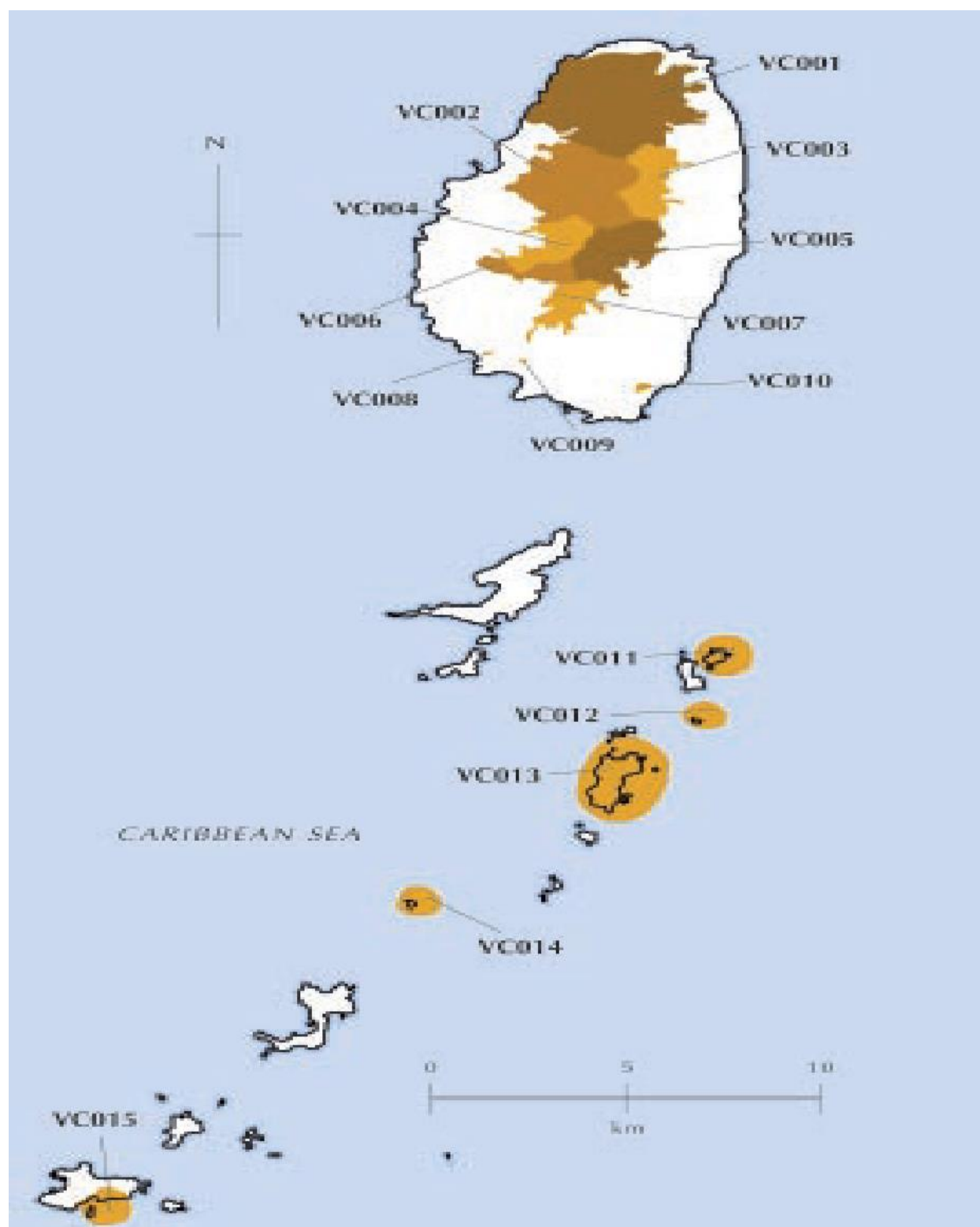
\*\*\* Proposed redesignation

**Source:** *National Parks, Rivers and Beaches Authority*

**Table 13: Important Bird Areas**

Key	Name
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*

**Map 1: Important Bird Area**

# Agriculture & Land Use



**Table 14: Selection of Commodities Produced by Weight, 2016 to 2020**

<b>Agricultural Crops</b>	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>
	<b>Quantity (000'Kg)</b>	<b>Quantity (000'Kg)</b>	<b>Quantity (000'Kg)</b>	<b>Quantity (000'Kg)</b>	<b>Quantity (000'Kg)</b>
Arrowroot Rhizomes	582	490	496	616	671
Bananas	2,342	0	0	5,343	3,443
Dasheen	6,532	5,420	5,732	5,241	4,325
Eddoes	1,954	1,898	1,910	3,743	3,533
Ginger	2,453	2,195	1,862	2,338	2,231
Mace	61	61	61	0	0
Nutmegs	205	212	219	219	156
Peanuts/Groundnuts	289	275	204	273	233
Plantains	3,870	4,450	4,910	5,166	4,532
Sweet Potatoes	2,354	2,105	2,167	2,499	2,219
Tannias	319	247	249	547	745
Yams (other)	880	901	904	866	601
Yams (Portuguese)	711	828	836	630	662
Yams (White)	693	730	754	546	639
Yams (Yellow)	81	83	84	82	78
<b>Total</b>	<b>23,326</b>	<b>19,895</b>	<b>20,388</b>	<b>28,110</b>	<b>24,068</b>

**Source:** Ministry of Agriculture, Forestry and Fisheries, Rural Transformation, Industry & Labour

**Table 15: Estimated Livestock and Livestock Production, 2016 to 2020**

Period	(Lbs.)				
	PORK	BEEF	MEAT OF GOAT	MUTTON	POULTRY
<b>2016</b>	365,000	442,000	66,000	182,000	480,000
<b>2017</b>	360,000	445,000	64,000	185,000	440,000
<b>2018</b>	354,000	456,000	68,000	184,000	452,000
<b>2019</b>	390,000	409,000	70,000	184,000	457,670
<b>2020</b>	364,000	450,000	69,840	171,000	391,950

**Source:** Ministry of Agriculture, Forestry and Fisheries, Rural Transformation, Industry & Labour

**Table 16: Animals Slaughtered, 2016 to 2020**

Year	Porcine (Pig)	Bovine (Cattle)	Caprine (Goat)	Ovine (Sheep)	Poultry	Total
2016	1,149	920	535	846	18,770	<b>22,220</b>
2017	842	923	604	589	19,855	<b>22,813</b>
2018	809	962	644	650	27,981	<b>31,046</b>
2019	1072	901	708	638	9039	<b>12,358</b>
2020	1100	728	384	480	5095	<b>7,787</b>
<b>Total</b>	<b>4,972</b>	<b>4,434</b>	<b>2,875</b>	<b>3,203</b>	<b>80,740</b>	<b>96,224</b>

**Source:** Ministry of Agriculture, Forestry and Fisheries, Rural Transformation, Industry & Labour

**Table 17: Forest Classification**

<b>Forest Location</b>	<b>Land Cover Class</b>	<b>Area (ha)</b>	<b>Total Forest Percent</b>	<b>% by Land Cover Class</b>
<b>Outside Protected Areas</b>	Cloud Forests	184	0.6	4
	Forests Cloud Elfin	23	0.1	8
	Forests Cloud Transitional	341	1.1	16
	Forest Cloud Deciduous	4458	15.1	83
	Forests Evergreen & Seasonal	8078	26.7	76
	Forest Plantation	12	0.04	11
	Forest Semi Deciduous	2691	8.9	96
	Mangrove	13	0.04	32
<b>Inside Designated Protected Areas</b>	Cloud Forests	1783	5.9	43
	Forests Cloud Elfin	275	0.9	89
	Forests Cloud Transitional	863	2.9	41
	Forest Cloud Deciduous	403	1.3	7
	Forests Evergreen & Seasonal	4749	15.7	45
	Forest Plantation	8	0.03	7
	Forest Semi Deciduous	63	0.2	2
	Mangrove	2	0.01	5
<b>Inside Proposed Protected Areas</b>	Cloud Forests	2153	7.1	52
	Forests Cloud Elfin	11	0.04	3
	Forests Cloud Transitional	879	2.9	42
	Forest Cloud Deciduous	511	1.7	9
	Forests Evergreen & Seasonal	2523	8.3	24
	Forest Plantation	89	0.3	82
	Forest Semi Deciduous	35	0.1	1
	Mangrove	24	0.1	62

**Source:** Ministry of Agriculture, Forestry and Fisheries, Rural Transformation, Industry & Labour

**Table 18: Imported Pesticides by Type and Weight (Kilogram), 2016 to 2020**

Pesticides	Year					Total
	2016	2017	2018	2019	2020	
Insecticides for use in agriculture as approved by the Competent Authority	143,874	128,621	101,554	14,113	45,357	<b>433,520</b>
Mosquito coils.	1,438	26,174	1,799	26,137	6,733	<b>62,280</b>
Other insecticides, put up in forms or package for retail sale or as prep	150,150	119,823	123,933	120,779	141,571	<b>656,257</b>
Other insecticides, not elsewhere specified or included.	6,195	3,802	4,813	1,408	2,815	<b>19,032</b>
Fungicides, other than those specified in subheading	6,091	5,493	4,654	7,167	47,210	<b>70,615</b>
Herbicides, other than those specified in subheading	38,313	64,640	56,635	47,713	44,867	<b>252,167</b>
Anti-sprouting products, other than those specified in subheading	62	20	20	0	577	<b>680</b>
<b>Total</b>	<b>346,122</b>	<b>348,574</b>	<b>293,407</b>	<b>217,317</b>	<b>289,130</b>	<b>1,494,551</b>

**Source:** *Statistical office of St. Vincent and the Grenadines*

**Table 18** *Cont'd* : **Imported Pesticides by Type and Weight (Kilogram), 2016 to 2020**

Pesticides	Year					Total
	2016	2017	2018	2019	2020	
Plant growth regulators, other than those specified in subheading	8,589	13,630	2,462	2,600	1,290	<b>28,569</b>
Disinfectants, put up in forms or package for retail sale or as preparation	42,142	59,862	47,491	67,788	113,534	<b>330,817</b>
Other disinfectants, not elsewhere specified or included.	5,102	5,933	8,046	1,014	7,382	<b>27,476</b>
Rodenticides, put up in forms or package for retail sale or as preparation	5,900	3,829	2,575	1,881	3,649	<b>17,834</b>
Other rodenticides, not elsewhere specified or included.	173	1,010	58	205	41	<b>1,486</b>
Products similar to insecticides, rodenticides, fungicides, herbicides	2,622	2,563	1,986	4,622	3,189	<b>14,982</b>
Insecticides, rodenticides, fungicides, herbicides, anti-sprouting product	0	5	127	0	23	<b>155</b>
Other products similar to insecticides, rodenticides, fungicides, herbicides	906	1,116	593	1,883	3,907	<b>8,404</b>
<b>Total</b>	<b>65,434</b>	<b>87,948</b>	<b>63,337</b>	<b>79,992</b>	<b>133,014</b>	<b>429,724</b>

**Source:** *Statistical office of St. Vincent and the Grenadines*

**Table 19: Imported Fertilizers by Type and Weight (Kilogram), 2016 to 2020**

Fertilizers	Year					Total
	2016	2017	2018	2019	2020	
Ammonium nitrate, whether or not in aqueous solution	0	0	0	10,800	22,055	<b>32,855</b>
Double salts and mixtures of ammonium sulphate and ammonium nitrate.	2	0	0	62	233	<b>297</b>
Ammonium sulphate.	0	0	0	2,000	100	<b>2,100</b>
Double salts and mixtures of calcium nitrate and ammonium nitrate.	0	0	0	0	0	<b>0</b>
Urea, whether or not in aqueous solution.	1,435	248	436	180	301	<b>2,599</b>
Mixtures of ammonium nitrate with calcium carbonate or other inorganic non	0	0	0	0	0	<b>0</b>
Other ammonium-based fertilizers.	0	250	0	0	0	<b>250</b>
Other mineral or chemical fertilizers, nitrogenous, including mixtures not	661,890	12,962	5,385	321	116	<b>680,675</b>
Superphosphates.	0	25	0	0	0	<b>25</b>
<b>Total</b>	<b>663,327</b>	<b>13,485</b>	<b>5,821</b>	<b>13,363</b>	<b>22,804</b>	<b>718,800</b>

**Source:** *Statistical office of St. Vincent and the Grenadines*

**Table 19** *Cont'd*: **Imported Fertilizers by Type and Weight (Kilogram), 2016 to 2020**

<b>Fertilizers</b>	<b>Year</b>					<b>Total</b>
	<b>2016</b>	<b>2017</b>	<b>2018</b>	<b>2019</b>	<b>2020</b>	
Mineral or chemical fertilizers, phosphatic, other than superphosphates.	14	0	310	28	252	<b>604</b>
Potassium chloride.	0	633	11	1	7	<b>653</b>
Mineral or chemical fertilizers, potassic, other than potassium chloride or	0	230	294	100	30	<b>654</b>
Mineral or chemical fertilizers containing the three fertilizing elements	1,396,638	1,437,789	1,705,246	1,149,194	1,398,781	<b>7,087,649</b>
Mineral or chemical fertilizers containing the two fertilizing elements phosphate	2	1	3,498	39,187	655	<b>43,343</b>
Other mineral or chemical fertilizers containing nitrates and phosphates.	0	0	1,935	28	1,302	<b>3,265</b>
Other mineral or chemical fertilizers containing the two fertilizing element	21	0	0	0	0	<b>21</b>
Ammonium-based fertilizers, in tablets or similar forms or in packages of	613	157	260	346	681	<b>2,056</b>
Goods other than ammonium-based	1,222	161,451	1,558	1,267	160,852	<b>326,350</b>
Other mineral or chemical fertilizers containing two or three of the fertilizers	12,231	8,866	12,193	19,840	38,307	<b>91,437</b>
<b>Total</b>	<b>1,410,742</b>	<b>1,609,127</b>	<b>1,725,304</b>	<b>1,209,991</b>	<b>1,600,868</b>	<b>7,556,032</b>

**Source:** *Statistical office of St. Vincent and the Grenadines*

# FISHING



**Table 20: Registered Fishing Vessels and Fishermen, 2016 to 2020**

<b>Year</b>	<b>Number of Vessels Registered</b>	<b>Vessels Cumulative Totals</b>	<b>Number of Fishers Registered</b>	<b>Fishers Cumulative Totals</b>
2000	40	541	37	0
2001	23	564	23	60
2002	38	602	31	91
2003	19	621	23	114
2004	8	629	134	248
2005	6	635	129	377
2006	32	667	127	504
2007	16	683	28	532
2008	20	703	34	566
2009	18	721	34	600
2010	16	737	19	619
2011	7	744	14	633
2012	8	752	17	650
2013	54	806	43	693
2014	21	827	46	739
2015	12	839	42	781
2016	22	861	42	823
2017	13	874	42	865
2018	38	912	81	946
2019	33	945	95	1041
2020	61	1006	214	1255

**Source:** Ministry of Agriculture, Forestry and Fisheries, Rural Transformation, Industry & Labour

**Table 21: Fish Landed by Type and Quantity (Pounds), 2016 to 2020**

Type	Quantity (Lbs)				
	2016	2017	2018	2019	2020 <sup>P</sup>
Conch	91,388	470,056	684,060	911,670	917,849
Lobster	68,774	119,334	139,043	158,241	158,470
Whale	19040	17,270	8,210	41,900	56,120
Shark	13,154	14,892	13,073	20,916	40,413
Balahoo	203,746	68,270	107,394	116,282	105,222
Bonito	11,488	10,780	33,987	20,550	14,218
Cavalli	49,892	52,786	56,530	63,108	62,627
Dolphin	207,602	98,001	172,110	198,777	257,175
Jacks	119,252	245,130	431,688	261,499	664,512
Kingfish	36,829	19,907	35,017	34,194	47,028
Porpoise	7940	5,557	21,405	4,530	3,325
Red Hind	38,960	67,846	35,019	48,223	55,762
Red Snapper	7,262	16,184	27,819	47,973	35,657
Robin	142,423	76,516	132,853	97,934	177,556
Skip Jack	123,295	70,675	53,713	74,996	64,252
Other Species	432,392	411,535	531,556	442,684	588,449
<b>Total</b>	<b>1,573,437</b>	<b>1,764,739</b>	<b>2,483,477</b>	<b>2,543,477</b>	<b>3,248,634</b>

**Source:** Ministry of Agriculture, Forestry and Fisheries, Rural Transformation, Industry & Labour

# ENERGY AND FUEL

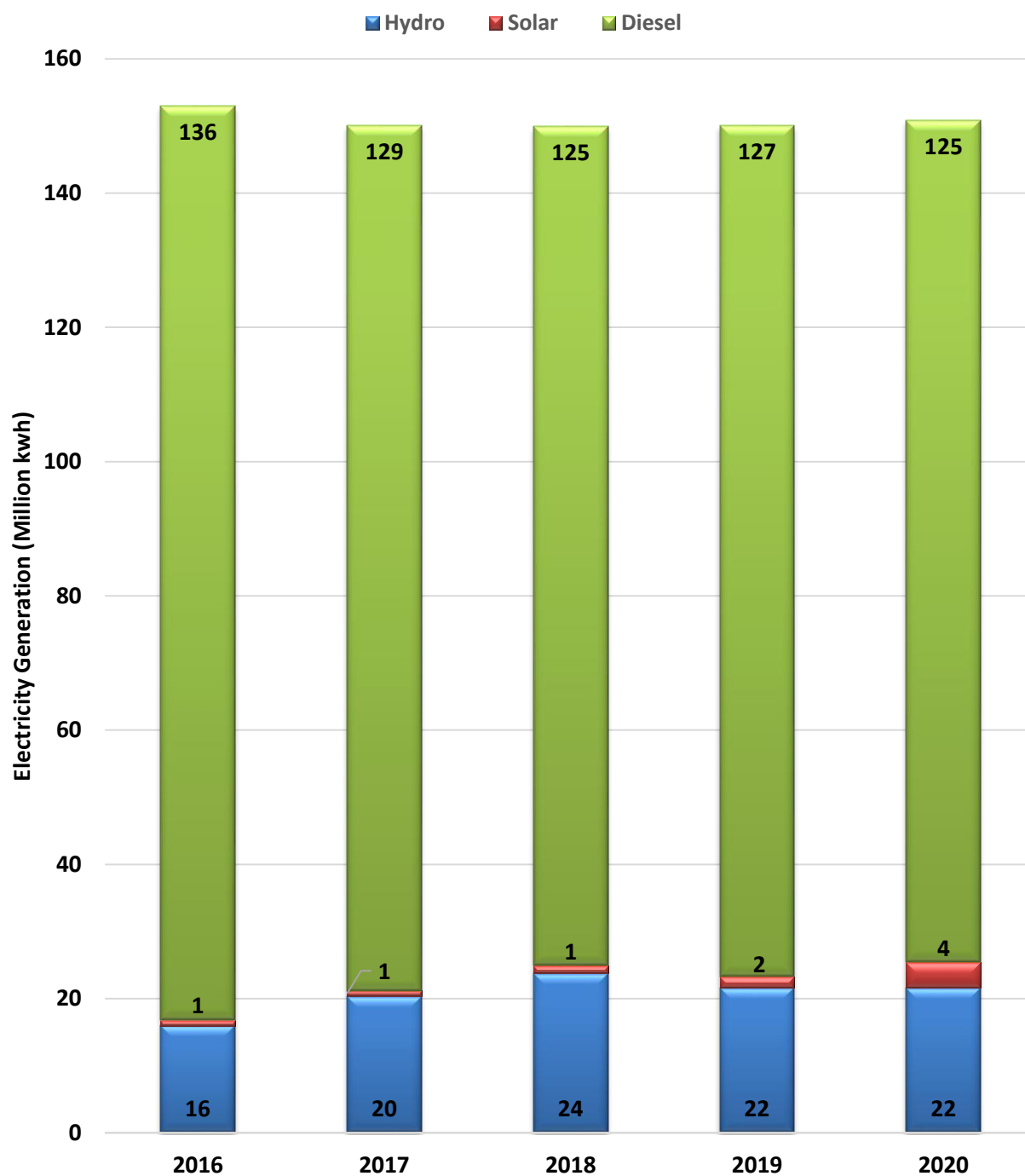


**Table 22: Electricity Generation, Sales and Consumers, 2016 to 2020**

Description	2016	2017	2018	2019	2020
<b>GENERATION (KWH)</b>					
Hydro	15,932,020	20,327,820	23,770,249	21,617,946	21,602,782
Solar	809,941	816,242	1,149,929	1,662,172	3,805,087
Diesel	136,231,070	128,932,862	125,009,805	126,795,526	125,392,904
<b>Total</b>	<b>152,973,031</b>	<b>150,076,924</b>	<b>149,929,983</b>	<b>150,075,644</b>	<b>150,800,773</b>
Fuel used in Generation (gals.)	7,676,956	7,283,767	6,990,787	7,353,699	7,319,991
<b>DISTRIBUTION/SALES (KWH)</b>					
Domestics	63,526,269	68,289,120	68,039,019	69,824,084	45,627,855
Commercial	53,969,022	47,575,547	47,028,246	47,416,394	72,463,987
Industry	1,394,177	7,277,376	6,832,585	7,075,702	6,835,626
Street Lighting	3,182,880	3,098,274	3,003,348	2,786,108	2,937,230
Public Authorities	10,121,137	9,805,186	10,214,654	11,157,793	11,023,270
Other Company Needs	4,728,124	4,719,720	4,545,838	4,748,592	4,904,267
Loss in Transmission	10,557,348	10,043,395	11,005,081	10,069,971	11,053,441
<b>CONSUMERS AT YEAR END</b>					
Domestic	39,031	39,569	40,402	41,145	41,870
Commercial	4,508	4,536	4,619	4,671	4,814
Industrial	23	23	24	24	23
Street Lighting	47	46	46	46	46

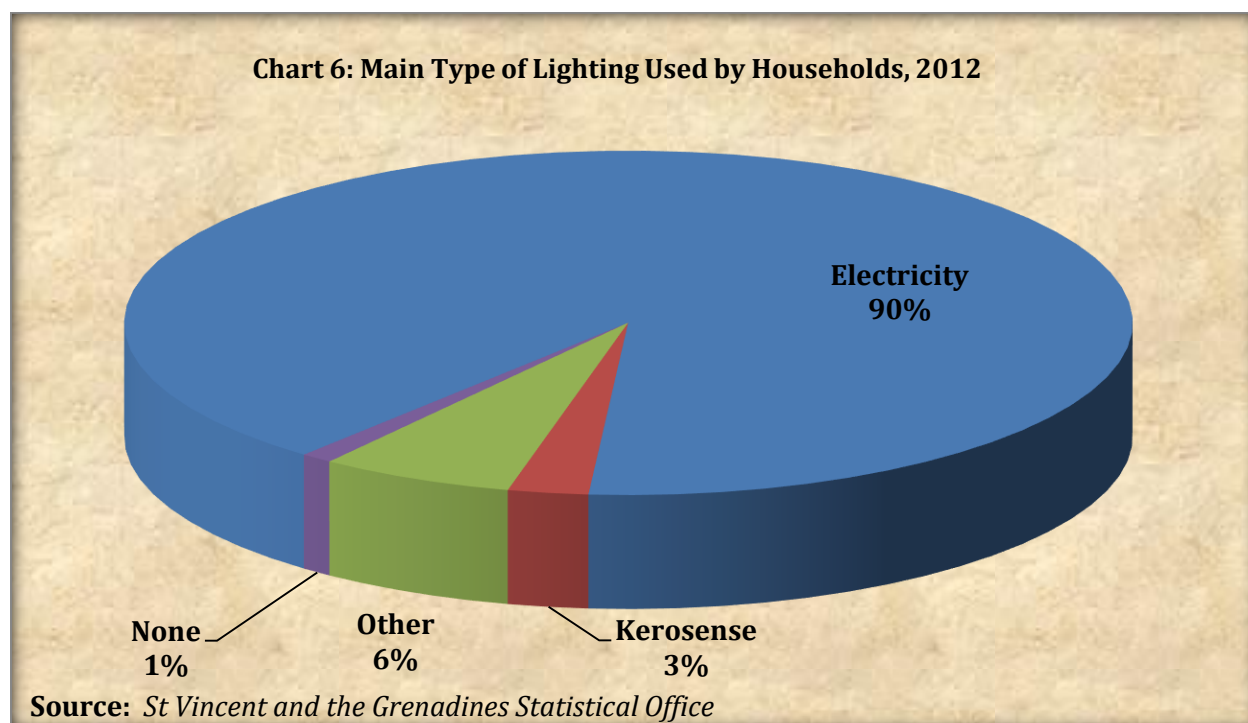
**Source:** St Vincent Electricity Services (VINLEC)

**Chart 5: Electricity Generation, 2016 to 2020**

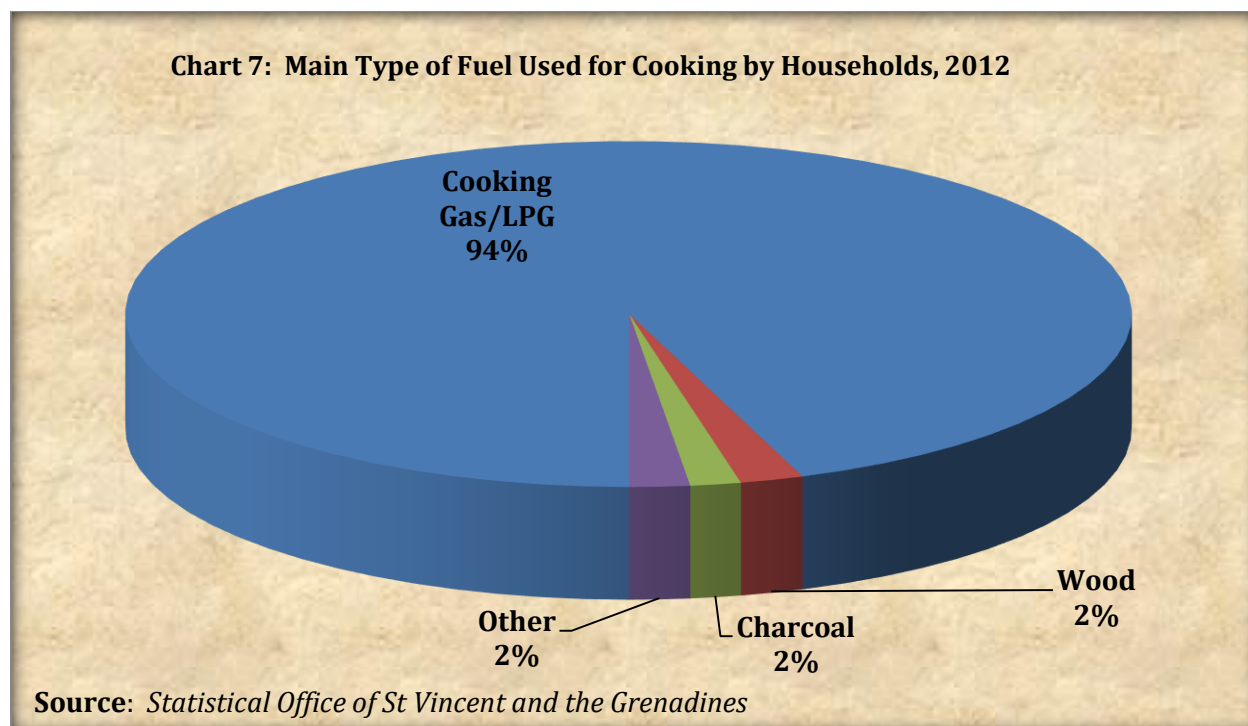


**Source:** Statistical office of st. Vincent and the Grenadines

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



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



**Table 23: Fossil Fuel Imported by Year, Type and Volume, 2016 to 2020****(m<sup>3</sup>)**

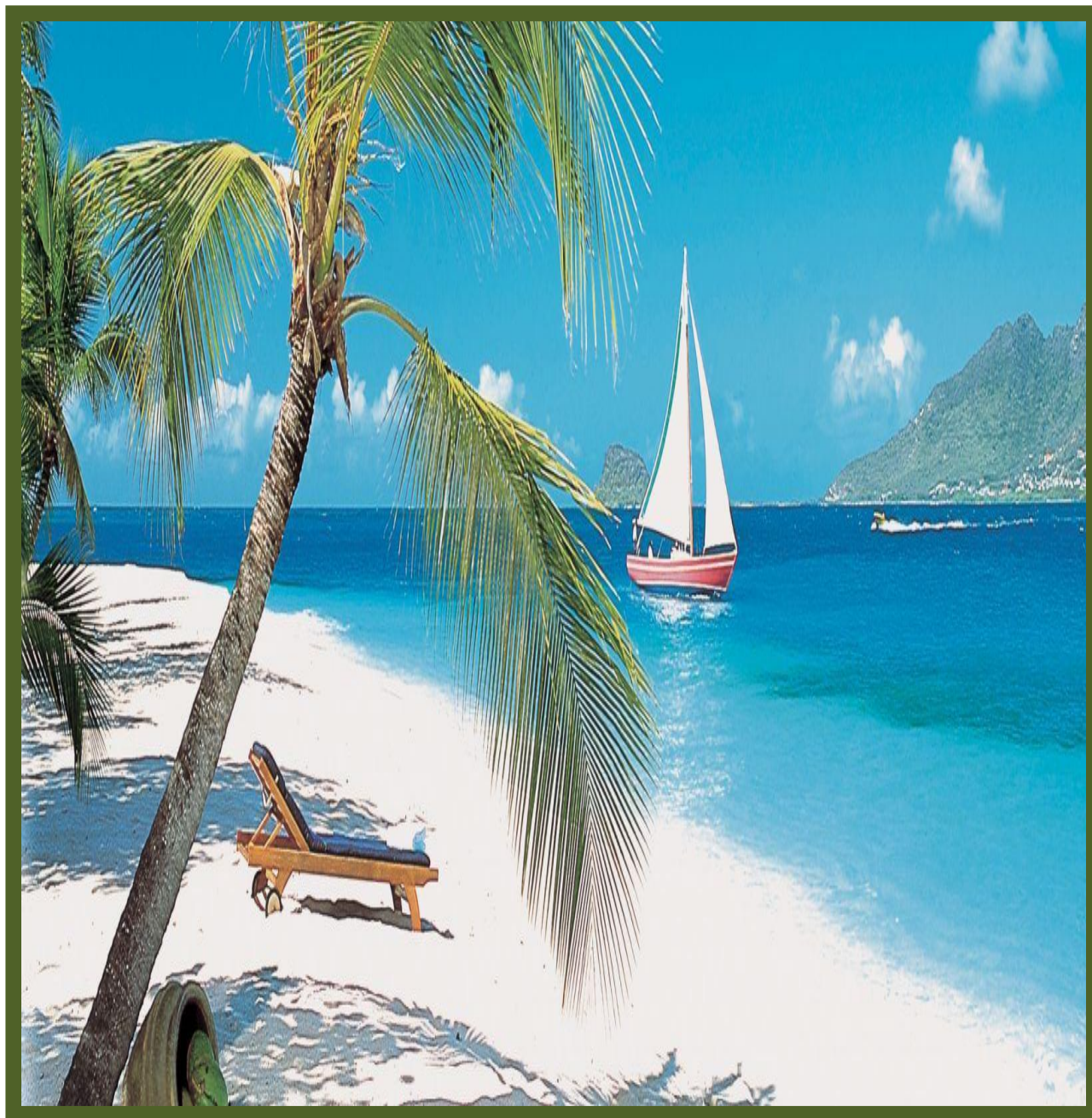
Year	Fossil Fuels				
	Gasoline	Diesel	Kerosene	LPG	Total
2016	26,346.51	48,292.87	56.19	4,693.14	79,388.71
2017	25,985.42	24,981.33	34.98	4,042.26	55,043.99
2018	29,835.88	45,772.43	11.63	4,434.81	80,054.76
2019	26,510.13	29,911.81	8.74	4,376.60	60,807.27
2020	30,812.14	30,260.99	11.50	5,653.90	66,738.53
<b>Total</b>	<b>139,490.08</b>	<b>179,219.42</b>	<b>123.04</b>	<b>23,200.71</b>	<b>342,033.25</b>

**Source:** *St Vincent and the Grenadines Statistical Office***Table 24: Lubricants Imported by Type and Volume, 2016 to 2020**

Lubricants	Litres (L)					Total
	2016	2017	2018	2019	2020	
Lubricating Oils	595,481.1	639,814.4	1,007,406.9	498,942.9	837,460.7	3,579,106
Lubricating Greases	10,593.3	11,546.1	9,894.8	12,426.1	34,824.7	79,285
<b>Total</b>	<b>606,074.4</b>	<b>651,360.4</b>	<b>1,017,301.8</b>	<b>511,369.0</b>	<b>872,285.4</b>	<b>3,658,391</b>

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

# TOURISM



**Table 25: Average Length of Stay in Days by Major Market, 2016 to 2020**

Major Market	Year				
	2016	2017	2018	2019 <sup>P</sup>	2020 <sup>P</sup>
USA	14.6	15.8	13.9	13.9	18.5
Canada	19.1	19.4	17.5	17.3	32.4
Europe	13.4	15.1	14.2	13.6	22.4
Caribbean	9.2	10.0	9.4	9.1	26.9
South America	10.8	12.2	9.5	11.7	14.3
Other/Not Stated	22.6	22.3	27.4	23.1	33.5

**Note:** Tourism data for 2019 aggregated from January to November and 2020 aggregate from February to December

**Source:** St Vincent and the Grenadines Tourism Authority

**Table 26: Selected Visitor Statistics, 2016 to 2020**

	2016	2017	2018	2019 <sup>P</sup>	2020 <sup>P</sup>
Cruise Ship Passengers	99,542	174,236	217,876	191,789	101,579
Yacht Passengers	47,525	51,351	56,826	53,581	26,031
Stay Over Visitors	78,751	75,972	80,080	72,983	19,162
Same Day Visitors	1,362	1,485	1,287	1,211	188
<b>Total Tourist Arrivals</b>	<b>227,180</b>	<b>303,557</b>	<b>356,069</b>	<b>319,564</b>	<b>146,960</b>
Average Length of stay	13.0	14.0	13.2	13.0	22.3
Cruise Ship calls	259	280	261	210	92

**Note:** Tourism data for 2019 aggregated from January to November and 2020 aggregate from February to December

**Source:** St Vincent and the Grenadines Tourism Authority

**Table 27: Stay Over Visitors by Type of Accommodation, 2018 to 2020**

Year	Hotels	Apartments	Guest Houses	Resorts & Villas	Private Homes	Other/Not Stated	Total
2018	11,279	1,616	738	11,040	51,043	4,364	80,080
2019 <sup>P</sup>	13,337	1,616	883	11,177	42,550	3,420	72,983
2020 <sup>P</sup>	3,793	1,822	215	4,991	7,020	1,321	19,162

**Note:** Tourism data for 2019 aggregated from January to November and 2020 aggregate from February to December

**Source:** St Vincent and the Grenadines Tourism Authority

**Table 28: Stay-Over Visitors by Country of Residence, 2016 to 2020**

<b>Countries</b>	<b>Jan - Dec 2016</b>	<b>Jan - Dec 2017</b>	<b>Jan - Dec 2018</b>	<b>Jan - Nov 2019</b>	<b>Feb - Dec 2020</b>
United States of America	22,848	23,551	26,351	25,071	7,118
Canada	8,010	8,698	9,822	8,659	2,797
Antigua & Barbuda	884	794	817	841	157
Barbados	6,233	6,797	6,659	5,135	942
Grenada	1,017	1,016	1,040	1,099	207
St. Lucia	2,001	2,012	1,984	1,703	283
Trinidad & Tobago	9,500	8,666	8,397	7,594	755
French Caribbean	379	228	216	196	31
Dutch Caribbean	313	320	272	271	34
Other Caribbean	4,037	5,092	4,422	4,033	661
United Kingdom	16,696	12,067	12,959	11,475	4,050
France	814	879	896	824	282
Germany	752	646	725	587	197
Italy	584	651	655	539	202
Sweden	502	440	361	325	80
Switzerland	399	421	429	378	130
Belgium	111	94	111	98	36
Spain	171	225	149	156	43
Ireland	154	160	180	150	39
Holland	76	86	84	137	34
Norway	150	96	104	87	30
Other European	981	1,177	1,195	1,238	367
South America	884	1,036	784	870	236
Other Countries	1,255	1,333	1,468	1,517	451
<b>Total</b>	<b>78,751</b>	<b>76,485</b>	<b>80,080</b>	<b>72,983</b>	<b>19,162</b>

**Note:** Tourism data for 2019 aggregated from January to November and 2020 aggregate from February to December

**Source:** St Vincent and the Grenadines Tourism Authority

**Table 29: Stay-Over Visitors by Place of Stay and Month, 2020**

Month	Hotels	Apartments	Guest Houses	Resorts & Villas	Private Homes	Other/Not Stated	Total
January	..	..	..	..	..	..	..
February	1,857	1020	33	1,273	2,430	665	7,278
March	904	373	64	982	1,429	191	3,943
April	0	0	0	4	2	0	6
May	0	0	0	13	38	11	62
June	2	0	0	23	20	7	52
July	29	36	1	252	366	22	706
August	72	89	3	405	484	52	1,105
September	100	73	4	125	281	27	610
October	151	34	9	226	509	45	974
November	96	51	8	473	559	22	1,209
December	582	146	93	1,215	902	279	3,217
<b>Total</b>	<b>3,793</b>	<b>1,822</b>	<b>215</b>	<b>4,991</b>	<b>7,020</b>	<b>1,321</b>	<b>19,162</b>

**Note:** Tourism data for 2020 aggregate from February to December

**Source:** St Vincent and the Grenadines Tourism Authority

# WASTE



**Table 30: Waste Disposed by Type of Waste, 2016 to 2020**

Type of Waste						(m <sup>3</sup> )
	Year					
	2016	2017	2018	2019	2020	Total
Green Waste	30,920	52,383	39,656	34,886	34,662	<b>192,507</b>
Commercial Waste	52,813	57,505	58,595	64,060	62,765	<b>295,738</b>
Household & Institutional Waste	51,970	52,182	50,497	53,444	52,955	<b>261,048</b>
Construction & Demolition Waste	9,862	10,790	10,323	9,360	12,580	<b>52,915</b>
<b>Total</b>	<b>145,565</b>	<b>172,860</b>	<b>159,071</b>	<b>161,750</b>	<b>162,962</b>	<b>802,208</b>

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

**Table 31: Waste by Type of Disposal, 2016 to 2020**

Disposal Type						(m <sup>3</sup> )
	Year					
	2016	2017	2018	2019	2020	Total
Landfill	160,477.0	200,248.0	183,315.0	189,631.0	199,635.0	<b>933,306.0</b>
Composting	36.0	34.0	37.0	34.0	52.0	<b>193.0</b>
<b>Total</b>	<b>160,513.0</b>	<b>200,282.0</b>	<b>183,352.0</b>	<b>189,665.0</b>	<b>199,687.0</b>	<b>933,499.0</b>

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

**Table 32: Waste Exported from St Vincent and the Grenadines for Recycling, 2016 to 2020**

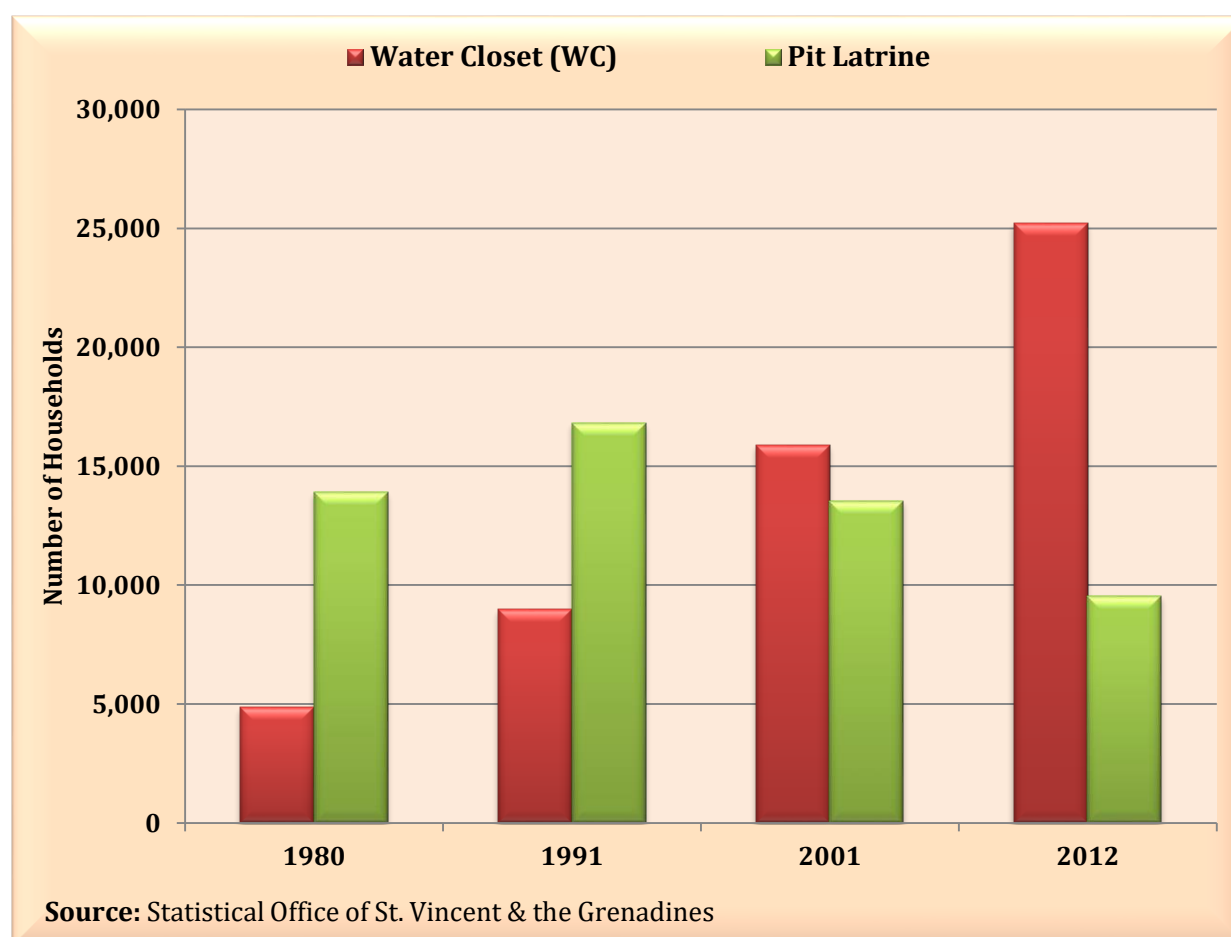
Waste	(Kg)				
	Year				
	2016 <sup>r</sup>	2017	2018	2019	2020
Waste, paring and scrap of Polymers of Vinyl Chloride	0	0	0	0	0
Waste, paring and scrap of Polymers of Ethylene	0	0	0	0	0
Waste, paring and scrap of Plastics other than polymers of Ethylene, etc.	0	294,000	206,500	132,854	174,015
Other paper or paperboard made mainly of bleached chemical pulp, etc.	0	0	0	0	0
Other recovered paper or paperboard, including unsorted waste and scrap	0	128,080	9,000	0	203,760
Waste and Scrap of Caste Iron	909	0	0	150,000	125,000
Waste and scrap of Stainless Steel	909	2,015	3,015	1,364	3,364
Waste and scrap of Alloy Steel, other than that of Stainless Steel	0	63,069	647,004	371,904	36,196
Waste and scrap of tinned Iron or Steel	0	3,791	30,000	0	0
Other Ferrous waste and scrap, not elsewhere specified or included	0	0	1,833	0	0
Copper waste and scrap	39,682	83,653	65,466	83,046	79,635
Aluminium waste and scrap	40,657	143,730	85,878	96,451	199,822
Lead waste and scrap	0	3,898	0	1,768	0
Zinc waste and scrap	2,545	0	0	0	0
Waste and scrap of Magnesium	0	0	0	0	0
<b>Total</b>	<b>84,702</b>	<b>722,236</b>	<b>1,048,696</b>	<b>837,388</b>	<b>821,792</b>

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

**Table 33: Number of Households by Type of Toilet Facilities, 1980 to 2012**

Toilet 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*

**Chart 8: Number of Households by Type of Toilet Facility, 1980 - 2012**

**Table 34: White Goods collected by year and Landfill in cubic meters (m<sup>3</sup>), 2016 to 2020**

Year	Landfill		Total
	Diamond	Belle Isle	
2016	1,509	106	<b>1,615</b>
2017	1,611	142	<b>1,753</b>
2018	1,818	172	<b>1,990</b>
2019	1,946	188	<b>2,134</b>
2020	3,251	534	<b>3,785</b>
<b>Total</b>	<b>10,135</b>	<b>1,142</b>	<b>11,277</b>

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

**Table 35: Waste Characterization Study**

Material Type	Year					
	2013	2014	2017	2018	2019	2020
Paper and Paper Board	47.31	19.11	20.01	..	18.49	..
Glass	3.07	4.32	3.86	..	4.50	..
Metal	3.42	6.28	4.28	..	5.19	..
Plastic	10.7	29.95	23.48	..	23.80	..
Organics	20.0	29.10	33.45	..	30.75	..
Textiles	4.84	7.41	9.06	..	8.86	..
Construction and Demolition	3.23	2.94	0.73	..	1.07	..
Special Care Waste	0.42	0.70	0.58	..	1.24	..
Other Waste	7.01	0.19	4.55	..	6.10	..

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

# NATURAL HAZARDS & DISASTERS



Table 36: Natural Disasters, 2016 to 2020

Year	Natural Disaster	Frequency & 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

<b>2017</b>	..	..	..	..	..	..
<b>2018</b>	..	..	..	..	..	..
<b>2019</b>	..	..	..	..	..	..
<b>2020</b>	..	..	..	..	..	..

**Source:** *National Emergency Management Organization (NEMO)*

# BIODIVERSITY



Table 37: St Vincent and the Grenadines' Biodiversity Facts

Species	Number of Species	Comments
<b>Mammals</b>	17	14 species of bats.
<b>Birds</b>	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.
<b>Reptiles</b>	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.
<b>Amphibians</b>	4	One endemic, <i>Pristemantis shrevei</i> , and two invasive species.
<b>Plants</b>	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.
<b>Fresh water</b>	25	Fresh and brackish water species.
<b>Marine</b>	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> .
	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.
<b>Other</b>	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

**Table 38: St Vincent and the Grenadines' Red List Index of Threatened Species**

Species	Name of Species	Comments
Chironius Vincenti	St. Vincent Black Snake	Critically endangered
Amazona Guildingii	St. Vincent Amazon (Parrot)	Vulnerable
Tangara Versicolor	St. Vincent Tanager	Stable
Gonatodes Daudini	Union Island Gecko	Critically endangered
Oligoryzomys Victoris	St. Vincent Pygmy Tice Rat	Extinct

**Source:** <https://www.iucnredlist.org/search?query=St.%20Vincent&searchType=species> &  
<https://www.iucnredlist.org/species/194258/71748321>

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