

## St. Vincent & the Grenadines 2014 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 Website: stats.gov.vc

Facebook: <a href="https://www.facebook.com/SVG.Statistics/">https://www.facebook.com/SVG.Statistics/</a>

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### **TABLE OF CONTENTS**

	PREFACE		4
(	CONCEPTS AND	<b>DEFINITIONS</b>	6
P0	PULATION		7
	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
CLI	MATE & AIR		11
	Table 4:	Temperature and Humidity, 2010 to 2014	12
	Table 5:	Rainfall Recorded at Selected Agricultural Stations, 2010 to 2014(mm)	13
	Table 6a:	Summary of Green House Gas Emissions, 2004	14
	Table 6b:	Summary of Green House Gas Emissions, 2004 cont'd.	15
WA	TER RESOURCE	· · · · · · · · · · · · · · · · · · ·	16
	Table 7:	Water Abstraction by Catchment Area, 2010 to 2014, ('000 000 gal.)	17
	Table 8:	Water Abstraction, 2010 to 2014, ('000 000 gal.)	17
	Table 9:	Potable Water Consumption, 2010 to 2014	18
	Table 10:	Distribution of Households by Source of Water Supply, 1980 – 2012	19
PR	OTECTED MARI	NE & TERRESTRIAL AREAS	20
	Table 11:	Marine Statistics for St Vincent and the Grenadines	21
	Table 12:	Protected Marine Areas in St Vincent and the Grenadines	21
	Table 13:	Protected Terrestrial Areas in St Vincent and the Grenadines	22
	Map 1: II	mportant Bird Area in St Vincent and the Grenadines	23
	Table 14:	Important Bird Areas in St Vincent and the Grenadines	24
Agi	riculture & Lai	nd Use	25
	Table 15:	Selection of Commodities Produced by Weight, 2010 to 2014	26
	Table 16:	Forest Classification	27
FIS	HING		28
	Table 18:	Registered Fishing Vessels and Fishermen, 1995 to 2014	29
	Table 19:	Fish Landed by Type, 2010 to 2014	30

<b>ENERG</b>	Y AND FUE		31
Т	able 20:	Electricity Generation, Sales and Consumers, 2010 to 2014	32
Т	able 21:	Fuel Imported by Type, Weight and Value, 2010 to 2014	35
TOURIS	SM		36
Т	able 22:	Number of Visitors and Average Length of Stay, 2010 to 2014	37
Т	able 23:	Selected Visitor Statistics, 2010 to 2014	37
Т	able 24:	Stay-Over Visitors by Type of Accommodation, 2010 to 2014	37
Т	able 25:	Stay-Over Visitors by Country of Residence, 2010 to 2014	38
Т	able 26:	Stay-Over Visitors by Place of Stay and Month, 2010 to 2014	39
WASTE			40
Т	able 27:	Waste Disposed by Type of Waste, 2010 to 2014	41
Т	able 28:	Waste by Type of Disposal, 2010 to 2014	41
Т	able 29:	Waste Exported from St Vincent and the Grenadines for Recycling, 2010 to 2014 $\dots$	42
Т	able 30:	Number of Households by Type of Sanitation Facilities, 1980 to 2012	43
NATUR	AL DISAST	ERS	44
Т	able 31:	Natural Disasters, 2010 to 2014	45
Т	able 31 c	ont'd.: Natural Disasters, 2010 to 2014	46
BIODIV	ERSITY		47
Т	able 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 (in²)	6.4516 cm <sup>2</sup>
1 sq foot (ft²) / 144 in²	$0.0929 \text{ m}^2$
1 sq yard (yd²) / 9 ft²	$0.8361 \text{ m}^2$
1 acre / 4840 yd <sup>2</sup>	4046.9 m <sup>2</sup>
1 sq mile (mile 2) / 640 acres	2.59 km <sup>2</sup>
1 hectare (ha)	0.01 km <sup>2</sup>
VOLUME	
1 cubic inch (in³)	$16.387 \text{ cm}^3$
1 cubic foot (ft³) / 1,728 in³	$0.0283 \text{ m}^3$
1 fluid once (fl oz)	28.413 ml
1 pint (pt) / 20 fl oz	0.5683 1
1 gallon (gal)	4.5461 1
MASS	
1 once (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.

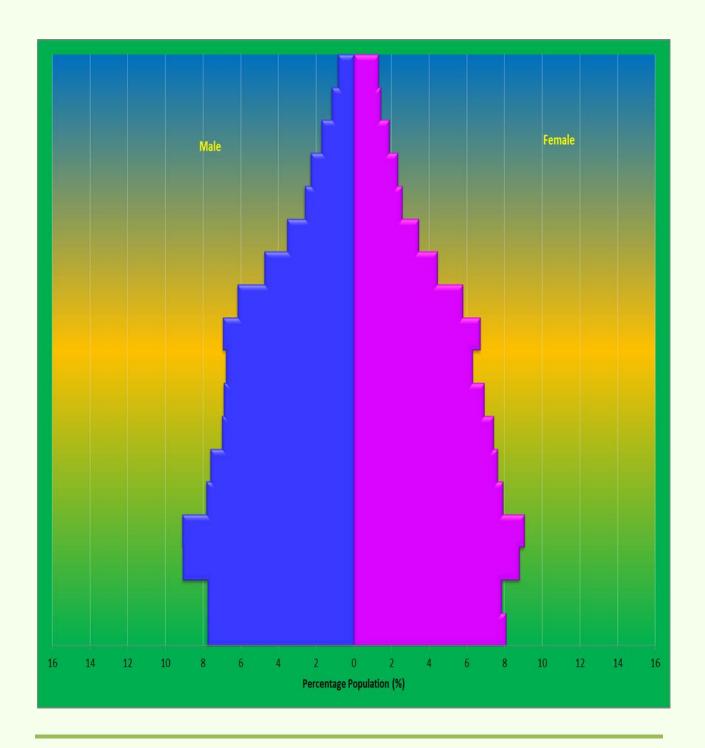
The **average length of stay** for a number of holiday trips is calculated by dividing the total number of nights spent by the total number of tourism trips. Tourism trips are trips taken by visitors.

**Tourists arrival** includes all stay-over (or overnight) visitors. It does not include sameday 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 r 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**



Compendium of Environmental Statistics

Table 1: Total Population by Sex, 1871 - 2012

Date of Census	<u>Male</u>	<u>Female</u>	<u>Total</u>	Avg. Annual Increase
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.

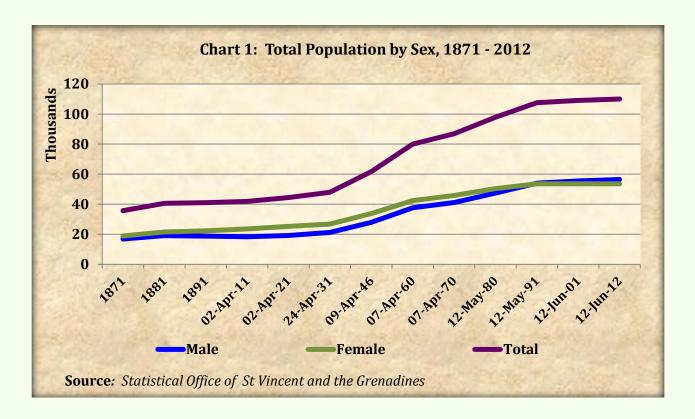


Table 2: Household Population by Age Group, Sex and Census Years, 1980 – 2012

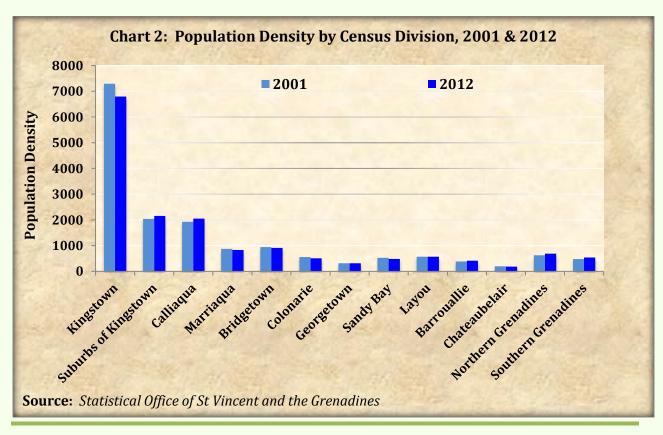
		1980			1991			2001			2012	
Age Group	Male	<u>Female</u>	<u>Total</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>	<u>Male</u>	<u>Female</u>	<u>Total</u>
0-4	7,215	7,013	14,228	6,179	5,915	12,094	5201	4916	10,117	4,314	4,331	8,645
5-9	7,475	7,257	14,732	6,931	6,896	13,827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

Source: Statistical Office, of St Vincent and the Grenadines

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

	Area in Sq.	Total Po	Total Population		sons/sq. mile)
Census Division	Miles	<u>2001</u>	<u>2012</u>	<u>2001</u>	<u>2012</u>
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
Total (Mainland)	133.8	99,786	99,757	<b>74</b> 6	<b>74</b> 6
Northern Grenadines	9	5,647	6,184	627	687
Southern Grenadines	7.5	3,589	4,050	479	540
Total (Grenadines)	16.5	9,236	10,234	560	620
TOTAL	150.3	109,022	109,991	725	732

Source: Statistical Office of St Vincent and the Grenadines



Compendium of Environmental Statistics

## CLIMATE & AIR



Table 4: Temperature and Humidity, 2010 to 2014

			Mean				
<u>Year</u>	Quarter	Mean Temp.	Mean Max.	Mean Min.	Extreme Max.	Extreme Min.	Relative Humidity (%)
	Jan - Mar	27.9	32.0	23.7	32.1	23.1	73
2010	Apr - Jun	28.1	32.3	23.8	32.6	23.6	77
2010	Jul - Sept	28.1	32.7	23.6	32.9	23.3	82
	Oct - Dec	27.5	32.1	22.9	32.7	22.5	78
	Jan - Mar	26.0	30.5	21.4	30.7	20.6	72
2011	Apr - Jun	27.5	31.9	23.1	32.3	21.8	<i>7</i> 5
2011	Jul - Sept	27.9	32.6	23.2	32.9	22.5	77
	Oct - Dec	27.1	31.9	22.3	32.4	21.0	74
	Jan - Mar	25.7	30.1	21.2	30.2	21.0	73
2012	Apr - Jun	27.1	31.1	23.1	31.5	22.8	77
2012	Jul - Sept	27.9	32.5	23.3	33.2	22.8	<i>7</i> 5
	Oct - Dec	27.3	32.3	22.3	33.0	21.0	76
	Jan - Mar	26.3	30.8	21.9	31.3	21.7	74.0
2013	Apr - Jun	27.2	31.2	23.1	31.3	22.6	76.0
2013	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
	Jan - Mar	25.9	29.9	21.8	31.1	21.4	74.0
2014	Apr - Jun	27.2	31.5	22.8	32.2	22.4	74.0
2014	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

Source: The Meteorological Office.

Table 5: Rainfall Recorded at Selected Agricultural Stations, 2010 to 2014(mm)

	Quarter			Location of	Agricultura	al Station		
Year		Belmont	New Grounds	Dumbarton	Rabacca	Met Office	Richmond	Rivule t
	Jan - Mar	109.5	147.4	116.2	48.4	133.1	*115.7	99.6
	Apr - Jun	503.2	601.3	856.3	444.7	750.8	969.7	506.7
2010	Jul - Sep	744.7	646.5	1,260.0	508.0	979.0	1,186.9	895.7
	Oct - Dec	625.1	971.1	1,889.4	359.4	1,167.4	1,126.9	958.6
	Total	1,982.5	2,366.3	4,121.8	1,360.5	3,030.3	3,283.5	2,460.6
	Jan - Mar	341.6	425.1	606.8	442.3	510.4	741.1	479.8
	Apr - Jun	342.4	732.0	1,252.9	900.5	644.9	794.2	916.6
2011	Jul - Sep	1,064.3	782.9	1,058.8	822.7	976.7	1,250.2	807.9
	Oct - Dec	605.1	618.9	1,041.9	878.6	747.0	1,001.6	521.7
	Total	2,353.4	2,558.9	3,960.4	3,044.1	2,879.0	3,787.1	2,726.0
	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
2012	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
	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
2013	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
	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
2014	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

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

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

CHC Source				Emissions	(Gg)		
GHG Source	<u>CO</u> <sub>2</sub>	<u>CH</u> <sub>4</sub>	<u>N<sub>2</sub>O</u>	<u>NO</u> <sub>x</sub>	<u>CO</u>	<u>NMVOC</u>	<u>SO</u> <sub>2</sub>
Energy							
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
Industrial Processes							
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
Solvent and Other Product Use							
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.

GHG Source			E	missions (G	g)		
GHG 30tite	$\underline{CO_2}$	<u>CH</u> <sub>4</sub>	$N_2O$	$\underline{NO}_{\underline{x}}$	<u>CO</u>	<u>NMVOC</u>	$\underline{SO}_2$
Agriculture							
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
Land Use Change & Forestry							
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
Waste							
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
Other							
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, 2010 to 2014, ('000 000 gal.)

Water Creaters			Year		
Water System	2010	2011	2012	2013	2014
Dalaway	736.1	685.0	750.4	678.7	454.2
Fancy	8.8	6.4	9.6	9.0	6.7
Hermitage	174.7	193.3	208.9	198.0	163.0
Jennings	230.0	240.0	245.4	271.6	214.4
Layou	68.4	46.9	50.3	47.3	36.0
Majorca	295.6	253.2	277.7	218.5	205.1
Mamoon	0.0	12.0	24.0	18.0	24.0
Montreal	295.9	277.3	274.1	283.5	189.4
Owia	14.7	12.6	13.1	15.0	13.1
Perseverance	121.2	85.1	83.9	83.4	70.1
Sandy Bay	45.0	37.9	36.0	34.5	30.7
TOTAL	1,990.6	1,849.8	1,973.4	1,857.7	1,406.7

Source: Central Water and Sewage Authority (CWSA).

Table 8: Water Abstraction, 2010 to 2014, ('000 000 gal.)

David d			Ye	ear		
<u>Period</u>	2010	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	<u>Total</u>
Jan-Mar	493.4	447.1	473.2	483.6	484.0	2,381.3
Apr-Jun	545.8	455.4	484.3	496.0	425.4	2,406.9
Jul-Sep	449.8	468.4	501.0	496.6	474.4	2,390.2
Oct-Dec	501.6	479.0	514.8	492.1	514.5	2,502.0
Total	1,990.6	1,849.8	1,973.4	1,968.3	1,898.3	9,680.4

Source: Central Water and Sewage Authority (CWSA).

Table 9: Potable Water Consumption, 2010 to 2014

Catagory	Year					
<u>Category</u>	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>	
DOMESTIC						
Consumption - Mil. gals	1,050	1,025	1,029	1,003	1,037	
INDUSTRIAL(Ships)						
Consumption - Mil. gals	6	6	5	3	3	
COMMERCIAL(Industrial)						
Consumption - Mil. gals	136	142	141	114	143	
GOVERNMENT**						
Consumption - Mil. gals	172	na	na	na	na	

<sup>\*\*</sup> Includes consumption for standpipes

Source: Central Water and Sewage Authority (CWSA).

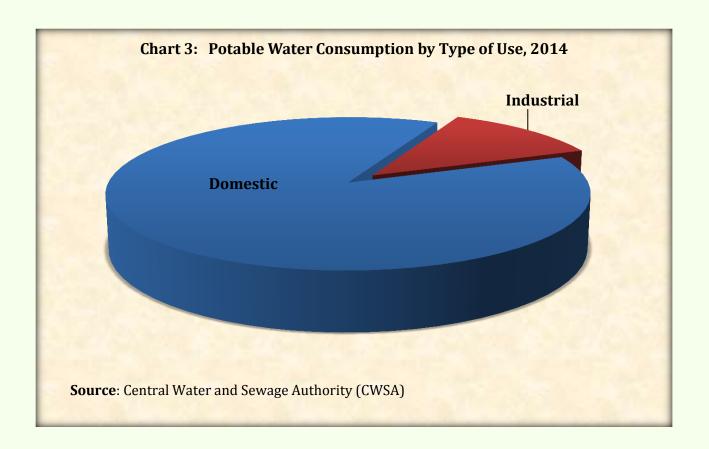
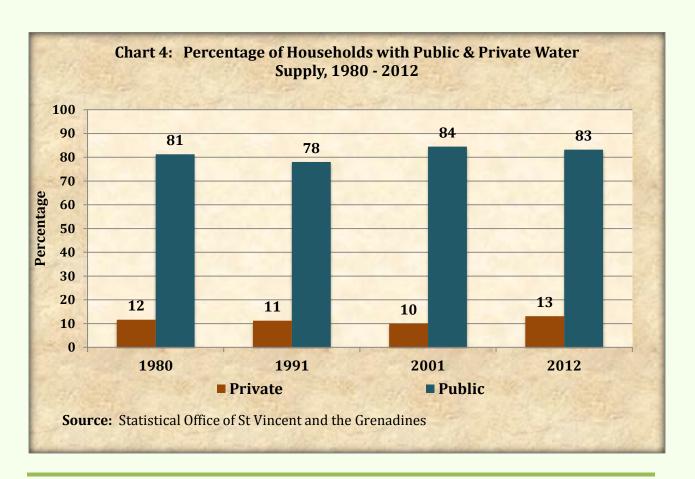


Table 10: Distribution of Households by Source of Water Supply, 1980 - 2012

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

Source: Statistical Office of St Vincent and the Grenadines



## PROTECTED MARINE & TERRESTRIAL AREAS



 Table 11:
 Marine Statistics for St Vincent and the Grenadines

Marine Statistics	<u>Unit</u>	Size/Area
Marine Area (Exclusive Economic Zone)	Km <sup>2</sup>	27,533
Shelf Area	Km²	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 in St Vincent and the Grenadines

Area Name	Area (ha)	Area (Km²)	<u>Square</u> <u>Nautical</u> <u>Miles</u>	<u>Status</u>
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
Total Marine Area Designated & Protected	9552.4	95.6	27.46	

Source: National Parks, Rivers and Beaches Authority

Table 13: Protected Terrestrial Areas in St Vincent and the Grenadines

Area Name	Size (ha)	Size (km²)	<u>Status</u>
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	7,971.50	79.72	

Source: National Parks, Rivers and Beaches Authority

VC001 WC002 VC003 VC004 VC005 VC006 VC007 VC010 VC008 VIC009 VC012 VC013 CARIBBEAN SEA VC014

Map 1: Important Bird Area in St Vincent and the Grenadines

Compendium of Environmental Statistics

 Table 14:
 Important Bird Areas in St Vincent and the Grenadines

<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



Compendium of Environmental Statistics

Table 15: Selection of Commodities Produced by Weight, 2010 to 2014

Quantity (000'Kg)

	2010	2011	2012	2013	2014
Agricultural Crops	Quantity (000'Kg)	Quantity (000'Kg)	Quantity (000'Kg)	Quantity (000'Kg)	Quantity (000'Kg)
Arrowroot Rhizomes	220	200	196	137	228
Bananas	10,002	1,747	1,843	2,103	1,546
Dasheen	3,719	4,974	5,034	5,305	5,186
Eddoes	1,455	1,553	1,751	1,808	1,547
Ginger	1,070	1,346	2,075	2,322	2,415
Mace	61	61	61	61	61
Nutmegs	286	245	251	254	189
Peanuts/Groundnuts	254	210	208	239	237
Plantains	2,622	1,719	2,155	2,350	3,149
Sweet Potatoes	2,540	2,712	3,012	2,821	3,114
Tannias	217	254	270	309	304
Yams (other)	322	1,082	1,241	1265	1,296
Yams (Portuguese)	617	662	608	789	842
Yams (White)	1,016	390	515	564	680
Yams (Yellow)	65	67	65	69	66
TOTAL	24,466	17,222	19,287	20,396	20,860

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
	Cloud Forests	184	0.6	4
	Forest Cloud Elfin	23	0.1	8
	Forest Cloud Transitional	341	1.1	16
Outside Protected Areas	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
	Cloud Forests	1,783	5.9	43
	Forest Cloud Elfin	275	0.9	89
	Forest Cloud Transitional	863	2.9	41
Inside Proposed Protected	Forest Cloud Deciduous	403	1.3	7
Areas	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
	Cloud Forests	2,153	7.1	52
	Forest Cloud Elfin	11	0.04	3
	Forest Cloud Transitional	879	2.9	42
Inside designated	Forest Cloud Deciduous	511	1.7	9
Protected Areas	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 2014

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

Source: Ministry of Agriculture, Forestry and Fisheries

Table 19: Fish Landed by Type, 2010 to 2014

	2010		20	11	20	12	20	13	20	)14
ТҮРЕ	Qty (lbs)	Value (\$EC)								
Conch	55,901	475,494	21,391	176,316	23,128	185,101	104,127	762,059	116,556	780,174
Lobster	15,656	246,024	1,579	27,558	29,399	403,006	89,867	1,167,783	111,579	1,507,496
Turtle	644	3,275	0	0	222	1,552	0	0	0	0
Whale	0	0	440	1,760	950	3,425	200	1,200	10	1,000
Shark	15,769	88,511	9,449	57,163	13,597	76,528	25,910	156,115	18,479	115,687
Balahoo	93,931	184,803	73,936	142,803	85,840	168,830	168,988	326,231	86,475	172,500
Bonito	12,270	88,776	37,571	274,144	25,460	182,552	24,682	185,366	27,095	198,461
Cavalli	25,857	198,284	16,832	121,535	35,312	249,854	25,882	190,963	35,294	257,377
Dolphin	134,068	1,072,745	176,421	1,486,735	191,248	1,707,601	189,868	1,698,957	120,413	1,079,049
Jacks	197,032	649,772	273,584	884,689	146,153	484,319	146,907	564,084	190,040	741,145
Kingfish	80,221	642,214	60,069	498,767	61,896	541,424	60,774	536,282	45,472	403,442
Porpoise	880	4,740	650	2,600	680	2,940	470	1,880	570	2,450
Red Hind	96,982	735,066	52,038	421,109	46,314	396,969	89,627	793,016	94,935	815,317
Red Snapper	18,055	78,312	19,193	156,753	14,295	113,654	11,883	87,600	14,394	101,300
Robin	360,458	1,122,021	324,822	1,040,756	199,774	769,469	296,817	1,272,679	334,107	1,392,595
Skip Jack	53,949	352,046	90,772	628,208	61,980	440,270	78,185	552,127	86,931	667,564
Other Species	229,339	1,481,418	213,858	1,409,757	211,129	1,220,446	260,717	1,970,519	330,370	1,966,532
TOTAL	1,391,012	7,423,501	1,372,605	7,330,653	1,147,377	6,947,940	1,574,703	2,811,211	1,612,719	10,202,090

Source: Ministry of Agriculture, Forestry and Fisheries

## ENERGY AND FUEL

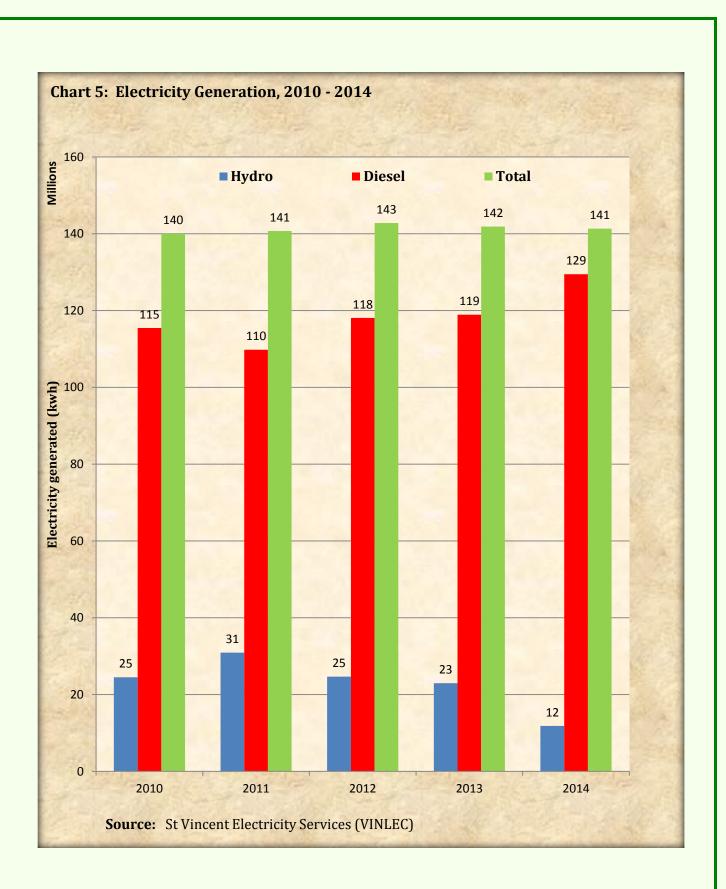


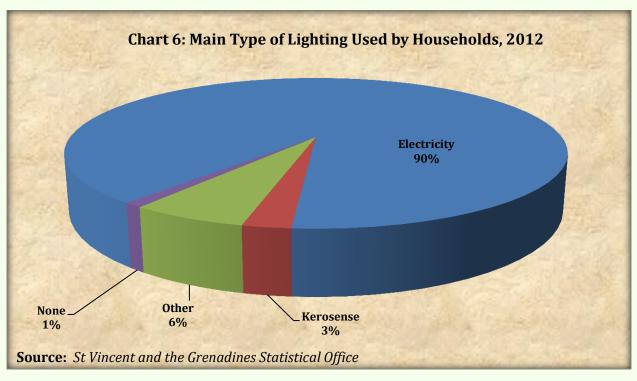
Compendium of Environmental Statistics

 $Table\ 20: Electricity\ Generation,\ Sales\ and\ Consumers,\ 2010\ to\ 2014$ 

DESCRIPTION			Year						
DESCRIPTION	2010	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>				
GENERATION (KWH)									
Hydro	24,505,990	30,910,393	24,688,510	22,976,040	11,858,670				
Diesel	115,481,699	109,798,084	118,099,077	118,904,971	129,469,267				
Total	139,987,689	140,708,477	142,787,587	141,881,011	141,327,937				
Fuel used in Generation (gals)	6,472,254	6,146,785	6,416,095	6,671,789	7,259,075				
DISTRIBUTION (KWH)									
Domestic	61,162,470	60,147,625	60,516,362	60,270,672	60,194,153				
Commercial	44,558,969	46,465,719	48,914,600	48,122,359	47,520,517				
Industry	6,735,589	6,707,112	6,276,922	6,357,017	6,947,766				
Street Lighting	2,979,159	3,086,329	3,165,738	3,173,238	3,175,998				
Public Authorities	10,046,769	9,348,110	9,693,437	9,770,450	9,554,736				
Other Company Needs	4,706,254	4,778,449	4,925,202	4,859,493	4,654,333				
Loss in Transmission	9,798,488	10,118,719	9,209,207	9,585,415	9,782,431				
SALES (KWH)									
Domestic	46,469,817	59,283,810	58,120,770	63,643,375	52,473,665				
Commercial	33,056,651	51,040,696	56,094,680	55,706,051	55,680,710				
Industry	5,045,337	6,705,314	6,417,686	6,385,718	6,900,753				
Street Lighting	740,784	3,473,782	3,576,246	3,576,246	3,725,409				
CONSUMERS AT THE YEA	CONSUMERS AT THE YEAR END								
Domestic	35,571	35,970	36,292	36,864	37,531				
Commercial	4,264	4,377	4,395	4,438	4,431				
Industrial	24	22	20	21	21				
Street Lighting	48	48	47	47	47				
Total	39,907	40,417	40,754	41,370	42,030				

Source: St Vincent Electricity Services (VINLEC)





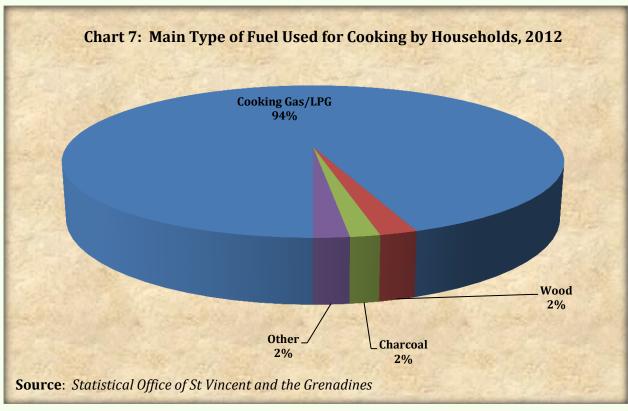


Table 21: Fuel Imported by Type, Weight and Value, 2010 to 2014

Quantity (m<sup>3</sup>)

F1	Year						
Fuel —	<u>2010</u>	<u>2011</u>	<u>2012<sub>R</sub></u>	2013	<u>2014</u>		
Gasoline	31,265	30,374	29,371	22,587	35,503		
Dieseline	52,128	53,951	63,329	50,242	64,028		
Kerosene	1	2	97	55	89		
LPG	7,495	7,057	7,492	6,149	7,460		
TOTAL	90,889	91,384	100,290	79,032	107,080		

Source: St Vincent and the Grenadines Statistical Office

## **TOURISM**



Table 22: Number of Visitors and Average Length of Stay, 2010 to 2014

Year	Total No. of Visitors	Average Length of Stay (days)	Total Mid-Year Population
2010	231,121	11.7	109,815
2011	207,997	11.1	109,903
2012	199,840	11.1	109,991
2013	200,121	11.9	110,079
2014	204,934	13.3	110,167

Source: St Vincent and the Grenadines Tourism Authority

 Table 23:
 Selected Visitor Statistics, 2010 to 2014

			Year		
	<u>2010</u>	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>
<b>Total Tourist arrivals</b>	231,121	207,997	199,840	200,121	204,934
Cruise Ship Passengers	110,954	88,924	77,179	80,185	85,170
Stay over visitors	72,478	73,866	74,364	71,725	70,713
Yacht passengers	42,603	41,266	45,246	45,548	46,899
Same day visitors	5,086	3,941	3,051	2,663	2,152
Average length of stay	11.7	11.1	11.1	11.9	13.3
Cruise Ship calls	131	136	173	212	222

Source: St Vincent and the Grenadines Tourism Authority

Table 24: Stay-Over Visitors by Type of Accommodation, 2010 to 2014

			Type of Acco	ommodation			
<u>Year</u>	<u>Hotels</u>	<u>Apartments</u>	<u>Guest</u> <u>Houses</u>	Resorts	<u>Private</u> <u>Homes</u>	Other/Not Stated	<u>Total</u>
2010	11,509	2,326	1,008	11,863	39,258	6,514	72,478
2011	11,820	1,799	822	14,810	38,160	6,455	73,866
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

Source: St Vincent and the Grenadines Tourism Authority

 Table 25:
 Stay-Over Visitors by Country of Residence, 2010 to 2014

	Jan-Dec	Jan-Dec	Jan-Dec	Jan-Dec
Countries	2014	2013	2012	2011
United States of America	19,838	20,106	21,454	21,164
Canada	7,203	7,146	7,424	6,719
Antigua	722	895	914	847
Barbados	5,718	6,033	6,665	6,562
Grenada	886	977	946	1,007
St. Lucia	1,640	1,769	1,862	1,937
Trinidad	6,081	6,946	7,290	7,110
French Caribbean	299	313	213	332
Dutch Caribbean	280	329	388	375
Other Caribbean	4,260	4,483	4,490	5,102
United Kingdom	15,960	15,183	15,023	14,895
France	802	945	1,069	1,051
Germany	820	791	742	744
Italy	631	756	965	1,037
Sweden	399	497	498	391
Switzerland	383	440	418	384
Belgium	118	126	104	171
Spain	137	154	143	171
Ireland	185	193	194	199
Holland	112	143	98	166
Norway	195	148	163	165
Other Europe	1,042	1,025	993	1,175
South America	1,785	1,081	1,078	1,236
Other Countries	1,217	1,246	1,230	926
Total	70,713	71,725	74,364	73,866

Source: St Vincent and the Grenadines Tourism Authority

Table 26: Stay-Over Visitors by Place of Stay and Month, 2010 to 2014

Month	Hotels	Apts.	Guest Houses	Resorts & Villas	Private Homes	Other/Not Stated	Total
January	1,155	190	79	1,201	3,203	522	6,350
February	1,350	227	91	1,522	2,765	594	6,549
March	1,209	187	78	1,942	2,701	487	6,604
April	1,012	191	72	1,439	3,298	425	6,437
May	837	110	24	939	2,233	192	4,335
June	745	231	48	878	3,997	194	6,093
July	858	286	75	1,034	4,936	267	7,456
August	698	163	43	1,246	3,062	197	5,409
September	700	125	46	598	1,882	89	3,440
October	634	133	73	896	2,025	147	3,908
November	938	209	177	1,458	2,081	240	5,103
December	1,159	168	79	1,949	5,321	353	9,029
Total	11,295	2,220	885	15,102	37,504	3,707	70,713

Source: St Vincent and the Grenadines Tourism Authority



## WASTE



Compendium of Environmental Statistics

Table 27: Waste Disposed by Type of Waste, 2010 to 2014

Quantity (m<sup>3</sup>)

Wests Catagorius		тотлі				
Waste Category	<u>2010</u>	<u>2011</u>	2012	<u>2013</u>	2014	TOTAL
Green Waste	15,259	35,197	15,916	31,659	40,424	138,455
Commercial Waste	29,718	32,456	30,650	37,330	41,848	172,002
Household & Institutional Waste	31,798	30,527	26,690	37,206	41,615	167,836
Construction & Demolition Waste	7,290	7,570	2,171	27,354	6,631	51,016
TOTAL	84,065	105,750	75,427	133,549	130,518	529,187

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

Table 28: Waste by Type of Disposal, 2010 to 2014

Type of			Quantity (1	n³)		TOTAL
Disposal	2010	2011	2012	2013	2014	TOTAL
Landfill	83,683	105,674	75,363	139,578	130,196	534,494
	202	<b>-</b>		48	20	
Composting	382	76	64	67	38	627
TOTAL	84,065	105,750	75,427	139,645	130,234	535,121

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, 2010 to 2014

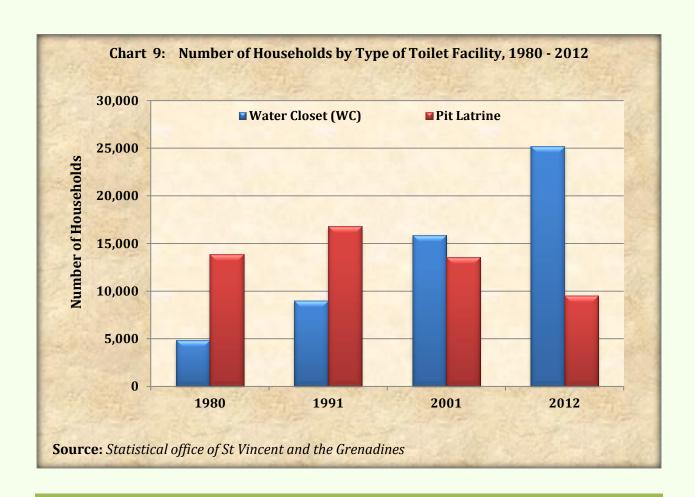
Maska		Weight (Kg)						
<u>Waste</u>	2010	<u>2011</u>	<u>2012</u>	<u>2013</u>	<u>2014</u>			
Waste, parings and scrap, of polymers of ethylene.	0	0	225	0	0			
Waste, parings and scrap, of polymers of vinyl chloride.	20,980	0	0	0	0			
Waste, parings and scrap, of plastics other than polymers of ethylene, etc.	5,000	18,266	450	37,440	99,729			
Other recovered paper or paperboard, including unsorted waste and scrap.	168,110	201,152	81,300	173,315	44,640			
Waste and scrap of cast iron.	0	1,538,448	541,509	1,183,714	250,091			
Waste and scrap of stainless steel.	0	99,745	0	3,521	1,227			
Waste and scrap of alloy steel, other than of stainless steel.	602,476	1,001,201	1,297,870	531,250	351,043			
Waste and scrap of tinned iron or steel.	2,069,969	347,182	120,000	646,700	0			
Other ferrous waste and scrap not elsewhere specified or included.	84,050	15,000	262,435	35,000	0			
Copper waste and scrap.	0	13,179	0	45,251	215,174			
Aluminium waste and scrap.	70,250	48,886	120,590	306974	437,136			
Lead waste and scrap.	0	329	0	0	0			
Waste and scrap of magnesium.	20,000	0	0	0	0			
TOTAL	3,040,835	3,283,387	2,424,380	2,963,165	1,399,040			

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
TOTAL	20,290	27,002	30,588	36,829

Source: St Vincent and the Grenadines Statistical Office



## NATURAL DISASTERS



Table 31: Natural Disasters, 2010 to 2014

Year	Natural Disaster	Frequency And Type	Economic Loss (EC\$M)	Human Loss	Social Impact	Comments
2010	Landslides	Heavy rains	N/A	0	50 affected	shutting down of schools and disruption of transportation
2010	Hurricane Tomas	Wind Damage	EC\$130M	0	250 homes affected	
2010	Landslides	Heavy rains	N/A	0	50 affected	shutting down of schools and disruption of transportation
2010	Hurricane Tomas	Wind Damage	EC\$130M	0	250 homes affected	
	Tropical Wave (1st August)	Landslide and Flooding	N/A	0	56 homes affected, 1 destroyed	34 landslides, 22 homes flooded, 14 retaining walls collapsed
2011	April 2011 (11th - 12th)	Flooding and Landslide	EC\$100	0	110 homes damaged (15 due to landslides, 95 flooded, 14 retaining walls collapsed)	7 families relocated
	Other Events	Flooding and Landslide	N/A	0	10 homes affected by landslide, 3 by flooding, 2 retaining walls collapsed	

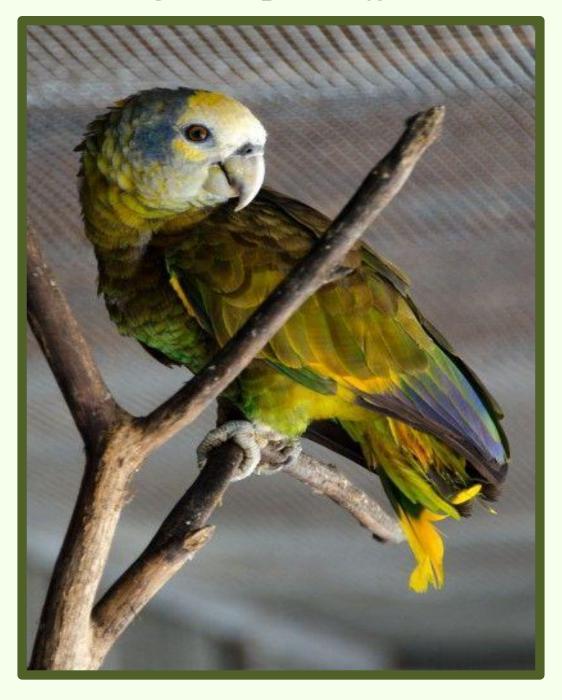
Source: National Emergency Management Organization (NEMO)

Table 31 cont'd.: Natural Disasters, 2010 to 2014

Year	Natural Disaster	Туре	Economic Loss (EC\$M)	Human Loss	Social Impact	Comments
2012	Hearny naine	Landslide	N/A	0	39 landslides reported, 1 home destroyed	14 homes damaged
2012	Heavy rains	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 the day and opened 5pm

Source: National Emergency Management Organization (NEMO)

## BIODIVERSITY



Compendium of Environmental Statistics

**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 endmics. 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, Anolis trinitatus, 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, Pristemantis shrevei, 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, 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.
Other	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