

Prepared by



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PREFACE

The *COMPENDIUM OF ENVIRONMENT STATISTICS* is prepared and published by the Statistical Office, Economic Planning Sustainable Development 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.

Chief Statistician
The Statistical Office
Economic Planning Division
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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 ²
1 sq foot (ft²) / 144 in²	$0.0929 \ m^2$
1 sq yard (yd²) / 9 ft²	$0.8361 m^2$
1 acre / 4840 yd ²	4046.9 m ²
1 sq mile (mile 2) / 640 acres	2.59 km ²
1 hectare (ha)	$0.01~\mathrm{km^2}$
VOLUME	
1 cubic inch (in³)	16.387 cm ³
1 cubic foot (ft ³) / 1,728 in ³	0.0283 m ³
1 fluid once (fl oz)	28.413 ml
1 pint (pt) / 20 fl oz	0.5683 l
1 gallon (gal)	4.5461 l
_	
MASS	
1 once (oz) / 437.5 grain	28.35 g
1 pound (lb) / 16 oz	0.4536 kg
1 stone / 14 lb	$6.3503 \mathrm{kg}$
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.

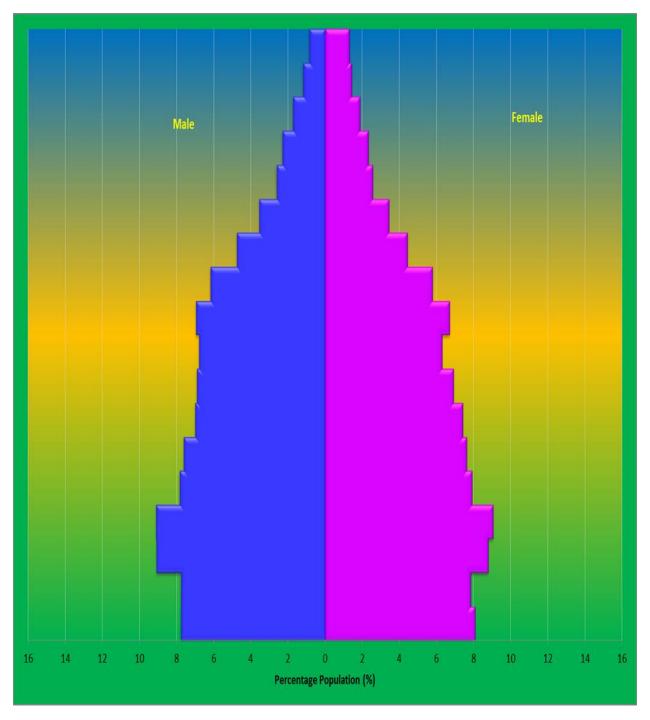
The **average length of stay** for a number of holiday trips is calculated by dividing the total number of nights spent by the total number of tourism trips. Tourism trips are trips taken by visitors.

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 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



Total Population by Sex, 1871 - 2012 Table 1:

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.

Chart 1: Total Population by Sex, 1871 - 2012

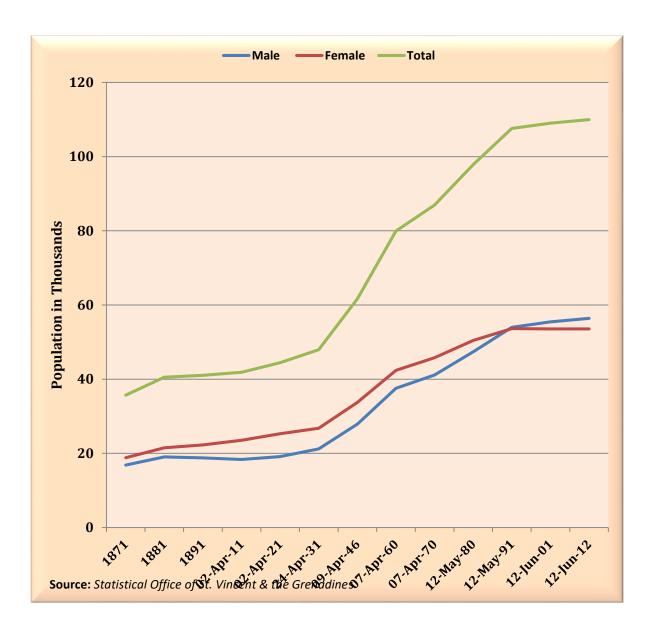


Table 2: Household Population by Age Group, Sex and Census Years, 1980 – 2012

Age		1980			1991			2001			2012	
Group	Male	Female	Total	Male	Female	Total	Male	Female	Total	Male	Female	Total
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						<u></u>
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

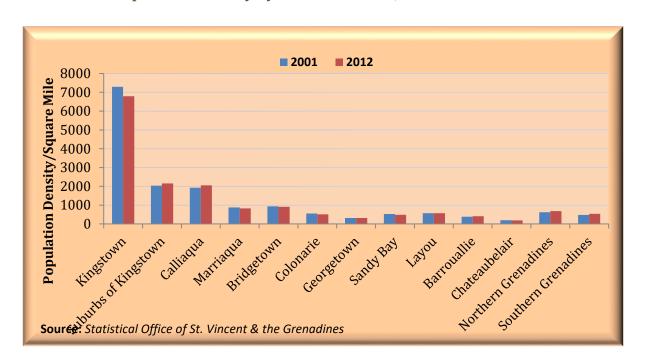
Source: Statistical Office, of St Vincent and the Grenadines

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

				Density(per	rsons/sq.
	Area in Sq. —	Total Pop	ulation	mile	·)
Census Division	Miles	2001	2012	2001	2012
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	746	746
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

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



CLIMATE & AIR



Table 4: Temperature and Humidity, 2014 to 2018

	TEMPERATURE (°C)							
Year	Quarter	Mean Temp.	Mean Max.	Mean Min.	Extreme Max.	Extreme Min.	Relative Humidity (%)	
	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	
	Jan - Mar	26.0	30.7	21.2	31.3	20.7	75.0	
2015	Apr - Jun	27.0	31.0	22.9	31.0	22.2	75.0	
2013	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	
	Jan - Mar	26.0	30.5	21.5	31.0	20.2	73.0	
2016	Apr - Jun	27.4	31.9	22.9	31.9	22.5	76.0	
2010	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	
	Jan - Mar							
2017	Apr - Jun	27.5	30.0	25.0	32.6	22.1	79.0	
2017	Jul - Sept	27.9	30.5	25.3	32.2	22.2	82.0	
	Oct - Dec	26.4	29.4	23.5	31.1	20.3	82.0	
	Jan - Mar	25.2	28.1	22.2	30.1	17.9	79.0	
2018	Apr - Jun	26.4	29.1	23.6	30.6	21.1	80.0	
2018	Jul - Sept	27.3	29.9	24.7	31.4	21.5	81.0	
	Oct - Dec	26.2	29.0	23.5	31.4	20.5	81.0	

Source: The Meteorological Office.

Table 5: Rainfall (mm) Recorded at Selected Stations, 2014 to 2018

					Location of	Station			
			New	Belle	LUCATION OF	Station	Met		
Year	Quarter	Belmont	Grounds	Isle	Dumbarton	Rabacca	Office	Richmond	Rivulet
	Jan - Mar	428.8	225.8	343.2	357.6	357.4	280.6	938.3	254.5
	Apr - Jun	143.8	127.5	203.5	267.1	245.7	182.6	365.8	135.6
2014	Jul - Sep	673.0	420.6	843.6	692.8	411.1	669.8	820.1	501.9
	Oct - Dec	496.8	613.5	587.1	667.6	551.1	550.1	713.2	514.1
	Total	1742.4	1387.4	1977.4	1985.1	1565.3	1683.1	2837.4	1406.1
	Jan - Mar	448.2	280.6	388.3	467.0	332.6	385.7	526.0	320.4
	Apr - Jun	404.0	233.7	216.8	262.6	216.5	358.7	246.9	182.6
2015	Jul - Sep	595.6	178.8	693.8	578.4	466.9	576.0	497.2	414.0
	Oct - Dec	628.4	302.2	671.4	594.0	460.1	530.2	225.8	406.6
	Total	2076.2	995.3	1970.3	1902.0	1476.1	1850.6	1495.9	1323.6
	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
2016	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
	Total	1477.0	1173.7	2623.6	2569.8	2418.0	1223.2	2881.6	1761.3
	Jan - Mar			247.6	455.2	248.9	NA	290.9	269.5
	Apr - Jun			439.1	517.6	347.0	474.8	494.2	428.1
2017	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
	Total			2458.0	2447.1	1630.4	1647.4	2512.9	1606.7
	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
2018	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
	Total	••		2163.1	2123.1	1370.6	1506.7	2302.4	1428.9

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

_	Emissions (Gg)						
GHG Source	CO ₂	CH ₄	N_2O	NO _x	со	NMVOC	SO ₂
Energy							
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
Industrial Processes							
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
Solvent and Other Product Use	U	U	U	Ü	O	O	U
A. Solvent and other product use	0	0	0	0	0	0	1

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

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

_			Em	nissions (Gg)			
GHG Source	CO_2	CH ₄	N_2O	NO _x	CO	NMVOC	SO_2
Agriculture							
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
Land Use Change & Forestry							
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 ₂ Emissions and Removals	0	0	0	0	0	0	0
Waste							
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
Other							
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 ₂ 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

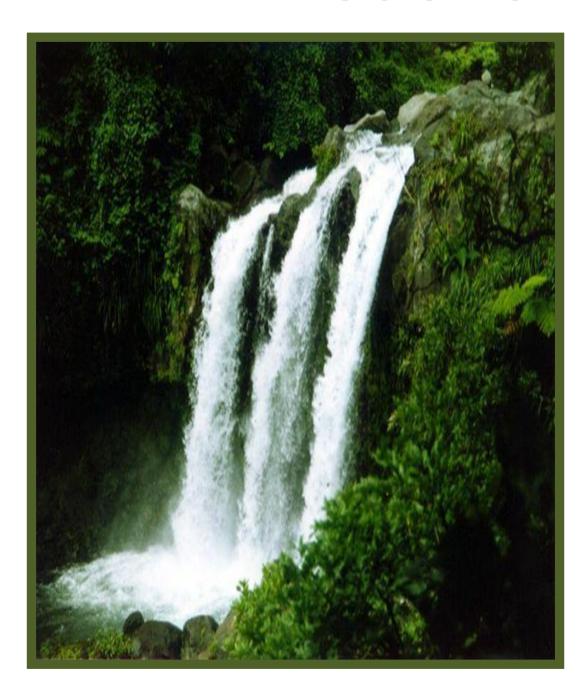


Table 7: Water Abstraction by Catchment Area, 2014 to 2018,

('000 000 gal.)

			Year		<i>y</i>
Water System	2014	2015	2016	2017	2018
Dalaway	454.2	892.1	750.3		
Fancy	6.7	9.9	9.7		
Hermitage	163	234.6	237		
Jennings	214.4	329.3	344.6		
Layou	36	45.9	62.3		
Majorca	205.1	259.8	302.6		
Mammoon	24	24.1	24.1		
Montreal	189.4	316.7	312		
0wia	13.1	18.2	16.1		
Perseverance	70.1	111.3	120.6		
Sandy Bay	30.7	39.7	41		
TOTAL	1406.7	2281.6	2220.3		

Source: Central Water and Sewage Authority (CWSA).

Table 8: Potable Water Consumption, 2014 to 2018

	Year						
Category	2014	2015	2016	2017	2018		
DOMESTIC							
Consumption - Mil. gals	1,037	1,062	1,091	1,099	1,109		
INDUSTRIAL(Ships)							
Consumption - Mil. gals	3	2	2	2	4		
COMMERCIAL(Industrial)							
Consumption - Mil. gals	143	159	169	147	146		
GOVERNMENT**							
Consumption - Mil. gals							

^{**} Includes consumption for standpipes

Source: Central Water and Sewage Authority (CWSA).

Chart 3: Potable Water Consumption by Type of Use, 2018

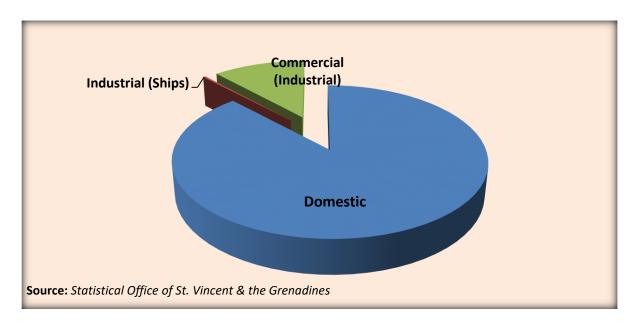
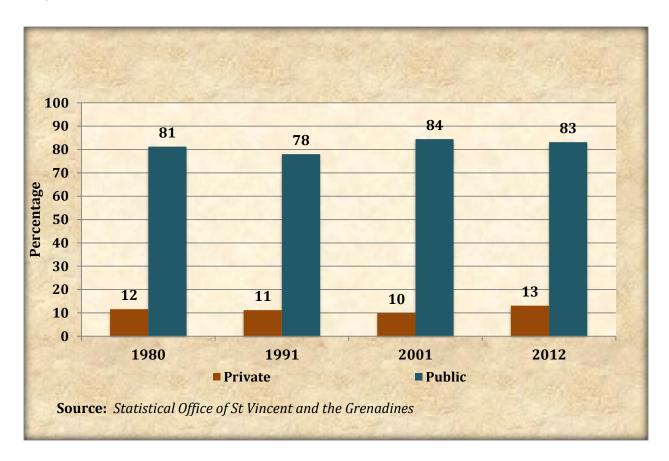


Table 9: Distribution of Households by Source of Water Supply, 1980 – 2012

	Census Year				
ТҮРЕ	1980	1991	2001	2012	
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	0	0	286	
Total	20,290	27,002	30,558	36,829	

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 ²	27,533
Shelf Area	Km ²	78,000
Length of Coastline	Km	84
Marine area under protection	Km ²	100.4r
Proportion of Marine area under protection	%	0.36r

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

Table 11: Protected Marine Areas

Area Name	Area (ha)	Area (Km²)	Square Nautical Miles	Status
Bequia Marine Conservation Area	367.5	3.675	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
Total Marine Area Designated & Proposed	10042.4	100.435	28.63	Designated and Proposed

^{***} Proposed redesignation

Source: National Parks, Rivers and Beaches Authority

Table 12: Protected Terrestrial Areas

Area Name	Size (ha)	Size (km²)	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
Total Terrestrial Area Designated & Protected by Law	14264.7	142.7	

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

Map 1: Important Bird Area VC001 VC002 N VC003 VC004 VC005 VC006 VC007 VC010 VC008 VC009 VC012 VC013 CARIBBEAN SEA VC014 10 km

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

Agriculture & Land Use



Table 14: Selection of Commodities Produced by Weight, 2014 to 2018

Quantity (000'Kg)

Agricultural Crops	2014 Quantity (000'Kg)	2015 Quantity (000'Kg)	2016 Quantity (000'Kg)	2017 Quantity (000'Kg)	2018 Quantity (000'Kg)
Arrowroot Rhizomes	228	414	582	490	496
Bananas	1,546	2,391	2,342	0	0
Dasheen	5,186	4,654	6,532	5,420	5,732
Eddoes	1,547	1,451	1,954	1,898	1,910
Ginger	2,415	1,910	2,453	2,195	1,862
Mace	61	61	61	61	61
Nutmegs	189	192	205	212	219
Peanuts/Groundnuts	237	228	289	275	204
Plantains	3,149	3,323	3,870	4,450	4,910
Sweet Potatoes	3,114	2,772	2,354	2,105	2,167
Tannias	304	284	319	247	249
Yams (other)	1,296	1,155	880	901	904
Yams (Portuguese)	842	833	711	828	836
Yams (White)	680	690	693	730	754
Yams (Yellow)	66	68	81	83	84
TOTAL	20,860	20,426	23,326	19,895	20,388

Table 15: 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	Forest Cloud Deciduous	4558	15.1	83
Areas	Forest Evergreen & Seasonal	8078	26.7	76
	Forest Plantation	12	0.04	11
	Forest Semi Deciduous	2691	8.9	96
	Mangrove	13	0.04	32
	Cloud Forests	1783	5.9	43
	Forest Cloud Elfin	275	0.9	89
Inside	Forest Cloud Transitional	863	2.9	41
Proposed	Forest Cloud Deciduous	403	1.3	7
Protected Areas	Forest Evergreen & Seasonal	4749	15.7	45
	Forest Plantation	8	0.03	7
	Forest Semi Deciduous	63	0.2	2
	Mangrove	2	0.01	5
	Cloud Forests	2153	7.1	52
	Forest Cloud Elfin	11	0.04	3
Inside	Forest Cloud Transitional	879	2.9	42
designated	Forest Cloud Deciduous	511	1.7	9
Protected Areas	Forest Evergreen & Seasonal	2523	8.3	24
	Forest Plantation	89	0.3	82
	Forest Semi Deciduous	34	0.1	1
	Mangrove	24	0.1	62

Table 16: Animals Slaughtered, 2014 to 2018

Year	Porcine	Bovine	Caprine	Ovine	Poultry	Total
2014	1,256	996	682	955	6,426	10,315
2015	956	1,271	894	510	12,926	16,557
2016	1,149	920	535	846	18,770	22,220
2017	842	923	604	589	19,855	22,813
2018	809	962	644	650	27,981	31,046
Total	5,012	5,072	3,359	3,550	85,958	102,951

FISHING

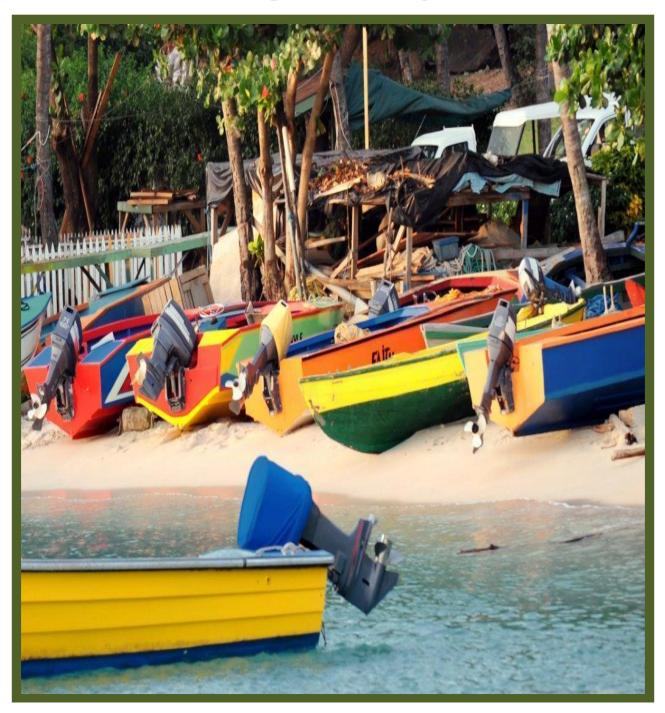


Table 17: Registered Fishing Vessels and Fishermen, 1995 to 2018

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	1,051
2014	21	827	46	1,097
2015	12	839	42	1,139
2016	22	861	42	1,181
2017				
2018				

Table 18: Fish Landed by Type, 2014 to 2018

	20	014	20	015	20	16	20)17	20)18
ТҮРЕ	Qty (lbs)	Value (\$EC)								
Conch	116,556	780,174	74,637	490,696	91,388	597,158	470,056	2,820,336	684,060	6,848,773
Lobster	111,579	1,507,496	116,288	1,590,478	68,774	954,856	119,334	1,670,218	139,043	2,558,618
Whale	10	1,000	110367	496,517	19040	94,380	17,270	86,350	8,210	41,050
Shark	18,479	115,687	119,002	72,378	13,154	80,029	14,892	90,834	13,073	83,455
Balahoo	86,475	172,500	232,918	432,057	203,746	381,601	68,270	136,355	107,394	214,668
Bonito	27,095	198,461	20,733	157,480	11,488	85,642	10,780	82,324	33,987	227,073
Cavalli	35,294	257,377	41,094	252,355	49,892	305,881	52,786	372,946	56,125	387,984
Dolphin	120,413	1,079,049	205,330	1,837,900	207,602	1,862,832	98,001	876,113	158,972	1,425,857
Jacks	190,040	741,145	223,735	1,014,932	119,252	521,832	245,130	1,019,961	431,688	1,570,171
Kingfish	45,472	403,442	19,183	167,454	36,829	326,772	19,907	174,779	35,017	305,206
Porpoise	570	2,450	9897	67,423	7940	39,700	5,557	27,783	21,405	107,025
Red Hind Red	94,935	815,317	48,494	428,852	38,960	348,285	67,846	580,866	35,019	309,923
Snapper	14,394	101,300	7,818	63,978	7,262	62,364	16,184	132,688	27,819	237,299
Robin	334,107	1,392,595	283,788	1,283,500	142,423	632,776	76,516	348,858	132,853	571,776
Skip Jack Other	86,931	667,564	102,073	812,232	123,295	968,401	70,675	546,472	53,713	425,462
Species	330,370	1,966,532	275,693	1,953,205	432,392	2 080 980	411,535	3,010,290	531,556	3,434,054
TOTAL	1,612,719	10,202,089	1,783,950	11,121,435	1,431,014	9,343,490	1,764,739	11,977,173	2,469,934	18,748,394

ENERGY AND FUEL



 Table 19:
 Electricity Generation, Sales and Consumers, 2014 to 2018

			Year							
DESCRIPTION	2014	2015	2016	2017	2018					
GENERATION (KWH)										
Hydro	11,858,670	16,757,832	15,932,020	20,327,820	23,770,249					
Solar	343,256	866,064	809,941	816,242	1,149,929					
Diesel	129,469,267	128,614,775	136,231,070	128,932,862	125,009,805					
Total	141,671,193	146,238,671	152,973,031	150,076,924	149,929,983					
Fuel used in	7 250 075	7 210 225	7 (7(05(7 202 7/7	6,000,707					
Generation (gals)	7,259,075	7,219,335	7,676,956	7,283,767	6,990,787					
		DISTRIBUTIO	N (KWH)							
Domestic	60,194,153	52,401,534	63,526,269	68,289,120	68,039,019					
Commercial	47,520,517	60,104,511	53,969,022	47,575,547	47,028,246					
Industrial	6,947,766	7,394,177	1,394,177	7,277,376	6,832,585					
Street Lighting	3,175,998	3,182,880	3,182,880	3,098,274	3,003,348					
Public Authority Other Company	9,554,736	9,820,052	10,121,137	9,805,186	10,214,654					
Needs Loss in	4,667,575	4,529,913	4,728,124	4,719,720	4,545,838					
Transmission	9,782,431	10,259,667	10,557,348	10,043,395	11,005,081					
		SALES (K	WH)							
Domestic	52,473,665	46,035,528	51,021,320	52,615,947	61,140,135					
Commercial	55,680,710	53,003,105	43,088,003	43,080,900	47,027,847					
Industry	6,900,753	5,667,293	5,098,903	5,362,646	5,766,591					
Street Lighting	3,725,409	3,084,663	2,872,344	2,895,981	3,089,020					
CONSUMERS AT THE YEAR END										
Domestic	37,531	38,248	39,031	39,569	40,402					
Commercial	4,431	4,479	4,508	4,536	4,619					
Industrial	21	22	23	23	24					
Street Lighting	47	47	47	46	46					
Total	42,030	42,796	43,609	44,174	45,091					

Source: St Vincent Electricity Services (VINLEC)

Chart 5: Electricity Generation, 2014 - 2018

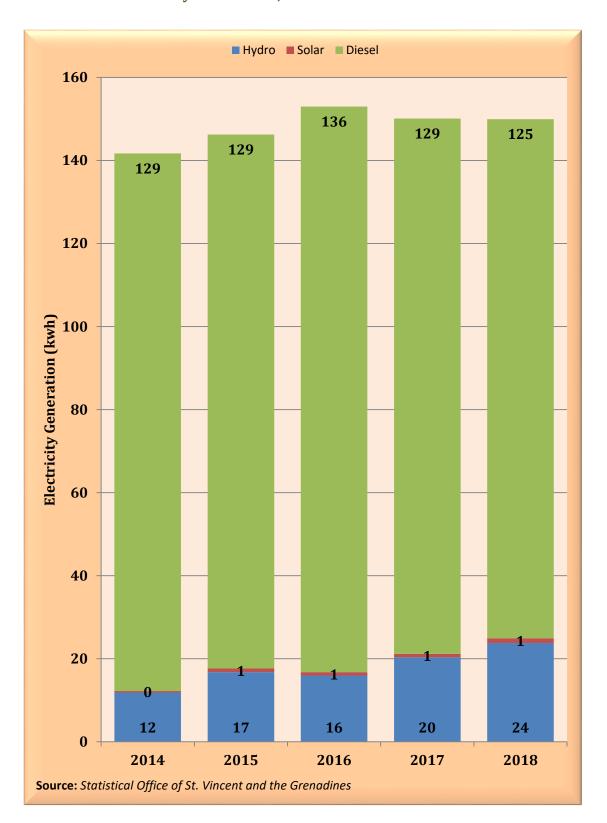


Chart 6: Main Type of Lighting Used by Households, 2012

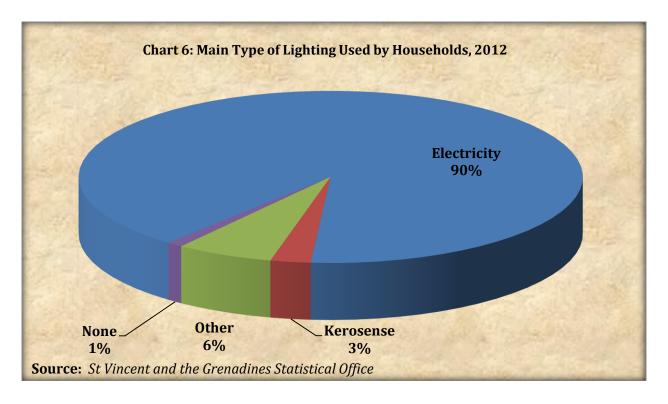


Chart 7: Main Type of Fuel Used for Cooking by Households, 2012

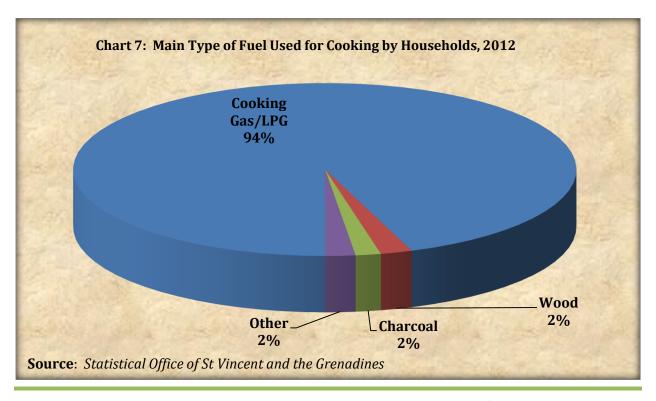


Table 20: Fuel Imported by Type and Volume, 2014 to 2018

Quantity (m³)

		Year						
Fuel	2014	2015	2016	2017	2018			
Gasoline	35,503	29,227	35,603	35,115	40,319			
Dieseline	64,028	41,224	55,508	28,709	52,618			
Kerosene	89	42	69	43	15			
LPG	7,460	11,306	8,691	7,486	8,214			
TOTAL	107,080	81,799	99,871	71,353	101,166			

Source: St Vincent and the Grenadines Statistical Office

TOURISM



Table 21: Average Length of Stay in Days by Major Market, 2014 to 2018

	Year				
Major Market	2014	2015	2016	2017	2018
USA	14.7	15.3	14.6	15.8	13.9
Canada	19.0	19.5	19.1	19.4	17.5
Europe	13.3	13.4	13.4	15.1	14.2
Caribbean	9.4	9.6	9.2	10.0	9.4
South America	12.8	12.1	10.8	12.2	9.5
Other/Not Stated	26.3	24.4	22.6	22.3	27.4

Source: *St Vincent and the Grenadines Tourism Authority*

Table 22: Selected Visitor Statistics, 2014 to 2018

	Year							
	2014	2015	2016	2017	2018			
Total Tourist arrivals	204,934	206,662	227,230	303,044	356,069			
Cruise Ship Passengers	85,170	82,079	99,542	174,236	217,876			
Stay over visitors	70,713	75,381	78,751	75,972	80,080			
Yacht passengers	46,899	47,470	47,575	51,351	56,826			
Same day visitors	2,152	1,732	1,362	1,485	1,287			
Cruise Ship calls	222	231	259	280	261			

Source: St Vincent and the Grenadines Tourism Authority

Table 23: Stay Over Visitors by Type of Accommodation, 2014 to 2018

	Type of Accommodation						
			Guest		Private	Other/Not	
Year	Hotels	Apartments	Houses	Resorts	Homes	Stated	Total
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
2017	10,708	1,818	822	10,058	48,246	4,320	75,972
2018	11,279	1,616	738	11,040	51,043	4,364	80,080

Source: St Vincent and the Grenadines Tourism Authority

Table 24: Stay-Over Visitors by Country of Residence, 2014 to 2018

Countries	Jan - Dec 2014	Jan - Dec 2015	Jan - Dec 2016	Jan - Dec 2017	Jan - Dec 2018
United States of America	19,838	22,063	22,848	23,320	26,351
Canada	7,203	7,515	8,010	8,690	9,822
Antigua & Barbuda	722	820	884	794	817
Barbados	5,718	6,115	6,233	6,797	6,659
Grenada	886	931	1,017	1,016	1,040
St. Lucia	1,640	1,713	2,001	2,012	1,984
Trinidad & Tobago	6,081	7,306	9,500	8,666	8,397
French Caribbean	299	328	379	228	216
Dutch Caribbean	280	316	313	320	272
Other Caribbean	4,260	4,037	4,037	5,091	4,422
United Kingdom	15,960	17,045	16,696	11,870	12,959
France	802	764	814	872	896
Germany	820	730	752	638	725
Italy	631	516	584	644	655
Sweden	399	490	502	436	361
Switzerland	383	390	399	408	429
Belgium	118	118	111	91	111
Spain	137	141	171	221	149
Ireland	185	182	154	160	180
Holland	112	99	76	85	84
Norway	195	167	150	96	104
Other European	1,042	938	981	1,153	1,195
South America	1,785	1,343	884	1,036	784
Other Countries	1,217	1,314	1,255	1,328	1,468
Total Source: St Vincent and the Grand	70,713	75,381	78,751	75,972	80,080

Source: St Vincent and the Grenadines Tourism Authority

 Table 25:
 Stay-Over Visitors by Place of Stay and Month, 2018

Month	Hotels	Apartments	Guest Houses	Resorts & Villas	Private Homes	Other/Not Stated	Total
January	1,076	189	94	925	3,980	669	6,933
February	1,222	193	93	1,125	3,612	645	6,890
March	1,324	196	85	1,664	4,874	799	8,942
April	995	111	59	834	3,334	439	5,772
May	917	142	45	661	2,992	277	5,034
June	744	72	38	876	4,920	198	6,848
July	1,083	173	64	961	6,586	233	9,100
August	674	135	28	538	4,255	148	5,778
September	393	61	35	191	2,541	140	3,361
October	755	93	81	493	2,778	139	4,339
November	1,055	112	57	1,158	2,842	210	5,434
December	1,041	139	59	1,614	8,329	467	11,649
Total	11,279	1,616	738	11,040	51,043	4,364	80,080

Source: St Vincent and the Grenadines Tourism Authority

WASTE



Table 26: Waste Disposed by Type of Waste, 2014 to 2018

Quantity (m³)

			Year			
Waste Category	2014	2015	2016	2017	2018	TOTAL
Green Waste	40,424	41,521	30,920	52,383	39,656	204,904
Commercial Waste	41,848	44,460	52,813	57,505	58,595	255,401
Household & Institutional Waste	41,615	48,089	51,970	52,182	50,497	244,353
Construction & Demolition Waste	6,631	6,099	9,862	10,790	10,323	43,705
TOTAL	130,518	142,364	147,581	172,860	159,071	748363

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

Table 27: Waste by Type of Disposal, 2014 to 2018

Type of Disposal	2014	2015	2016	2017	2018	TOTAL
Landfill	130,196	149,729	160,477	200,248	183,315	823,965
Composting	38	39	36	34	37	184
TOTAL	130,234	151,783	162,529	200,282	183,352	824,149

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

Table 28: Waste Exported from St Vincent and the Grenadines for Recycling, 2014 to 2018

			Weight (Kg	3)	
Waste	2014	2015	2016	2017	2018
Waste, parings and scrap, of polymers of vinyl chloride.	0	0	0	0	0
Waste, parings and scrap, of plastics other than polymers of ethylene, etc.	0	0	0	294,000	206,500
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	0	0	128,080	9,000
Waste and scrap of cast iron.	63,000	681	909	0	0
Waste and scrap of stainless steel.	0	0	909	2,015	3,015
Waste and scrap of alloy steel, other than of stainless steel.	28,000	41,858	0	63,069	647,004
Waste and scrap of tinned iron or steel.	0	0	0	3,791	30,000
Other ferrous waste and scrap not elsewhere specified or included.	0	0	0	0	1,833
Copper waste and scrap.	30000	0	39,682	83,653	65,466
Aluminium waste and scrap.	101,000	126,329	40,657	143,730	85,878
Lead waste and scrap.	0	0	0	3,898	0
Zinc waste and scrap	0	0	2545	0	0
TOTAL	222,000	168,868	82,157	722,236	1,048,696

Source: St Vincent and the Grenadines Statistical Office

Table 29: Number of Households by Type of Sanitation 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
TOTAL	20,290	27,002	30,588	36,829

Source: St Vincent and the Grenadines Statistical Office

Chart 9: Number of Households by Type of Toilet Facility, 1980 - 2012

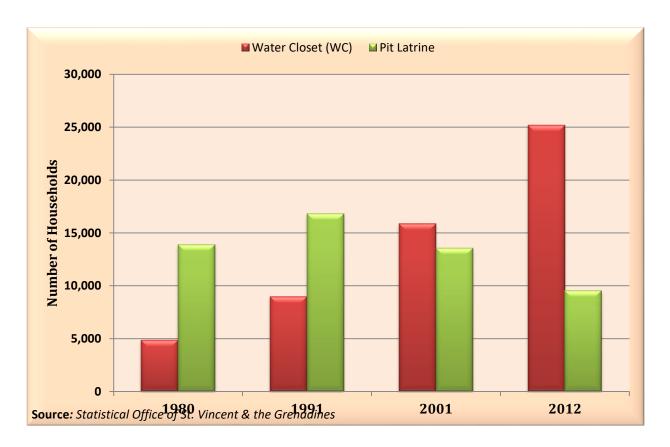


Table 30: White Goods collected by site in cubic meters (m³), 2014 - 2018

	Landfill		
Year	Diamond	Belle Isle	Total
2014	1,023	76	1,099
2015	1,271	105	1,376
2016	1,509	106	1,615
2017	1,611	142	1,753
2018	1,818	172	1,990
Total	7,232	601	7,833

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

Table 31: Waste Characterization Study

	%			
Material Type	2013	2014	2017	
Paper and Paper Board	47.31	19.11	20.01	
Glass	3.07	4.32	3.86	
Metal	3.42	6.28	4.28	
Plastic	10.7	29.95	23.48	
Organics	20	29.1	33.45	
Textiles	4.84	7.41	9.06	
Construction and Demolition	3.23	2.94	0.73	
Special Care Waste	0.42	0.7	0.58	
Other Waste	7.01	0.19	4.55	

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

NATURAL HAZARDS & DISASTERS



Table 32a:Natural Disasters, 2014 to 2018

Year	Natural Disaster	Туре	Economic Loss (EC\$M)	Human Loss	Social Impact	Comments
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
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

Source: National Emergency Management Organization (NEMO)

Table 32b:Natural Disasters, 2014 to 2018

77	Natural	T	Economic Loss		0.111	
Year	Trough System- November 9th	Type Heavy rains - Flooding and Landslide	(EC\$M) NA	1 dead, 1 missing (presumed dead)	1 injured, 4 homes destroyed, 2 homes uninhabitable	Comments 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
2016	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
2017						
2018						

Source: National Emergency Management Organization (NEMO)

BIODIVERSITY

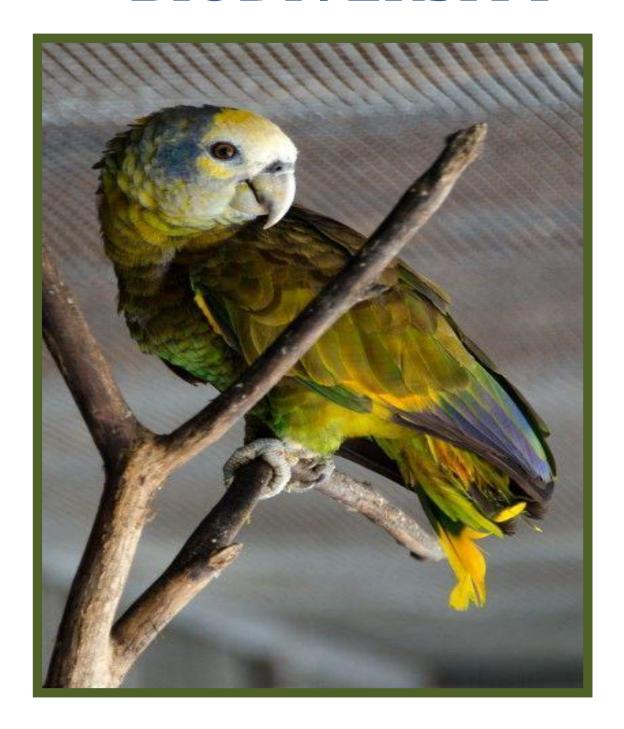


 Table 33:
 St Vincent and the Grenadines' Biodiversity Facts

	Number	
Species	of Species	Comments
species	Species	Comments
Mammals	17	14 species of bats.
		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
Birds	190	Troglodytes aedon also exist.
		Including 5 endemics, - four lizards: Anolis griseus, Anolis trinitatus,
		Sphaerodactylus kirbyi (endemic to Bequia and Mustique), and
		Gonatodes daudini (endemic to Union Island) and one snake - the Black Snake (Chironius vincentii). There are 4 species of turtles,
		Hawksbill (<i>Eretmochelys imbricata</i>), Green (<i>Chelonia mydas</i>),
		Loggerhead (Caretta caretta) and Leatherback (Dermochelys coraica).
Reptiles	21	Two of the 21 species are apparently recent invasive species.
Amphibians	4	One endemic, Pristemantis shrevei, and two invasive species.
		1,150 species of flowering plants with 16 endemics. There are 163
		species of ferns, 4 are endemic, including the Tree Fern (Cyathea
Plants	1600	tenera) found on the uppermost ridges within cloud and rain forests.
Fresh water	25	Fresh and brackish water species.
		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
Marine	500	species of brittle star (Ophiothela mirabilis.
		25 species of diplopods (centipedes and millipedes), 220 species of
		arachnids (not including microscopic mites), 2,000 species of insects , and 35 terrestrial crustaceans have been recorded in the
	25	country.
Other		
Juici	055	875 species of molluscs (75 terrestrial and aquatic, 800 marine)
	875	exists.
	16	16 species of nematodes have been recorded for Union Island alone.

Source: National Parks, Rivers & Beaches Authority

Table 32: 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 Victus	St. Vinent 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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