



2012 COMPENDIUM OF ENVIRONMENTAL STATISTICS



STATISTICAL OFFICE

Central Planning Division

**Ministry Of Economic Planning, Sustainable
Development, Industry, Information And
Labour**

Kingstown, St. Vincent & The Grenadines

Prepared by

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PREFACE

The **ENVIRONMENTAL STATISTICS REPORT** is prepared and published by the Statistical Office, Central Planning Division, Ministry of Finance and Economic Planning. This is the second issue of the publication.

The Environmental Statistics Report 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 with the provision of data. Without their cooperation, this edition would not have been possible.

Gatlin Roberts

Chief Statistician

The Statistical Office - Central Planning Division

Ministry of Economic Planning, Sustainable Development, Industry, Information and Labour

ST. VINCENT AND THE GRENADINES

Conversion between Imperial and Metric System

| IMPERIAL | METRIC |
|---|------------------------|
| <i>LENGTH</i> | |
| 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 |
| <i>AREA</i> | |
| 1 sq inch (in ²) | 6.4516 cm ² |
| 1 sq foot (ft ²) / 144 in ² | 0.0929 m ² |
| 1 sq yard (yd ²) / 9 ft ² | 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 km ² |
| <i>VOLUME</i> | |
| 1 cubic inch (in ³) | 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 |
| <i>MASS</i> | |
| 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 |

POPULATION

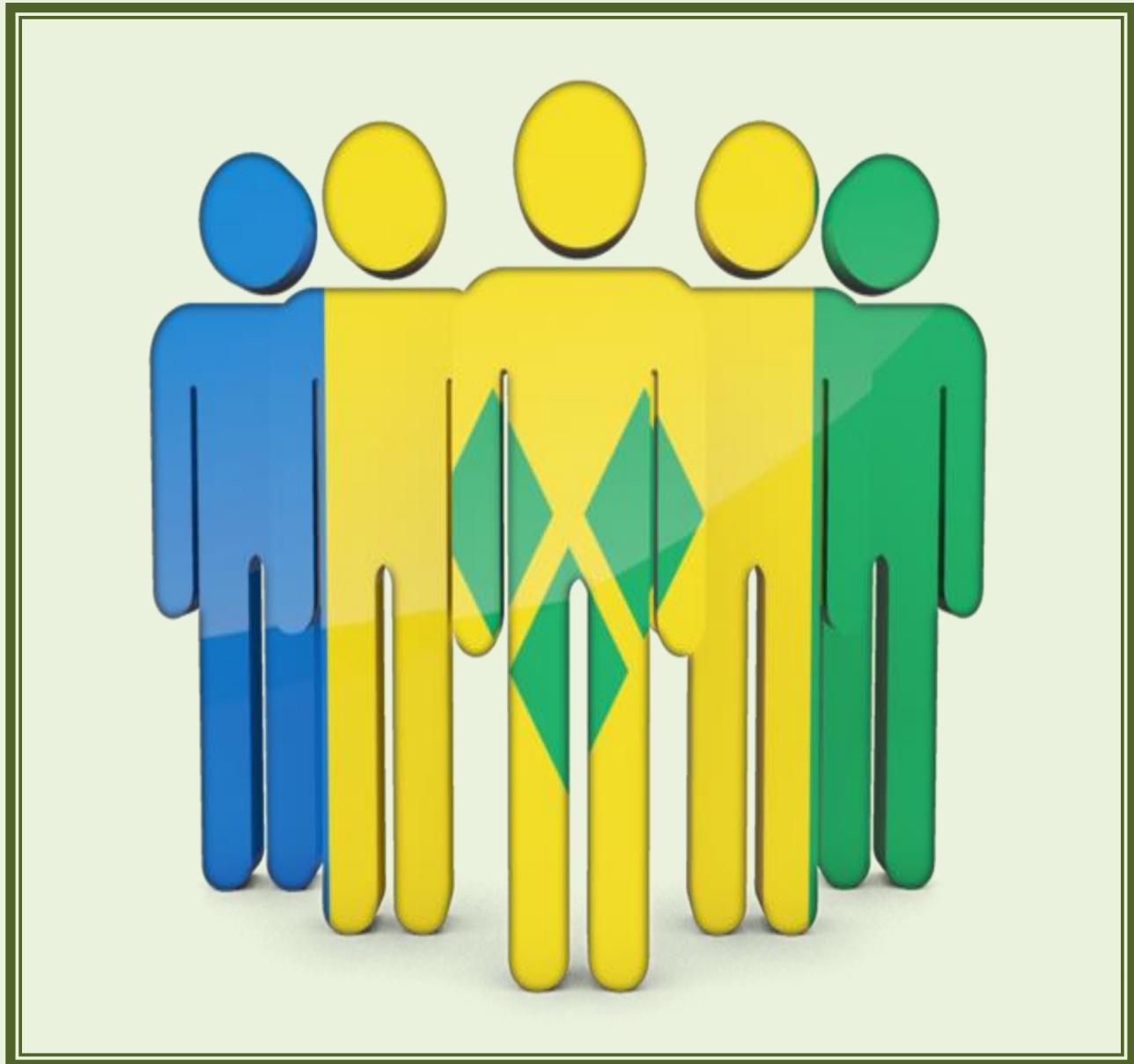


Table 1: Population Size and Growth, 1871 – 2012

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

Source: *Statistical Office, Central Planning Division*

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

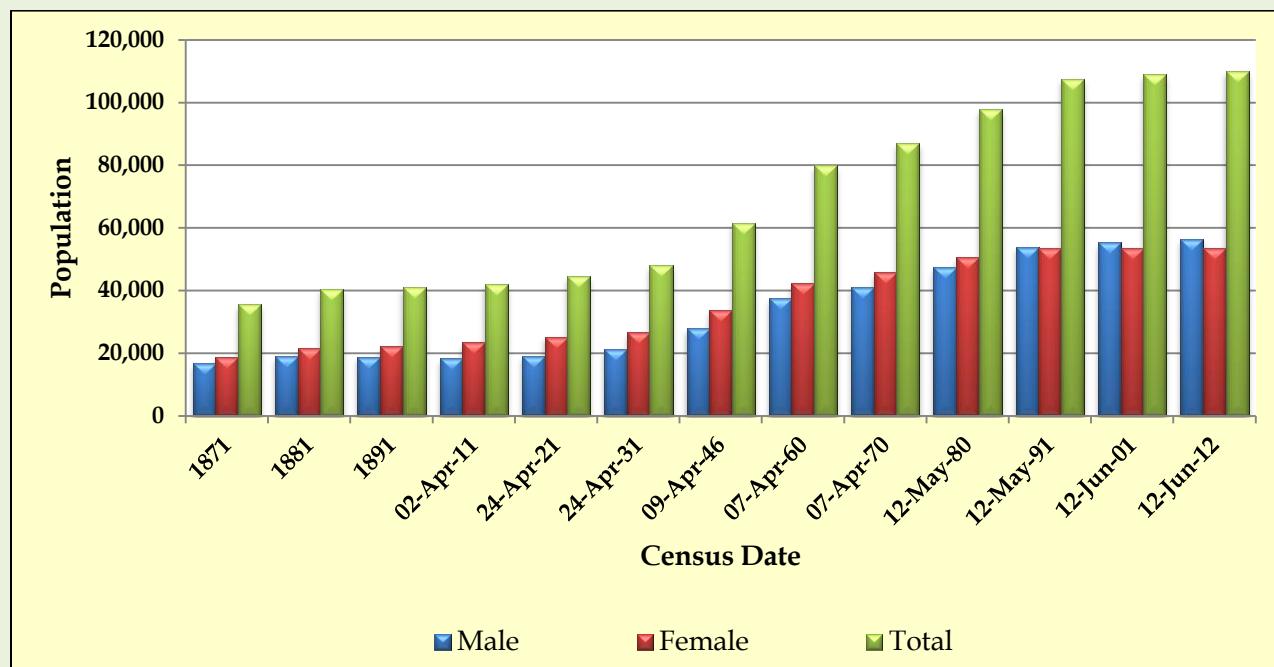
Figure 1 – Total Population by Sex, 1871 - 2012Source: *Statistical Office of St Vincent and the Grenadines*.

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

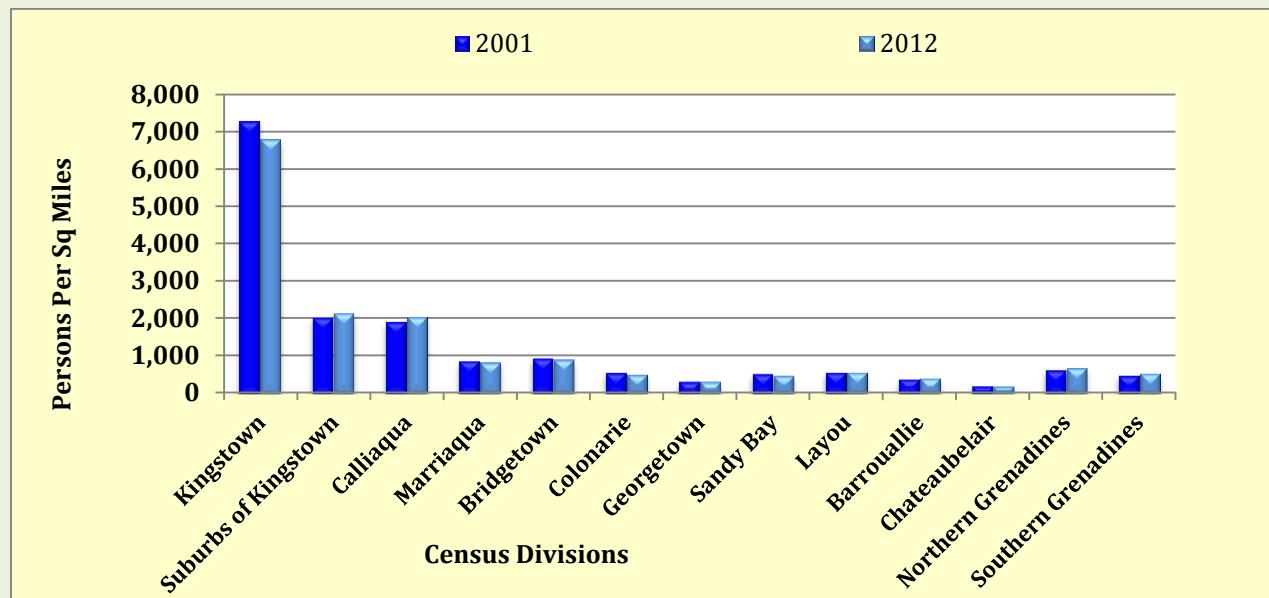
| <u>Age Group</u> | 1980 | | | 1991 | | | 2001 | | | 2012 | | |
|------------------|---------------|---------------|---------------|---------------|---------------|----------------|---------------|---------------|----------------|---------------|---------------|----------------|
| | <u>Male</u> | <u>Female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

| <u>Census Division</u> | <u>Area in Sq. Miles</u> | <u>Total Population</u> | | <u>Density(persons/sq. mile)</u> | |
|---------------------------|------------------------------|-------------------------|----------------|----------------------------------|-------------|
| | | <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 | 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*.

Figure 2 - Population Density by Census Division, 2001 & 2012

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

HOUSEHOLDS



Table 4: Number and Proportion of Households by Type of Dwelling, 2001 & 2012

| Type of Dwelling Unit | 2001 | | 2012 | |
|--------------------------------|---------------|--------------|---------------|--------------|
| | Count | Percentage | Count | Percentage |
| Undivided Private House | 26,056 | 85.3 | 31,286 | 84.9 |
| Part of a Private House | 2,945 | 9.6 | 2,339 | 6.4 |
| Flat or Apartment | 673 | 2.2 | 1,938 | 5.3 |
| Combined Business and Dwelling | 456 | 1.5 | 493 | 1.3 |
| Double house/Duplex | 30 | 0.1 | 494 | 1.3 |
| Other Types of Housing Unit | 397 | 1.3 | 246 | 0.7 |
| Not Stated | 0 | 0.0 | 33 | 0.1 |
| TOTAL | 30,558 | 100.0 | 36,829 | 100.0 |

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

Table 5: Number and Proportion of Households by Type of Tenure, 2001 & 2012

| Type of Tenure of Dwelling Unit | 2001 | | 2012 | |
|---------------------------------|---------------|------------|---------------|------------|
| | Count | Percent | Count | Percent |
| Owner | 23,130 | 75.7 | 28,987 | 78.7 |
| Rented (paying) | 3,940 | 12.9 | 4,244 | 11.5 |
| Rent Free | 2,756 | 9.0 | 3,083 | 8.4 |
| Leased | 27 | 0.1 | 40 | 0.1 |
| Squatted | 133 | 0.4 | 203 | 0.6 |
| Other | 487 | 1.6 | 187 | 0.5 |
| Not Stated | 85 | 0.3 | 85 | 0.2 |
| TOTAL | 30,558 | 100 | 36,829 | 100 |

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

Table 6: Number of Households by Type of Material of Outer Walls, 2001 & 2012

| Material of Outer Walls | 2001 | | 2012 | |
|--------------------------------|---------------|----------------|---------------|----------------|
| | Count | Percent | Count | Percent |
| Concrete and Blocks | 21,886 | 71.6 | 25,723 | 69.8 |
| Wood | 5,872 | 19.2 | 3,619 | 9.8 |
| Concrete | - | - | 3,049 | 8.3 |
| Wood and Concrete | 2,339 | 7.7 | 2,474 | 6.7 |
| Stone | 95 | 0.3 | 337 | 0.9 |
| Other Materials | 316 | 1.0 | 1,596 | 4.3 |
| Not Stated | 50 | 0.2 | 31 | 0.1 |
| Total | 30,558 | 100.0 | 36,829 | 100.0 |

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

Table 7: Number of Households by Type of Material Used for Roofing, 2001 & 2012

| Material Used for Roofing | 2001 | | 2012 | |
|----------------------------------|---------------|----------------|---------------|----------------|
| | Count | Percent | Count | Percent |
| Sheet metal | 27,440 | 89.8 | 33,452 | 90.8 |
| Concrete | 1,567 | 5.1 | 2,688 | 7.3 |
| Shingle (asphalt) | 1,203 | 3.9 | 440 | 1.2 |
| Tile | 70 | 0.2 | 42 | 0.1 |
| Other Roofing Material | 279 | 0.9 | 207 | 0.6 |
| Total | 30,559 | 100 | 36,829 | 100 |

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

CLIMATE & AIR



Table 8: Temperature and Humidity, 2008 to 2012

| <u>Year</u> | <u>Quarter</u> | TEMPERATURE °C | | | | | Mean Relative Humidity (%) |
|-------------|----------------|----------------|--------------|--------------|-----------------|-----------------|-------------------------------------|
| | | Mean Temp. | Mean Max. | Mean Min. | Extreme Max. | Extreme Min. | |
| 2008 | Jan - Mar | 25.6 | 30.1 | 21.1 | 30.5 | 20.6 | 72 |
| | Apr - Jun | 27.0 | 31.1 | 22.9 | 31.2 | 22.0 | 72 |
| | Jul - Sept | 27.9 | 32.2 | 23.6 | 32.6 | 23.4 | 77 |
| | Oct - Dec | 27.8 | 32.7 | 23.0 | 33.5 | 22.5 | 73 |
| 2009 | Jan - Mar | 26.2 | 30.5 | 21.9 | 31.2 | 20.3 | 71 |
| | Apr - Jun | 27.2 | 31.3 | 23.0 | 31.9 | 22.1 | 77 |
| | Jul - Sept | 28.2 | 33.3 | 23.5 | 33.5 | 22.5 | 78 |
| | Oct - Dec | 27.7 | 32.1 | 23.3 | 32.8 | 23.0 | 71 |
| 2010 | Jan - Mar | 27.9 | 32.0 | 23.7 | 32.1 | 23.1 | 73 |
| | Apr - Jun | 28.1 | 32.3 | 23.8 | 32.6 | 23.6 | 77 |
| | 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 |
| 2011 | Jan - Mar | 26.0 | 30.5 | 21.4 | 30.7 | 20.6 | 72 |
| | Apr - Jun | 27.5 | 31.9 | 23.1 | 32.3 | 21.8 | 75 |
| | 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 |
| 2012 | Jan - Mar | 25.7 | 30.1 | 21.2 | 30.2 | 21.0 | 73 |
| | Apr - Jun | 27.1 | 31.1 | 23.1 | 31.5 | 22.8 | 77 |
| | Jul - Sept | 27.9 | 32.5 | 23.3 | 33.2 | 22.8 | 75 |
| | Oct - Dec | 27.3 | 32.3 | 22.3 | 33.0 | 21.0 | 76 |

Source: *St Vincent and the Grenadines' Meteorological Office*.

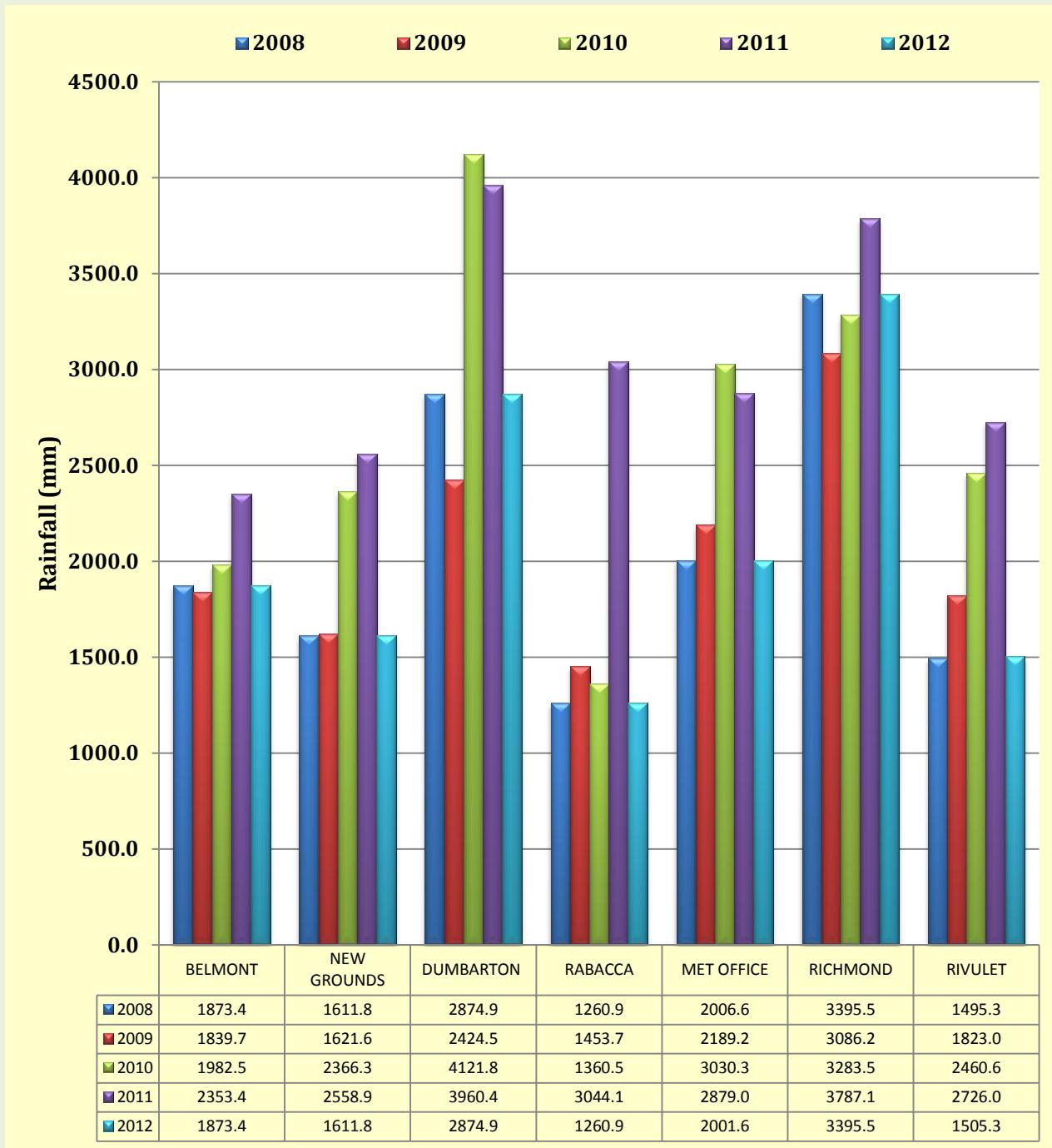
Table 9: Rainfall Recorded at Selected Agricultural Stations, 2008 to 2012

(mm)

| <u>Year</u> | <u>Quarter</u> | Location of Agricultural Station | | | | | |
|----------------|----------------|----------------------------------|----------------|----------------|----------------|----------------|----------------|
| | | Belmont | New Grounds | Dumbarton | Rabacca | Met Office | Richmond |
| 2008 | Jan - Mar | 339.3 | 246.4 | 406.7 | 217.7 | 425.0 | 685.6 |
| | Apr - Jun | 458.9 | 473.3 | 858.5 | 686.1 | 448.7 | 888.4 |
| | Jul - Sep | 669.1 | 384.9 | 645.4 | 357.1 | 526.4 | 1,073.5 |
| | Oct - Dec | 406.1 | 507.2 | 964.3 | 0.0 | 606.5 | 748.0 |
| | Total | 1,873.4 | 1,611.8 | 2,874.9 | 1,260.9 | 2,006.6 | 3,395.5 |
| 2009 | Jan - Mar | 422.5 | 279.5 | 463.8 | 298.4 | 445.8 | 615.7 |
| | Apr - Jun | 403.0 | 594.6 | 748.9 | 549.6 | 522.3 | 920.4 |
| | Jul - Sep | 659.6 | 453.0 | 903.5 | 421.9 | 869.9 | 929.7 |
| | Oct - Dec | 354.6 | 294.5 | 308.3 | 183.8 | 351.2 | 620.4 |
| | Total | 1,839.7 | 1,621.6 | 2,424.5 | 1,453.7 | 2,189.2 | 3,086.2 |
| 2010 | Jan - Mar | 109.5 | 147.4 | 116.2 | 48.4 | 133.1 | *115.7 |
| | Apr - Jun | 503.2 | 601.3 | 856.3 | 444.7 | 750.8 | 969.7 |
| | Jul - Sep | 744.7 | 646.5 | 1,260.0 | 508.0 | 979.0 | 1,186.9 |
| | Oct - Dec | 625.1 | 971.1 | 1,889.4 | 359.4 | 1,167.4 | 1,126.9 |
| | Total | 1,982.5 | 2,366.3 | 4,121.8 | 1,360.5 | 3,030.3 | 3,283.5 |
| 2011 | Jan - Mar | 341.6 | 425.1 | 606.8 | 442.3 | 510.4 | 741.1 |
| | Apr - Jun | 342.4 | 732.0 | 1,252.9 | 900.5 | 644.9 | 794.2 |
| | Jul - Sep | 1,064.3 | 782.9 | 1,058.8 | 822.7 | 976.7 | 1,250.2 |
| | Oct - Dec | 605.1 | 618.9 | 1,041.9 | 878.6 | 747.0 | 1,001.6 |
| | Total | 2,353.4 | 2,558.9 | 3,960.4 | 3,044.1 | 2,879.0 | 3,787.1 |
| 2012 | Jan - Mar | 339.3 | 246.4 | 406.7 | 217.7 | 425.0 | 685.6 |
| | Apr - Jun | 458.9 | 473.3 | 858.5 | 686.1 | 443.7 | 888.4 |
| | Jul - Sep | 669.1 | 384.9 | 645.4 | 357.1 | 526.4 | 1,073.5 |
| | Oct - Dec | 406.1 | 507.2 | 964.3 | 0.0 | 606.5 | 748.0 |
| | Total | 1,873.4 | 1,611.8 | 2,874.9 | 1,260.9 | 2,001.6 | 3,395.5 |
| 1,505.3 | | | | | | | |

Source: *St Vincent and the Grenadines' Meteorological Office.*

Figure 3 – Rainfall Recorded at Selected Agricultural Station, 2008 to 2012



Source: *St Vincent and the Grenadines' Meteorological Office*.

Table 10a: Summary of Green House Gas Emissions, 2004

| <u>GHG Source</u> | <u>Emissions (Gg)</u> | | | | | | |
|--|------------------------------|------------------------------|------------------------------|------------------------------|------------------|---------------------|------------------------------|
| | <u>CO₂</u> | <u>CH₄</u> | <u>N₂O</u> | <u>NO_x</u> | <u>CO</u> | <u>NMVOC</u> | <u>SO₂</u> |
| 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 10b: Summary of Green House Gas Emissions, 2004 con't.

| <u>GHG Source</u> | Emissions (Gg) | | | | | | |
|--|------------------------------|------------------------------|------------------------------|------------------------------|------------------|---------------------|------------------------------|
| | <u>CO₂</u> | <u>CH₄</u> | <u>N₂O</u> | <u>NO_x</u> | <u>CO</u> | <u>NMVOC</u> | <u>SO₂</u> |
| 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 ₂ 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 ₂ 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 11: Water Abstraction by Catchment Area, 2008 to 2012

'000 000 gals.

| <u>Water System</u> | <u>Year</u> | | | | |
|---------------------|--------------|--------------|--------------|--------------|--------------|
| | <u>2008</u> | <u>2009</u> | <u>2010</u> | <u>2011</u> | <u>2012</u> |
| Montreal | 270 | 288 | 296 | 277 | 274 |
| Majorca | 299 | 320 | 296 | 253 | 278 |
| Hermitage | 232 | 225 | 175 | 193 | 209 |
| Perseverance | 120 | 130 | 121 | 85 | 84 |
| Dalaway | 860 | 962 | 736 | 685 | 750 |
| Fancy | 6 | 8 | 9 | 6 | 10 |
| Owia | 16 | 16 | 15 | 13 | 13 |
| Sandy Bay | 50 | 51 | 45 | 38 | 36 |
| Layou | 55 | 56 | 68 | 47 | 50 |
| Mamoon | 0 | 0 | 0 | 12 | 24 |
| Jennings | 192 | 222 | 230 | 240 | 245 |
| Total | 2,099 | 2,278 | 1,991 | 1,850 | 1,973 |

Source: *Central Water and Sewage Authority (CWSA)*.**Table 12: Water Abstraction, 2008 to 2012**

'000 000 gals.

| <u>Period</u> | <u>Year</u> | | | | | |
|---------------|--------------|--------------|--------------|--------------|--------------|---------------|
| | <u>2008</u> | <u>2009</u> | <u>2010</u> | <u>2011</u> | <u>2012</u> | <u>Total</u> |
| Jan-Mar | 509 | 547 | 493 | 447 | 473 | 2,470 |
| Apr-Jun | 508 | 547 | 546 | 455 | 484 | 2,540 |
| Jul-Sep | 540 | 586 | 450 | 468 | 501 | 2,545 |
| Oct-Dec | 541 | 598 | 502 | 479 | 515 | 2,634 |
| Total | 2,099 | 2,278 | 1,991 | 1,850 | 1,973 | 10,191 |

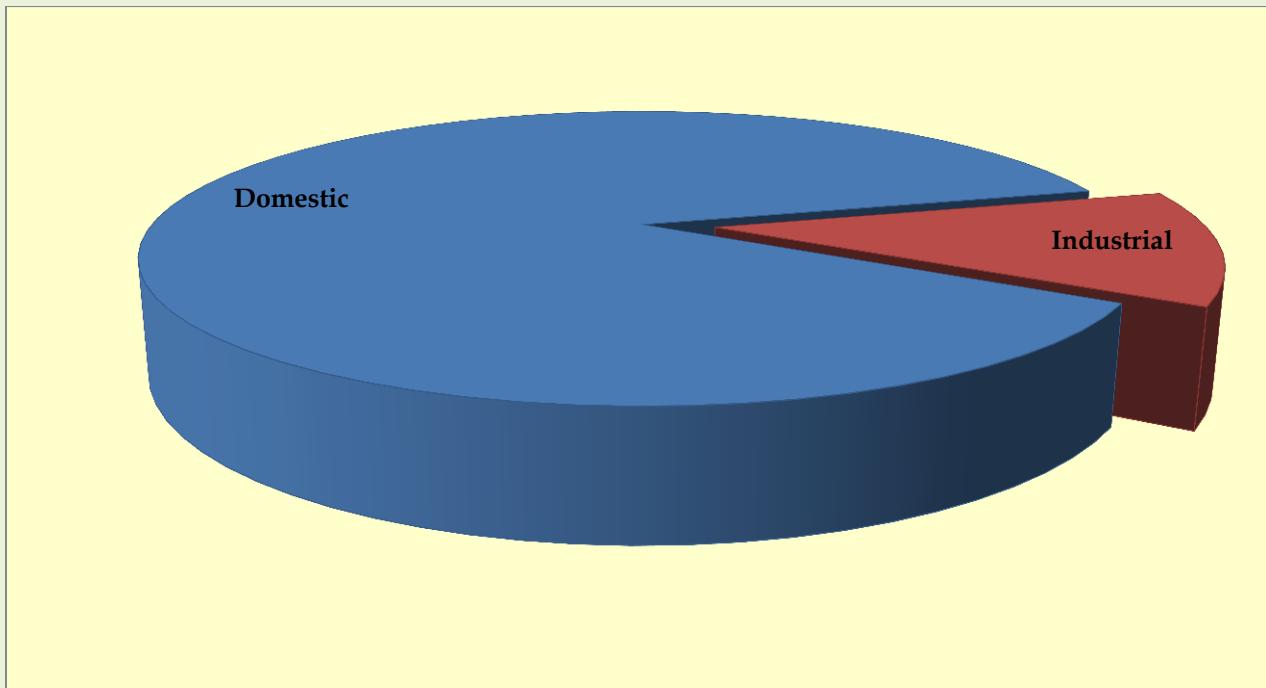
Source: *Central Water and Sewage Authority (CWSA)*.

Table 13: Potable Water Consumption, 2008 to 2012

| <u>Category</u> | Year | | | | |
|-------------------------------|-------------|-------------|-------------|-------------|-------------|
| | <u>2008</u> | <u>2009</u> | <u>2010</u> | <u>2011</u> | <u>2012</u> |
| DOMESTIC | | | | | |
| Consumption - Mil. gals | 1,006 | 1,040 | 1,050 | 1,025 | 1,029 |
| INDUSTRIAL(Ships) | | | | | |
| Consumption - Mil. gals | 7 | 8 | 6 | 6 | 5 |
| COMMERCIAL(Industrial) | | | | | |
| Consumption - Mil. gals | 145 | 149 | 136 | 142 | 141 |
| GOVERNMENT** | | | | | |
| Consumption - Mil. gals | 359 | 166 | 172 | na | na |

** Includes consumption for standpipes

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

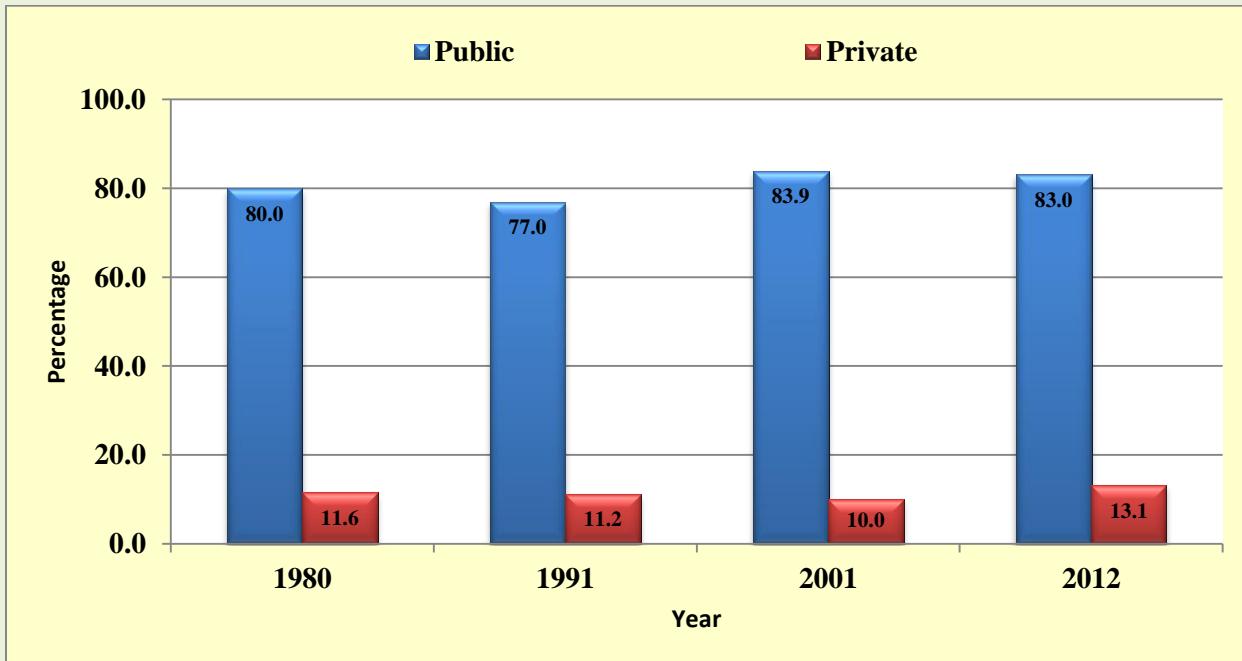
Figure 4 - Potable Water Consumption by Type of Use, 2012

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

Table 14: Distribution of Households by Source of Water Supply, 1980 – 2012

| <u>Type</u> | <u>Year</u> | | | |
|----------------------------|---------------|---------------|---------------|---------------|
| | <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 |
| <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 |
| Public Well/ Tank | 260 | 279 | 161 | 48 |
| Other | 1,158 | 2,914 | 1,707 | 1,103 |
| Not Stated | 299 | - | 0 | 286 |
| Total | 20,290 | 27,002 | 30,558 | 36,829 |

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

Figure 5 - Percentage of Households with Public and Private Water Supply, 1980 to 2012

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

PROTECTED MARINE & TERRESTRIAL AREAS



Table 15: Marine Statistics for St Vincent and the Grenadines

| <u>Marine Statistics</u> | <u>Unit</u> | <u>Size/Area</u> |
|--|-----------------|------------------|
| 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 | 98.2 |
| Proportion of Marine area under protection | % | 36.00% |

Source: *Ministry of Agriculture, Forestry and Fisheries*

Table 16: Protected Marine Areas in St Vincent and the Grenadines

| <u>Area Name</u> | <u>Area (ha)</u> | <u>Area (Km²)</u> | <u>Square Nautical 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 | |

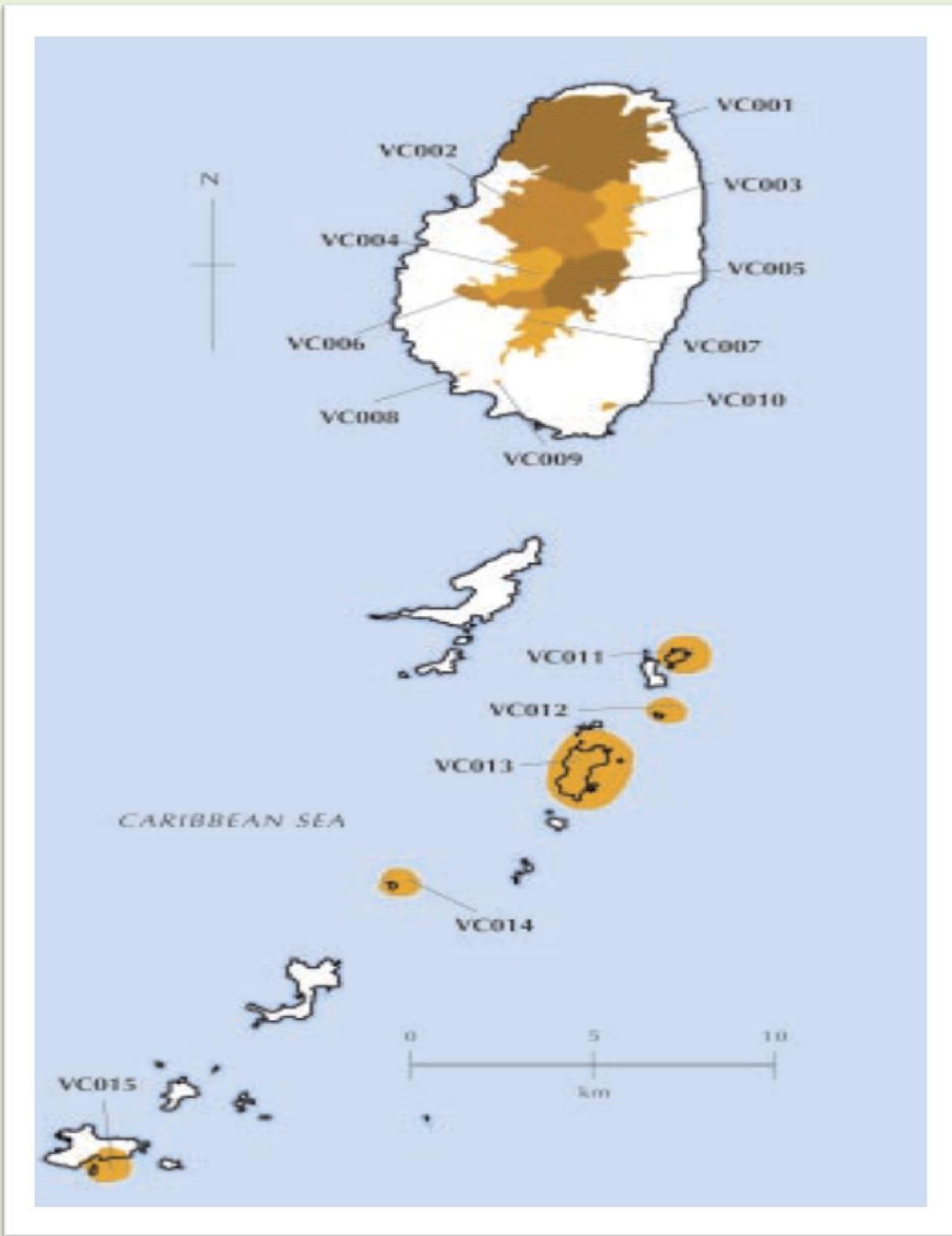
Source: *St Vincent and the Grenadines' National Parks, Rivers and Beaches Authority*

Table 17: Protected Terrestrial Area

| <u>Area Name</u> | <u>Size (ha)</u> | <u>Size (km²)</u> | <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: *St Vincent and the Grenadines' National Parks, Rivers and Beaches Authority*

Figure 6 - Important Bird Area in St. Vincent and the Grenadines



Source: National Parks, Rivers and Beaches Authority

Table 18: 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: *St Vincent and the Grenadines' National Parks, Rivers and Beaches Authority*

AGRICULTURE & LAND USE



Table 19: Selection of Commodities Produced by Weight, 2008 to 2012

| Agricultural Crops | Quantity (000'Kg) | | | | |
|--------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| | 2008 | 2009 | 2010 | 2011 | 2012 |
| | Quantity (000'Kg) |
| Arrowroot Rhizomes | 428 | 249 | 220 | 200 | 196 |
| Bananas | 20,230 | 17,630 | 10,002 | 1,747 | 1,843 |
| Dasheen | 3,493 | 3,964 | 3,719 | 4,974 | 5,034 |
| Eddoes | 1,027 | 1,085 | 1,455 | 1,553 | 1,751 |
| Ginger | 862 | 948 | 1,070 | 1,346 | 2,075 |
| Mace | 61 | 61 | 61 | 61 | 61 |
| Nutmegs | 388 | 374 | 286 | 245 | 251 |
| Peanuts/Groundnuts | 272 | 272 | 254 | 210 | 208 |
| Plantains | 2,812 | 2,994 | 2,622 | 1,719 | 2,155 |
| Sweet Potatoes | 1,456 | 1,882 | 2,540 | 2,712 | 3,012 |
| Tannias | 237 | 240 | 217 | 254 | 270 |
| Yams (other) | 998 | 1,089 | 322 | 1,082 | 1,241 |
| Yams (Portuguese) | 680 | 720 | 617 | 662 | 608 |
| Yams (White) | 249 | 261 | 1,016 | 390 | 515 |
| Yams (Yellow) | 48 | 59 | 65 | 67 | 65 |
| TOTAL | 33,241 | 31,828 | 24,466 | 17,222 | 19,287 |

Source: *Ministry of Agriculture, Forestry and Fisheries***Table 20: Livestock Slaughtered, 2008 to 2012**

| Year | Cows & Bulls (Beef) | | Pigs (Pork) | | Sheep & Goat (Mutton) | |
|------|---------------------|----------------------|-----------------|----------------------|------------------------|----------------------|
| | Number of Heads | Dressed Weight (lbs) | Number of Heads | Dressed Weight (lbs) | Number of Heads | Dressed Weight (lbs) |
| 2008 | 171 | 68,090 | 198 | 36,758 | 281 | 8,370 |
| 2009 | 195 | 65,490 | 200 | 37,264 | 522 | 12,535 |
| 2010 | 186 | 60,777 | 206 | 36,341 | 632 | 16,632 |
| 2011 | na | na | na | na | na | na |
| 2012 | na | na | na | na | na | na |

Source: *Ministry of Agriculture, Forestry and Fisheries*

Table 21: Forest Classification In St Vincent and the Grenadines

| Forest Location | Land Cover Class | Area (Ha) | Total Forest Percent | % by land Cover class |
|--|-----------------------------|-----------|----------------------|-----------------------|
| Outside Protected Areas | Cloud Forests | 184 | 0.6 | 4 |
| | Forest Cloud Elfin | 23 | 0.1 | 8 |
| | Forest Cloud Transitional | 341 | 1.1 | 16 |
| | Forest Cloud Deciduous | 4558 | 15.1 | 83 |
| | Forest Evergreen & Seasonal | 8078 | 26.7 | 76 |
| | Forest Plantation | 12 | 0.04 | 11 |
| | Forest Semi Deciduos | 2691 | 8.9 | 96 |
| | Mangrove | 13 | 0.04 | 32 |
| | Cloud Forests | 1783 | 5.9 | 43 |
| Inside Proposed Protected Areas | Forest Cloud Elfin | 275 | 0.9 | 89 |
| | Forest Cloud Transitional | 863 | 2.9 | 41 |
| | Forest Cloud Deciduous | 403 | 1.3 | 7 |
| | Forest Evergreen & Seasonal | 4749 | 15.7 | 45 |
| | Forest Plantation | 8 | 0.03 | 7 |
| | Forest Semi Deciduos | 63 | 0.2 | 2 |
| | Mangrove | 2 | 0.01 | 5 |
| | Cloud Forests | 2153 | 7.1 | 52 |
| | Forest Cloud Elfin | 11 | 0.04 | 3 |
| Inside designated Protected Areas | Forest Cloud Transitional | 879 | 2.9 | 42 |
| | Forest Cloud Deciduous | 511 | 1.7 | 9 |
| | Forest Evergreen & Seasonal | 2523 | 8.3 | 24 |
| | Forest Plantation | 89 | 0.3 | 82 |
| | Forest Semi Deciduos | 34 | 0.1 | 1 |
| | Mangrove | 24 | 0.1 | 62 |

Source: *Ministry of Agriculture, Forestry and Fisheries*

FISHING

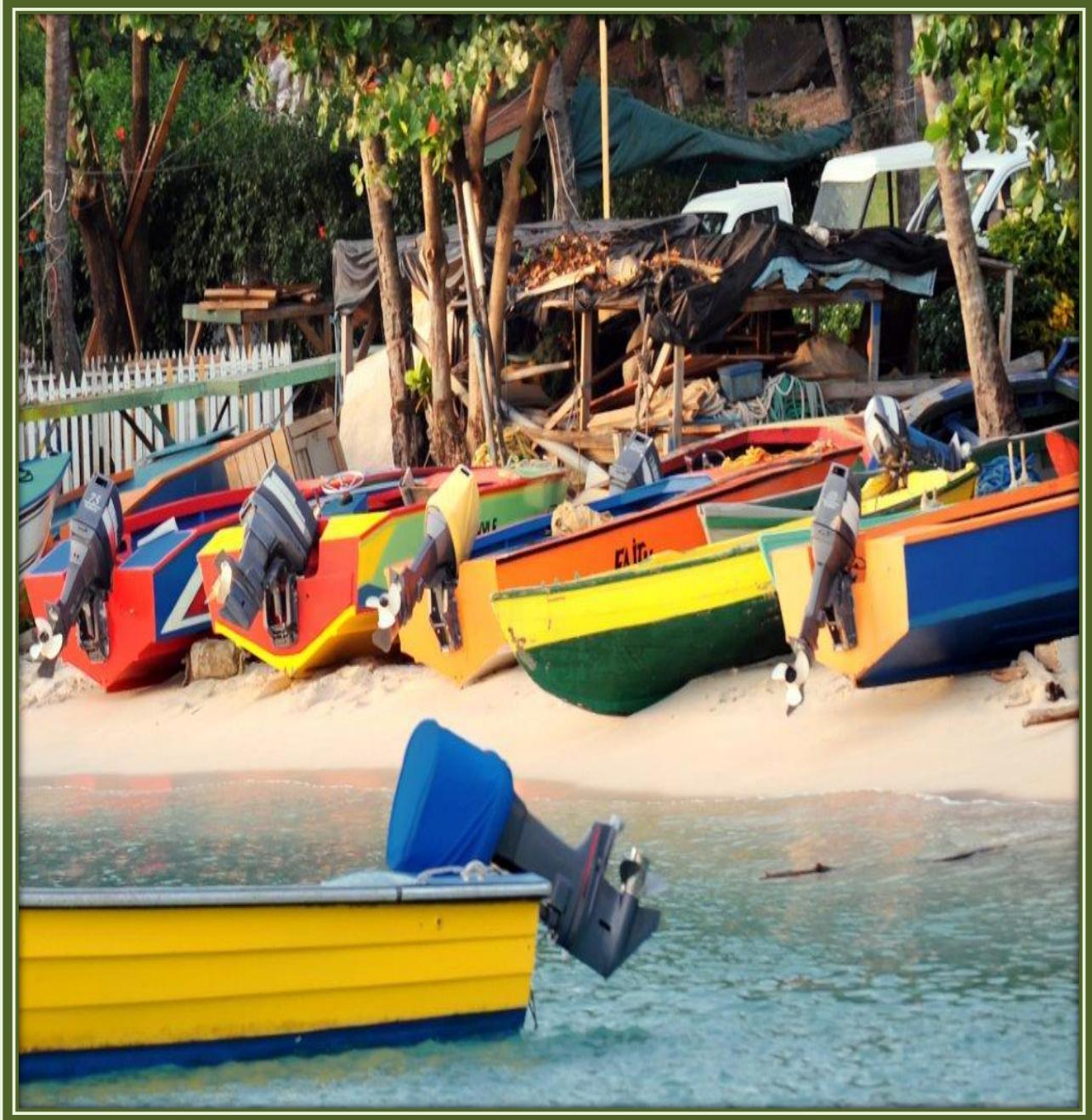


Table 22: Registered Fishing Vessels and Fishermen, 1995 to 2012

| <u>Year</u> | 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 |

Source: *Ministry of Agriculture, Forestry and Fisheries*

Table 23: Fish Landed by Type, 2008 to 2012

| Type | 2008 | | 2009 | | 2010 | | 2011 | | 2012 | |
|---------------|------------------|------------------|------------------|-------------------|------------------|------------------|------------------|------------------|------------------|------------------|
| | Qty. (lbs) | Value (\$EC) | Qty. (lbs) | Value (\$EC) | Qty. (lbs) | Value (\$EC) | Qty. (lbs) | Value (\$EC) | Qty. (lbs) | Value (\$EC) |
| Conch | 32,786 | 82,714 | 38,597 | 317,388 | 55,901 | 475,494 | 21,391 | 176,316 | 23,128 | 185,101 |
| Lobster | 7,156 | 132,836 | 29,478 | 470,625 | 15,656 | 246,024 | 1,579 | 27,558 | 29,399 | 403,006 |
| Turtle | 207 | 636 | 560 | 3,334 | 644 | 3,275 | 0 | 0 | 222 | 1,552 |
| Whale | 509 | 2,060 | 675 | 1,715 | 0 | 0 | 440 | 1,760 | 950 | 3,425 |
| Shark | 8,120 | 42,369 | 10,891 | 58,283 | 15,769 | 88,511 | 9,449 | 57,163 | 13,597 | 76,528 |
| Balahoo | 86,098 | 122,528 | 129,644 | 258,490 | 93,931 | 184,803 | 73,936 | 142,803 | 85,840 | 168,830 |
| Bonito | 58,493 | 391,284 | 32,698 | 219,253 | 12,270 | 88,776 | 37,571 | 274,144 | 25,460 | 182,552 |
| Cavalli | 46,635 | 324,657 | 20,260 | 137,653 | 25,857 | 198,284 | 16,832 | 121,535 | 35,312 | 249,854 |
| Dolphin | 200,203 | 1,518,749 | 244,601 | 1,753,129 | 134,068 | 1,072,745 | 176,421 | 1,486,735 | 191,248 | 1,707,601 |
| Jacks | 60,487 | 228,069 | 303,415 | 976,172 | 197,032 | 649,772 | 273,584 | 884,689 | 146,153 | 484,319 |
| Kingfish | 52,145 | 404,831 | 69,165 | 456,263 | 80,221 | 642,214 | 60,069 | 498,767 | 61,896 | 541,424 |
| Porpoise | 4,370 | 19,120 | 1,690 | 8,130 | 880 | 4,740 | 650 | 2,600 | 680 | 2,940 |
| Red Hind | 127,865 | 940,947 | 120,912 | 851,089 | 96,982 | 735,066 | 52,038 | 421,109 | 46,314 | 396,969 |
| Red Snapper | 13,154 | 103,388 | 43,078 | 358,526 | 18,055 | 78,312 | 19,193 | 156,753 | 14,295 | 113,654 |
| Robin | 253,005 | 1,011,156 | 520,866 | 1,724,659 | 360,458 | 1,122,021 | 324,822 | 1,040,756 | 199,774 | 769,469 |
| Skip Jack | 182,285 | 935,050 | 114,475 | 629,700 | 53,949 | 352,046 | 90,772 | 628,208 | 61,980 | 440,270 |
| Other Species | 268,217 | 1,921,088 | 445,259 | 2,249,777 | 229,339 | 1,481,418 | 213,858 | 1,409,757 | 211,129 | 1,220,446 |
| TOTAL | 1,401,735 | 8,181,482 | 2,126,264 | 10,474,186 | 1,391,012 | 7,423,501 | 1,372,605 | 7,330,653 | 1,147,377 | 6,947,940 |

Source: Ministry of Agriculture, Forestry and Fisheries

ENERGY AND FUEL

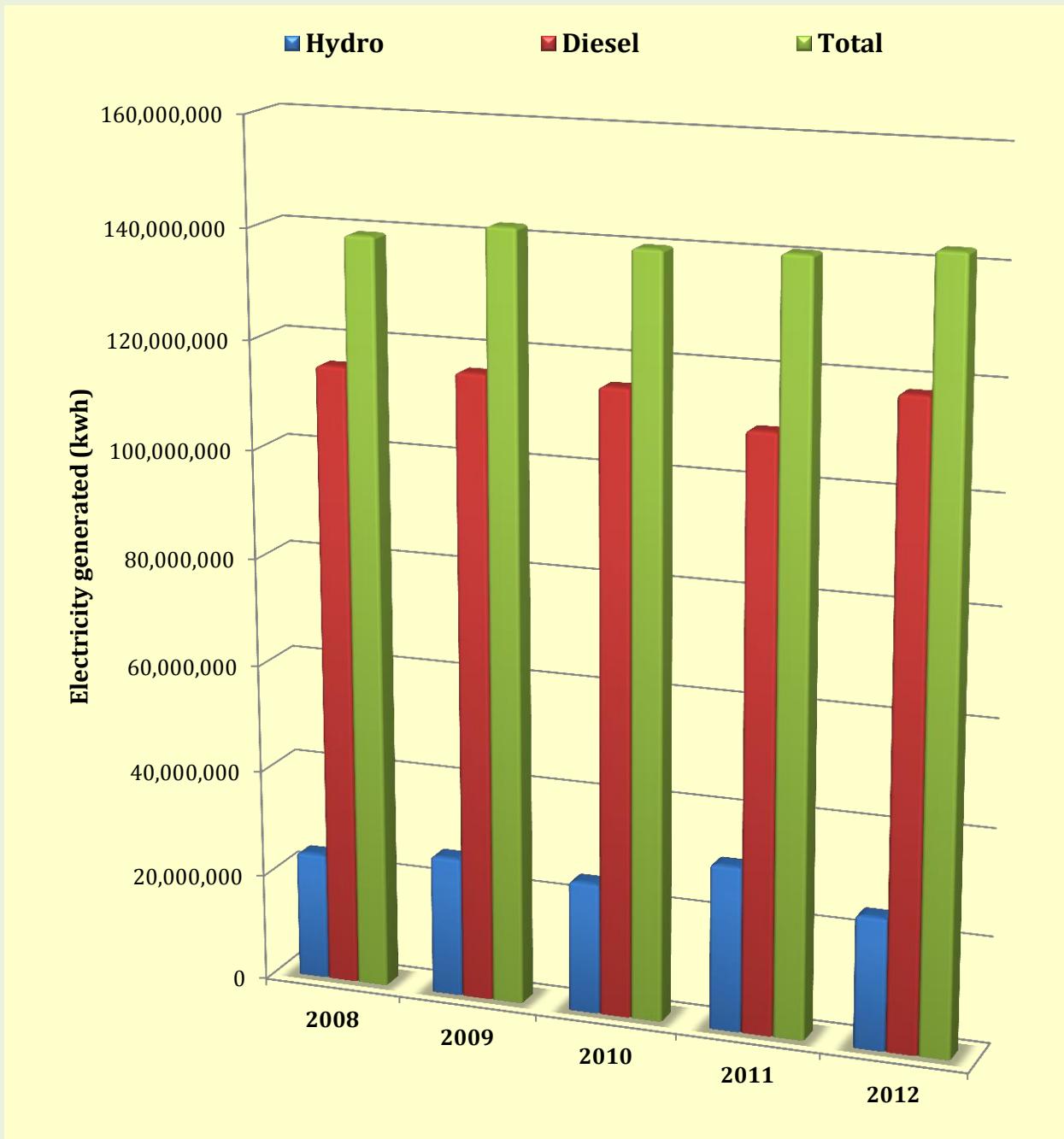


Table 24: Electricity Generation, Sales and Consumers, 2008 to 2012

| DESCRIPTION | Year | | | | |
|----------------------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| | <u>2008</u> | <u>2009</u> | <u>2010</u> | <u>2011</u> | <u>2012</u> |
| GENERATION (KWH) | | | | | |
| Hydro | 23,673,460 | 26,107,890 | 24,505,990 | 30,910,393 | 24,688,510 |
| Diesel | 115,455,782 | 116,104,891 | 115,481,699 | 109,798,084 | 118,099,077 |
| Total | 139,129,242 | 142,212,781 | 139,987,689 | 140,708,477 | 142,787,587 |
| Fuel used in Generation (gals) | 6,427,744 | 6,500,186 | 6,472,254 | 6,146,785 | 19,907,977 |
| DISTRIBUTION (KWH) | | | | | |
| Domestic | 55,532,302 | 57,854,242 | 61,162,470 | 60,147,625 | 60,516,362 |
| Commercial | 58,280,375 | 49,887,661 | 44,558,969 | 46,465,719 | 48,914,600 |
| Industry | 6,183,035 | 6,600,486 | 6,735,589 | 6,707,112 | 6,276,922 |
| Street Lighting | 2,929,342 | 2,934,957 | 2,979,159 | 3,086,329 | 3,165,738 |
| Public Authorities | 9,800,312 | 9,171,025 | 10,046,769 | 9,348,110 | 9,693,437 |
| Other Company Needs | 5,003,096 | 4,957,984 | 4,706,254 | 4,778,449 | 4,925,202 |
| Loss in Transmission | 11,201,092 | 10,741,712 | 9,798,488 | 10,118,719 | 9,209,207 |
| SALES (KWH) | | | | | |
| Domestic | 55,532,302 | 57,854,242 | 46,469,817 | 59,283,810 | 58,120,770 |
| Commercial | 58,280,375 | 49,885,661 | 33,056,651 | 51,040,696 | 56,094,680 |
| Industry | 6,183,035 | 4,825,473 | 5,045,337 | 6,705,314 | 6,417,686 |
| Street Lighting | 2,929,342 | 2,924,957 | 740,784 | 3,473,782 | 3,576,246 |
| CONSUMERS AT THE YEAR END | | | | | |
| Domestic | 34,495 | 35,218 | 35,571 | 35,970 | 36,292 |
| Commercial | 4,208 | 4,239 | 4,264 | 4,377 | 4,395 |
| Industrial | 27 | 26 | 24 | 22 | 20 |
| Street Lighting | 48 | 48 | 48 | 48 | 47 |
| Total | 38,778 | 39,531 | 39,907 | 40,417 | 40,754 |

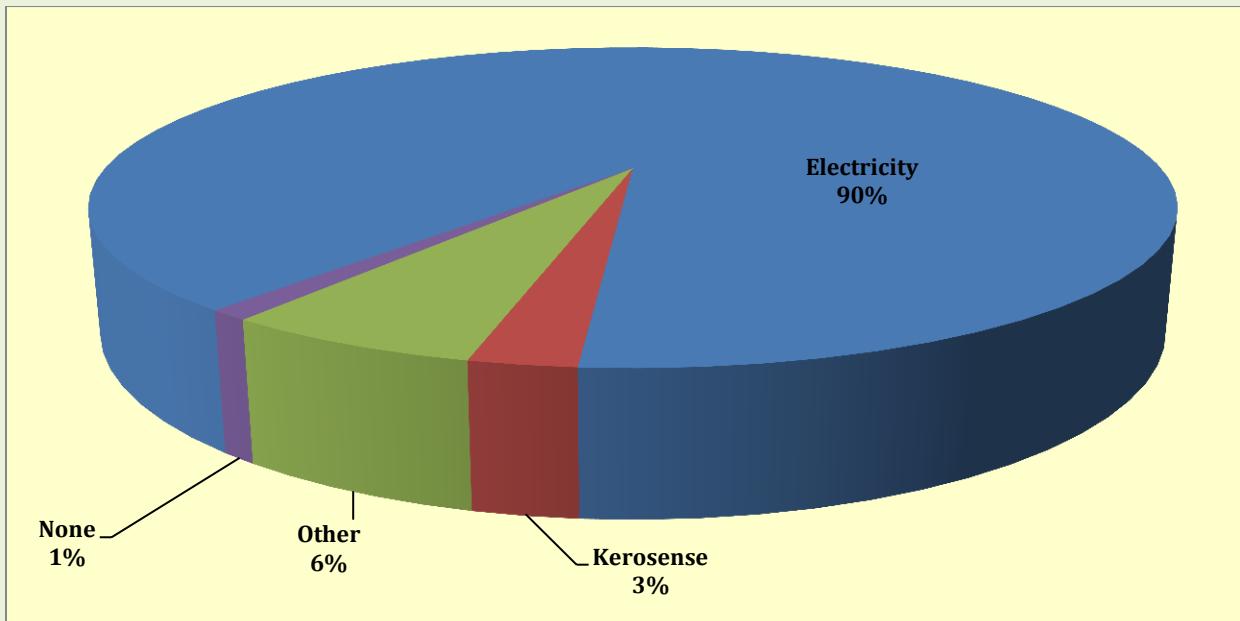
Source: *St Vincent Electricity Services (VINLEC)*

Figure 7 - Electricity by Source of Generation



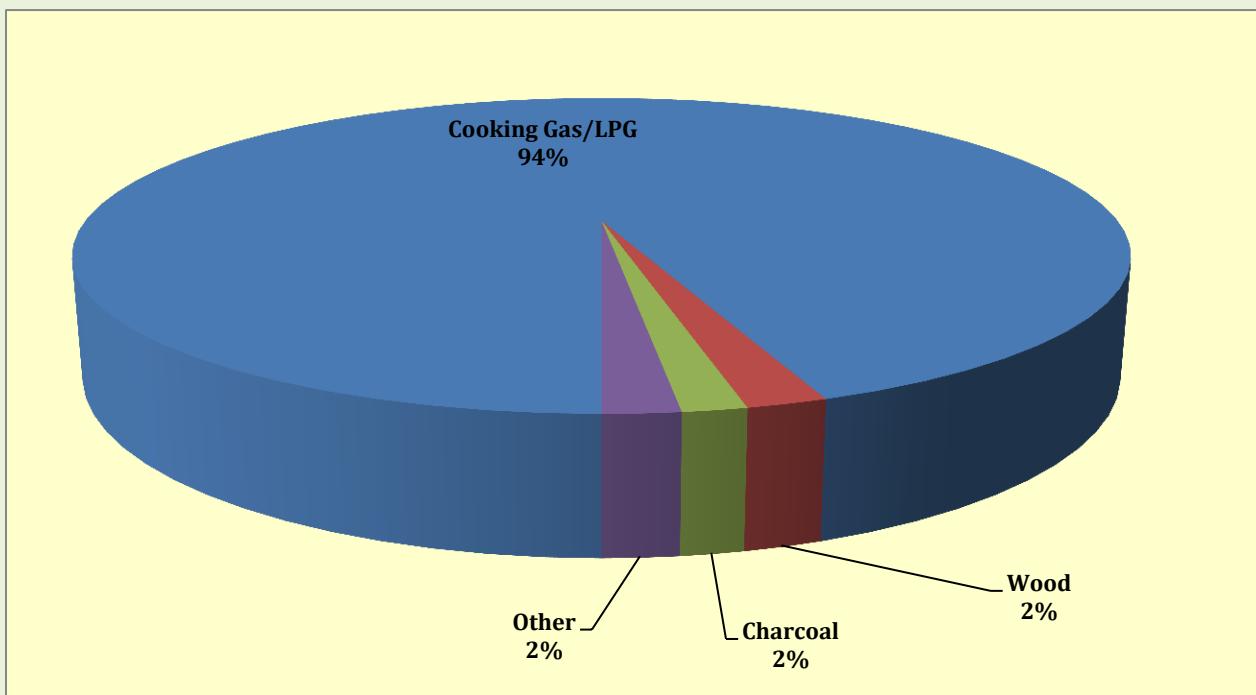
Source: *St Vincent Electricity Services (VINLEC)*

Figure 8 - Main Type of Lighting Used by Households, 2012



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

Figure 9 - Main Type of Fuel Used for Cooking by Households, 2012



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

Table 25: Fuel Imported by Type, Weight and Value 2008 to 2012

| Fuel | Year | | | | | Quantity (m ³) |
|--------------|---------------|----------------|---------------|---------------|----------------|-----------------------------|
| | <u>2008</u> | <u>2009</u> | <u>2010</u> | <u>2011</u> | <u>2012</u> | |
| Gasoline | 29,461 | 42,629 | 31,265 | 30,374 | 29,443 | |
| Dieseline | 42,623 | 73,207 | 52,128 | 53,951 | 63,366 | |
| Kerosene | 702 | 0 | 1 | 2 | 0 | |
| LPG | 4,816 | 10,281 | 7,495 | 7,057 | 10,410 | |
| TOTAL | 77,602 | 126,117 | 90,889 | 91,384 | 103,219 | |

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

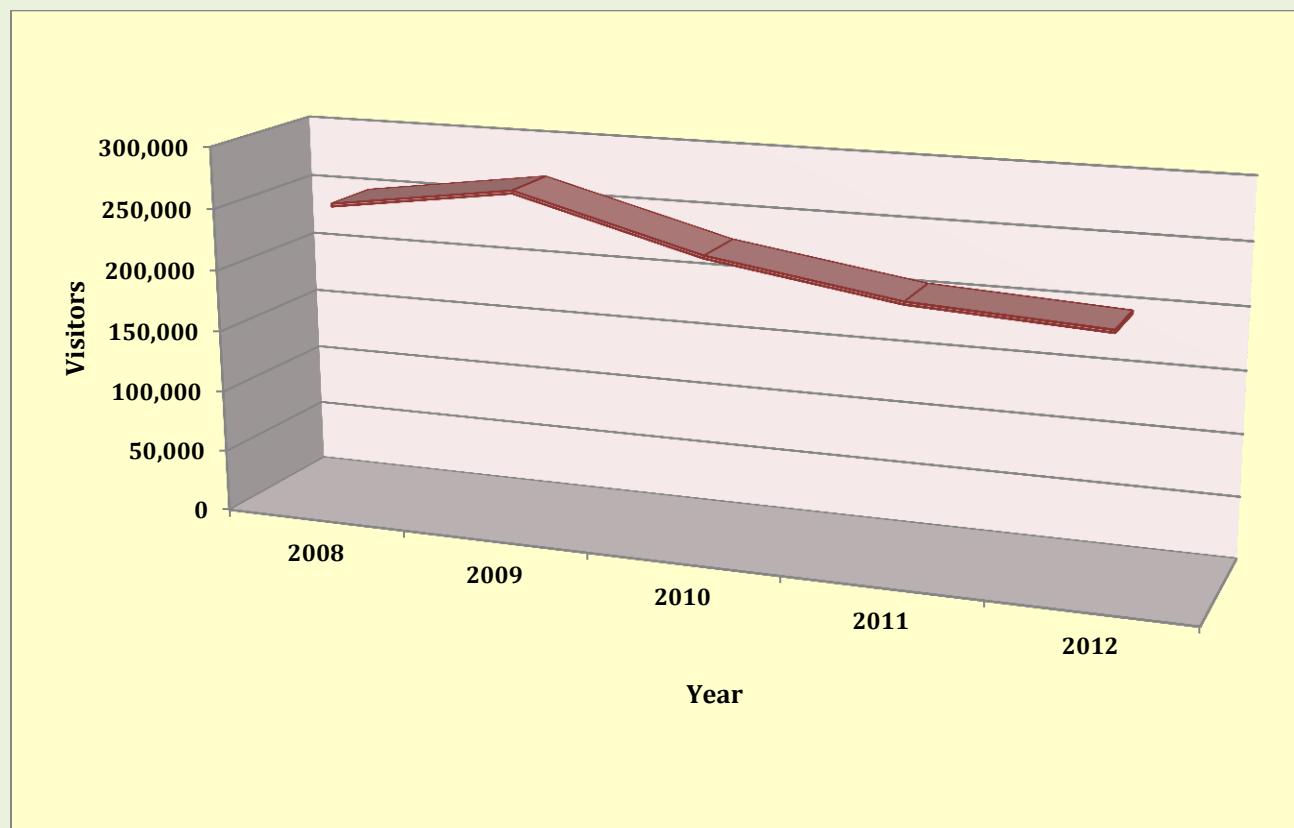
TOURISM



Table 26: Tourist Penetration Ratio and Tourist Intensity, 2008 to 2012

| <u>Year</u> | Total No. of Visitors | Total Mid-Year Population (Estimate) | Average Length of Stay (days) | Penetration Ratio (%) | Tourist intensity (%) |
|-------------|-----------------------|--------------------------------------|-------------------------------|-----------------------|-----------------------|
| 2008 | 249,868 | 109,639 | 11.7 | 15.5 | 4.4 |
| 2009 | 270,952 | 109,727 | 11.7 | 16.8 | 4.8 |
| 2010 | 231,121 | 109,815 | 11.7 | 14.4 | 4.1 |
| 2011 | 207,997 | 109,903 | 11.1 | 12.3 | 3.7 |
| 2012 | 199,840 | 109,991 | 11.1 | 11.8 | 3.5 |

Source: *St Vincent and the Grenadines Tourism Authority*

Figure 10 - Total Number of Visitors by Year of Visit

Source: *St Vincent and the Grenadines Tourism Authority*

Table 27: Stay-Over Visitors by Type of Accommodation, 2008 to 2012

| <u>Year</u> | <u>Type of Accommodation</u> | | | | | | <u>Total</u> |
|-------------|------------------------------|-------------------|---------------------|----------------|----------------------|-------------------------|--------------|
| | <u>Hotels</u> | <u>Apartments</u> | <u>Guest Houses</u> | <u>Resorts</u> | <u>Private Homes</u> | <u>Other/Not Stated</u> | |
| 2008 | 12,499 | 2,582 | 723 | 15,114 | 43,604 | 9,579 | 84,101 |
| 2009 | 12,077 | 2,461 | 1,034 | 13,181 | 39,878 | 6,815 | 75,446 |
| 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 |

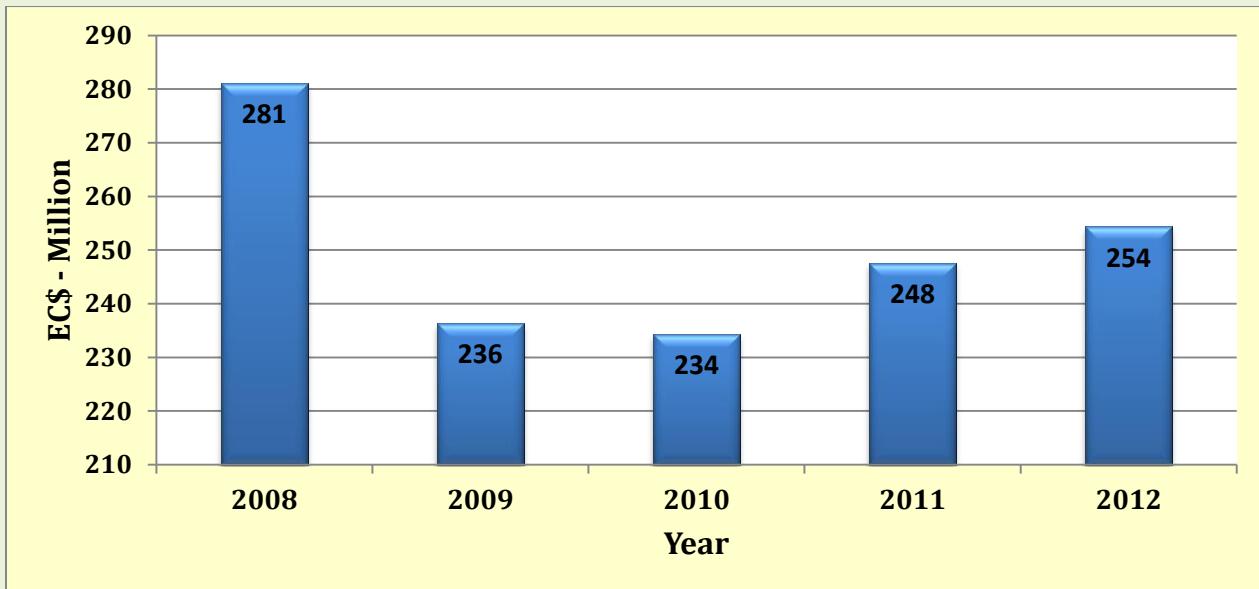
Source: *St Vincent and the Grenadines Tourism Authority*

Table 28: Selected Visitor Statistics, 2008 to 2012

| | <u>Year</u> | | | | |
|-------------------------------|----------------|----------------|----------------|----------------|----------------|
| | <u>2008</u> | <u>2009</u> | <u>2010</u> | <u>2011</u> | <u>2012</u> |
| Total Tourist arrivals | 249,868 | 270,952 | 231,121 | 207,997 | 199,840 |
| Cruise Ship Passengers | 116,709 | 149,462 | 110,954 | 88,924 | 77,179 |
| Stay over visitors | 84,101 | 75,446 | 72,478 | 73,866 | 74,364 |
| Yacht passengers | 43,277 | 40,859 | 42,603 | 41,266 | 45,246 |
| Same day visitors | 5,781 | 5,185 | 5,086 | 3,941 | 3,051 |
| Average length of stay | 11.7 | 11.7 | 11.7 | 11.1 | 11.1 |
| Cruise Ship calls | 172 | 164 | 131 | 136 | 173 |

Source: *St Vincent and the Grenadines Tourism Authority*

Figure 11 - Total Visitor Expenditure, 2008 to 2012



Source: *St Vincent and the Grenadines Tourism Authority*

WASTE



Table 29: Waste Disposed by Type of Waste, 2008 to 2012

| <u>Waste Category</u> | <u>Year</u> | | | | | <u>Quantity (m³)</u> |
|---------------------------------|---------------|---------------|---------------|----------------|---------------|----------------------|
| | <u>2008</u> | <u>2009</u> | <u>2010</u> | <u>2011</u> | <u>2012</u> | <u>TOTAL</u> |
| Green Waste | 0 | 24,046 | 15,259 | 35,197 | 15,916 | 90,418 |
| Commercial Waste | 26,997 | 32,075 | 29,718 | 32,456 | 30,650 | 151,896 |
| Household & Institutional Waste | 22,595 | 27,069 | 31,798 | 30,527 | 26,690 | 138,679 |
| Construction & Demolition Waste | 4,707 | 9,310 | 7,290 | 7,570 | 2,171 | 31,048 |
| TOTAL | 54,299 | 92,500 | 84,065 | 105,750 | 75,427 | 412,041 |

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

Table 30: Waste by Type of Disposal, 2008 to 2012

| <u>Type of Disposal</u> | <u>Quantity (m³)</u> | | | | | <u>TOTAL</u> |
|-------------------------|----------------------|---------------|---------------|----------------|---------------|----------------|
| | <u>2008</u> | <u>2009</u> | <u>2010</u> | <u>2011</u> | <u>2012</u> | |
| Landfill | - | 92,355 | 83,683 | 105,674 | 75,363 | 357,075 |
| Composting | - | 145 | 382 | 76 | 64 | 667 |
| TOTAL | - | 92,500 | 84,065 | 105,750 | 75,427 | 357,742 |

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

Table 31: Waste Exported from St Vincent and the Grenadines for Recycling, 2008 to 2012

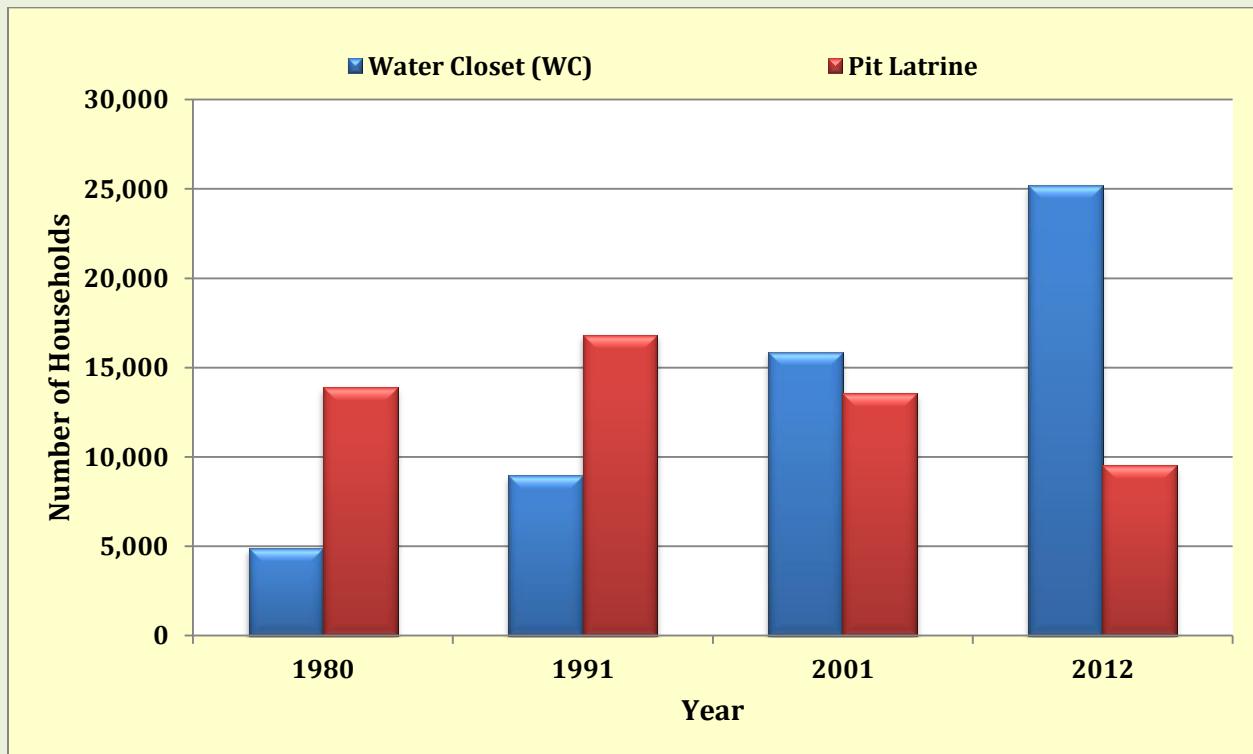
| <u>Waste</u> | <u>Weight (Kg)</u> | | | | |
|---|--------------------|----------------|------------------|------------------|------------------|
| | <u>2008</u> | <u>2009</u> | <u>2010</u> | <u>2011</u> | <u>2012</u> |
| Waste, parings and scrap, of polymers of ethylene. | 0 | 0 | 0 | 0 | 225 |
| Waste, parings and scrap, of polymers of vinyl chloride. | 0 | 0 | 20,980 | 0 | 0 |
| Waste, parings and scrap, of plastics other than polymers of ethylene, etc. | 0 | 0 | 5,000 | 18,266 | 450 |
| Other paper or paperboard made mainly of bleached chemical pulp, etc. | 13 | 0 | 0 | 0 | 0 |
| Other recovered paper or paperboard, including unsorted waste and scrap. | 0 | 0 | 168,110 | 201,152 | 81,300 |
| Waste and scrap of cast iron. | 59,900 | 0 | 0 | 1,538,448 | 541,509 |
| Waste and scrap of stainless steel. | 0 | 800 | 0 | 99,745 | 0 |
| Waste and scrap of alloy steel, other than of stainless steel. | 92,266 | 123,396 | 602,476 | 1,001,201 | 1,297,870 |
| Waste and scrap of tinned iron or steel. | 0 | 131,120 | 2,069,969 | 347,182 | 120,000 |
| Other ferrous waste and scrap not elsewhere specified or included. | 0 | 0 | 84,050 | 15,000 | 262,435 |
| Copper waste and scrap. | 41,217 | 21,491 | 0 | 13,179 | 0 |
| Aluminium waste and scrap. | 15,714 | 38,000 | 70,250 | 48,886 | 120,590 |
| Lead waste and scrap. | 0 | 100 | 0 | 329 | 0 |
| Waste and scrap of magnesium. | 0 | 0 | 20,000 | 0 | 0 |
| TOTAL | 209,110 | 314,907 | 3,040,835 | 3,283,387 | 2,424,380 |

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

Table 32: Number of Households by Type of Toilet Facility, 2008 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: *Statistical Office of St Vincent and the Grenadines*.

Figure 12 - Number of Households by Type of Toilet Facility

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

NATURAL DISASTER



Table 33a: Natural Disasters, 2002 to 2012

| Year | Natural Disaster | Type | Economic Loss (EC\$M) | Human Loss | Social Impact | Comments |
|------|--|-------------|-----------------------|------------|--|--|
| 2002 | Tropical Storm Lili | | EC\$9 | 4 | 24 houses completely destroyed. 10,000 affected | |
| 2004 | Hurricane Ivan | | EC\$M100 | 0 | 56 houses completely destroyed | Over 400 families earmarked for relocation along the Eastern coast |
| 2005 | Landslide (Bequia) | | | 2 | | |
| | Hurricane Emily and landslides | | EC\$M 10 | 1 | 533 houses severely damaged, 18 houses completely destroyed. | |
| 2007 | Hurricane Dean | | EC\$M 2.2 | 0 | | 10% banana crops destroyed, 7 houses destroyed, 6 fishing boats destroyed, extreme costal inundation |
| 2008 | Heavy rains | - | | 1 | 1,000 affected | - |
| | Landslide and Hurricane Omar/storm surge | Storm Surge | EC\$M 5.6 | 0 | | 30 boats destroyed |

Source: *St Vincent and the Grenadines' National Emergency Management Organization (NEMO)*

Table 33b: Natural Disasters, 2002 to 2012 Cont'd

| Year | Natural Disaster | 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 |
| | Hurricane Tomas | Wind Damage | EC\$130M | 0 | 250 homes affected | |
| 2011 | Tropical Wave (1st August) | Landslide and Flooding | N/A | 0 | 56 homes affected, 1 destroyed | 34 landslides, 22 homes flooded, 14 retaining walls collapsed |
| | 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 | |
| 2012 | Heavy rains | Landslide | N/A | 0 | 39 landslides reported, 1 home destroyed | 14 homes damaged |
| | | Flooding | N/A | 0 | 11 homes flooded | |

Source: *St Vincent and the Grenadines' National Emergency Management Organization (NEMO)*

BIODIVERSITY



Table 34: St Vincent and the Grenadines' Biodiversity Facts

| Species | Number of Species | Comments |
|-------------|-------------------|---|
| Mammals | 17 | 14 species of bats. |
| Birds | 190 | Two island endemics, the St. Vincent Parrot (<i>Amazona guildingii</i>) and the Whistling Warbler (<i>Catharopeza bishopi</i>) and over 14 regional endemics. Two endemic subspecies of <i>Myadestes genibarbis</i> and <i>Troglodytes aedon</i> also exist. |
| Reptiles | 21 | Including 5 endemics, - four lizards: <i>Anolis griseus</i> , <i>Anolis trinitatis</i> , <i>Sphaerodactylus kirbyi</i> (endemic to Bequia and Mustique), and <i>Gonatodes daudini</i> (endemic to Union Island) and one snake - the Black Snake (<i>Chironius vincentii</i>). There are 4 species of turtles, Hawksbill (<i>Eretmochelys imbricata</i>), Green (<i>Chelonia mydas</i>), Loggerhead (<i>Caretta caretta</i>) and Leatherback (<i>Dermochelys coraica</i>). Two of the 21 species are apparently recent invasive species. |
| Amphibians | 4 | One endemic, <i>Pristemantis shrevei</i> , and two invasive species. |
| Plants | 1600 | 1,150 species of flowering plants with 16 endemics. There are 163 species of ferns, 4 are endemic, including the Tree Fern (<i>Cyathea tenera</i>) found on the uppermost ridges within cloud and rain forests. |
| Fresh water | 25 | Fresh and brackish water species. |
| Marine | 500 | This includes 450 species of finfish, 12 species of whales and dolphins, 4 species of turtles, 9 species of gastropods, 11 species of seaweed and 30 species of corals recorded. There is also 1 invasive species of fish, i.e the lionfish (<i>Pterois volitans</i> , <i>Pterois miles</i>) and 1 invasive species of seagrass (<i>Halophila stipulacea</i>)and the invasive species of brittle star (<i>Ophiothela mirabilis</i>). |
| Other | 25 | 25 species of 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 country. |
| | 875 | 875 species of molluscs (75 terrestrial and aquatic, 800 marine) exists. |
| | 16 | 16 species of nematodes have been recorded for Union Island alone. |

Source: *St Vincent and the Grenadines' National Parks, Rivers & Beaches Authority*

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