



Commonwealth of Dominica

# Environmental Statistics Report 2008



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DOMINICA*



## PREFACE

This is the third issue of the Environmental Statistics Compendium for Dominica. The data have been collected from various sources, and represents the main environmental concerns of economists, natural resource managers and other decision-makers.

Some of the topics covered include Climate, Population, Biodiversity, Energy, Waste and Water.

The Environmental Statistics Compendium will be published on a two-year interval (from a previous three - year interval). Additional information will be included as it becomes available and slight changes may be made as necessary. New information on Registered Farmers by Parish and Size of Farm, Livestock Production by Number and Weight Inspected, Solid Waste Disposal by Month and Type of Waste, Per Capita Household Waste Disposal and Natural Disasters by Estimated Damage are included in this issue.

The Central Statistical Office expresses great appreciation to all those who assisted in providing the relevant information for the compilation of this issue. Any comments and suggestions from users, which will improve future publications will be welcomed.

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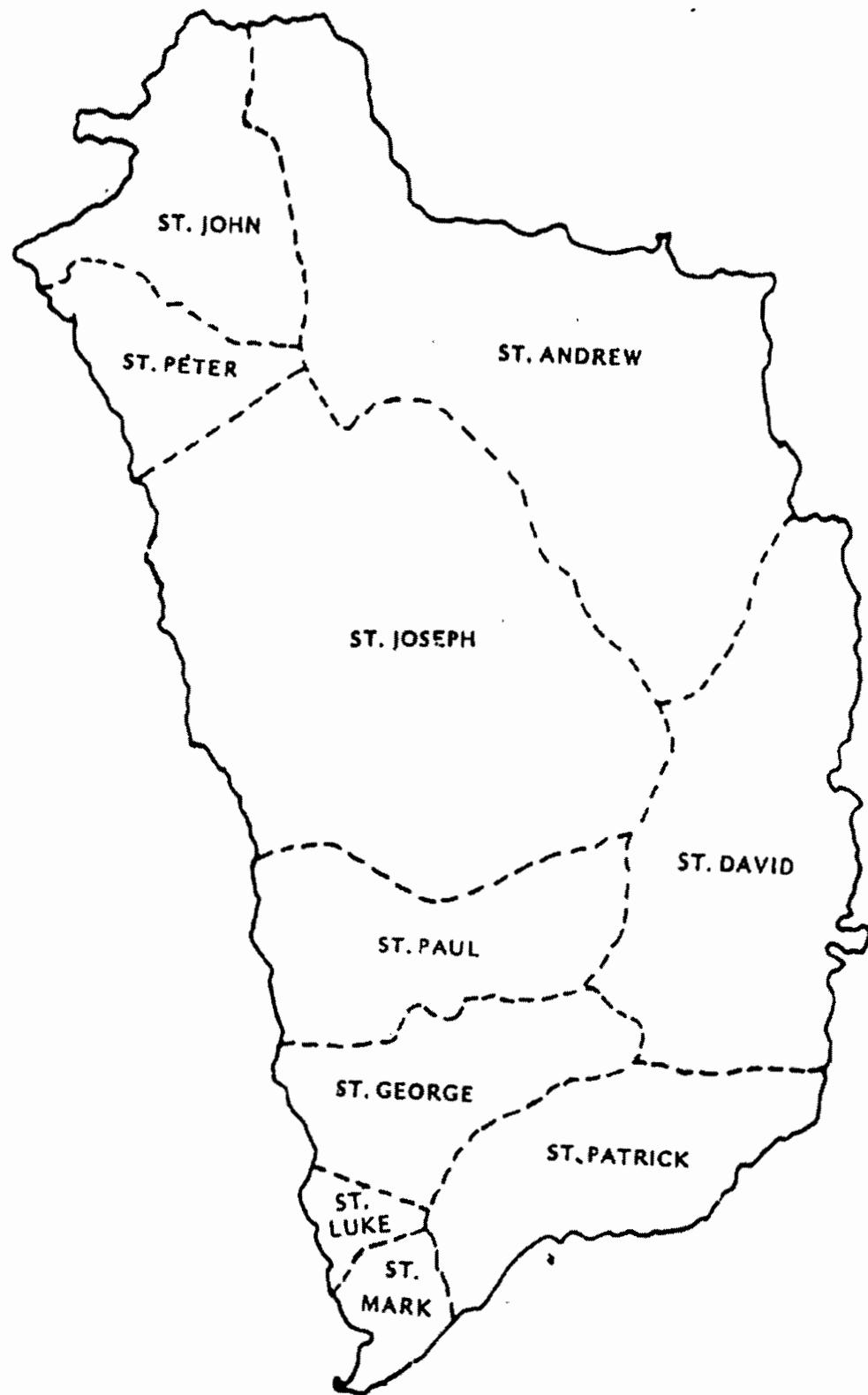
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# **DOMINICA**



Area 751 km<sup>2</sup>

Central Statistical Office

## **ACRONYMS AND ABBREVIATIONS**

<b>CARICOM</b>	-	Caribbean Community
<b>OECS</b>	-	Organization of Eastern Caribbean States
<b>UNSD</b>	-	United Nations Statistical Division
<b>CSO</b>	-	Central Statistical Office
<b>MOA</b>	-	Ministry of Agriculture
<b>DOMLEC</b>	-	Dominica Electricity Services Ltd.
<b>DOWASCO</b>	-	Dominica Water and Sewerage Company
<b>ECU</b>	-	Environmental Coordinating Unit
<b>GDP</b>	-	Gross Domestic Product
<b>HCFCs</b>	-	Hydrochlorofluorocarbons
<b>ODS</b>	-	Ozone Depleting Substance
<b>CFCs</b>	-	Chlorofluorocarbons

## The Commonwealth of Dominica

### Description and General Background

The Commonwealth of Dominica is the most northern and largest of the Eastern Caribbean's Windward Islands situated between Latitude 15° 20' minutes North and Longitude 61° 22' minutes West. It lies between the French islands of Guadeloupe to the north and Martinique to the south. The island is 751 square kilometers (289.5sq miles). Dominica's climate is classified a humid tropical marine, characterized by little seasonal variation between the wet and dry season. Its pronounced high rainfall during the wet season contributes to its lush vegetation.

The island's topography is rugged with steep, luxuriant rain forest mountains, deep river-incised valleys and tree-covered hills that produce and sustain pristine rivers, perennial streams and tumbling mountain waterfalls. The island has great diversity of flora and fauna. The Morne Trois Pitons National Park (incorporating the central mountain range) is inscribed on the United Nations World Heritage List since 1998, based on the criteria of Outstanding Universal Value to Mankind, its natural aesthetic, rich bio-diversity and irreplaceable contribution to the understanding of science and natural landscape phenomena.

Dominica's relatively undisturbed and rugged landscape, extensive forest, pristine fresh and sea water and overall ecological system have contributed to Dominica's being acclaimed as "the Nature Island of the Caribbean". This label has impacted favorably in positioning Dominica's global choices as a tourist destination for nature lovers and environmental adventure seekers. The island is currently promoted and is in its developing stage as an eco-tourist destination.

The island is subdivided into ten parishes with capital city Roseau, located within the parish of St. George in the south-west. The city of Roseau recorded a non-institutional population of 14,539 in the 2001 Population and Housing Census.

Visitor arrivals increased by 27.2 percent from 1998 to 2008, reaching a total arrival of 85171 in 2008. The three major markets are the Caribbean accounting for 56.0 percent of visitors, United States of America, 26.0 percent and Europe 13.0 percent. Cruise lines call in regularly registering a record 380,671 passengers in 2008.

### Political and Economic Situation

Dominica attained political independence from England in 1978 and retains a political organization based on the British Parliament multi-party democracy. Dominica inherited its official language, English. However, partly due to historical influences, the majority of the population speak a patois "kweyol" composing of African and French linguistic structures.

The 2008 end of year population estimate 71,700 comprises mainly people of African descent and a small population of indigenous kalinago or Carib people, the survivors of the original or first people of the Caribbean. They presently occupy a demarcated area called the Carib Territory, on the northeast of Dominica.

Traditionally, Dominica's economy has been based on agriculture. Recent global and regional events have contributed to the declining dominance of agriculture in particular the cultivation of bananas. Agriculture (mainly bananas) contributed to 20.0 percent of Gross Domestic Product in 1997 and 16.84 percent in 2007.

Economically, Dominica pursues and sustains a free-market and liberal economy. During the 2008 period the economy registered a growth rate of 3.2 percent. All sectors with the exception of Manufacturing recorded growth. Significant growth was noted in Mining and Quarrying, 17.09 percent, Construction, 17.10; Agriculture, 10.08; Transport, 9.18, Wholesale and Retail, 7.10 and Hotels and Restaurant 4.46.

The rate of inflation as measured by the Annual Consumer Price Index rose by 6.36 percent in 2008. Percentage increases were recorded in group indices Food, 11.68, Fuel and Light, 10.13 and Household and Furniture Equipment, 3.94.

## **SOCIO-ECONOMIC BACKGROUND**

**Table 1.1: Non-institutional Population at Census Dates (1946 - 2001)**

<b>Date</b>	<b>1946</b>	<b>1960</b>	<b>1970</b>	<b>1981</b>	<b>1991</b>	<b>2001</b>
	<b>9th April</b>	<b>7th April</b>	<b>7th April</b>	<b>7th April</b>	<b>12th April</b>	<b>12th May</b>
<b>Total</b>	<b>47,624</b>	<b>59,916</b>	<b>69,549</b>	<b>73,795</b>	<b>71,183</b>	<b>69,775</b>
Male	22,277	28,167	32,968	36,754	35,471	35,109
Female	25,347	31,749	36,581	37,041	35,712	34,666

Source: *Central Statistical Office*

**Table 1.2: Total End of Year Population Estimates by Sex (1997 -2006)**

<b>YEAR</b>	<b>1997</b>	<b>1998</b>	<b>1999</b>	<b>2000</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>
<b>TOTAL</b>	<b>72,099</b>	<b>71,984</b>	<b>71,644</b>	<b>71,443</b>	<b>70,401</b>	<b>70,363</b>	<b>70,340</b>	<b>70,494</b>	<b>70,836</b>	<b>71,180</b>
MALE	36,722	36,633	36,489	34,999	35,482	35,474	35,409	35,881	36,100	36,238
FEMALE	35,377	35,351	35,155	36,444	34,919	34,889	34,931	34,613	34,736	34,942

Source: *Central Statistical Office*

**Table 1.3: Population By Parish  
1981 - 2001**

<b>Parish</b>	<b>1981</b>	<b>1991</b>	<b>2001</b>	<b>%CHANGE</b>
				<b>1991-2001</b>
St. George	20,501	20,365	19,863	-2.47
City of Roseau	8,279	15,853	14,579	-8.04
Rest of St. George	12,222	4,512	5,284	17.11
St. John	5,412	4,990	5,322	6.65
St. Peter	1,601	1,643	1,448	-11.87
St. Joseph	6,606	6,183	5,770	-6.68
St. Paul	6,386	7,495	8,435	12.54
St. Luke	1,503	1,552	1,569	1.1
St. Mark	1,921	1,943	1,909	-1.75
St. Patrick	9,780	8,929	8,451	-5.35
St. David	7,337	6,977	6,758	-3.14
St. Andrew	12,748	11,106	10,250	-7.71
<b>TOTAL</b>	<b>73,795</b>	<b>71,183</b>	<b>69,775</b>	<b>-1.98</b>

Source: Central Statistical Office

*From 1991 Census, the City of Roseau includes Fond Cole, Goodwill, St. Aroment, Bath Estate and Elmshall*

**Table 1.1 Non-Institutional Population by Sex and Five Year Age Group  
1970, 1981, 1991, 2001**

AGE GROUP	1970			1981			1991			2001		
	MALE	FEMALE	TOTAL									
0- 4	6,223	6,278	12,501	4,202	3,994	8,196	3,820	3,891	7,711	3,111	3,077	6,188
5 - 9	5,951	5,886	11,837	5,277	4,850	10,127	4,398	4,285	8,683	3,830	3,567	7,397
10-14	5,030	4,750	9,780	5,595	5,488	11,083	3,937	4,107	8,044	3,451	3,511	6,962
15-19	3,235	3,563	6,798	4,779	4,611	9,390	4,221	3,535	7,756	3,345	3,334	6,679
20-24	2,269	2,599	4,868	3,722	3,286	7,008	3,290	3,338	6,628	2,367	2,121	4,488
25-29	1,392	1,718	3,110	2,521	2,190	4,711	2,943	2,702	5,645	2,521	2,494	5,015
30-34	1,123	1,492	2,615	1,764	1,755	3,519	2,461	2,239	4,700	2,797	2,750	5,547
35-39	1,139	1,527	2,666	1,404	1,416	2,820	1,934	1,759	3,693	2,756	2,432	5,188
40-44	1,132	1,354	2,486	1,133	1,328	2,461	1,508	1,441	2,949	2,343	2,040	4,383
45-49	1,069	1,345	2,414	1,058	1,292	2,350	1,241	1,249	2,490	1,886	1,599	3,485
50-54	1,097	1,374	2,471	1,051	1,311	2,362	980	1,136	2,116	1,421	1,338	2,759
55-59	911	1,168	2,079	950	1,097	2,047	925	1,192	2,117	1,173	1,168	2,341
60-64	848	975	1,823	959	1,190	2,149	967	1,130	2,097	989	1,219	2,208
65-69	601	925	1,526	850	962	1,812	862	1,025	1,887	1,056	1,219	2,275
70-74	406	642	1,048	611	872	1,483	698	886	1,584	844	963	1,807
75-79	257	390	647	383	584	967	546	654	1,200	576	728	1,304
80-84	171	299	470	191	357	548	285	496	781	353	558	911
85+	114	296	410	149	332	481	213	415	628	285	533	818
N.S.	0	0	0	155	126	281	242	232	474	4	15	19
<b>TOTAL</b>	<b>32,968</b>	<b>36,581</b>	<b>69,549</b>	<b>36,754</b>	<b>37,041</b>	<b>73,795</b>	<b>35,471</b>	<b>35,712</b>	<b>71,183</b>	<b>35,108</b>	<b>34,666</b>	<b>69,775</b>

Source: Population and Housing Censuses of 1970, 1981, 1991 and 2001

**Table 1.4: Population Density By Land Area  
2001 and 1991 Census**

Parish	Land Area (Km)	2001		1991	
		Population	Density	Population	Density
St. George	56.2	19,863	353	20,365	362
St. John	59.1	5,322	90	4,990	84
St. Peter	34.2	1,448	43	1,643	48
St. Joseph	118.4	5,770	49	6,183	52
St. Paul	66.4	8,435	127	7,495	113
St. Luke	10.8	1,569	146	1,552	144
St. Mark	13.5	1,909	141	1,943	144
St. Patrick	86.7	8,451	97	8,929	103
St. David	125.8	6,758	54	6,977	55
St. Andrew	179.9	10,250	57	11,106	62
<b>TOTAL</b>	<b>751</b>	<b>69,775</b>	<b>93</b>	<b>71,183</b>	<b>95</b>

Source: Central Statistical Office

**Table 1.5: Population Growth Rate  
1946-2001**

YEAR	POPULATION	PERCENTAGE CHANGE	INTERCENSAL ANNUAL RATE OF CHANGE
1946	47,624	28.51	1.01
1960	59,916	25.81	1.65
1970	69,549	16.08	1.48
1981	73,795	6.11	0.55
1991	71,183	-3.50	-0.37
2001	69,775	-1.98	-0.21

Source: Central Statistical Office,

**Table 1.6: Life Expectancy 1995 - 2010**

<b>Period</b>	<b>Male</b>	<b>Female</b>	<b>Both Sexes</b>
1995	71.80	74.78	73.29
1996	71.70	75.01	73.35
1997	71.98	75.42	73.65
1998	71.39	75.44	73.42
1999	70.99	75.11	73.05
2000	70.65	74.76	72.71
2001	70.92	74.86	72.89
2002	72.37	77.72	73.93
2003	72.45	78.36	75.63
2004	74.10	77.91	75.89
2005	73.53	78.07	75.67
2006	73.23	77.78	75.46
2007	73.72	77.99	75.77
2008	73.79	78.15	75.84
2009	73.48	78.11	75.70
2010	73.54	78.17	75.76

Source: Central Statistical Office

**Table 1.7 Reported Cases and Incidence of Environmentally-related Diseases by Type (1998–2006)**

Type of Disease	1998	1999	2000	2001	2002	2003	2004	2005	2006
Gastroenteritis under 5	70	107	26	16	139	66	432	592	762
Typhoid	9	3	0	1	2	2	0	0	2
Malaria	2	0	1	1	0	0	0	0	0
Diarrhoea	19	8	5	2	17	19	10	13	5
Respiratory Diseases	0	0	0	0	31	0	351	268	774
<b>Total</b>	<b>100</b>	<b>118</b>	<b>32</b>	<b>20</b>	<b>189</b>	<b>87</b>	<b>793</b>	<b>873</b>	<b>1,543</b>

Source: *Health Information Unit, Ministry of Health*

Notes: For 2006 increase in cases of Gastroenteritis under 5 was due to an outbreak of Novo Virus

From 2004 increase in respiratory diseases was due to vigilant syndromic surveillance

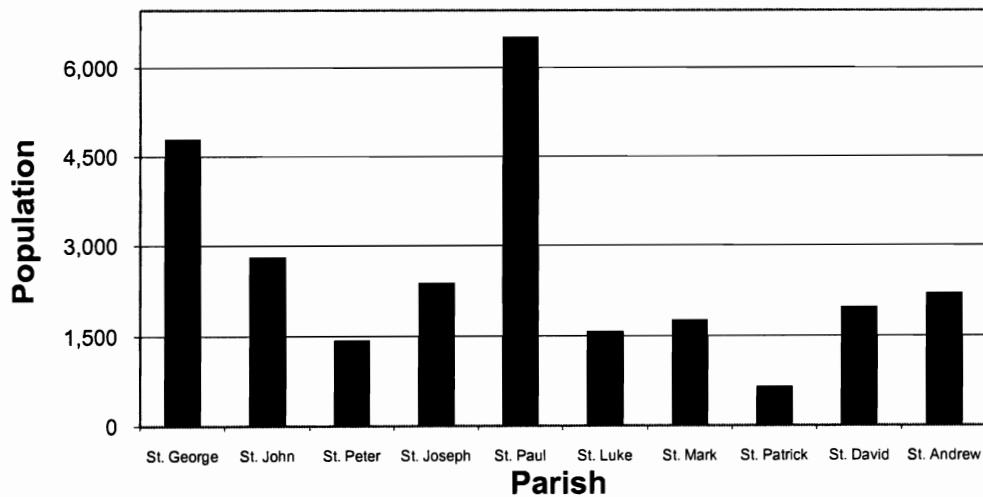
**Table 1.8: Population on Coast Line by Parish**

**2001**

Parish	2001 Coast Line Population	Population	% Population
St. George	4,774	19,863	24.03
St. John	2,793	5,322	52.48
St. Peter	1,421	1,448	98.14
St. Joseph	2,369	5,770	41.06
St. Paul	6,508	8,435	77.15
St. Luke	1,558	1,569	99.30
St. Mark	1,746	1,909	91.46
St. Patrick	637	8,451	7.54
St. David	1,960	6,758	29.00
St. Andrew	2,186	10,250	21.33
<b>Total</b>	<b>25,952</b>	<b>69,775</b>	<b>37.19</b>

Source: *Central Statistical Office*

**Chart 2: Population on Coastline by Parish 2001**



**Table 1.8a: Population on Coastline by Sex and Age Group  
2001**

AGE GROUP	PARISH																					
	City of Roseau		Rest of St. George		St. John		St. Peter		St. Joseph		St. Paul		St. Luke		St. Mark		St. Patrick		St. David		St. Andrew	
	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F	M	F
0-4	156	141	29	31	122	124	46	55	87	85	296	273	67	71	69	63	20	23	83	102	98	107
5-9	175	198	44	32	162	134	62	64	112	128	362	322	80	74	79	67	33	25	124	104	126	124
10-14	180	157	34	26	130	131	71	56	110	132	304	317	67	77	81	81	26	32	108	110	118	91
15-19	192	215	27	35	117	138	75	63	109	106	332	306	75	67	72	79	37	33	106	85	80	97
20-24	172	146	29	32	104	98	47	31	82	55	217	230	66	62	64	51	15	17	60	51	69	50
25-29	155	150	30	35	110	112	66	43	80	68	236	273	66	70	69	82	22	16	75	61	82	73
30-34	151	166	33	27	106	105	56	49	105	78	284	321	49	59	72	67	29	25	89	78	96	75
35-39	137	178	26	37	104	96	55	42	88	89	236	233	60	42	53	62	33	18	85	41	104	68
40-44	133	115	27	21	87	84	45	34	92	68	203	215	44	53	58	50	18	14	63	54	74	55
45-49	112	125	17	17	71	56	45	43	65	55	159	181	36	35	54	37	26	11	44	42	72	53
50-54	66	99	16	11	48	68	31	28	54	43	136	138	35	38	31	50	12	10	34	26	43	45
55-59	55	61	15	14	50	39	29	30	45	42	86	119	27	26	42	37	21	10	34	27	41	35
60-64	47	77	6	16	42	49	15	27	33	53	104	112	19	27	19	32	10	10	30	27	33	47
65-69	43	85	10	14	56	47	27	22	35	49	95	88	31	27	25	45	11	10	33	39	38	49
70-74	47	69	12	13	37	35	20	27	37	43	50	68	15	20	25	28	10	11	32	28	28	30
75-79	24	54	9	12	24	31	14	19	16	22	40	57	14	20	20	27	10	11	16	19	15	23
80-84	24	48	1	10	15	30	15	31	17	30	18	36	9	6	9	20	10	7	10	15	12	12
85+	15	46	3	9	13	18	22	16	28	28	20	41	6	18	8	18	7	4	7	18	4	19
<b>TOTAL</b>	<b>1884</b>	<b>2130</b>	<b>368</b>	<b>392</b>	<b>1398</b>	<b>1395</b>	<b>741</b>	<b>680</b>	<b>1195</b>	<b>1174</b>	<b>3178</b>	<b>3330</b>	<b>766</b>	<b>792</b>	<b>850</b>	<b>896</b>	<b>350</b>	<b>287</b>	<b>1033</b>	<b>927</b>	<b>1133</b>	<b>1053</b>
<b>GRAND TOTAL</b>	<b>4014</b>		<b>760</b>		<b>2793</b>		<b>1421</b>		<b>2369</b>		<b>6508</b>		<b>1558</b>		<b>1746</b>		<b>637</b>		<b>1960</b>		<b>2186</b>	

Source: Central Statistical Office 2001 Population Census

**Table 1.9: Gross Domestic Product by Economic Activity  
in Current Prices (EC\$M) 1997–2006**

Sector	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
<b>Agriculture</b>	<b>107.58</b>	<b>110.27</b>	<b>114.12</b>	<b>112.54</b>	<b>106.38</b>	<b>102.06</b>	<b>106.24</b>	<b>114.49</b>	<b>115.22</b>	<b>118.39</b>
Crops	86.73	88.36	91.66	90.10	83.67	79.09	82.82	90.64	90.64	91.73
Livestock	7.94	8.07	8.19	8.27	8.35	8.43	8.53	8.61	9.04	9.31
Forestry	3.53	3.56	3.59	3.62	3.66	3.69	3.70	3.71	3.72	3.73
Fishing	9.38	10.28	10.68	10.55	10.70	10.85	11.19	11.53	11.82	13.62
Mining & Quarrying	5.09	4.63	4.90	5.22	5.24	3.92	4.60	5.22	5.78	6.39
Manufacturing	42.29	50.81	49.30	54.44	45.13	44.54	46.52	50.80	51.88	52.58
Electricity & Water	26.21	29.24	33.49	33.92	36.05	36.91	36.90	39.32	41.30	38.40
Construction	47.66	46.27	48.96	52.19	52.40	39.15	46.04	50.70	56.12	62.01
Wholesale & Retail Trade	65.39	67.72	70.20	72.58	73.38	69.71	73.20	77.42	82.62	87.72
Hotels & Restaurants	15.20	15.50	16.16	16.95	15.98	15.47	15.06	17.66	18.81	21.63
<b>Transport</b>	<b>53.36</b>	<b>55.53</b>	<b>57.56</b>	<b>57.72</b>	<b>52.95</b>	<b>45.30</b>	<b>48.82</b>	<b>54.92</b>	<b>56.64</b>	<b>63.26</b>
Road Transport	28.64	28.35	28.36	29.76	27.71	22.64	25.97	29.37	30.00	31.58
Sea Transport	19.98	22.63	24.08	23.08	20.71	18.66	18.49	20.56	21.22	25.63
Air Transport	4.74	4.55	5.12	4.88	4.53	4.00	4.36	4.99	5.42	6.05
Communications	44.57	49.46	52.12	47.84	44.34	39.61	26.05	26.96	28.44	29.29
Bank & Insurance	59.79	65.73	68.72	70.11	70.12	64.81	65.62	69.07	76.22	80.79
Real Estate & Housing	19.12	19.88	20.27	20.88	21.30	21.82	22.26	22.70	23.73	24.21
Government Services	103.83	112.87	116.51	121.69	128.37	133.03	127.78	123.66	126.25	131.36
Other Services	8.47	9.07	9.45	9.50	9.93	10.41	10.37	10.89	11.77	12.36
Less Imputed Service Charge	43.86	51.93	52.11	53.98	54.09	51.50	48.32	52.37	53.51	57.26
<b>Total</b>	<b>554.70</b>	<b>585.05</b>	<b>609.65</b>	<b>621.60</b>	<b>607.48</b>	<b>575.24</b>	<b>581.14</b>	<b>611.44</b>	<b>641.27</b>	<b>671.13</b>
<b>Growth Rate</b>	<b>3.20</b>	<b>5.47</b>	<b>4.20</b>	<b>1.96</b>	<b>-2.27</b>	<b>-5.31</b>	<b>1.03</b>	<b>5.21</b>	<b>4.88</b>	<b>4.66</b>

Source: Eastern Caribbean Central Bank and Central Statistical Office, National Accounts Statistics,

**Table 1.9a: Gross Domestic Product by Economic Activity,  
in Constant Prices (EC\$M) 1997–2006**

SECTOR	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
Agriculture	86.43	84.71	82.90	81.98	76.59	76.09	73.51	76.07	75.76	78.32
Crops	67.99	66.00	63.73	62.81	57.20	56.48	53.62	55.92	54.89	56.09
Livestock	7.13	7.24	7.35	7.42	7.49	7.56	7.65	7.72	8.11	8.35
Forestry	3.32	3.35	3.38	3.41	3.44	3.47	3.48	3.49	3.50	3.51
Fishing	7.99	8.12	8.44	8.34	8.46	8.58	8.76	8.94	9.26	10.37
Mining & Quarrying	3.71	3.36	3.49	3.70	3.61	2.69	3.00	3.12	3.23	3.50
Manufacturing	30.18	35.26	29.16	31.32	27.06	26.45	26.68	27.42	27.54	27.00
Electricity & Water	16.68	18.23	19.18	19.66	20.30	20.43	20.05	21.10	22.45	23.41
Construction	35.05	33.60	34.86	36.97	36.14	26.88	29.95	30.94	32.01	34.74
Wholesale & Retail Trade	54.26	55.65	57.02	58.45	58.02	55.02	56.89	58.76	61.70	63.86
Hotels & Restaurants	11.25	10.80	11.26	11.70	10.83	10.47	10.15	11.34	12.08	13.89
Transport	42.99	44.52	45.12	44.68	42.22	36.70	39.03	42.94	43.06	45.95
Road Transport	24.52	24.27	24.28	25.47	23.73	19.38	22.23	24.56	24.60	25.90
Sea Transport	14.65	16.59	16.92	15.35	14.80	13.60	13.01	14.37	14.12	15.32
Air Transport	3.82	3.66	3.92	3.86	3.69	3.72	3.79	4.01	4.34	4.73
Communications	44.50	49.38	55.59	53.16	49.71	48.91	35.94	37.20	40.36	42.50
Banks & Insurance	50.56	54.62	58.31	58.46	56.54	53.27	55.21	58.06	63.42	67.23
Real Estate & Housing	14.91	15.20	15.50	15.66	15.81	15.96	16.28	16.60	17.19	17.96
Government Services	74.23	78.33	78.51	82.00	85.77	88.75	86.99	86.34	86.00	87.30
Other Services	5.61	5.83	6.01	5.98	6.14	6.42	6.30	6.47	6.88	7.09
Less Imputed Service Charge	39.06	46.25	46.44	47.37	51.39	52.89	44.43	48.15	49.20	52.64
<b>Total</b>	<b>431.30</b>	<b>443.24</b>	<b>450.47</b>	<b>456.35</b>	<b>437.35</b>	<b>415.15</b>	<b>415.55</b>	<b>428.21</b>	<b>442.48</b>	<b>460.11</b>
<b>Growth Rate</b>	<b>1.98</b>	<b>2.77</b>	<b>1.63</b>	<b>1.31</b>	<b>-4.16</b>	<b>-5.08</b>	<b>0.10</b>	<b>3.05</b>	<b>3.33</b>	<b>3.98</b>

Source: Eastern Caribbean Central Bank and Central Statistical Office, National Accounts Statistics

**Table 1.10: Annual Percentage Changes in Gross Domestic Product  
by Sector (Current Prices)  
1997-2006**

SECTOR	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
<b>Agriculture</b>	<b>0.55</b>	<b>2.50</b>	<b>3.49</b>	<b>-1.38</b>	<b>-5.47</b>	<b>-4.06</b>	<b>4.10</b>	<b>7.77</b>	<b>0.64</b>	<b>2.75</b>
Crops	-1.24	1.88	3.73	-1.70	-7.14	-5.47	4.72	9.44	0.00	1.20
Livestock	5.73	1.64	1.49	0.98	0.97	0.96	1.20	0.94	4.99	2.99
Forestry	1.44	0.85	0.84	0.84	1.10	0.82	0.27	0.27	0.27	0.27
Fishing	14.67	9.59	3.89	-1.22	1.42	1.40	3.12	3.04	2.52	15.23
Mining & Quarrying	4.95	-9.02	5.83	6.53	0.38	-25.19	17.45	13.48	10.73	10.55
Manufacturing	7.25	20.15	-2.97	10.43	-17.10	-1.31	4.45	9.20	2.13	1.35
Electricity & Water	11.06	11.56	14.53	1.28	6.28	2.39	-0.03	6.56	5.04	-7.02
Construction	-1.71	-2.92	5.81	6.60	0.40	-25.29	17.60	10.12	10.69	10.50
Wholesale & Retail Trade	4.96	3.56	3.66	3.39	1.10	-5.00	5.01	5.77	6.72	6.17
Hotels & Restaurants	2.98	1.97	4.26	4.89	-5.72	-3.19	-2.65	17.26	6.51	14.99
<b>Transport</b>	<b>-2.02</b>	<b>4.07</b>	<b>3.66</b>	<b>0.28</b>	<b>-8.26</b>	<b>-14.45</b>	<b>7.77</b>	<b>12.49</b>	<b>3.13</b>	<b>11.69</b>
Road Transport	1.49	-1.01	0.04	4.94	-6.89	-18.30	14.71	13.09	2.15	5.27
Sea Transport	-7.67	13.26	6.41	-4.15	-10.27	-9.90	-0.91	11.20	3.21	20.78
Air Transport	3.04	-4.01	12.53	-4.69	-7.17	-11.70	9.00	14.45	8.62	11.62
Communications	12.89	10.97	5.38	-8.21	-7.32	-10.67	-34.23	3.49	5.49	2.99
Bank & Insurance	-2.89	9.93	4.55	2.02	0.01	-7.57	1.25	5.26	10.35	6.00
Real Estate & Housing	3.46	3.97	1.96	3.01	2.01	2.44	2.00	1.98	4.54	2.02
Government Services	2.87	8.71	3.22	4.45	5.49	3.63	-3.95	-3.22	2.09	4.05
Other Services	4.44	7.08	4.19	0.53	4.53	4.83	-0.38	5.01	8.08	5.01
Less Imputed Service Charge	-4.57	18.40	0.35	3.59	0.20	-4.79	-6.17	8.38	2.18	7.01
<b>Total</b>	<b>3.20</b>	<b>5.47</b>	<b>4.20</b>	<b>1.96</b>	<b>-2.27</b>	<b>-5.31</b>	<b>1.03</b>	<b>5.21</b>	<b>4.88</b>	<b>4.66</b>

Source: Eastern Caribbean Central Bank and Central Statistical Office, National Accounts Statistics,

**Table 1.10a: Annual Percentage Changes in Gross Domestic Product  
by Sector (Constant Prices)  
1997-2006**

SECTOR	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006
<b>Agriculture</b>	<b>-1.49</b>	<b>-1.99</b>	<b>-2.14</b>	<b>-1.11</b>	<b>-6.57</b>	<b>-0.65</b>	<b>-3.39</b>	<b>3.48</b>	<b>-0.41</b>	<b>3.38</b>
Crops	-2.72	-2.93	-3.44	-1.44	-8.93	-1.26	-5.06	4.29	-1.84	2.19
Livestock	1.57	1.54	1.52	0.95	0.94	0.93	1.20	0.92	5.05	2.96
Forestry	1.53	0.90	0.90	0.89	0.88	0.87	0.29	0.29	0.29	0.29
Fishing	5.69	1.63	3.94	-1.18	1.44	1.42	2.10	2.05	3.58	11.99
Mining & Quarrying	3.92	-9.43	3.87	6.02	-2.43	-25.48	11.34	4.00	3.53	8.36
Manufacturing	2.51	16.83	-17.30	7.41	-13.60	-2.25	0.87	2.77	0.44	-1.96
Electricity & Water	7.47	9.29	5.21	2.50	3.26	0.64	-1.86	5.24	6.40	4.28
Construction	-1.71	-4.14	3.75	6.05	-2.25	-25.62	11.42	3.31	3.46	8.53
Wholesale & Retail Trade	2.49	2.56	2.46	2.51	-0.74	-5.17	3.40	3.29	5.00	3.50
Hotels & Restaurants	1.99	-4.00	4.26	3.91	-7.44	-3.32	-3.06	11.72	6.53	14.98
<b>Transport</b>	<b>-0.23</b>	<b>3.56</b>	<b>1.35</b>	<b>-0.98</b>	<b>-5.51</b>	<b>-13.07</b>	<b>6.35</b>	<b>10.02</b>	<b>0.28</b>	<b>6.71</b>
Road Transport	1.49	-1.02	0.04	4.90	-6.83	-18.33	14.71	10.48	0.16	5.28
Sea Transport	-3.75	13.24	1.99	-9.28	-3.58	-8.11	-4.34	10.45	-1.74	8.50
Air Transport	2.96	-4.19	7.10	-1.53	-4.40	0.81	1.88	5.80	8.23	8.99
Communications	12.89	10.97	12.58	-4.37	-6.49	-1.61	-26.52	3.51	8.49	5.30
Bank & Insurance	-4.24	8.03	6.76	0.26	-3.28	-5.78	3.64	5.16	9.23	6.01
Real Estate & Housing	1.02	1.95	1.97	1.03	0.96	0.95	2.00	1.97	3.55	4.48
Government Services	2.87	5.52	0.23	4.45	4.60	3.47	-1.98	-0.75	-0.39	1.51
Other Services	2.00	3.92	3.09	-0.50	2.68	4.56	-1.87	2.70	6.34	3.05
Less Imputed Service Charge	-4.01	18.41	0.41	2.00	8.49	2.92	-16.00	8.37	2.18	6.99
<b>Total</b>	<b>1.98</b>	<b>2.77</b>	<b>1.63</b>	<b>1.31</b>	<b>-4.16</b>	<b>-5.08</b>	<b>0.10</b>	<b>3.05</b>	<b>3.33</b>	<b>3.98</b>

Source: Eastern Caribbean Central Bank and Central Statistical Office, National Accounts Statistics,

**Table 2.1a: Mean Annual Air Temperature, Relative Humidity and Rainfall 2001–2007**

Year	Mean Annual Air Temperature (°C)		Total Rainfall (mm)	Average Relative Humidity
	Maximum	Minimum		(°C)
2001	29.5	25.1	1940	75
2002	29.7	25.1	1927	75
2003	29.6	24.6	2100	71
2004	29.6	24.4	2692	72
2005	30.6	24.1	1949	72
2006	30.8	23.2	1741	69
2007	30.7	23.4	1924	69

Source: Meteorological Office, Canefield and Melville Hall Airport

**Table 2.1b: Mean Annual Air Temperature, Relative Humidity and Rainfall 2001-2007  
Melville Hall Airport**

Year	Mean Annual Air Temperature (°C)		Total Rainfall (mm)	Average Relative Humidity
	Maximum	Minimum		(°C)
2001	29.5	25.1	2356	76
2002	29.2	25.0	2378	76
2003	29.1	24.3	2586	75
2004	29.7	24.2	3337	75
2005	30.4	23.9	2338	76
2006	30.3	23.7	2172	76
2007	30.1	23.7	2176	74

Source: Meteorological Office, Melville Hall Airport

**Table 2.1c: Mean Annual Air Temperature, Relative Humidity  
and Rainfall 2001-2007  
Canefield Airport**

Year	Mean Annual Air Temperature (°C)		Total Rainfall (mm)	Average Relative Humidity
	Maximum	Minimum		(° C)
2001	29.5	25.2	1523	75
2002	30.2	25.2	1476	75
2003	30.2	24.9	1615	67
2004	29.6	24.6	2047	69
2005	30.8	24.3	1559	68
2006	31.4	22.7	1311	63
2007	31.3	23.1	1672	63

Source: *Meteorological Office, Canefield Airport*

**Table 2.1d: Sunshine Duration Hours  
2001 -2007**

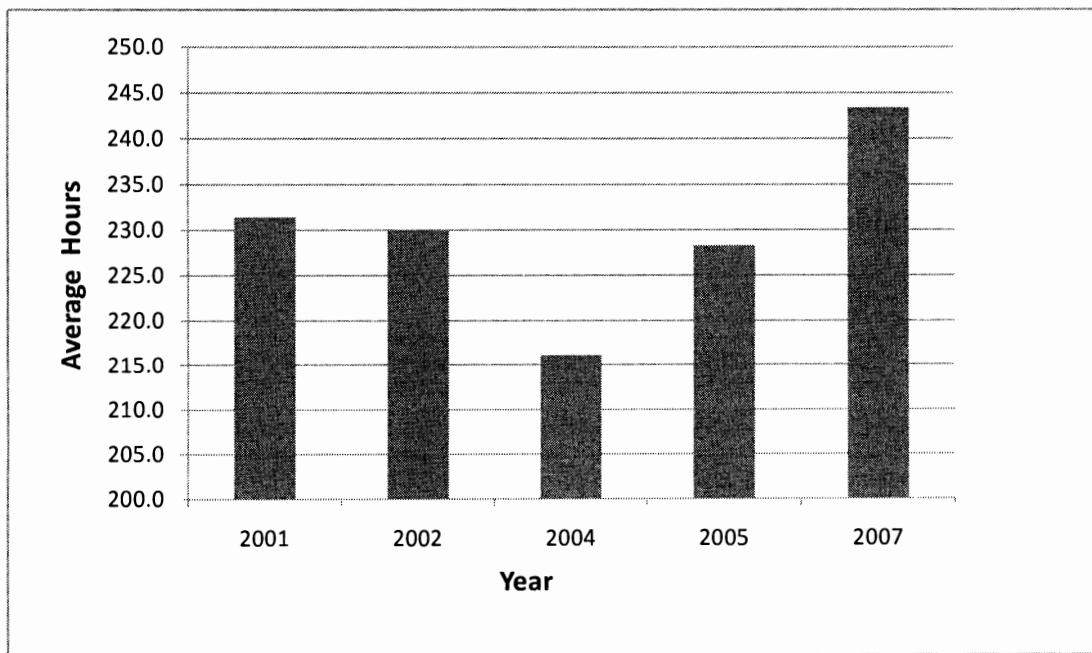
YEAR	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG
2001	224.1	203.0	279.6	261.9	292.4	216.7	228.0	249.7	263.0	181.6	239.7	137.3	231.4
2002	193.0	189.3	252.5	214.5	225.9	251.1	228.0	273.0	230.6	243.5	222.5	235.1	229.9
2003	237.1	219.6	281.2	259.7	264.2	187.5	216.9	172.0*	126.7	218.9	169.2	217.5	.....
2004	206.1	221.8	204.4	269.9	178.2	228.3	229.8	292.7	238.0	195.0	131.0	197.9	216.1
2005	191.0	165.0	261.8	278.8	235.0	210.3	245.7	287.1	247.8	201.8	197.8	217.1	228.3
2006	**148.5	**93.4	251.7	**204.4	276.5	**70.4	n.a.	**188.0	256.6	227.0	241.1	190.1	.....
2007	217.8	227.8	237.6	251.7	316.7	271.9	256.2	234.9	244.4	207.0	228.3	226.7	243.4

Source: Meteorological Office, Melville Hall Airport

Note: \*Monthly data reflects 19days (August 2003)

\*\*For 2006 data reflects the following number of days: Jan, 22 Feb, 11 April, 20 June, 07 and August, 21

**Chart 3: Average Sunshine Hours  
2001, 2002, 2004, 2005 and 2007**



**Table 2.2: Imports of Ozone Depleting Substances (ODS)  
2000-2007**

Ozone Depleting Substances (kg)	2000	2001	2002	2003	2004	2005	2006	2007
CFC 11	...	...	...	...	...	...	...	...
CFC 12	2,046	1,441	2,950	1,420	2,050	7,419	450	...
HCFC 22	2,902	2,180	2,160	2,120	2,120	9,320	2,680	490
CFC115 (0.8 x R502)	120	200.8	...	...	210	175	...	...

Source: *Environmental Coordinating Unit, and ODS Survey Report 2002, Ministry of Agriculture and Environment*

Note: 2005 CFC12/HCFC22 stockpiling  
2006 & 2007 CFC12/HCFC22 compliance to 2006 Legislation

**Table 2.3: Percentage change in ODS Imports over 1995–1997 Average Levels**

Year	1995–1997 average	2000	2001	2002	2003	% change 1995-1997/ 2002	% change 1995-1997/ 2003
Total ODS (kg)	3270	5068	3821	5110	3,540	56.3	8.3

Source: *Environmental Coordinating Unit, and Ministry of Agriculture and Environment*

**Table 2.4: Consumption of ODS 2002 - 2003 (KG)**

CFC11		CFC12		HCFC22		CFC115 (0.8 X R502)	
2002	2003	2002	2003	2002	2003	2002	2003
10	..	2,600	1,420	2,160	2,120	10	30

Source: *Environmental Coordinating Unit, and Ministry of Agriculture and Environment*

**Note:** The Environmental Coordinating Unit is presently undertaking the preparation of Dominica's Second National Communications on Climate Change

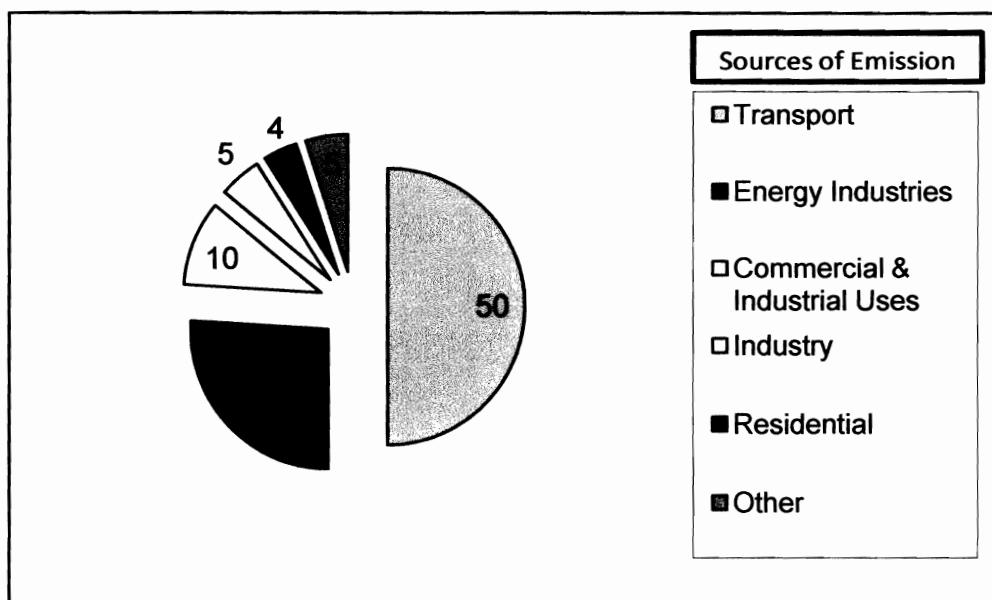
**Table 2.5: Percentage Distribution of Carbon Dioxide (CO<sub>2</sub>) Emission by Sector (1994)**

Sources of Emission	% Distribution
Transport	50
Energy Industries	26
Commercial & Industrial Uses	10
Industry	5
Residential	4
Other	5
TOTAL	100

Source: Initial National Communication ECU, and  
Ministry of Agriculture & the Environment

**Note:** The Environmental Coordinating Unit is presently undertaking the preparation of Dominica's Second National Communications on Climate Change

**Chart 4: Percentage Emission of Carbon Dioxide by Sector**



**Table 2.6: Emission of CO<sub>2</sub> by Fuel combustion Categories  
1994 - 1996**

Fuel	Carbon Dioxide Emission (gg)	% Contribution to Emission of GHG
Gasoline	33.99	45.1
Other Kerosene	1.02	1.35
Gas/Deisel Oil	28.59	37.96
Residual Fuel Oil	2.2	2.92
LPG	5.33	7.08
Naptha	3.43	4.56
Lubricants	0.49	0.65
Other Oil	0.25	0.33

Source: *Initial National Communication, Environmental Coordinating Unit, Ministry of Agriculture and the Environment*

Note: (gg: giga grams)  
GHG - Green House Gases

The Environmental Coordinating Unit is presently undertaking the preparation of Dominica's Second National Communications on Climate Change.

## CHAPTER 3: LAND USE AND AGRICULTURE

**Table 3.1: Number of Farms (1958, 1961, 1976, 1983, 1995)**

Farm Size (Acres)	1958		1961		1976		1983		1995 (adjusted)	
	Number of Farms	Acres '000								
Landless	*	*	442	0	*		*		824	0
0.01 – 4.9	6,864	10.3	6,405	10.1	5,957	9.0	6,540	14.0	6,696	13.7
5.0 – 49.9	1,748	18.9	2,087	20.3	1,814	18.9	1,728	19.7	2,448	24.1
50.0 – 99.9	95	6.3	78	5.1	67	3.8	74	6.4	61	4.0
100 & +	85	38.4	97	40.8	84	39.7	22	2.9	71	16.2
<b>Total</b>	<b>8,792</b>	<b>73.9</b>	<b>8,667</b>	<b>76.3</b>	<b>7,922</b>	<b>71.4</b>	<b>8,364</b>	<b>43.0</b>	<b>9,276</b>	<b>58.0</b>

Source: Ministry of Agriculture: 1961, 1976, 1995 Agricultural Census

\* Information added to interval 0.01 - 4.9

Landless: Farms with a size less than 0.01 acres

**Table 3.1.1 Registered Farmers By Parish and Size of Farms - 2001**

PARISH	SIZE OF FARMS (acres)												
	>1	1-5	5.10-10.0	10.01-25.0	25.01-50.0	50.01-75.0	75.01-100.0	100.01-200.0	200.01-300.0	300.01-499.0	500+	Not Stated	Total
St. George	34	41	8	8	2	....	....	....	....	2	....	39	137
Rest of St. George	99	96	12	11	2	....	....	....	....	....	....	54	275
St. John	....	167	13	9	3	....	....	....	2	....	....	71	269
St. Peter	3	43	10	7	2	....	....	....	....	....	....	8	74
St. Joseph	28	293	79	38	7	....	....	....	....	....	....	23	470
St. Paul	44	206	47	17	5	2	....	60	....	....	....	14	395
St. Luke	....	21	4	....	....	....	....	2	....	....	....	5	35
St. Mark	....	18	5	4	....	....	....	....	....	....	....	43	75
St. Patrick	138	401	24	4	2	....	....	....	....	....	....	279	851
St. David	95	818	87	28	3	....	....	....	....	....	....	78	1110
St. Andrew	199	758	148	31	3	....	....	....	....	....	2	183	1325
<b>TOTAL</b>	<b>642</b>	<b>2862</b>	<b>437</b>	<b>158</b>	<b>31</b>	<b>8</b>	<b>3</b>	<b>66</b>	<b>4</b>	<b>3</b>	<b>5</b>	<b>797</b>	<b>5016</b>

Source: Visitation Records, 2001 Population and Housing Census

Note: Anonymity /nil (....) if one farmer is recorded in any parish he/she was not listed but added to the total

**Table 3.2: Actual Land Use in 1961 & 1995 Agricultural Censuses**

Census Year	Total Acreage	Cultivated	%	Forest	%	Other	%	Total %
	Under Farms ('000 acres)	('000 acres)		('000 acres)		('000) acres		
1995 Not Adjusted	52.2	32.2	61.7	14.8	28.3	5.2	10.0	100.0
1995 Adjusted	58.0	35.8	61.7	16.4	28.3	5.8	10.0	100.0
1961	76.2	33.7	44.2	37.1	48.7	5.4	7.1	100.0

Source: *Ministry of Agriculture 1961 & 1995 Agricultural Censuses*

**Table 3.3: Use of Fertilizers and Agro-Chemicals  
on Farms during the Census Year (1995)  
By Size of Farm**

Size of Farm (Acres)	Organic Manure Fertilizers	Inorganic Fertilizers	Agro-Chemicals
0.01-0.99	580	1,105	880
1.00-4.99	1,130	3,625	3,445
5.00-9.99	277	1,189	1,148
10.00-24.99	157	577	563
25.00-49.99	19	71	63
50.00-99.99	22	41	33
100.00-199.99	12	26	25
200.00-499.99	11	16	15
500.00 and more	3	5	3
<b>Total</b>	<b>2,211</b>	<b>6,655</b>	<b>6,175</b>

Source: *Ministry of Agriculture 1995 Agricultural Census*

**Table 3.4: Production of Main Agricultural Crops (2000–2007)  
(tonnes)**

Crops	2000	2001	2002	2003	2004	2005	2006	2007
Bananas	37,800	25,048	24,645	18,278	22,018	20,127	21,394	14,090
Coconuts	11,820	10,675	9,945	9,669	9,656	9,268	9,268	9,453
Dasheens	11,754	11,559	11,563	11,378	11,655	11,503	11,446	11,525
Grapefruits	18,222	18,301	18,620	16,899	16,819	16,449	15,922	16,181
Limes	1,356	1,285	1,262	1,128	1,087	1,071	1,033	1,093
Mangoes	1,720	1,682	1,628	1,654	1,627	1,652	1,639	1,752
Oranges	3,553	3,594	3,517	3,528	3,499	3,466	3,383	3,550
Plantains	8,060	7,646	7,555	7,644	7,808	7,384	7,332	6,658
Sweet Potatoes	1,695	1,709	1,643	1,681	1,678	1,684	1,729	1,733
Tannias	3,409	3,295	3,267	3,339	3,412	3,352	3,508	3,594
Yams	6,880	6,835	6,707	6,952	6,948	7,319	7,333	7,501
Pears	540	562	559	698	771	719	713	561
Other Crops	6,688	5,921	5,776	5,871	6,210	6,156	6,351	5,894
<b>TOTAL</b>	<b>113,497</b>	<b>98,112</b>	<b>96,687</b>	<b>88,719</b>	<b>93,187</b>	<b>90,152</b>	<b>91,050</b>	<b>83,585</b>

Source: *Ministry of Agriculture & Central Statistical Office*

**Table 3.5: Livestock Production (2000–2006)  
Number Inspected**

Livestock	2000	2001	2002	2003	2004	2005	2006
Cows	513	379	391	382	769	688	500
Pigs	731	659	675	623	1,486	1,677	1,895
Goats/Sheep	71	86	87	58	308	359	418
Chickens	1,036	1,500	1,775	2,748	<b>3,765</b>	<b>5,120</b>	<b>7,014</b>

Source: *Environmental Health, Ministry of Health*

Note: Data on chickens inspected for period 2004 to 2006 are estimates.

**Table 3.5.1 Livestock Production 2004 - 2007  
Number and Weight Inspected**

DISTRICT	July 2004 - June 2005				July 2005 - June 2006				July 2006 - June 2007			
	carcass- cattle		carcass - pig		carcass- cattle		carcass - pig		carcass- cattle		carcass - pig	
	No	lbs	No	lbs	No	lbs	No	lbs	No	lbs	No	lbs
Roseau Market	196	113,620	526	35,338	240	147,600	720	76,900	177	67,066	422	4,661
Roseau	28	10,500	192	12,480	24	6,600	144	8,640	...	...	...	...
Grand Bay	288	108,000	372	24,180	204	76,500	276	17,940	148	59,795	224	13,682
Marigot	77	2,256	56	3,528	72	23,300	84	4,620	35	14,785	11	1,611
Wesley	...	...	...	...	...	...	...	...	49	21,135	17	2,710
Portsmouth	92	25,760	73	4,599	69	18,975	81	4,455	10	6,860	12	2,050
Vieille Case	...	...	...	...	...	...	...	...	14	4,423	5	569
Castle Bruce	14	3,850	32	2,080	19	6,175	48	2,640	18	8,185	72	4,320
La Plaine	57	16,701	197	10,441	48	18,000	228	14,820	46	20,603	120	17,292
St. Joseph	17	4,369	38	2,014	12	3,300	96	6,240	3	2,752	154	9,086
<b>TOTAL</b>	<b>769</b>	<b>285,056</b>	<b>1,486</b>	<b>94,660</b>	<b>688</b>	<b>300,450</b>	<b>1,677</b>	<b>136,255</b>	<b>500</b>	<b>205,604</b>	<b>1,037</b>	<b>97,931</b>

Source: Environmental Health Unit

**Table 3.6: Imports of Pesticides  
(2001-2006)**

(tonnes)

Type	2001	2002	2003	2004	2005	2006
Insecticide	34	36	31	64	99	75
Fungicide	15	6	11	2	3	9
Herbicide	75	64	68	91	74	186
Rodenticide	5	5	3	10	11	10

Source: *Central Statistical Office*

N.B. Quantity in tonnes

**Table 3.7: Number of Licenses issued for the Importation of Pesticides  
(2001–2007)**

Type	2001	2002	2003	2004	2005	2006	2007
Insecticide	na	25	36	34	28	34	40
Fungicide	na	7	7	14	7	19	22
Nematicide	na	0	1	6	4	5	4
Molluscicide	na	3	4	6	9	16	8
Pheromone	na	0	0	0	0	1	1
Spreader Sticker	na	2	0	0	1	4	7
Buffer	na	0	0	0	0	1	0
<b>Total</b>	<b>46</b>	<b>37</b>	<b>48</b>	<b>60</b>	<b>49</b>	<b>80</b>	<b>82</b>

Source: *Pesticide Control Board, Ministry of Agriculture*

Note: na (data not available)

**Table 3.8: Imports of Fertilizers by Type  
(2001-2006)**

(tonnes)

TYPE	2001	2002	2003	2004	2005	2006
Nitrogenous fertilizers	27	92	33	116	23	43
Phosphate fertilizers	0	0	0.1	0.3	0.3	0
Potash fertilizers	0	22	0.05	0.6	0.1	1.2
Other Mixed	2501	1003	1863	3014	1341	1556
<b>Total</b>	<b>2528</b>	<b>1117</b>	<b>1896</b>	<b>3131</b>	<b>1364</b>	<b>1600</b>

Source: Central Statistical Office

## CHAPTER 4: BIODIVERSITY

**Table 4.1: National Parks and Forest Reserves  
by Area and Year Established**

Park and Forest	Year Established	Area in Acres	% of Land Area
<b>Park</b>			
Morne Trois Piton National Park and World Heritage Site	1975	16,984	9.16
Cabrits National Park	1986	260	0.14
Morne Diablotin National Park	2000	8,242	4.45
<b>Forest</b>			
Central Forest Reserve	1952	1,013	0.55
Northern Forest Reserve	1977	13,730	7.41
<b>TOTAL</b>		<b>40,229</b>	<b>21.71</b>

Source: *Forestry and Wildlife Division, Ministry of Agriculture, 2008 Update*

**Table 4.2: Estimated Number of Endangered/Threatened Species**

Species	Number of Native Species	Number of Endangered/Threatened Species
Birds	59	2
Mammals	15	0
Lizards	10	1
Amphibians (Frogs)	3	1
Crustaceans	31	0
FreshWater Fish	10	0

Source: *Forestry and Wildlife Division, Ministry of Agriculture, 2008 update*

**Comments:**

The mountain chicken, a large amphibian now endemic only to Dominica, has been the most recent entry on the endangered species list. This occurred when there were sudden sightings of dead amphibians on the island. The main cause was an outbreak of a fungal disease called Chytridiomycosis (a disease that affects the skin of amphibians). A ban was immediately implemented on the hunting of the amphibians from 2004.

The Sisserou Parrot, (the National Bird of Dominica), and the Jaco Parrot remain the two threatened bird species. The iguana is the only threatened lizard specie.

NB: Sisserou still on Endangered Species list.

**Table 4.3: Number of Licenses Issued by Type (2001 - 2005)**

Licenses	2001	2002	2003	2004	2005
Hunting	223	142	139	172	288
Fishing	128	172	79	78	201
Removal Permits*	121	...	...	...	...
Timber Cutting Licence	35	40	48	...	...

Source: *Forestry and Wildlife Division, Ministry of Agriculture*

\*i.e. Travelling out of state with wildlife.

... (not available)

## COASTAL AND MARINE RESOURCES

**Table 5.1: Fish Landed (2000 - 2007)**

Year	Quantity "000kg
2000	495
2001	525
2002	641
2003	663
2004	580
2005	523
2006	783
2007	816

Source: *Fisheries Division, Ministry of Agriculture*

**Table 5.2: Registration Details - Fishers for Years 2003 and 2007**

Status	2003			2007		
	Male	Female	Total	Male	Female	Total
Full-Time	495	2	497	582	3	585
Part-Time	728	7	735	825	9	834
Unspecified	131	2	133	122	1	123
Investor Only	.....	.....	.....	3	0	3
<b>Total</b>	<b>1354</b>	<b>11</b>	<b>1365</b>	<b>1532</b>	<b>13</b>	<b>1545</b>

Source: *Fisheries Division, Ministry of Agriculture*

**Table 5.3: Number of Shrimp/Prawn Farms  
(1995 - 2008)**

Location	(1995-1999)	(2000-2003)	(2004-2007)	2008
Belfast	1	1	1	0
Canefield	1	1	1	0
Marigot	1	0	0	0
Harten Garden	1	1	1	1
Castle Bruce	1	0	0	0
Stowe	1	1	1	1
Layou Valley	1	1	0	0
Portsmouth	0	1	1	1
<b>Total</b>	<b>7</b>	<b>6</b>	<b>5</b>	<b>3</b>

Source: *Fisheries Division, Ministry of Agriculture*

**Table 5.4: Marine Reserves**

Reserve	Year Established	Area (Acres)
Cabrits National Park (Marine Section)	1986	1053
Soufriere/Scottshead Marine Reserve (SSMR)	1998	1606.28
<b>Total</b>		<b>2659.28</b>

Source: Forestry and Wildlife Division and Fisheries Division, Ministry of Agriculture, 2008 update

**Table 5.5: Type of Restrictions for Threatened and Protected Marine Species**

Species	Type of Season
Lobster	30th April - 1st September (Closed Season)
Turtles	1st June - 30th September (Closed Season)
Conch	Size of catch restricted

Source: Fisheries Division and the Ministry of Agriculture, 2008 update

**Comments:**

The period 1st June - 30th September (Annually), is the official closed season for hunting turtles (table 5.5). Outside that period, the animals can be captured but only at sea. Land catch is prohibited since the turtles come ashore to mate or hatch. With reference to conchs, the catch size is restricted to 18cm in length.

Table 5.6: Mangrove Area by Location and Number of Trees (2001-2003 and 2007-2008)

Location	Species of Mangrove	Number of Trees				
		2001	2002	2003	2007	2008
Hampstead Bay, Marigot	White	24	24	24	11	11
Cabrits Swamp Portsmouth	White	69	69	69	...	...
Tou Ma Tante, Woodford Hill	Black	17	17	17	15	15
Eden-on-Sea, Wesley	Black	15	15	15	13	13
Nyah Estate, Grand Savanne Salisbury	Black	9	9	9	...	...
Bibay, LaPlaine	Black	46	46	46	...	...
Bottom Wesley	Black	<13	<14	<15	...	...
Bout Sab, LaPlaine	Black	8	8	8	...	...

Source: *Forestry and Wildlife Division, Ministry of Agriculture*

NB: Data for 2001 - 2003 for Eden-on-Sea, Wesley is revised

Data is not available for 2004 - 2006

...(not available)

**Comments:**

The area/stand of mangroves has remained almost constant over the years. A new area, the Bout Sab in La Plaine, with 8 mature trees, has been recorded from 2000.

## ENERGY

**Table 6.1: Electricity Generation, Sales and Consumers (2001–2006)**

Description	2001	2002	2003	2004	2005	2006
<b>Generation (1000 kWh)</b>						
Hydro	27,036	35,929	28,523	33,736	27,876	27,797
Diesel	53,929	44,203	48,404	45,493	55,779	57,619
<b>Total</b>	<b>80,965</b>	<b>80,132</b>	<b>76,927</b>	<b>79,229</b>	<b>83,655</b>	<b>85,416</b>
Diesel Fuel used in Generation (Imp.Gallon)	3,099,157	2,585,509	2,771,990	2,620,375	3,207,976	3,368,935
<b>Sales (1000 kWh)</b>						
Domestic	31,779	32,856	32,942	33,062	33,492	34,176
Commercial	19,817	25,597	24,142	26,721	27,642	28,908
Industrial	4,009	4,607	4,354	5,508	5,504	5,357
General Lighting	7,181	9	2	1	1	0
Street Lighting	1,128	1,125	1,295	1,127	1,150	1,130
<b>Total</b>	<b>63,914</b>	<b>64,194</b>	<b>62,735</b>	<b>66,419</b>	<b>67,789</b>	<b>69,571</b>
<b>Consumers at Year End</b>						
Domestic	23,069	23,210	24,333	25,181	24,851	27,436
Commercial	2,440	2,992	2,828	3,328	3,536	3,896
Hotels/	21	18	60	142	274	307
Industrial	42	33	35	39	39	38
Street Lighting	229	239	253	282	320	331
General Lighting	864	3	4	8	5	0
<b>TOTAL</b>	<b>26,665</b>	<b>26,495</b>	<b>27,513</b>	<b>28,980</b>	<b>29,025</b>	<b>32,008</b>

Source: Dominica Electricity Services

Note: The significant decline in general lighting from 2002 reflects the company's redistribution of general lighting to the commercial section.

**Table 6.2: Per Capita Energy Use/day (2001 - 2006)  
Electricity**

Year	Domestic Consumption '000kwh	End of Year Population	Per Capita Use/day, kwh
2001	31779	70,401	1.24
2002	32856	70,362	1.28
2003	32942	70,340	1.28
2004	33062	70,494	1.28
2005	33492	70,836	1.29
2006	34176	71,180	1.31

Source: *Dominica Electricity Services Annual Report & Central Statistical Office*

Note: Per Capita use = Domestic Consumption/Population/365\*1000

**Table 6.3 Fuel Imports (2000 - 2006)**

FUEL TYPE '000 m <sup>3</sup>	2000	2001	2002	2003	2004	2005	2006
Motor Spirit	21	18	18	18	17	18	15
Kerosene (illuminating)	0.41	0.54	0.64	0.73	0.00	0.20	0.14
Diesel	22	23	19	25	23	24	23

Source: *Central Statistical Office*

Note: '000m<sup>3</sup> - Thousand Cubic Metres

For 2000 and 2002 imports of kerosene are estimated

**Table 6.4 Imports of Selected Petroleum Products and Liquified Gases  
(2000 - 2006)**

'000kg

TYPE OF PRODUCTS	2000	2001	2002	2003	2004	2005	2006
Propane	2,257	1,927	1,893	1,846	1,786	1,890	1,842
Butane	61	113	407	300	154	414	332
Lubricating Oils	463	407	416	369	505	434	361
<b>TOTAL</b>	<b>2,781</b>	<b>2,447</b>	<b>2,716</b>	<b>2,515</b>	<b>2,445</b>	<b>2,738</b>	<b>2,535</b>

Source: *Central Statistical Office*

## CHAPTER 7:

## WATER

**Table 7.1: Potable Water Consumption and Distribution (2000–2006)**

Distribution	2000	2001	2002	2003	2004	2005	2006
<b>Domestic</b>							
Metered – number	8,405	8,969	10,252	11,127	13,506	14,335	15,351
Non-metered – number	5,231	4,701	3,843	3,428	3,343	3,189	3,307
Consumption ('000 gals)	336,071	358,543	373,160	395,108	363,104	465,883	473,600
<b>Industrial</b>							
Metered – number	65	61	63	62	1018	1073	1254
Consumption ('000 gals)	35,648	25,541	27,210	29,553	22,201	22,243	18,920
<b>Commercial</b>							
Metered – number	449	491	618	660	**	**	**
Consumption ('000 gals)	60,343	68,044	68,700	68,724	72,837	86,831	90,506
<b>Government</b>							
Metered –number	193	213	221	237	291	312	327
Consumption ('000 gals)	69,158	107,006	112,428	107,462	100,478	125,557	116,349
Standpipes – number	600	600	565	564	563	562	548
Consumption ('000 gals)	123,993	n.a.	n.a.	n.a.	172,953	172,646	168,345
<b>Total Consumption</b>	<b>625,213</b>	<b>559,134</b>	<b>581,498</b>	<b>600,847</b>	<b>750,294</b>	<b>892,631</b>	<b>720,162</b>

Source: Dominica Water & Sewerage Company

Note: Consumption from public standpipes was not officially recorded for 2001 to 2003 since flat pay system was used.

\*\* Data for number of meters for commercial is included in industrial.

**Table 7.2 Per Capita Domestic Water Consumption  
2000 - 2006**

Year	Domestic Consumption gals '000 gals	End of year Population	Per Capita Consumption (gals) (Per day)
2000	336071	71443	12.9
2001	358543	70401	14.0
2002	373160	70363	14.5
2003	395108	70340	15.4
2004	363104	70494	14.1
2005	465883	70836	18.0
2006	473600	71180	18.2

Source: Central Statistical Office & Dominica Water & Sewerage Company

Notes: gals: gallons

Per Capita = Consumption/Population/365\*1000

**Table 7.2.1: Per Capita Total Water Consumption 2000-2006**

Year	Consumption '000 gals	End of Year Population	Per Capita Consumption (gals) (Per day)
2000	625,213	71,443	24.0
2001	559,134	70,401	21.8
2002	581,498	70,363	22.6
2003	600,847	70,340	23.4
2004	750,294	70,494	29.2
2005	892,631	70,836	34.5
2006	720,162	71,180	27.7

Source : Central Statistical Office & Dominica Water & Sewerage Company Ltd.

Notes: gals: gallons

Per Capita = Consumption/Population/365\*1000

**Table 7.3: Percentage Distribution of Households by Type of Water Facility (1970, 1981, 1991 and 2001)**

Type of Water Facility	1970	1981	1991	2001
Private, piped into dwelling	5.1	9.3	10.0	5.1
Private catchment not piped	2.2	1.6	2.0	2.3
Public catchment piped	...	...	...	1.5
Public, piped into dwelling	8.3	12.7	29.6	46.3
Public, piped into yard	7.4	9.5	10.6	11.7
Public Standpipe	51.1	47.3	37.2	27.3
Public Well or Tank	0.7	1.0	2.6	1.2
Other	25.2	18.5	7.9	4.5
<b>Total</b>	<b>100</b>	<b>100.0</b>	<b>100.0</b>	<b>100.0</b>

Sources: 1970, 1981, 1991, and 2001 Population and Housing Censuses

## CHAPTER 8:

## WASTE

**Table 8.1 Monthly Solid Waste Disposal  
2007**

Months	Household	Commercial	Industrial	Institutional	Ship Generated	Medical	Green	Total
JAN	422790	26790	181740	6260	2200	880	1120	<b>641780</b>
FEB	278020	15450	204030	5960	1060	5300	790	<b>510610</b>
MAR	420970	21870	146510	11600	1940	4520	1700	<b>609110</b>
APR	262950	20170	115720	7270	2050	4390	390	<b>412940</b>
MAY	411360	24860	115930	10770	1440	260	20	<b>564640</b>
JUN	343400	14200	138810	8660	1830	2600	2300	<b>511800</b>
JUL	402770	23620	214180	27190	1920	7990	220	<b>677890</b>
AUG	284160	25510	230060	14210	1990	5460	6660	<b>568050</b>
SEP	326590	20910	185040	8670	2990	9840	1120	<b>555160</b>
OCT	535608	55202	410789	20548	3738	6752	762	<b>1033399</b>
NOV	423130	35329	267013	16027	6018	6463	495	<b>754475</b>
DEC	1049362	192896	715595	19938	9328	6797	12375	<b>2006291</b>
<b>TOTAL</b>	<b>5161110</b>	<b>476807</b>	<b>2925417</b>	<b>157103</b>	<b>36504</b>	<b>61252</b>	<b>27952</b>	<b>8846145</b>

Source: Dominica Solid Waste Management Corporation

**Table 8.1.1 Monthly Solid Waste Disposal  
2008**

(Kg)	Months	Household	Commercial	Industrial	Institutional	Ship Generated	Medical	Green	Total
JAN	441850	141720	155660	21620	4410	7130	3160	<b>775550</b>	
FEB	708960	105420	130580	26470	2110	4490	1250	<b>979280</b>	
MAR	822450	104600	146641	22710	3890	3210	970	<b>1104471</b>	
APR	876740	169460	115820	29520	4100	1940	360	<b>1197940</b>	
MAY	619940	139740	122240	42940	2880	1560	1860	<b>931160</b>	
JUN	816080	190480	103820	52720	1660	5800	920	<b>1171480</b>	
JUL	583440	160700	101900	21640	1470	1540	2400	<b>873090</b>	
AUG	704380	129260	109080	22540	3990	2140	1600	<b>972990</b>	
SEP	553900	146240	104933	30040	1980	1880	3940	<b>842913</b>	
OCT	1265200	919020	571280	112440	2985	700	1430	<b>2873055</b>	
NOV	729330	258230	175750	62710	6613	640	420	<b>1233693</b>	
DEC	1813920	1667920	646740	78000	10240	1220	10450	<b>4228490</b>	
<b>TOTAL</b>	<b>9936190</b>	<b>4132790</b>	<b>2484444</b>	<b>523350</b>	<b>46328</b>	<b>32250</b>	<b>28760</b>	<b>17184112</b>	

Source: Dominica Solid Waste Management Corporation

Note: The significant increase in waste disposal for 2008 is mainly due to wider national coverage of waste collection in both urban, semi-urban and rural areas.

**Table 8.2 Annual Expenditure on Solid Waste Management  
1998/1999 - 2005/2006**

Year	EC \$'000
1998/1999	2226
1999/2000	2213
2000/2001	2992
2001/2002	3299
2002/2003	3136
2003/2004	3391
2004/2005	3749
2005/2006	3757

Source: *Solid Waste Management Corporation*

**Table 8.3: Per Capita Waste Disposal (2007- 2008)**

Year	Total Waste Disposal ('000) kg	End of Year Population	Per Capita Waste Disposal (kg) (Per day)
2007	8,846	71,335	0.34
2008	17,184	71,700	0.66

Source: *Dominica Solid Waste Corporation & Central Statistical Office*

**Notes:**

Per Capita = Total Waste/population/365\*1000

**Table 8.4 Per Capita Household Waste (2007 - 2008)**

Year	Total Waste Disposal('000)	End of Year Population	Per Capita Waste Disposal (kg) per day
2007	5161	71335	0.20
2008	9936	71700	0.38

Source: *Dominica Solid Waste Corporation & Central Statistical Office*

**Notes:**

Per Capita = Total Waste/population/365\*1000

## CHAPTER 9:

## TRANSPORT

**Table 9.1: Imports of Motor Vehicles by Type (1998–2007)**

Year	Tractors	Coaches, Buses & Mini Buses	Motor Cars	Dumpers	Lorries (Trucks)	Total
1998	13	107	607	195	3	<b>925</b>
1999	15	143	878	430	11	<b>1477</b>
2000	16	93	765	441	10	<b>1325</b>
2001	12	57	554	144	13	<b>780</b>
2002	6	66	491	165	12	<b>740</b>
2003	4	70	485	129	16	<b>704</b>
2004	8	102	607	179	15	<b>911</b>
2005	19	148	733	237	21	<b>1158</b>
2006	4	74	574	252	5	<b>909</b>
2007	23	96	589	277	12	<b>997</b>

Source: Central Statistical Office and Customs Department

**Table 9.2: Number of Motor Vehicle Licensed**

**(1999 – 2006)**

Year	NUMBER OF MOTOR VEHICLES LICENSED DURING THE YEAR (1)							Total
	Private Cars (2)	Taxis	Buses	Motor Cycles (3)	Trucks (4)	Jeeps	Tractors (5)	
1999	5,846	158	1184	324	1,748	1331	47	10,638
2000	5,630	185	1371	437	2,057	1682	62	11,424
2001	5,483	208	1494	527	2,199	1971	68	11,950
2002	5,413	228	1593	656	2,315	2156	71	12,432
2003	5,470	243	1693	775	2,414	2110	77	12,782
2004	5,705	258	1838	851	2,525	2330	80	13,587
2005	6,284	316	2145	933	2,748	2602	84	15,112
2006	6,624	336	2239	1020	2,918	2709	85	15,931

Sources: Traffic Department, Commonwealth of Dominica Police Force, 1999 to 2002 and Inland Revenue Division, 2003 to 2006

Notes: (1) including tax-exempt vehicles

(2) including state cars

(3) including scooters and mopeds

(4) including pickups and vans

(5) including excavators and trailers

**Table 9.3: Number of Motor Vehicles Licensed per One Hundred Population  
(1999 - 2006)**

Year	Number of Vehicles Licensed	End of Year Population	Vehicles per hundred persons
1999	10,638	71,644	15
2000	11,424	71,443	16
2001	11,950	70,401	17
2002	12,432	70,363	18
2003	12,782	70,340	18
2004	13,587	70,494	19
2005	15,112	70,836	21
2006	15,931	71,180	22

Source: *Traffic Department & Central Statistical Office*

Notes: Vehicles per hundred person = Number of Vehicles Licensed/Population \*100

**Table 9.4: Aircraft Movement and Cargo Handled  
(1999 - 2006)**

Year	Total Number of Aircraft Movements	Cargo (kg)	
		Set Down	Picked Up
1999	13,898	742,134	355,561
2000	14,504	692,531	292,864
2001	16,710	490,712	223,746
2002	15,118	429,764	199,750
2003	14,308	376,456	146,849
2004	14,283	467,077	206,594
2005	14,290	473,877	190,591
2006	14,854	404,160	295,249

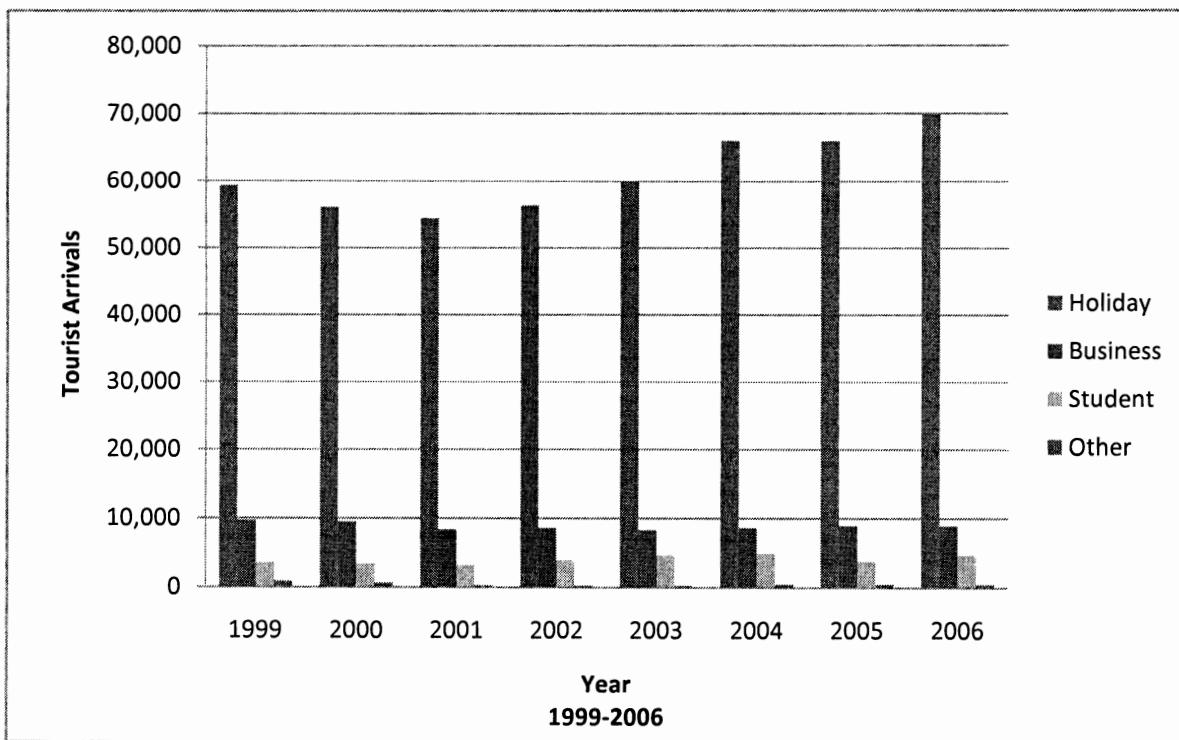
Source: *Travel Report, Central Statistical Office*

**Table 10.1: Tourist Arrivals by Purpose of Visit (1999 - 2006)**

Year	Holiday	Business	Student	Other	Total
1999	59,331	9,711	3,527	937	73,506
2000	56,051	9,528	3,347	672	69,598
2001	54,451	8,416	3,197	329	66,393
2002	56,348	8,624	3,936	285	69,193
2003	59,919	8,369	4,634	268	73,190
2004	66,013	8,689	4,896	489	80,087
2005	65,938	8,972	3,804	543	79,257
2006	69,921	8,950	4,698	472	84,041

Source: Travel Report, Central Statistical Office

Note: Data for students records more than one entry for the year particularly for students in off-shore educational institutions

**Chart 5: Tourist Arrivals by Purpose of Visit (1999 - 2006)**

**Table 10.2: Visitor Arrival by Mode of Travel (1999 - 2006)**

Mode of Travel	1999	2000	2001	2002	2003	2004	2005	2006
AIR	53,531	49,887	47,258	49,283	51,711	56,242	58,586	61,631
SEA	23,899	22,367	21,114	21,586	25,407	26,422	21,321	23,336
CRUISE SHIP	202,003	239,796	207,627	136,859	177,044	383,614	301,511	379,643

Source: *Travel Report, Central Statistical Office*

**Table 10.3: Registered Hotels and Guesthouses (1995 – 2008)**

Year	Hotels		Guesthouses		Apartment & Cottages		Total	
	NO	NO. OF ROOMS	NO.	NO. OF ROOMS	NO.	NO. OF ROOMS	NO.	NO. OF ROOMS
1995	20	335	18	160	20	93	58	588
1996	17	422	24	225	25	117	66	764
1997	16	504	23	224	20	96	59	824
1998	18	534	24	219	21	94	63	847
1999	19	563	24	213	21	91	64	867
2000	19	562	25	228	22	100	66	890
2001	19	571	25	218	22	100	66	889
2002	19	571	27	230	25	130	71	931
2003	20	571	25	230	25	130	71	931
2004	20	442	26	243	22	106	68	791
2005	20	442	26	239	22	106	68	787
2006	21	452	32	247	25	119	78	818
2007	21	441	37	276	34	184	92	901
2008	22	446	39	288	35	186	96	920

Source: *Travel Report, Central Statistical Office and Discover Dominica Authority*

Number of Hotels Rooms 1995 to 2008 revised

**Table 10.4: Number of Visitors to Tourist Attraction Sites (2001-2007)**

<b>Site</b>	<b>2001</b>	<b>2002</b>	<b>2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>TOTAL 2001 - 2007</b>
Emerald Pool	82,440	52,094	61,306	116,732	77,537	93,950	78,875	562,934
Trafalgar Falls	85,602	49,052	66,901	130,843	93,439	110,879	107,849	644,565
Soufriere Sulphur Springs	11,361	9,340	6,786	16,674	14,696	14,422	14,273	87,552
Middleham Falls	5,088	4,251	5,161	7,873	5,569	5,197	3,927	37,066
Indian River	14,863	10,852	16,134	19,170	13,828	17,466	16,242	108,555
Cabrits National Park	14,201	14,013	13,969	13,966	12,461	12,392	15,426	96,428
Syndicate Nature Trail	513	219	314	422	406	249	259	2,382
Boiling Lake	2,870	3,653	3,451	4,282	3,394	4,410	4,394	26,454
Boeri/Fresh Water Lakes	4,898	5,034	4,712	6,018	10,690	16,517	11,479	59,348
<b>TOTAL</b>	<b>221,836</b>	<b>148,508</b>	<b>178,734</b>	<b>315,980</b>	<b>232,020</b>	<b>275,482</b>	<b>252,724</b>	<b>1,625,284</b>

Source: Forestry Wildlife & Parks Division, Ministry of Agriculture

**CHAPTER 11:****NATURAL DISASTER****Table 11.1: Natural Disasters, Number of Fatalities and Estimated Damage**

Year	Name of Disaster	No. of Persons Killed	Estimated Damage EC\$M
1979	David	42	86.8
1979	Frederick	0	...
1980	Allen	0	...
1984	Klaus	0	...
1988	Gilbert	0	...
1989	Hugo	0	69.0
1994	Debbie	0	30.0
1995	Marilyn	1	...
1995	Luis	0	...
1995	Iris	0	...
1999	Lenny	1	31.0
2004	Earthquake	0	90.0
2007	Dean	3	173.7
2008	Omar	0	4.5

Sources: *Dominica, Natural Disasters and Economic Development in a Small Island State, Disaster Coordinating Unit, and OECS Secretariat, Rapid Assessment Report, October 2008, Department of Local Government*

Note: ... not available

Except for 2004 all disasters were Hurricanes

**Table : 11.2 Natural Disasters<sup>1</sup> by year**

Item	1979	1989	1994	1995	1999	2004	2007	2008
Type of disaster <sup>2</sup>	H	H	TS	H 27/8/95 05/9/95 18/9/95	H	E/L	H	H
Date started <sup>3</sup>	29/8/79	17/09/89	...		18-19/11/99	21/11/04	17/08/03	16/10/08
Total casualties: (number)	63042	...	...	...	...	...	29	0
of which: dead	42	...	...	1	...	0	3	0
of which: injured	3000	...	...	...	...	...	26	....
of which: missing	...	...	...	...	...	0	0	0
of which: homeless	60000	...	...	...	...	...	50	....
Total population affected <sup>4</sup> (number).	75000	...	...	...	602	19527		253*
Mean Population	77057	72055	72413	72603	71815	70417	71285	71545
Damage (million national currency) <sup>5</sup>	86.8	69.0	30.0	366.0	31.0	90.0	173.7	4.5

Source: Disaster Coordinating Unit and OECS Macro-socio economic assessment.

**Notes :**

A combined assessment was done for the landslide and earthquake in 2004 since the occurrence was about the same time.

H. Hurricane, TS: Tropical Storms, E/L: Earthquake/Landslide

1. A natural event which overwhelms local capacity, necessitating a request for national or international assistance, or is recognised as such by a multilateral agency, or by at least two sources, such as national, regional or international assistance groups and the media. There are two types: sudden-impact disasters e.g. earthquakes; or those that develop gradually, e.g. drought.
2. Avalanches, floods, earthquakes, cyclones, torrential rains, volcanic eruptions, typhoons, droughts, landslides, mudslides, fires, blizzards, tsunamis, etc.
3. For sudden-impact disasters: onset date;
4. Covers all casualties, as well as others whose basic requirements for food, shelter, sanitation and medical, etc. were adversely affected.
5. Estimated value of all damages and economic losses directly related to the occurrence of the given disaster.

The economic impact be direct (e.g. damage to infrastructure, crops, housing) or indirect (e.g. loss of revenues, unemployment, market destabilization).

\*Number of families

US\$1.00 is equivalent to \$2.7169 National Currency

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