

**Appendix II: Section 4.0 (4) 90% Upper Prediction Limit (UPL) MLE 100-Year Mean Return Period Event**

Return Period	Wind Speed	
	50% UPL	90% UPL
50 years	106	119
100 years	118	134

**Airports**

1	2	3	4	5	5a	5b	5c	5d	6	7	8	9	10	11	12	13	14	15
Struct No.	Parish	Year Built	Elevation ft.	Distance from coast	K <sub>2</sub>	$\sqrt{K_{zt}}$	$\sqrt{K_z}$	$\sqrt{K_T}$	Site Speed mph	Struct. Damage Ratio	Building Value	Content Damage Ratio	Contents Value	Equipment Damage Ratio	Ext.Equip Value	Structural Damage \$	Content Damage \$	Equipment Damage \$
1-1	St Andrew	1973	40	.25 miles	0.6	1.258	1.000	1.258	169	0.908	2,500,000	0.978	400,000	0.908		2,271,065	391,386	-
1-2	St Andrew	1988	40	.25	0.6	1.258	1.000	1.258	169	0.908	800,000	0.978	100,000	0.908	600,000	726,741	97,847	545,056
2 (1-3)	St Andrew	1994	40	.25	0.6	1.258	1.000	1.258	169	0.908	1,200,000	0.978	20,000	0.908	250,000	1,090,111	19,569	227,107
4	St Paul	1986	20	300 ft	0.6	1.258	1.000	1.258	169	0.841	1,600,000	0.954	800,000	0.841	300,000	1,346,074	763,448	252,389
5	St Paul	1986	20	300 ft	0.6	1.258	1.000	1.258	169	0.841	600,000	0.954	70,000	0.841	250,000	504,778	66,802	210,324
										S	6,700,000		1,390,000		1,400,000	5,938,768	1,339,052	1,234,875

**Runways**

1	2	3	4	5	6	7	8	9
Length of Runway	Elevation ft.	Replace-ment Cost/foot	Total Replace-ment Cost	Erosion Potential	Pavement Resistance	Failure Likelihood	Failure Probability	Pavement Damage
4,800	40	4,000	19,200,000	VH	VH	H	0.1	1,920,000
2,500	40	3,500	8,750,000	VH	VH	H	0.1	875,000
		S	27,950,000					2,795,000

Note: All bitumen surfaced

**Electricity Generation**

1	2	3	4	5	5a	5b	5c	5d	6	7	8	9	10	11	12	13	14	15
Struct No.	Parish	Year Built	Elevation ft.	Distance from coast	K <sub>2</sub>	$\sqrt{K_{zt}}$	$\sqrt{K_z}$	$\sqrt{K_T}$	Site Speed mph	Struct. Damage Ratio	Building Value	Content Damage Ratio	Contents Value	Equipment Damage Ratio	Ext.Equip Value	Structural Damage \$	Content Damage \$	Equipment Damage \$
6	St George	1958	60	.25 mls	0.6	1.258	1.000	1.258	169	0.937	1,900,000	0.981	14,100,000	0.937	6,500,000	1,779,436	13,826,192	6,087,543
9	St George	1958	300	5 mls	1.0	1.430	1.000	1.430	192	0.999	400,000	1.000	1,800,000	0.999		399,768	1,799,312	-
10	St George	1974	250	3 mls	0.8	1.344	1.000	1.344	180	0.997	600,000	0.998	3,800,000	0.997	6,500,000	598,255	3,791,047	6,481,098
11	St George	1974	250	3 mls	0.8	1.344	1.000	1.344	180	0.997	2,100,000	0.998	15,400,000	0.997	53,000,000	2,093,893	15,363,718	52,845,876
12	St George	1962	40	500 pt	0.6	1.258	1.000	1.258	169	0.908	2,000,000	0.978	500,000	0.908		1,816,852	489,233	-
7	St John	1985	40	1 ml	0.7	1.301	1.000	1.301	174	0.931	200,000	0.980	2,000,000	0.931		186,122	1,960,060	-
8	St Andrew	1985	80	.5 ml	0.6	1.258	1.000	1.258	169	0.949	100,000	0.982	750,000	0.949		94,894	736,697	-
										S	7,300,000		38,350,000		66,000,000	6,969,219	37,966,258	65,414,517

Notes: Ext. equipment value in the case of Power generation building #10 and #11 consists of headworks

**Utility Poles**

1. Low Voltage Poles

1	2	3	4	5	6	7	8a	8b	8c	8d	9	10	11	12	13	14
Parish	No. of poles	Elevation ft.	Design Wind Speed mph	Factor of Safety	Failure Wind Speed	Standard Deviation	K <sub>2</sub>	$\sqrt{K_{zt}}$	$\sqrt{K_z}$	$\sqrt{K_T}$	Site Speed mph	z	P <sub>f</sub>	Replacement Cost	Total Replacement Cost	Damage to Poles (\$)
St George	1025	350	110	1.1	121	36.3	0.6	1.258	1.000	1.258	168.57	1.3105	0.9050	1,070	1,096,750	992,548
St Paul	410	250	110	1.1	121	36.3	0.6	1.258	1.000	1.258	168.57	1.3105	0.9050	1,150	471,500	426,703
St Joseph	248	500	110	1.1	121	36.3	0.7	1.301	1.000	1.301	174.33	1.4693	0.9291	1,100	272,800	253,463
St Peter	512	500	110	1.1	121	36.3	0.6	1.258	1.000	1.258	168.57	1.3105	0.9050	1,150	580,800	525,618
St John	540	200	110	1.1	121	36.3	0.6	1.258	1.000	1.258	168.57	1.3105	0.9050	1,250	675,000	610,869
St Andrew	720	200	110	1.1	121	36.3	0.7	1.301	1.000	1.301	174.33	1.4693	0.9291	1,250	900,000	836,206
St David	615	250	110	1.1	121	36.3	0.6	1.258	1.000	1.258	168.57	1.3105	0.9050	1,250	768,750	695,711
St Patrick	590	300	110	1.1	121	36.3	0.6	1.258	1.000	1.258	168.57	1.3105	0.9050	1,200	708,000	640,733
St Luke	245	200	110	1.1	121	36.3	0.5	1.215	1.000	1.215	162.81	1.1518	0.8753	1,150	281,750	246,615
St Mark	215	300	110	1.1	121	36.3	0.5	1.215	1.000	1.215	162.81	1.1518	0.8753	1,150	247,250	216,417
S															6,002,600	5,444,885

2. High Voltage Poles

1	2	3	4	5	6	7	8a	8b	8c	8d	9	10	11	12	13	14
Parish	No. of poles	Elevation ft.	Design Wind Speed mph	Factor of Safety	Failure Wind Speed	Standard Deviation	K <sub>2</sub>	$\sqrt{K_{zt}}$	$\sqrt{K_z}$	$\sqrt{K_T}$	Site Speed mph	z	P <sub>f</sub>	Replacement Cost	Total Replacement Cost	Damage to Poles (\$)
St George	610	350	120	1.1	132	39.6	0.6	1.258	1.000	1.258	168.57	0.9235	0.8221	1,300	793,000	651,954
St Paul	160	250	120	1.1	132	39.6	0.6	1.258	1.000	1.258	168.57	0.9235	0.8221	1,400	224,000	184,158
St Joseph	148	500	120	1.1	132	39.6	0.7	1.301	1.000	1.301	174.33	1.0690	0.8575	1,400	207,200	177,669
St Peter	165	500	120	1.1	132	39.6	0.6	1.258	1.000	1.258	168.57	0.9235	0.8221	1,500	247,500	203,479
St John	156	200	120	1.1	132	39.6	0.6	1.258	1.000	1.258	168.57	0.9235	0.8221	1,600	264,000	217,044
St Andrew	456	200	120	1.1	132	39.6	0.7	1.301	1.000	1.301	174.33	1.0690	0.8575	1,600	727,000	623,384
St David	490	250	120	1.1	132	39.6	0.6	1.258	1.000	1.258	168.57	0.9235	0.8221	1,600	784,000	644,555
St Patrick	282	300	120	1.1	132	39.6	0.6	1.258	1.000	1.258	168.57	0.9235	0.8221	1,400	394,800	324,579
St Luke	110	200	120	1.1	132	39.6	0.5	1.215	1.000	1.215	162.81	0.7780	0.7817	1,400	154,000	120,386
St Mark	105	300	120	1.1	132	39.6	0.5	1.215	1.000	1.215	162.81	0.7780	0.7817	1,400	147,000	114,914
S															3,942,500	3,262,120

**Health Services Buildings**

1	2	3	4	5	5a	5b	5c	5d	6	7	8	9	10	11	12	13	14	15
Struct No.	Parish	Year Built	Elevation ft.	Distance from coast	K <sub>2</sub>	$\sqrt{K_{zt}}$	$\sqrt{K_z}$	$\sqrt{K_T}$	Site Speed mph	Struct. Damage Ratio	Building Value	Content Damage Ratio	Contents Value	Equipment Damage Ratio	Ext.Equip Value	Structural Damage \$	Content Damage \$	Equipment Damage \$
1	St George	1962	300	1000'	0.6	1.258	1.000	1.258	169	0.991	2,600,000	0.995	300,000	0.991		2,575,326	298,397	-
2	St George	1962	300	1000'	0.6	1.258	1.000	1.258	169	0.991	1,800,000	0.995	2,500,000	0.991		1,782,918	2,486,643	-
3	St George	1978	300	1000'	0.6	1.258	1.000	1.258	169	0.991	1,400,000	0.995	1,500,000	0.991		1,386,714	1,491,986	-
4	St George	1995	300	1000'	0.6	1.258	1.000	1.258	169	0.991	8,000,000	0.995	2,000,000	0.991		7,924,080	1,989,314	-
5	St George	1892	300	1000'	0.6	1.258	1.000	1.258	169	0.991	2,000,000	0.995	8,000,000	0.991		1,981,020	7,957,256	-
6	St George	1995	300	1000'	0.6	1.258	1.000	1.258	169	0.991	6,000,000	0.995	2,000,000	0.991		5,943,060	1,989,314	-
7	St George	1987	300	1000'	0.6	1.258	1.000	1.258	169	0.991	1,500,000	0.995	5,000,000	0.991		1,485,765	4,973,285	-

8	St John	1994	100	1000'	0.6	1.258	1.000	1.258	169	0.958	4,000,000	0.983	1,200,000	0.958		3,833,432	1,179,984	-		
9	St Andrew	1988	200	400'	0.6	1.258	1.000	1.258	169	0.981	2,500,000	0.991	600,000	0.981		2,451,943	594,487	-		
10	St Patrick	1986	300	1500'	0.6	1.258	1.000	1.258	169	0.991	1,200,000	0.995	300,000	0.991		1,188,612	298,397	-		
11 (20)	St David	1998	250	500'	0.6	1.258	1.000	1.258	169	0.987	400,000	0.993	30,000	0.987		394,659	29,794	-		
12 (4)	St Andrew	1991	300	1000'	0.6	1.258	1.000	1.258	169	0.991	800,000	0.995	50,000	0.991		792,408	49,733	-		
											S									
												32,200,000		23,480,000			-	31,739,937	23,338,589	-

Notes: Structure #1-7 main Hospital (Roseau) Princess Margaret Hosiptal  
Structure #1-10 Hosiptals: Total of four (4)  
Structure #11-12 Typical Health Clinics  
No. in bracket refer to number of similar facilities  
replacement Values for equipment + - 10% margin of error.

**Public Buildings**

1	2	3	4	5	5a	5b	5c	5d	6	7	8	9	10	11	12	13	14	15
Struct No.	Parish	Year Built	Elevation ft.	Distance from coast	K <sub>2</sub>	$\sqrt{K_{zt}}$	$\sqrt{K_z}$	$\sqrt{K_T}$	Site Speed mph	Struct. Damage Ratio	Building Value	Content Damage Ratio	Contents Value	Equipment Damage Ratio	Ext.Equip Value	Structural Damage \$	Content Damage \$	Equipement Damage \$
1	St George	1970	60	0.5	0.6	1.258	1.000	1.258	169	0.936	15,000,000	0.980	1,400,000	0.936		14,037,570	1,371,828	-
2	St George	1965	60	0.5	0.6	1.258	1.000	1.258	169	0.936	2,000,000	0.980	1,500,000	0.936		1,871,676	1,469,816	-
3	St George	1964	60	0.5	0.6	1.258	1.000	1.258	169	0.936	35,000,000	0.980	3,200,000	0.936		32,754,330	3,135,606	-
4	St George	1972	60	0.5	0.6	1.258	1.000	1.258	169	0.936	4,000,000	0.980	1,600,000	0.936		3,743,352	1,567,803	-
3(5)	St George	1970	200	100'	0.6	1.258	1.000	1.258	169	0.981	1,000,000	0.991	3,000,000	0.981		980,777	2,972,433	-
6	St George	1992	60	100'	0.6	1.258	1.000	1.258	169	0.936	1,500,000	0.980	800,000	0.936		1,403,757	783,902	-
7	St George	1973	100	0.5	0.6	1.258	1.000	1.258	169	0.958	2,500,000	0.983	800,000	0.958		2,395,895	786,656	-
8	St George	1886	100	100'	0.6	1.258	1.000	1.258	169	0.958	800,000	0.983	2,000,000	0.958		766,686	1,966,640	-
9	St George	1984	30	80'	0.6	1.258	1.000	1.258	169	0.883	5,000,000	0.976	1,500,000	0.883		4,414,555	1,464,482	-
10	St George	1995	20	50'	0.6	1.258	1.000	1.258	169	0.841	3,000,000	0.954	1,200,000	0.841		2,522,154	1,145,172	-
11	St John	1970	20	100'	0.6	1.258	1.000	1.258	169	0.841	800,000	0.954	60,000	0.841		672,574	57,259	-
12	St John	1974	80	0.5	0.6	1.258	1.000	1.258	169	0.948	400,000	0.981	200,000	0.948		379,299	196,263	-
13	St Andrew	1974	120	300'	0.6	1.258	1.000	1.258	169	0.964	1,200,000	0.985	100,000	0.964		1,156,672	98,477	-
										S	72,200,000		17,360,000		-	67,099,298	17,016,335	-

NOTE:

1. Some contents values refer to historical, educational and cultural resources such as the public libraries and documentation centre.
2. The majority of the properties are not insured - both contents and buildings.
3. The replacement values for contents are "guesstimates".

**Schools & Colleges**

1	2	3	4	5	5a	5b	5c	5d	6	7	8	9	10	11	12	13	14	15
Struct No.	Parish	Year Built	Elevation ft.	Distance from coast	K <sub>2</sub>	$\sqrt{K_{zt}}$	$\sqrt{K_z}$	$\sqrt{K_T}$	Site Speed mph	Struct. Damage Ratio	Building Value	Content Damage Ratio	Contents Value	Equipment Damage Ratio	Ext.Equip Value	Structural Damage \$	Content Damage \$	Equipment Damage \$
1	St George	1964	30	0.5 mls	0.6	1.258	1.000	1.258	169	0.883	4,200,000	0.976	600,000	0.883		3,708,226	585,793	-
2	St George	1964	30	0.5 mls	0.6	1.258	1.000	1.258	169	0.883	1,600,000	0.976	50,000	0.883		1,412,658	48,816	-
3 (3)	St George	1954	40	0.5 mls	0.6	1.258	1.000	1.258	169	0.908	3,000,000	0.978	200,000	0.908		2,723,139	195,624	-
4	St George	1976	40	0.5 mls	0.6	1.258	1.000	1.258	169	0.908	1,200,000	0.978	50,000	0.908		1,089,256	48,906	-
3 (5)	St George	1981	100	1 ml	0.7	1.301	1.000	1.301	174	0.969	2,200,000	0.986	20,000	0.969		2,131,864	19,727	-
6	St George	1988	60	0.5 mls	0.6	1.258	1.000	1.258	169	0.936	800,000	0.980	20,000	0.936		748,670	19,598	-
7-1	St George	1852	40	0.5 mls	0.6	1.258	1.000	1.258	169	0.908	2,000,000	0.978	180,000	0.908		1,815,426	176,062	-
7-2	St George	1920	40	0.5 mls	0.6	1.258	1.000	1.258	169	0.908	3,800,000	0.978	250,000	0.908		3,449,309	244,530	-
7-3	St George	1960	40	0.5 mls	0.6	1.258	1.000	1.258	169	0.908	2,300,000	0.978	200,000	0.908		2,087,740	195,624	-
8	St George	1965	40	600ft	0.6	1.258	1.000	1.258	169	0.908	2,100,000	0.978	60,000	0.908		1,906,197	58,687	-
9	St George	1930	20	300ft	0.6	1.258	1.000	1.258	169	0.841	860,000	0.954	10,000	0.841		723,017	9,543	-
10	St George	1966	20	200ft	0.6	1.258	1.000	1.258	169	0.841	3,100,000	0.954	80,000	0.841		2,606,226	76,345	-
4 (11)	St George	1973	120	1 ml	0.7	1.301	1.000	1.301	174	0.975	3,600,000	0.989	400,000	0.975		3,510,929	395,430	-
2 (12)	St George	1998	120	1 ml	0.7	1.301	1.000	1.301	174	0.975	2,400,000	0.989		0.975		2,340,619	-	-
2 (13)	St George	1972	80	1 ml	0.7	1.301	1.000	1.301	174	0.962	3,400,000	0.984	200,000	0.962		3,271,113	196,854	-
14	St George	1982	80	1 ml	0.7	1.301	1.000	1.301	174	0.962	500,000	0.984	120,000	0.962		481,046	118,112	-
4 (15)	St Joseph	1975	250	1 ml	0.7	1.301	1.000	1.301	174	0.993	5,000,000	0.996	160,000	0.993		4,964,590	159,299	-
3 (16)	St John	1975	60	0.5 ml	0.6	1.258	1.000	1.258	169	0.936	3,600,000	0.980	40,000	0.936		3,369,017	39,195	-
2 (17)	St Andrew	1973	120	2 mls	0.75	1.323	1.000	1.323	177	0.979	2,400,000	0.990	40,000	0.979		2,350,714	39,611	-
2 (18)	St Andrew	1973	120	2 mls	0.75	1.323	1.000	1.323	177	0.979	1,000,000	0.990	15,000	0.979		979,464	14,854	-
										S	49,060,000		2,695,000		-	45,669,220	2,642,610	-

**Primary Schools**

1	2	3	4	5	5a	5b	5c	5d	6	7	8	9	10	11	12	13	14	15
Struct No.	Parish	Year Built	Elevation ft.	Distance from coast	K <sub>2</sub>	$\sqrt{K_{zt}}$	$\sqrt{K_z}$	$\sqrt{K_T}$	Site Speed mph	Struct. Damage Ratio	Building Value	Content Damage Ratio	Contents Value	Equipment Damage Ratio	Ext.Equip Value	Structural Damage \$	Content Damage \$	Equipement Damage \$
1	St George	1985	1,500	2	0.75	1.323	1.000	1.323	177	1.000	704,000	1.000	8,000	1.000		7,039,627	8,000	-
2 (2)	St Patrick	1980	500	1.7	0.75	1.323	1.000	1.323	177	0.999	1,500,000	0.999	20,000	0.999	4,000	1,498,748	19,983	3,997
3	St Patrick	1982	200	340	0.6	1.258	1.000	1.258	169	0.981	1,500,000	0.991	10,000	0.981	2,000	1,471,166	9,908	1,962
4	St Patrick	1957	1,400	1.4	0.7	1.301	1.000	1.301	174	1.000	1,500,000	1.000	10,000	1.000		1,499,796	10,000	-
5 (4)	St Patrick	1970	175	1000'	0.6	1.258	1.000	1.258	169	0.977	2,300,000	0.989	20,000	0.977		2,246,419	19,783	-
6 (3)	St George	1988	100	340'	0.6	1.258	1.000	1.258	169	0.958	5,200,000	0.983	10,000	0.958		4,983,462	9,833	-
7	St George	1988	100	1.5'	0.5	1.215	1.000	1.215	163	0.944	30,000	0.981		0.944		28,311	-	-
8	St George	1980	1250	1.8'	0.5	1.215	1.000	1.215	163	0.999	700,000	0.999	5,000	0.999		699,515	4,997	-
9	St George	1956	1750	4'	0.5	1.215	1.000	1.215	163	1.000	1,100,000	1.000	15,000	1.000		1,099,574	14,997	-
10	St Mark	1984	100	2300'	0.6	1.258	1.000	1.258	169	0.958	1,200,000	0.983	15,000	0.958		1,150,030	14,750	-
11 (2)	St Mark	1972	100	6'	0.5	1.215	1.000	1.215	163	0.944	850,000	0.981	8,000	0.944		802,148	7,845	-
12	St Mark		100		0.5	1.215	1.000	1.215	163	0.944	620,000	0.981	6,000	0.944		585,096	5,884	-
13	St Joseph	1986	700		0.8	1.344	1.000	1.344	180	1.000	7,000	1.000	5,000	1.000		6,997	4,999	-
14 (3)	St Andrew	1972	300		0.7	1.301	1.000	1.301	174	0.995	2,200,000	0.997	20,000	0.995		2,190,056	19,934	-
15 (5)	St Andrew	1978	250		0.7	1.301	1.000	1.301	174	0.993	2,200,000	0.996	20,000	0.993		2,184,420	19,912	-
16	St Andrew	1986	250		0.7	1.301	1.000	1.301	174	0.993	850,000	0.996	10,000	0.993		843,980	9,956	-
17 (2)	St Andrew	1975	50		0.7	1.301	1.000	1.301	174	0.941	1,200,000	0.980	12,000	0.941		1,129,465	11,765	-
18	St Andrew	1978	100	.25ml	0.6	1.258	1.000	1.258	169	0.958	700,000	0.983	10,000	0.958		670,851	9,833	-
19	St Andrew	1984	600	4 mls	0.9	1.387	1.000	1.387	186	1.000	800,000	1.000	20,000	1.000		799,775	19,998	-
20 (3)	St Andrew	1984	400	2 mls	0.75	1.323	1.000	1.323	177	0.999	1,200,000	0.999	25,000	0.999		1,198,638	24,966	-
21 (2)	St David	1984	400	1 ml	0.7	1.301	1.000	1.301	174	0.998	800,000	0.998	15,000	0.998		798,596	14,971	-
22	St David	1984	300	1 ml	0.7	1.301	1.000	1.301	174	0.995	800,000	0.997	15,000	0.995		796,384	14,950	-
23 (3)	St David	1972	200	.5 ml	0.6	1.258	1.000	1.258	169	0.981	2,200,000	0.991	40,000	0.981		2,157,709	39,632	-
24	St David	1972	200	.5 ml	0.6	1.258	1.000	1.258	169	0.981	300,000	0.991	10,000	0.981		294,233	9,908	-
25	St David	1988	20	100 ft	0.5	1.215	1.000	1.215	163	0.806	800,000	0.920	15,000	0.806		644,878	13,798	-
26 (3)	St David	1974	600	1.5 mls	0.7	1.301	1.000	1.301	174	0.999	800,000	0.999	15,000	0.999		799,373	14,989	-
27(4)	St David	1984	400	1 ml	0.7	1.301	1.000	1.301	174	0.998	800,000	0.998	15,000	0.998		798,596	14,971	-
28(3)	St Patrick	1973	200	.5 ml	0.6	1.258	1.000	1.258	169	0.981	2,500,000	0.991	60,000	0.981		2,451,943	59,449	-
29 (1)	St Patrick	1973	200	.5 ml	0.6	1.258	1.000	1.258	169	0.981	200,000	0.991	20,000	0.981		196,155	19,816	-
30(3)	St Patrick	1984	300	.5 ml	0.6	1.258	1.000	1.258	169	0.991	1,200,000	0.995	30,000	0.991		1,188,612	29,840	-
31 (4)	St George	1986	100	7 mls	1.0	1.430	1.000	1.430	192	0.993	1,600,000	0.996	70,000	0.993		1,588,669	69,693	-

32 (2)	St Joseph	1978	60	400'	0.6	1.258	1.000	1.258	169	0.936	1,200,000	0.980	30,000	0.936	1,123,006	29,396	-
33	St Peter	1974	40	200	0.6	1.258	1.000	1.258	169	0.908	1,600,000	0.978	70,000	0.908	1,452,341	68,468	-
34	St Peter	1974	20	100	0.6	1.258	1.000	1.258	169	0.841	1,000,000	0.954	40,000	0.841	840,718	38,172	-
35	St Peter	1984	20	100	0.6	1.258	1.000	1.258	169	0.841	700,000	0.954	20,000	0.841	588,503	19,086	-
36	St John	1955	20	500	0.6	1.258	1.000	1.258	169	0.841	2,200,000	0.954	60,000	0.841	1,849,580	57,259	-
37	St John	1982	200	600	0.6	1.258	1.000	1.258	169	0.981	800,000	0.991	15,000	0.981	784,622	14,862	-
38	St John	1976	200	600	0.6	1.258	1.000	1.258	169	0.981	600,000	0.991	10,000	0.981	588,466	9,908	-
39	St Paul	1972	300	400	0.6	1.258	1.000	1.258	169	0.991	1,500,000	0.995	30,000	0.991	1,485,765	29,840	-
40	St Paul	1995	100	300	0.6	1.258	1.000	1.258	169	0.958	1,500,000	0.983	30,000	0.958	1,437,537	29,500	-
41	St George	1995	100	400'	0.6	1.258	1.000	1.258	169	0.958	850,000	0.983	30,000	0.958	814,604	29,500	-
42	St George	1925	200	800'	0.6	1.258	1.000	1.258	169	0.981	2,000,000	0.991	60,000	0.981	1,961,554	59,449	-
43	St George	1981	200	600'	0.6	1.258	1.000	1.258	169	0.981	1,600,000	0.991	76,000	0.981	1,569,243	75,302	-
44	St George	1990	1,000	6 mls	1.0	1.430	1.000	1.430	192	1.000	800,000	1.000	20,000	1.000	800,000	20,000	-
S											61,047,000		1,045,000	6,000	59,139,158	1,030,104	5,958

**Ports**

1. Buildings

1	2	3	4	5	5a	5b	5c	5d	6	7	8	9	10	11	12	13	14	15
Struct No.	Parish	Year Built	Elevation ft.	Distance from coast	K <sub>2</sub>	$\sqrt{K_{zt}}$	$\sqrt{K_z}$	$\sqrt{K_T}$	Site Speed mph	Struct. Damage Ratio	Building Value	Content Damage Ratio	Contents Value	Equipment Damage Ratio	Ext.Equip Value	Structural Damage \$	Content Damage \$	Equipement Damage \$
1 \ 2	St George	1982	10	100ft	0.6	1.258	1.000	1.258	169	0.775	2,800,000	0.907		0.775		2,169,157	-	-
3 \ 4 \ 5	St George	1982	10	100ft	0.6	1.258	1.000	1.258	169	0.775	3,000,000	0.907	500,000	0.775	10,000,000	2,324,097	453,714	7,746,990
6	St George	1986	12	300ft	0.6	1.258	1.000	1.258	169	0.800	15,000	0.934		0.800		11,999	-	-
7/8/9	St George	1989	12	300ft	0.6	1.258	1.000	1.258	169	0.800	50,000	0.934		0.800		39,996	-	-
10/11	St George	1992	12	250ft	0.6	1.258	1.000	1.258	169	0.800	300,000	0.934		0.800		239,973	-	-
12	St George	1992	12	350ft	0.6	1.258	1.000	1.258	169	0.800	3,500,000	0.934	1,600,000	0.800		2,799,685	1,495,176	-
13	St George	1992	15	0	0.6	1.258	1.000	1.258	169	0.824	400,000	0.954	200,000	0.824		329,527	190,855	-
14/15	St George	1993	10	300ft	0.6	1.258	1.000	1.258	169	0.775	80,000	0.907	100,000	0.775		61,976	90,743	-
16	St John	1990	15	150ft	0.6	1.258	1.000	1.258	169	0.824	150,000	0.954	90,000	0.824	250,000	123,573	85,885	205,955
17	St John	1994	15	100ft	0.6	1.258	1.000	1.258	169	0.824	3,000,000	0.954	200,000	0.824		2,471,454	190,855	-
18	St Andrew	1997	20	10ft	0.6	1.258	1.000	1.258	169	0.861	250,000	0.970	50,000	0.861		215,190	48,521	-
S											13,545,000		2,740,000	10,250,000	10,786,626	2,555,748	7,952,945	

2. Wharves

1	2	3	4	5	6	7	8	9	10	11	12
Struct. No.	Year Built	Elevator in feet	Design Wave Height	Wave Elevation (ft)	Design Moment	Failure Moment	Moment due to Wind	z	Pr	Rep. Cost	Damage to Wharf
1	1976		9.0	17.84	13,635.55	20,453.32	15,750.70	-0.9197	0.1789	40,000,000	7,154,818
2	1992		9.0	17.84	13,635.55	20,453.32	15,750.70	-0.9197	0.1789	2,000,000	357,741
3	1992		9.0	17.84	13,635.55	20,453.32	15,750.70	-0.9197	0.1789	12,000,000	2,146,446
4	1993		4.0	7.93	4,191.75	6,287.62	5,110.75	-0.7487	0.2270	4,000,000	908,084
5	1993		4.0	7.93	4,191.75	6,287.62	5,110.75	-0.7487	0.2270	7,000,000	1,589,147
S										65,000,000	12,156,236

Main Road Networks

1	2	3	4	5	6	7	8	9
Parish	Miles of Paved Road	Replacement Cost/Mile	Total Replacement Cost	Erosion Potential	Pavement Resistance	Failure Likelihood	Failure Probability	Pavement Damage
St. John	16 mls	2,300,000	36,800,000	VH	M	VH	0.5	18,400,000
St. Peter	8 mls	1,600,000	12,800,000	VH	M	VH	0.5	6,400,000
St. Joseph	22.5	2,700,000	60,750,000	VH	M	VH	0.5	30,375,000
St. Paul	22.2	1,700,000	37,740,000	VH	M	VH	0.5	18,870,000
St. George	26 mls	3,050,000	79,300,000	VH	M	VH	0.5	39,650,000
St. Luke	3.5 mls	2,900,000	10,150,000	VH	M	VH	0.5	5,075,000
St. Mark	3.5 mls	2,900,000	150,000	VH	M	VH	0.5	75,000
St. Patrick	21 mls	2,000,000	42,000,000	VH	M	VH	0.5	21,000,000
St. David	27.2 mls	1,530,000	4,616,000	VH	M	VH	0.5	2,308,000
St. Andrew	33.5 mls	1,800,000	60,300,000	VH	M	VH	0.5	30,150,000
S			344,606,000					172,303,000

NOTE: Estimates allowed for replusement of major bridges and sea defences in areas where road bounds with coastline.



**Waste Management Sites**

1. Bins

1	2	3	4	5	6	7	8	9	10	11
Parish	No. of Bins	Cost/Bin	Cross Section at Area of Bin (s.f)	Weight of Bin in pounds	$\bar{z}$	s	b	Pf	Total Rep. Cost	Damage to Bins
St John	12	1800.00	28	700	-587.09	257.42	-2.28	0.9887	21,600	21,356
St Peter	6	1800.00	28	700	-587.09	257.42	-2.28	0.9887	10,800	10,678
St Joseph	6	1800.00	28	700	-587.09	257.42	-2.28	0.9887	10,800	10,678
St Paul	8	1800.00	28	700	-587.09	257.42	-2.28	0.9887	14,400	14,238
St George	44	1800.00	28	700	-587.09	257.42	-2.28	0.9887	79,200	78,306
St Luke	4	1800.00	28	700	-587.09	257.42	-2.28	0.9887	7,200	7,119
St Mark	4	1800.00	28	700	-587.09	257.42	-2.28	0.9887	7,200	7,119
St Patrick	8	1800.00	28	700	-587.09	257.42	-2.28	0.9887	14,400	14,238
S									165,600	163,731

8 C.Y CAPACITY BINS

1	2	3	4	5	6	7	8	9	10	11
Parish	No. of Bins	Cost/Bin	Cross Section at Area of Bin (s.f)	Weight of Bin in pounds	$\bar{z}$	s	b	Pf	Total Rep. Cost	Damage to Bins
St John	5	3200.00	15	1200	510.49	137.90	3.70	0.0001	16,000	2
St Peter	4	3200.00	15	1200	510.49	137.90	3.70	0.0001	12,800	1
St Joseph	5	3200.00	15	1200	510.49	137.90	3.70	0.0001	16,000	2
St Paul	4	3200.00	15	1200	510.49	137.90	3.70	0.0001	12,800	1
St George	18	3200.00	15	1200	510.49	137.90	3.70	0.0001	57,600	6
St Luke	4	3200.00	15	1200	510.49	137.90	3.70	0.0001	12,800	1
St Mark	3	3200.00	15	1200	510.49	137.90	3.70	0.0001	9,600	1
St Patrick	3	3200.00	15	1200	510.49	137.90	3.70	0.0001	9,600	1
S									147,200	16

NOTES:

- Existing collection system serves west coast of Dominica only.
- Solid Waste management office occupies space about 24' x 24' in a building of the Public works Department.
- Depth of 4.0 c.y bin 55"
- Depth of 8.0 c.y bin 79"
- Material: Steel

2. Trucks

1	2	3	4	5	6	7	8	9	10	11
Parish	No. of Collection Vehicles	Cost/Vehicle \$	Max X-area of Veh. (sq. ft.)	Weight of Vehicle (lb)	$\bar{z}$	s	b	Pf	Total Rep. Cost	Damage to Bins
St.George	5	172,000.00	167	13600	5919.51	1536.10	3.85	0.0001	860,000	50
St.George	1	195,000.00	200	16300	7094.71	1841.06	3.85	0.0001	195,000	11
S									1,055,000	61

NOTES: This represent all trucks owned by Waste Management Company.  
All of which are based in the Parish of St George - Roseau.

**SUMMARY**

<b>Infrastructure Element</b>	<b>Structure Replacement Cost (EC\$)</b>	<b>Contents Replacement Cost (EC\$)</b>	<b>Equipment Replacement Cost (EC\$)</b>	<b>Structural Damage (EC\$)</b>	<b>Content Damage (EC\$)</b>	<b>Equipment Damage (EC\$)</b>	<b>% PML</b>
<b>Airport Buildings</b>	6,700,000	1,390,000	1,400,000	5,938,768	1,339,052	1,234,875	89.70
<b>Runways</b>	27,950,000			2,795,000			10.00
<b>Electricity Generation Buildings</b>	7,300,000	38,350,000	66,000,000	6,969,219	37,966,258	65,414,517	98.84
<b>Utility Poles</b> Low Voltage	6,002,600			5,444,885			90.71
High Voltage	3,942,500			3,262,120			82.74
<b>Health Service Buildings</b>	32,200,000	23,480,000	-	31,739,937	23,338,589	-	98.92
<b>Public Buildings</b>	72,200,000	17,360,000	-	67,099,298	17,016,335	-	93.92
<b>Schools &amp; Colleges</b>	49,060,000	2,695,000	-	45,669,220	2,642,610	-	93.35
<b>Primary Schools</b>	61,047,000	1,045,000	6,000	59,139,158	1,030,104	5,958	96.90
<b>Ports</b> Buildings	13,545,000	2,740,000	10,250,000	10,786,626	2,555,748	7,952,945	80.25
Wharves	65,000,000			12,156,236			18.70
<b>Main Road Networks</b>	344,606,000			172,303,000			50.00
<b>Wastemanagement</b> 4 c.y. Bins	165,600			163,731			98.87
8 c.y. Bins	147,200			16			0.01
Vehicles	1,055,000			61			0.01
<b>Total</b>	<b>690,920,900</b>	<b>87,060,000</b>	<b>77,656,000</b>	<b>423,467,274</b>	<b>85,888,695</b>	<b>74,608,294</b>	<b>68.25</b>