

Appendix II: Section 4.0 (1) 50% Upper Prediction Limit (UPL) MLE 50-Year Mean Return Period Event

Return Period	Wind Speed (mph)	
	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 _z	$\sqrt{K_{zt}}$	$\sqrt{K_z}$	$\sqrt{K_T}$	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	133	0.641	2,500,000	0.694	400,000	0.641		1,601,513	277,749	-
1-2	St Andrew	1988	40	.25	0.6	1.258	1.000	1.258	133	0.641	800,000	0.694	100,000	0.641	600,000	512,484	69,437	384,363
2 (1-3)	St Andrew	1994	40	.25	0.6	1.258	1.000	1.258	133	0.641	1,200,000	0.694	20,000	0.641	250,000	768,726	13,887	160,151
4	St Paul	1986	20	300 ft	0.6	1.258	1.000	1.258	133	0.544	1,600,000	0.575	800,000	0.544	300,000	870,173	460,044	163,157
5	St Paul	1986	20	300 ft	0.6	1.258	1.000	1.258	133	0.544	600,000	0.575	70,000	0.544	250,000	326,315	40,254	135,965
S											6,700,000		1,390,000		1,400,000	4,079,210	861,371	843,636

Runways

1	2	3	4	5	6	7	8	9
Length of Runway	Elevation ft.	Replacement Cost/foot	Total Replacement Cost	Erosion Potential	Pavement Resistance	Failure Likelihood	Failure Probability	Pavement Damage
4,800	40	4,000	19,200,000	M	VH	L	0.001	19,200
2,500	40	3,500	8,750,000	M	VH	L	0.001	8,750
S			27,950,000					27,950

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 _z	$\sqrt{K_{zt}}$	$\sqrt{K_z}$	$\sqrt{K_T}$	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	133	0.699	1,900,000	0.775	14,100,000	0.699	6,500,000	1,327,756	10,931,702	4,542,324
9	St George	1958	300	5 mls	1.0	1.430	1.000	1.430	152	0.961	400,000	0.985	1,800,000	0.961		384,358	1,772,930	-
10	St George	1974	250	3 mls	0.8	1.344	1.000	1.344	142	0.927	600,000	0.980	3,800,000	0.927	6,500,000	556,458	3,723,126	6,028,295
11	St George	1974	250	3 mls	0.8	1.344	1.000	1.344	142	0.927	2,100,000	0.980	15,400,000	0.927	53,000,000	1,947,603	15,088,458	49,153,790
12	St George	1962	40	500 pt	0.6	1.258	1.000	1.258	133	0.641	2,000,000	0.694	500,000	0.641		1,281,210	347,186	-
7	St John	1985	40	1 ml	0.7	1.301	1.000	1.301	138	0.689	200,000	0.763	2,000,000	0.689		137,898	1,525,214	-
8	St Andrew	1985	80	.5 ml	0.6	1.258	1.000	1.258	133	0.743	100,000	0.836	750,000	0.743		74,324	626,794	-
S											7,300,000		38,350,000		66,000,000	5,709,607	34,015,409	59,724,409

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 ₂	$\sqrt{K_{zt}}$	$\sqrt{K_z}$	$\sqrt{K_T}$	Site Speed mph	z	P _f	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	133.35	0.3402	0.6331	1,070	1,096,750	694,390
St Paul	410	250	110	1.1	121	36.3	0.6	1.258	1.000	1.258	133.35	0.3402	0.6331	1,150	471,500	298,523
St Joseph	248	500	110	1.1	121	36.3	0.7	1.301	1.000	1.301	137.91	0.4657	0.6793	1,100	272,800	185,312
St Peter	512	500	110	1.1	121	36.3	0.6	1.258	1.000	1.258	133.35	0.3402	0.6331	1,150	580,800	367,724
St John	540	200	110	1.1	121	36.3	0.6	1.258	1.000	1.258	133.35	0.3402	0.6331	1,250	675,000	427,365
St Andrew	720	200	110	1.1	121	36.3	0.7	1.301	1.000	1.301	137.91	0.4657	0.6793	1,250	900,000	611,366
St David	615	250	110	1.1	121	36.3	0.6	1.258	1.000	1.258	133.35	0.3402	0.6331	1,250	768,750	486,722
St Patrick	590	300	110	1.1	121	36.3	0.6	1.258	1.000	1.258	133.35	0.3402	0.6331	1,200	708,000	448,259
St Luke	245	200	110	1.1	121	36.3	0.5	1.215	1.000	1.215	128.79	0.2146	0.5850	1,150	281,750	164,813
St Mark	215	300	110	1.1	121	36.3	0.5	1.215	1.000	1.215	128.79	0.2146	0.5850	1,150	247,250	144,632
														S	6,002,600	3,829,104

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 ₂	$\sqrt{K_{zt}}$	$\sqrt{K_z}$	$\sqrt{K_T}$	Site Speed mph	z	P _f	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	133.35	0.0340	0.5136	1,300	793,000	407,267
St Paul	160	250	120	1.1	132	39.6	0.6	1.258	1.000	1.258	133.35	0.0340	0.5136	1,400	224,000	115,041
St Joseph	148	500	120	1.1	132	39.6	0.7	1.301	1.000	1.301	137.91	0.1491	0.5593	1,400	207,200	115,883
St Peter	165	500	120	1.1	132	39.6	0.6	1.258	1.000	1.258	133.35	0.0340	0.5136	1,500	247,500	127,110
St John	156	200	120	1.1	132	39.6	0.6	1.258	1.000	1.258	133.35	0.0340	0.5136	1,600	264,000	135,584
St Andrew	456	200	120	1.1	132	39.6	0.7	1.301	1.000	1.301	137.91	0.1491	0.5593	1,600	727,000	406,596
St David	490	250	120	1.1	132	39.6	0.6	1.258	1.000	1.258	133.35	0.0340	0.5136	1,600	784,000	402,645
St Patrick	282	300	120	1.1	132	39.6	0.6	1.258	1.000	1.258	133.35	0.0340	0.5136	1,400	394,800	202,760
St Luke	110	200	120	1.1	132	39.6	0.5	1.215	1.000	1.215	128.79	-0.0811	0.4677	1,400	154,000	72,025
St Mark	105	300	120	1.1	132	39.6	0.5	1.215	1.000	1.215	128.79	-0.0811	0.4677	1,400	147,000	68,751
														S	3,942,500	2,053,664

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 _z	$\sqrt{K_{zt}}$	$\sqrt{K_z}$	$\sqrt{K_T}$	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	133	0.888	2,600,000	0.977	300,000	0.888		2,309,653	293,054	-
2	St George	1962	300	1000'	0.6	1.258	1.000	1.258	133	0.888	1,800,000	0.977	2,500,000	0.888		1,598,990	2,442,118	-
3	St George	1978	300	1000'	0.6	1.258	1.000	1.258	133	0.888	1,400,000	0.977	1,500,000	0.888		1,243,659	1,465,271	-
4	St George	1995	300	1000'	0.6	1.258	1.000	1.258	133	0.888	8,000,000	0.977	2,000,000	0.888		7,106,624	1,953,694	-
5	St George	1892	300	1000'	0.6	1.258	1.000	1.258	133	0.888	2,000,000	0.977	8,000,000	0.888		1,776,656	7,814,776	-
6	St George	1995	300	1000'	0.6	1.258	1.000	1.258	133	0.888	6,000,000	0.977	2,000,000	0.888		5,329,968	1,953,694	-
7	St George	1987	300	1000'	0.6	1.258	1.000	1.258	133	0.888	1,500,000	0.977	5,000,000	0.888		1,332,492	4,884,235	-
8	St John	1994	100	1000'	0.6	1.258	1.000	1.258	133	0.768	4,000,000	0.871	1,200,000	0.768		3,070,968	1,045,088	-
9	St Andrew	1988	200	400'	0.6	1.258	1.000	1.258	133	0.847	2,500,000	0.959	600,000	0.847		2,117,985	575,634	-
10	St Patrick	1986	300	1500'	0.6	1.258	1.000	1.258	133	0.888	1,200,000	0.977	300,000	0.888		1,065,994	293,054	-
11 (20)	St David	1998	250	500'	0.6	1.258	1.000	1.258	133	0.872	400,000	0.973	30,000	0.872		348,642	29,200	-
12 (4)	St Andrew	1991	300	1000'	0.6	1.258	1.000	1.258	133	0.888	800,000	0.977	50,000	0.888		710,662	48,842	-
										S	32,200,000		23,480,000		-	28,012,293	22,798,660	-

Notes: Structure #1-7 main Hospital (Roseau) Princess Margaret Hospital
 Structure #1-10 Hospitals: 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 _z	$\sqrt{K_{zt}}$	$\sqrt{K_z}$	$\sqrt{K_T}$	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	1970	60	0.5	0.6	1.258	1.000	1.258	133	0.841	15,000,000	0.954	1,400,000	0.841		12,610,770	1,336,034	-
2	St George	1965	60	0.5	0.6	1.258	1.000	1.258	133	0.841	2,000,000	0.954	1,500,000	0.841		1,681,436	1,431,465	-
3	St George	1964	60	0.5	0.6	1.258	1.000	1.258	133	0.841	35,000,000	0.954	3,200,000	0.841		29,425,130	3,053,792	-
4	St George	1972	60	0.5	0.6	1.258	1.000	1.258	133	0.841	4,000,000	0.954	1,600,000	0.841		3,362,872	1,526,896	-
3(5)	St George	1970	200	100'	0.6	1.258	1.000	1.258	133	0.941	1,000,000	0.980	3,000,000	0.941		941,221	2,941,179	-
6	St George	1992	60	100'	0.6	1.258	1.000	1.258	133	0.841	1,500,000	0.954	800,000	0.841		1,261,077	763,448	-
7	St George	1973	100	0.5	0.6	1.258	1.000	1.258	133	0.894	2,500,000	0.977	800,000	0.894		2,233,805	781,786	-
8	St George	1886	100	100'	0.6	1.258	1.000	1.258	133	0.894	800,000	0.977	2,000,000	0.894		714,818	1,954,464	-
9	St George	1984	30	80'	0.6	1.258	1.000	1.258	133	0.760	5,000,000	0.859	1,500,000	0.760		3,798,115	1,289,082	-
10	St George	1995	20	50'	0.6	1.258	1.000	1.258	133	0.699	3,000,000	0.775	1,200,000	0.699		2,095,821	930,358	-
11	St John	1970	20	100'	0.6	1.258	1.000	1.258	133	0.699	800,000	0.775	60,000	0.699		558,886	46,518	-
12	St John	1974	80	0.5	0.6	1.258	1.000	1.258	133	0.872	400,000	0.973	200,000	0.872		348,642	194,668	-
13	St Andrew	1974	120	300'	0.6	1.258	1.000	1.258	133	0.908	1,200,000	0.978	100,000	0.908		1,089,256	97,812	-
									S		72,200,000		17,360,000		-	60,121,847	16,347,501	-

NOTE:

- Some contents values refer to historical, educational and cultural resources such as the public libraries and documentation centre.
- The majority of the properties are not insured - both contents and buildings.
- 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 _z	$\sqrt{K_{zt}}$	$\sqrt{K_z}$	$\sqrt{K_T}$	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	133	0.599	4,200,000	0.639	600,000	0.599		2,514,729	383,482	-
2	St George	1964	30	0.5 mls	0.6	1.258	1.000	1.258	133	0.599	1,600,000	0.639	50,000	0.599		957,992	31,957	-
3 (3)	St George	1954	40	0.5 mls	0.6	1.258	1.000	1.258	133	0.640	3,000,000	0.694	200,000	0.640		1,921,446	138,874	-
4	St George	1976	40	0.5 mls	0.6	1.258	1.000	1.258	133	0.640	1,200,000	0.694	50,000	0.640		768,578	34,719	-
3 (5)	St George	1981	100	1 ml	0.7	1.301	1.000	1.301	138	0.806	2,200,000	0.920	20,000	0.806		1,773,413	18,398	-
6	St George	1988	60	0.5 mls	0.6	1.258	1.000	1.258	133	0.699	800,000	0.775	20,000	0.699		558,886	15,506	-
7-1	St George	1852	40	0.5 mls	0.6	1.258	1.000	1.258	133	0.640	2,000,000	0.694	180,000	0.640		1,280,964	124,987	-
7-2	St George	1920	40	0.5 mls	0.6	1.258	1.000	1.258	133	0.640	3,800,000	0.694	250,000	0.640		2,433,832	173,593	-
7-3	St George	1960	40	0.5 mls	0.6	1.258	1.000	1.258	133	0.640	2,300,000	0.694	200,000	0.640		1,473,109	138,874	-
8	St George	1965	40	600ft	0.6	1.258	1.000	1.258	133	0.640	2,100,000	0.694	60,000	0.640		1,345,012	41,662	-
9	St George	1930	20	300ft	0.6	1.258	1.000	1.258	133	0.544	860,000	0.575	10,000	0.544		467,699	5,751	-
10	St George	1966	20	200ft	0.6	1.258	1.000	1.258	133	0.544	3,100,000	0.575	80,000	0.544		1,685,892	46,004	-
4 (11)	St George	1973	120	1 ml	0.7	1.301	1.000	1.301	138	0.827	3,600,000	0.942	400,000	0.827		2,978,341	376,928	-
2 (12)	St George	1998	120	1 ml	0.7	1.301	1.000	1.301	138	0.827	2,400,000	0.942		0.827		1,985,561	-	-
2 (13)	St George	1972	80	1 ml	0.7	1.301	1.000	1.301	138	0.784	3,400,000	0.892	200,000	0.784		2,664,009	178,444	-
14	St George	1982	80	1 ml	0.7	1.301	1.000	1.301	138	0.784	500,000	0.892	120,000	0.784		391,766	107,066	-
4 (15)	St Joseph	1975	250	1 ml	0.7	1.301	1.000	1.301	138	0.903	5,000,000	0.978	160,000	0.903		4,516,075	156,457	-
3 (16)	St John	1975	60	0.5 ml	0.6	1.258	1.000	1.258	133	0.699	3,600,000	0.775	40,000	0.699		2,514,985	31,012	-
2 (17)	St Andrew	1973	120	2 mls	0.75	1.323	1.000	1.323	140	0.847	2,400,000	0.959	40,000	0.847		2,033,266	38,376	-
2 (18)	St Andrew	1973	120	2 mls	0.75	1.323	1.000	1.323	140	0.847	1,000,000	0.959	15,000	0.847		847,194	14,391	-
										S	49,060,000		2,695,000		-	35,112,748	2,056,480	-

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 _z	$\sqrt{K_{zt}}$	$\sqrt{K_z}$	$\sqrt{K_T}$	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	1985	1,500	2	0.75	1.323	1.000	1.323	140	0.988	704,000	0.994	8,000	0.988		6,953,288	7,948	-
2 (2)	St Patrick	1980	500	1.7	0.75	1.323	1.000	1.323	140	0.952	1,500,000	0.982	20,000	0.952	4,000	1,428,638	19,641	3,810
3	St Patrick	1982	200	340	0.6	1.258	1.000	1.258	133	0.847	1,500,000	0.959	10,000	0.847	2,000	1,270,791	9,594	1,694
4	St Patrick	1957	1,400	1.4	0.7	1.301	1.000	1.301	138	0.982	1,500,000	0.991	10,000	0.982		1,473,066	9,913	-
5 (4)	St Patrick	1970	175	1000'	0.6	1.258	1.000	1.258	133	0.834	2,300,000	0.949	20,000	0.834		1,918,412	18,972	-
6 (3)	St George	1988	100	340'	0.6	1.258	1.000	1.258	133	0.768	5,200,000	0.871	10,000	0.768		3,992,258	8,709	-
7	St George	1988	100	1.5'	0.5	1.215	1.000	1.215	129	0.726	30,000	0.812		0.726		21,770	-	-
8	St George	1980	1250	1.8'	0.5	1.215	1.000	1.215	129	0.956	700,000	0.983	5,000	0.956		669,498	4,914	-
9	St George	1956	1750	4'	0.5	1.215	1.000	1.215	129	0.969	1,100,000	0.986	15,000	0.969		1,065,932	14,795	-
10	St Mark	1984	100	2300'	0.6	1.258	1.000	1.258	133	0.768	1,200,000	0.871	15,000	0.768		921,290	13,064	-
11 (2)	St Mark	1972	100	6'	0.5	1.215	1.000	1.215	129	0.726	850,000	0.812	8,000	0.726		616,805	6,496	-
12	St Mark		100		0.5	1.215	1.000	1.215	129	0.726	620,000	0.812	6,000	0.726		449,905	4,872	-
13	St Joseph	1986	700		0.8	1.344	1.000	1.344	142	0.971	7,000	0.987	5,000	0.971		6,795	4,934	-
14 (3)	St Andrew	1972	300		0.7	1.301	1.000	1.301	138	0.916	2,200,000	0.979	20,000	0.916		2,015,222	19,572	-
15 (5)	St Andrew	1978	250		0.7	1.301	1.000	1.301	138	0.903	2,200,000	0.978	20,000	0.903		1,987,073	19,557	-
16	St Andrew	1986	250		0.7	1.301	1.000	1.301	138	0.903	850,000	0.978	10,000	0.903		767,733	9,779	-
17 (2)	St Andrew	1975	50		0.7	1.301	1.000	1.301	138	0.717	1,200,000	0.800	12,000	0.717		860,144	9,599	-
18	St Andrew	1978	100	.25ml	0.6	1.258	1.000	1.258	133	0.768	700,000	0.871	10,000	0.768		537,419	8,709	-
19	St Andrew	1984	600	4 mls	0.9	1.387	1.000	1.387	147	0.975	800,000	0.989	20,000	0.975		780,206	19,771	-
20 (3)	St Andrew	1984	400	2 mls	0.75	1.323	1.000	1.323	140	0.941	1,200,000	0.980	25,000	0.941		1,129,465	24,510	-
21 (2)	St David	1984	400	1 ml	0.7	1.301	1.000	1.301	138	0.936	800,000	0.980	15,000	0.936		748,670	14,698	-
22	St David	1984	300	1 ml	0.7	1.301	1.000	1.301	138	0.916	800,000	0.979	15,000	0.916		732,808	14,679	-
23 (3)	St David	1972	200	.5 ml	0.6	1.258	1.000	1.258	133	0.847	2,200,000	0.959	40,000	0.847		1,863,827	38,376	-
24	St David	1972	200	.5 ml	0.6	1.258	1.000	1.258	133	0.847	300,000	0.959	10,000	0.847		254,158	9,594	-
25	St David	1988	20	100 ft	0.5	1.215	1.000	1.215	129	0.488	800,000	0.529	15,000	0.488		390,219	7,933	-
26 (3)	St David	1974	600	1.5 mls	0.7	1.301	1.000	1.301	138	0.952	800,000	0.982	15,000	0.952		761,940	14,731	-
27(4)	St David	1984	400	1 ml	0.7	1.301	1.000	1.301	138	0.936	800,000	0.980	15,000	0.936		748,670	14,698	-
28(3)	St Patrick	1973	200	.5 ml	0.6	1.258	1.000	1.258	133	0.847	2,500,000	0.959	60,000	0.847		2,117,985	57,563	-
29 (1)	St Patrick	1973	200	.5 ml	0.6	1.258	1.000	1.258	133	0.847	200,000	0.959	20,000	0.847		169,439	19,188	-
30(3)	St Patrick	1984	300	.5 ml	0.6	1.258	1.000	1.258	133	0.888	1,200,000	0.977	30,000	0.888		1,065,994	29,305	-
31 (4)	St George	1986	100	7 mls	1.0	1.430	1.000	1.430	152	0.903	1,600,000	0.978	70,000	0.903		1,445,144	68,450	-
32 (2)	St Joseph	1978	60	400'	0.6	1.258	1.000	1.258	133	0.699	1,200,000	0.775	30,000	0.699		838,328	23,259	-
33	St Peter	1974	40	200	0.6	1.258	1.000	1.258	133	0.640	1,600,000	0.694	70,000	0.640		1,024,771	48,606	-
34	St Peter	1974	20	100	0.6	1.258	1.000	1.258	133	0.544	1,000,000	0.575	40,000	0.544		543,836	23,002	-
35	St Peter	1984	20	100	0.6	1.258	1.000	1.258	133	0.544	700,000	0.575	20,000	0.544		380,685	11,501	-

36	St John	1955	20	500	0.6	1.258	1.000	1.258	133	0.544	2,200,000	0.575	60,000	0.544		1,196,439	34,503	-	
37	St John	1982	200	600	0.6	1.258	1.000	1.258	133	0.847	800,000	0.959	15,000	0.847		677,755	14,391	-	
38	St John	1976	200	600	0.6	1.258	1.000	1.258	133	0.847	600,000	0.959	10,000	0.847		508,316	9,594	-	
39	St Paul	1972	300	400	0.6	1.258	1.000	1.258	133	0.888	1,500,000	0.977	30,000	0.888		1,332,492	29,305	-	
40	St Paul	1995	100	300	0.6	1.258	1.000	1.258	133	0.768	1,500,000	0.871	30,000	0.768		1,151,613	26,127	-	
41	St George	1995	100	400'	0.6	1.258	1.000	1.258	133	0.768	850,000	0.871	30,000	0.768		652,581	26,127	-	
42	St George	1925	200	800'	0.6	1.258	1.000	1.258	133	0.847	2,000,000	0.959	60,000	0.847		1,694,388	57,563	-	
43	St George	1981	200	600'	0.6	1.258	1.000	1.258	133	0.847	1,600,000	0.959	76,000	0.847		1,355,510	72,914	-	
44	St George	1990	1,000	6 mls	1.0	1.430	1.000	1.430	152	0.994	800,000	0.996	20,000	0.994		794,903	19,918	-	
											S	61,047,000		1,045,000		6,000	51,316,183	921,376	5,504

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	Kz	$\sqrt{K_{zt}}$	$\sqrt{K_z}$	$\sqrt{K_T}$	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 \ 2	St George	1982	10	100ft	0.6	1.258	1.000	1.258	133	0.448	2,800,000	0.505		0.448		1,254,316	-	-	
3 \ 4 \ 5	St George	1982	10	100ft	0.6	1.258	1.000	1.258	133	0.448	3,000,000	0.505	500,000	0.448	10,000,000	1,343,910	252,495	4,479,700	
6	St George	1986	12	300ft	0.6	1.258	1.000	1.258	133	0.470	15,000	0.519		0.470		7,053	-	-	
7/8/9	St George	1989	12	300ft	0.6	1.258	1.000	1.258	133	0.470	50,000	0.519		0.470		23,509	-	-	
10/11	St George	1992	12	250ft	0.6	1.258	1.000	1.258	133	0.470	300,000	0.519		0.470		141,053	-	-	
12	St George	1992	12	350ft	0.6	1.258	1.000	1.258	133	0.470	3,500,000	0.519	1,600,000	0.470		1,645,616	830,016	-	
13	St George	1992	15	0	0.6	1.258	1.000	1.258	133	0.505	400,000	0.542	200,000	0.505		201,819	108,409	-	
14/15	St George	1993	10	300ft	0.6	1.258	1.000	1.258	133	0.448	80,000	0.505	100,000	0.448		35,838	50,499	-	
16	St John	1990	15	150ft	0.6	1.258	1.000	1.258	133	0.505	150,000	0.542	90,000	0.505	250,000	75,682	48,784	126,137	
17	St John	1994	15	100ft	0.6	1.258	1.000	1.258	133	0.505	3,000,000	0.542	200,000	0.505		1,513,644	108,409	-	
18	St Andrew	1997	20	10ft	0.6	1.258	1.000	1.258	133	0.551	250,000	0.584	50,000	0.551		137,656	29,220	-	
											S	13,545,000		2,740,000		10,250,000	6,380,095	1,427,832	4,605,837

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	Pf	Rep. Cost	Damage to Wharf
1	1976		9.0	17.84	13,635.55	20,453.32	11,753.56	-1.7014	0.0444	40,000,000	1,777,399
2	1992		9.0	17.84	13,635.55	20,453.32	11,753.56	-1.7014	0.0444	2,000,000	88,870
3	1992		9.0	17.84	13,635.55	20,453.32	11,753.56	-1.7014	0.0444	12,000,000	533,220
4	1993		4.0	7.93	4,191.75	6,287.62	3,374.06	-1.8535	0.0319	4,000,000	127,614
5	1993		4.0	7.93	4,191.75	6,287.62	3,374.06	-1.8535	0.0319	7,000,000	223,325
S										65,000,000	2,750,427

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	M	M	H	0.1	3,680,000
St. Peter	8 mls	1,600,000	12,800,000	M	M	H	0.1	1,280,000
St. Joseph	22.5	2,700,000	60,750,000	M	M	H	0.1	6,075,000
St. Paul	22.2	1,700,000	37,740,000	M	M	H	0.1	3,774,000
St. George	26 mls	3,050,000	79,300,000	M	M	H	0.1	7,930,000
St. Luke	3.5 mls	2,900,000	10,150,000	M	M	H	0.1	1,015,000
St. Mark	3.5 mls	2,900,000	150,000	M	M	H	0.1	15,000
St. Patrick	21 mls	2,000,000	42,000,000	M	M	H	0.1	4,200,000
St. David	27.2 mls	1,530,000	4,616,000	M	M	H	0.1	461,600
St. Andrew	33.5 mls	1,800,000	60,300,000	M	M	H	0.1	6,030,000
S			344,606,000					34,460,600

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	-105.40	161.08	-0.65	0.7435	21,600	16,061
St Peter	6	1800.00	28	700	-105.40	161.08	-0.65	0.7435	10,800	8,030
St Joseph	6	1800.00	28	700	-105.40	161.08	-0.65	0.7435	10,800	8,030
St Paul	8	1800.00	28	700	-105.40	161.08	-0.65	0.7435	14,400	10,707
St George	44	1800.00	28	700	-105.40	161.08	-0.65	0.7435	79,200	58,889
St Luke	4	1800.00	28	700	-105.40	161.08	-0.65	0.7435	7,200	5,354
St Mark	4	1800.00	28	700	-105.40	161.08	-0.65	0.7435	7,200	5,354
St Patrick	8	1800.00	28	700	-105.40	161.08	-0.65	0.7435	14,400	10,707
S									165,600	123,131

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 Vehicles
St John	5	3200.00	15	1200	768.54	86.29	8.91	0.0000	16,000	-
St Peter	4	3200.00	15	1200	768.54	86.29	8.91	0.0000	12,800	-
St Joseph	5	3200.00	15	1200	768.54	86.29	8.91	0.0000	16,000	-
St Paul	4	3200.00	15	1200	768.54	86.29	8.91	0.0000	12,800	-
St George	18	3200.00	15	1200	768.54	86.29	8.91	0.0000	57,600	-
St Luke	4	3200.00	15	1200	768.54	86.29	8.91	0.0000	12,800	-
St Mark	3	3200.00	15	1200	768.54	86.29	8.91	0.0000	9,600	-
St Patrick	3	3200.00	15	1200	768.54	86.29	8.91	0.0000	9,600	-
S									147,200	0

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	8793.92	961.22	9.15	0.0000	860,000	-
St. George	1	195,000.00	200	16300	10539.77	1152.05	9.15	0.0000	195,000	-
S									1,055,000	0

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

SUMMARY

Infrastructure Element	Structure Replacement Cost (EC\$)	Contents Replacement Cost (EC\$)	Equipment Replacement Cost (EC\$)	Structural Damage (EC\$)	Content Damage (EC\$)	Equipment Damage (EC\$)	% PML
Airport Buildings	6,700,000	1,390,000	1,400,000	4,079,210	861,371	843,636	60.95
Runways	27,950,000			27,950			0.10
Electricity Generation Buildings	7,300,000	38,350,000	66,000,000	5,709,607	34,015,409	59,724,409	89.07
Utility Poles Low Voltage	6,002,600			3,829,104			63.79
High Voltage	3,942,500			2,053,664			52.09
Health Service Buildings	32,200,000	23,480,000	-	28,012,293	22,798,660	-	91.26
Public Buildings	72,200,000	17,360,000	-	60,121,847	16,347,501	-	85.38
Schools & Colleges	49,060,000	2,695,000	-	35,112,748	2,056,480	-	71.82
Primary Schools	61,047,000	1,045,000	6,000	51,316,183	921,376	5,504	84.13
Ports Buildings	13,545,000	2,740,000	10,250,000	6,380,095	1,427,832	4,605,837	46.78
Wharves	65,000,000			2,750,427			4.23
Main Road Networks	344,606,000			34,460,600			10.00
Wastemanagement 4 c.y. Bins	165,600			123,131			74.35
8 c.y. Bins	147,200			-			-
Vehicles	1,055,000			-			-
Total	690,920,900	87,060,000	77,656,000	233,976,860	78,428,629	65,179,386	44.13