Appendix II: Section 4.0 (3) 50% Upper Prediction Limit (UPL) MLE 100-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_2**	**$\sqrt{K_{zt}}$**	**$\sqrt{K_z}$**	**$\sqrt{K_T}$**	**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 $**
1-1	St Andrew	1973	40	.25 miles	0.6	1.258	1.000	1.258	148	0.784	2,500,000	0.892	400,000	0.784		1,959,823	356,887	-
1-2	St Andrew	1988	40	.25	0.6	1.258	1.000	1.258	148	0.784	800,000	0.892	100,000	0.784	600,000	627,143	89,222	470,357
2 (1-3)	St Andrew	1994	40	.25	0.6	1.258	1.000	1.258	148	0.784	1,200,000	0.892	20,000	0.784	250,000	940,715	17,844	195,982
4	St Paul	1986	20	300 ft	0.6	1.258	1.000	1.258	148	0.689	1,600,000	0.763	800,000	0.689	300,000	1,103,182	610,086	206,847
5	St Paul	1986	20	300 ft	0.6	1.258	1.000	1.258	148	0.689	600,000	0.763	70,000	0.689	250,000	413,693	53,382	172,372
										S	6,700,000		1,390,000		1,400,000	5,044,556	1,127,421	1,045,559

Runways

1	**2**	**3**	**4**	5	6	7	8	9
Length of Runway	**Elevation ft.**	**Replace-ment Cost/foot**	**Total Rep-lacement Cost**	**Erosion Potential**	**Pavement Resistance**	**Failure Likelihood**	**Failure Probability**	**Pavement Damage**
4,800	40	4,000	19,200,000	H	VH	M	0.01	192,000
2,500	40	3,500	8,750,000	H	VH	M	0.01	87,500
		S	27,950,000					279,500

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_2**	**$\sqrt{K_{zt}}$**	**$\sqrt{K_z}$**	**$\sqrt{K_T}$**	**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 $**
6	St George	1958	60	.25 mls	0.6	1.258	1.000	1.258	148	0.828	1,900,000	0.942	14,100,000	0.828	6,500,000	1,572,911	13,286,712	5,381,012
9	St George	1958	300	5 mls	1.0	1.430	1.000	1.430	169	0.991	400,000	0.995	1,800,000	0.991		396,349	1,791,430	-
10	St George	1974	250	3 mls	0.8	1.344	1.000	1.344	159	0.970	600,000	0.988	3,800,000	0.970	6,500,000	581,780	3,752,766	6,302,615
11	St George	1974	250	3 mls	0.8	1.344	1.000	1.344	159	0.970	2,100,000	0.988	15,400,000	0.970	53,000,000	2,036,229	15,208,578	51,390,549
12	St George	1962	40	500 pt	0.6	1.258	1.000	1.258	148	0.784	2,000,000	0.892	500,000	0.784		1,567,858	446,109	-
7	St John	1985	40	1 ml	0.7	1.301	1.000	1.301	154	0.821	200,000	0.935	2,000,000	0.821		164,180	1,870,854	-
8	St Andrew	1985	80	.5 ml	0.6	1.258	1.000	1.258	148	0.860	100,000	0.968	750,000	0.860		86,033	725,760	-
										S	7,300,000		38,350,000		66,000,000	6,405,341	37,082,209	63,074,176

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**	**Replace-ment Cost**	**Total Rep-lacement Cost**	**Damage to Poles ($)**
St George	1025	350	110	1.1	121	36.3	0.6	1.258	1.000	1.258	148.44	0.7560	0.7752	1,070	1,096,750	850,185
St Paul	410	250	110	1.1	121	36.3	0.6	1.258	1.000	1.258	148.44	0.7560	0.7752	1,150	471,500	365,500
St Joseph	248	500	110	1.1	121	36.3	0.7	1.301	1.000	1.301	153.52	0.8958	0.8148	1,100	272,800	222,284
St Peter	512	500	110	1.1	121	36.3	0.6	1.258	1.000	1.258	148.44	0.7560	0.7752	1,150	580,800	450,228
St John	540	200	110	1.1	121	36.3	0.6	1.258	1.000	1.258	148.44	0.7560	0.7752	1,250	675,000	523,250
St Andrew	720	200	110	1.1	121	36.3	0.7	1.301	1.000	1.301	153.52	0.8958	0.8148	1,250	900,000	733,341
St David	615	250	110	1.1	121	36.3	0.6	1.258	1.000	1.258	148.44	0.7560	0.7752	1,250	768,750	595,924
St Patrick	590	300	110	1.1	121	36.3	0.6	1.258	1.000	1.258	148.44	0.7560	0.7752	1,200	708,000	548,831
St Luke	245	200	110	1.1	121	36.3	0.5	1.215	1.000	1.215	143.37	0.6163	0.7311	1,150	281,750	205,998
St Mark	215	300	110	1.1	121	36.3	0.5	1.215	1.000	1.215	143.37	0.6163	0.7311	1,150	247,250	180,773
														S	6,002,600	4,676,314

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**	**Replace-ment Cost**	**Total Rep-lacement Cost**	**Damage to Poles ($)**
St George	610	350	120	1.1	132	39.6	0.6	1.258	1.000	1.258	148.44	0.4153	0.6610	1,300	793,000	524,190
St Paul	160	250	120	1.1	132	39.6	0.6	1.258	1.000	1.258	148.44	0.4153	0.6610	1,400	224,000	148,069
St Joseph	148	500	120	1.1	132	39.6	0.7	1.301	1.000	1.301	153.52	0.5434	0.7066	1,400	207,200	146,401
St Peter	165	500	120	1.1	132	39.6	0.6	1.258	1.000	1.258	148.44	0.4153	0.6610	1,500	247,500	163,603
St John	156	200	120	1.1	132	39.6	0.6	1.258	1.000	1.258	148.44	0.4153	0.6610	1,600	264,000	174,510
St Andrew	456	200	120	1.1	132	39.6	0.7	1.301	1.000	1.301	153.52	0.5434	0.7066	1,600	727,000	513,674
St David	490	250	120	1.1	132	39.6	0.6	1.258	1.000	1.258	148.44	0.4153	0.6610	1,600	784,000	518,241
St Patrick	282	300	120	1.1	132	39.6	0.6	1.258	1.000	1.258	148.44	0.4153	0.6610	1,400	394,800	260,971
St Luke	110	200	120	1.1	132	39.6	0.5	1.215	1.000	1.215	143.37	0.2871	0.6130	1,400	154,000	94,400
St Mark	105	300	120	1.1	132	39.6	0.5	1.215	1.000	1.215	143.37	0.2871	0.6130	1,400	147,000	90,110
														S	3,942,500	2,634,169

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_2**	$\sqrt{K_{zt}}$	$\sqrt{K_z}$	$\sqrt{K_T}$	**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	1962	300	1000'	0.6	1.258	1.000	1.258	148	0.952	2,600,000	0.982	300,000	0.952		2,476,305	294,613	-
2	St George	1962	300	1000'	0.6	1.258	1.000	1.258	148	0.952	1,800,000	0.982	2,500,000	0.952		1,714,365	2,455,105	-
3	St George	1978	300	1000'	0.6	1.258	1.000	1.258	148	0.952	1,400,000	0.982	1,500,000	0.952		1,333,395	1,473,063	-
4	St George	1995	300	1000'	0.6	1.258	1.000	1.258	148	0.952	8,000,000	0.982	2,000,000	0.952		7,619,400	1,964,084	-
5	St George	1892	300	1000'	0.6	1.258	1.000	1.258	148	0.952	2,000,000	0.982	8,000,000	0.952		1,904,850	7,856,336	-
6	St George	1995	300	1000'	0.6	1.258	1.000	1.258	148	0.952	6,000,000	0.982	2,000,000	0.952		5,714,550	1,964,084	-
7	St George	1987	300	1000'	0.6	1.258	1.000	1.258	148	0.952	1,500,000	0.982	5,000,000	0.952		1,428,638	4,910,210	-
8	St John	1994	100	1000'	0.6	1.258	1.000	1.258	148	0.883	4,000,000	0.976	1,200,000	0.883		3,531,644	1,171,585	-
9	St Andrew	1988	200	400'	0.6	1.258	1.000	1.258	148	0.936	2,500,000	0.980	600,000	0.936		2,339,595	587,926	-
10	St Patrick	1986	300	1500'	0.6	1.258	1.000	1.258	148	0.952	1,200,000	0.982	300,000	0.952		1,142,910	294,613	-
11 (20)	St David	1998	250	500'	0.6	1.258	1.000	1.258	148	0.946	400,000	0.981	30,000	0.946		378,418	29,430	-
12 (4)	St Andrew	1991	300	1000'	0.6	1.258	1.000	1.258	148	0.952	800,000	0.982	50,000	0.952		761,940	49,102	-
										S	32,200,000		23,480,000		-	30,346,010	23,050,150	-

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_2**	$\sqrt{K_{zt}}$	$\sqrt{K_z}$	$\sqrt{K_T}$	**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	148	0.827	15,000,000	0.942	1,400,000	0.827		12,409,755	1,319,248	-
2	St George	1965	60	0.5	0.6	1.258	1.000	1.258	148	0.827	2,000,000	0.942	1,500,000	0.827		1,654,634	1,413,480	-
3	St George	1964	60	0.5	0.6	1.258	1.000	1.258	148	0.827	35,000,000	0.942	3,200,000	0.827		28,956,095	3,015,424	-
4	St George	1972	60	0.5	0.6	1.258	1.000	1.258	148	0.827	4,000,000	0.942	1,600,000	0.827		3,309,268	1,507,712	-
3(5)	St George	1970	200	100'	0.6	1.258	1.000	1.258	148	0.936	1,000,000	0.980	3,000,000	0.936		935,838	2,939,631	-
6	St George	1992	60	100'	0.6	1.258	1.000	1.258	148	0.827	1,500,000	0.942	800,000	0.827		1,240,976	753,856	-
7	St George	1973	100	0.5	0.6	1.258	1.000	1.258	148	0.883	2,500,000	0.976	800,000	0.883		2,207,278	781,057	-
8	St George	1886	100	100'	0.6	1.258	1.000	1.258	148	0.883	800,000	0.976	2,000,000	0.883		706,329	1,952,642	-
9	St George	1984	30	80'	0.6	1.258	1.000	1.258	148	0.743	5,000,000	0.836	1,500,000	0.743		3,714,680	1,253,588	-
10	St George	1995	20	50'	0.6	1.258	1.000	1.258	148	0.689	3,000,000	0.763	1,200,000	0.689		2,067,879	915,128	-
11	St John	1970	20	100'	0.6	1.258	1.000	1.258	148	0.689	800,000	0.763	60,000	0.689		551,434	45,756	-
12	St John	1974	80	0.5	0.6	1.258	1.000	1.258	148	0.860	400,000	0.968	200,000	0.860		343,879	193,533	-
13	St Andrew	1974	120	300'	0.6	1.258	1.000	1.258	148	0.898	1,200,000	0.978	100,000	0.898		1,078,181	97,757	-
										S	72,200,000		17,360,000		-	59,176,225	16,188,812	-

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_2**	**$\sqrt{K_{zt}}$**	**$\sqrt{K_z}$**	**$\sqrt{K_T}$**	**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	1964	30	0.5 mls	0.6	1.258	1.000	1.258	148	0.743	4,200,000	0.836	600,000	0.743		3,120,331	501,435	-
2	St George	1964	30	0.5 mls	0.6	1.258	1.000	1.258	148	0.743	1,600,000	0.836	50,000	0.743		1,188,698	41,786	-
3 (3)	St George	1954	40	0.5 mls	0.6	1.258	1.000	1.258	148	0.784	3,000,000	0.892	200,000	0.784		2,350,596	178,444	-
4	St George	1976	40	0.5 mls	0.6	1.258	1.000	1.258	148	0.784	1,200,000	0.892	50,000	0.784		940,238	44,611	-
3 (5)	St George	1981	100	1 ml	0.7	1.301	1.000	1.301	154	0.912	2,200,000	0.978	20,000	0.912		2,006,352	19,567	-
6	St George	1988	60	0.5 mls	0.6	1.258	1.000	1.258	148	0.827	800,000	0.942	20,000	0.827		661,854	18,846	-
7-1	St George	1852	40	0.5 mls	0.6	1.258	1.000	1.258	148	0.784	2,000,000	0.892	180,000	0.784		1,567,064	160,599	-
7-2	St George	1920	40	0.5 mls	0.6	1.258	1.000	1.258	148	0.784	3,800,000	0.892	250,000	0.784		2,977,422	223,055	-
7-3	St George	1960	40	0.5 mls	0.6	1.258	1.000	1.258	148	0.784	2,300,000	0.892	200,000	0.784		1,802,124	178,444	-
8	St George	1965	40	600ft	0.6	1.258	1.000	1.258	148	0.784	2,100,000	0.892	60,000	0.784		1,645,417	53,533	-
9	St George	1930	20	300ft	0.6	1.258	1.000	1.258	148	0.689	860,000	0.763	10,000	0.689		592,792	7,626	-
10	St George	1966	20	200ft	0.6	1.258	1.000	1.258	148	0.689	3,100,000	0.763	80,000	0.689		2,136,808	61,009	-
4 (11)	St George	1973	120	1 ml	0.7	1.301	1.000	1.301	154	0.923	3,600,000	0.979	400,000	0.923		3,324,128	391,599	-
2 (12)	St George	1998	120	1 ml	0.7	1.301	1.000	1.301	154	0.923	2,400,000	0.979		0.923		2,216,086	-	-
2 (13)	St George	1972	80	1 ml	0.7	1.301	1.000	1.301	154	0.894	3,400,000	0.977	200,000	0.894		3,037,975	195,446	-
14	St George	1982	80	1 ml	0.7	1.301	1.000	1.301	154	0.894	500,000	0.977	120,000	0.894		446,761	117,268	-
4 (15)	St Joseph	1975	250	1 ml	0.7	1.301	1.000	1.301	154	0.958	5,000,000	0.983	160,000	0.958		4,791,790	157,331	-
3 (16)	St John	1975	60	0.5 ml	0.6	1.258	1.000	1.258	148	0.827	3,600,000	0.942	40,000	0.827		2,978,341	37,693	-
2 (17)	St Andrew	1973	120	2 mls	0.75	1.323	1.000	1.323	156	0.933	2,400,000	0.980	40,000	0.933		2,239,049	39,186	-
2 (18)	St Andrew	1973	120	2 mls	0.75	1.323	1.000	1.323	156	0.933	1,000,000	0.980	15,000	0.933		932,937	14,695	-
										S	49,060,000		2,695,000		-	40,956,762	2,442,172	-

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_2**	**$\sqrt{K_{zt}}$**	**$\sqrt{K_z}$**	**$\sqrt{K_T}$**	**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	156	0.999	704,0000	0.999	8,000	0.999		7,032,925	7,991	-
2 (2)	St Patrick	1980	500	1.7	0.75	1.323	1.000	1.323	156	0.986	1,500,000	0.993	20,000	0.986	4,000	1,478,351	19,854	3,942
3	St Patrick	1982	200	340	0.6	1.258	1.000	1.258	148	0.936	1,500,000	0.980	10,000	0.936	2,000	1,403,757	9,799	1,872
4	St Patrick	1957	1,400	1.4	0.7	1.301	1.000	1.301	154	0.998	1,500,000	0.998	10,000	0.998		1,497,698	9,982	-
5 (4)	St Patrick	1970	175	1000'	0.6	1.258	1.000	1.258	148	0.927	2,300,000	0.979	20,000	0.927		2,131,449	19,584	-
6 (3)	St George	1988	100	340'	0.6	1.258	1.000	1.258	148	0.883	5,200,000	0.976	10,000	0.883		4,591,137	9,763	-
7	St George	1988	100	1.5'	0.5	1.215	1.000	1.215	143	0.847	30,000	0.959		0.847		25,416	-	-
8	St George	1980	1250	1.8'	0.5	1.215	1.000	1.215	143	0.988	700,000	0.994	5,000	0.988		691,378	4,968	-
9	St George	1956	1750	4'	0.5	1.215	1.000	1.215	143	0.994	1,100,000	0.996	15,000	0.994		1,093,721	14,943	-
10	St Mark	1984	100	2300'	0.6	1.258	1.000	1.258	148	0.883	1,200,000	0.976	15,000	0.883		1,059,493	14,645	-
11 (2)	St Mark	1972	100	6'	0.5	1.215	1.000	1.215	143	0.847	850,000	0.959	8,000	0.847		720,115	7,675	-
12	St Mark		100		0.5	1.215	1.000	1.215	143	0.847	620,000	0.959	6,000	0.847		525,260	5,756	-
13	St Joseph	1986	700		0.8	1.344	1.000	1.344	159	0.995	7,000	0.996	5,000	0.995		6,964	4,982	-
14 (3)	St Andrew	1972	300		0.7	1.301	1.000	1.301	154	0.966	2,200,000	0.985	20,000	0.966		2,124,430	19,706	-
15 (5)	St Andrew	1978	250		0.7	1.301	1.000	1.301	154	0.958	2,200,000	0.983	20,000	0.958		2,108,388	19,666	-
16	St Andrew	1986	250		0.7	1.301	1.000	1.301	154	0.958	850,000	0.983	10,000	0.958		814,604	9,833	-
17 (2)	St Andrew	1975	50		0.7	1.301	1.000	1.301	154	0.847	1,200,000	0.959	12,000	0.847		1,016,633	11,513	-
18	St Andrew	1978	100	.25ml	0.6	1.258	1.000	1.258	148	0.883	700,000	0.976	10,000	0.883		618,038	9,763	-
19	St Andrew	1984	600	4 mls	0.9	1.387	1.000	1.387	164	0.996	800,000	0.997	20,000	0.996		797,190	19,943	-
20 (3)	St Andrew	1984	400	2 mls	0.75	1.323	1.000	1.323	156	0.979	1,200,000	0.990	25,000	0.979		1,175,357	24,757	-
21 (2)	St David	1984	400	1 ml	0.7	1.301	1.000	1.301	154	0.975	800,000	0.989	15,000	0.975		780,206	14,829	-
22	St David	1984	300	1 ml	0.7	1.301	1.000	1.301	154	0.966	800,000	0.985	15,000	0.966		772,520	14,779	-
23 (3)	St David	1972	200	.5 ml	0.6	1.258	1.000	1.258	148	0.936	2,200,000	0.980	40,000	0.936		2,058,844	39,195	-
24	St David	1972	200	.5 ml	0.6	1.258	1.000	1.258	148	0.936	300,000	0.980	10,000	0.936		280,751	9,799	-
25	St David	1988	20	100 ft	0.5	1.215	1.000	1.215	143	0.640	800,000	0.694	15,000	0.640		512,386	10,416	-
26 (3)	St David	1974	600	1.5 mls	0.7	1.301	1.000	1.301	154	0.987	800,000	0.993	15,000	0.987		789,318	14,897	-
27(4)	St David	1984	400	1 ml	0.7	1.301	1.000	1.301	154	0.975	800,000	0.989	15,000	0.975		780,206	14,829	-
28(3)	St Patrick	1973	200	.5 ml	0.6	1.258	1.000	1.258	148	0.936	2,500,000	0.980	60,000	0.936		2,339,595	58,793	-
29 (1)	St Patrick	1973	200	.5 ml	0.6	1.258	1.000	1.258	148	0.936	200,000	0.980	20,000	0.936		187,168	19,598	-
30(3)	St Patrick	1984	300	.5 ml	0.6	1.258	1.000	1.258	148	0.952	1,200,000	0.982	30,000	0.952		1,142,910	29,461	-
31 (4)	St George	1986	100	7 mls	1.0	1.430	1.000	1.430	169	0.958	1,600,000	0.983	70,000	0.958		1,533,373	68,832	-

32 (2)	St Joseph	1978	60	400'	0.6	1.258	1.000	1.258	148	0.827	1,200,000	0.942	30,000	0.827		992,780	28,270	-
33	St Peter	1974	40	200	0.6	1.258	1.000	1.258	148	0.784	1,600,000	0.892	70,000	0.784		1,253,651	62,455	-
34	St Peter	1974	20	100	0.6	1.258	1.000	1.258	148	0.689	1,000,000	0.763	40,000	0.689		689,293	30,504	-
35	St Peter	1984	20	100	0.6	1.258	1.000	1.258	148	0.689	700,000	0.763	20,000	0.689		482,505	15,252	-
36	St John	1955	20	500	0.6	1.258	1.000	1.258	148	0.689	2,200,000	0.763	60,000	0.689		1,516,445	45,756	-
37	St John	1982	200	600	0.6	1.258	1.000	1.258	148	0.936	800,000	0.980	15,000	0.936		748,670	14,698	-
38	St John	1976	200	600	0.6	1.258	1.000	1.258	148	0.936	600,000	0.980	10,000	0.936		561,503	9,799	-
39	St Paul	1972	300	400	0.6	1.258	1.000	1.258	148	0.952	1,500,000	0.982	30,000	0.952		1,428,638	29,461	-
40	St Paul	1995	100	300	0.6	1.258	1.000	1.258	148	0.883	1,500,000	0.976	30,000	0.883		1,324,367	29,290	-
41	St George	1995	100	400'	0.6	1.258	1.000	1.258	148	0.883	850,000	0.976	30,000	0.883		750,474	29,290	-
42	St George	1925	200	800'	0.6	1.258	1.000	1.258	148	0.936	2,000,000	0.980	60,000	0.936		1,871,676	58,793	-
43	St George	1981	200	600'	0.6	1.258	1.000	1.258	148	0.936	1,600,000	0.980	76,000	0.936		1,497,341	74,471	-
44	St George	1990	1,000	6 mls	1.0	1.430	1.000	1.430	169	0.999	800,000	1.000	20,000	0.999		799,537	19,991	-
										S	61,047,000		1,045,000		6,000	56,006,460	988,580	5,814

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_2**	**$\sqrt{K_{zt}}$**	**$\sqrt{K_z}$**	**$\sqrt{K_T}$**	**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	148	0.596	2,800,000	0.640		0.596		1,668,982	-	-
3 \4 \ 5	St George	1982	10	100ft	0.6	1.258	1.000	1.258	148	0.596	3,000,000	0.640	500,000	0.596	10,000,000	1,788,195	320,154	5,960,650
6	St George	1986	12	300ft	0.6	1.258	1.000	1.258	148	0.629	15,000	0.687		0.629		9,436	-	-
7/8/9	St George	1989	12	300ft	0.6	1.258	1.000	1.258	148	0.629	50,000	0.687		0.629		31,455	-	-
10/11	St George	1992	12	250ft	0.6	1.258	1.000	1.258	148	0.629	300,000	0.687		0.629		188,729	-	-
12	St George	1992	12	350ft	0.6	1.258	1.000	1.258	148	0.629	3,500,000	0.687	1,600,000	0.629		2,201,840	1,099,066	-
13	St George	1992	15	0	0.6	1.258	1.000	1.258	148	0.661	400,000	0.735	200,000	0.661		264,330	147,065	-
14/15	St George	1993	10	300ft	0.6	1.258	1.000	1.258	148	0.596	80,000	0.640	100,000	0.596		47,685	64,031	-
16	St John	1990	15	150ft	0.6	1.258	1.000	1.258	148	0.661	150,000	0.735	90,000	0.661	250,000	99,124	66,179	165,206
17	St John	1994	15	100ft	0.6	1.258	1.000	1.258	148	0.661	3,000,000	0.735	200,000	0.661		1,982,472	147,065	-
18	St Andrew	1997	20	10ft	0.6	1.258	1.000	1.258	148	0.701	250,000	0.801	50,000	0.701		175,275	40,038	-
										S	13,545,000		2,740,000		10,250,000	8,457,522	1,883,597	6,125,856

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**	**P_f**	**Rep. Cost**	**Damage to Wharf**
1	1976		9.0	17.84	13,635.55	20,453.32	13,352.42	-1.3887	0.0825	40,000,000	3,298,455
2	1992		9.0	17.84	13,635.55	20,453.32	13,352.42	-1.3887	0.0825	2,000,000	164,923
3	1992		9.0	17.84	13,635.55	20,453.32	13,352.42	-1.3887	0.0825	12,000,000	989,536
4	1993		4.0	7.93	4,191.75	6,287.62	4,068.73	-1.4116	0.0790	4,000,000	316,140
5	1993		4.0	7.93	4,191.75	6,287.62	4,068.73	-1.4116	0.0790	7,000,000	553,246
									S	65,000,000	5,322,300

Main Road Networks

1	2	3	4	5	6	7	8	9
Parish	**Miles of Paved Road**	**Replace-ment Cost/Mile**	**Total Replacem-ent Cost**	**Erosion Potential**	**Pavement Resistance**	**Failure Likelihood**	**Failure Probability**	**Pavement Damage**
St. John	16 mls	2,300,000	36,800,000	H	M	VH	0.5	18,400,000
St. Peter	8 mls	1,600,000	12,800,000	H	M	VH	0.5	6,400,000
St. Joseph	22.5	2,700,000	60,750,000	H	M	VH	0.5	30,375,000
St. Paul	22.2	1,700,000	37,740,000	H	M	VH	0.5	18,870,000
St. George	26 mls	3,050,000	79,300,000	H	M	VH	0.5	39,650,000
St. Luke	3.5 mls	2,900,000	10,150,000	H	M	VH	0.5	5,075,000
St. Mark	3.5 mls	2,900,000	150,000	H	M	VH	0.5	75,000
St. Patrick	21 mls	2,000,000	42,000,000	H	M	VH	0.5	21,000,000
St. David	27.2 mls	1,530,000	4,616,000	H	M	VH	0.5	2,308,000
St. Andrew	33.5 mls	1,800,000	60,300,000	H	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**	**P_f**	**Total Rep. Cost**	**Damage to Bins**
St John	12	1800.00	28	700	-298.07	199.61	-1.49	0.9323	21,600	20,138
St Peter	6	1800.00	28	700	-298.07	199.61	-1.49	0.9323	10,800	10,069
St Joseph	6	1800.00	28	700	-298.07	199.61	-1.49	0.9323	10,800	10,069
St Paul	8	1800.00	28	700	-298.07	199.61	-1.49	0.9323	14,400	13,425
St George	44	1800.00	28	700	-298.07	199.61	-1.49	0.9323	79,200	73,839
St Luke	4	1800.00	28	700	-298.07	199.61	-1.49	0.9323	7,200	6,713
St Mark	4	1800.00	28	700	-298.07	199.61	-1.49	0.9323	7,200	6,713
St Patrick	8	1800.00	28	700	-298.07	199.61	-1.49	0.9323	14,400	13,425
								S	165,600	154,391

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**	**P_f**	**Total Rep. Cost**	**Damage to Bins**
St John	5	3200.00	15	1200	665.32	106.94	6.22	0.0000	16,000	0
St Peter	4	3200.00	15	1200	665.32	106.94	6.22	0.0000	12,800	0
St Joseph	5	3200.00	15	1200	665.32	106.94	6.22	0.0000	16,000	0
St Paul	4	3200.00	15	1200	665.32	106.94	6.22	0.0000	12,800	0
St George	18	3200.00	15	1200	665.32	106.94	6.22	0.0000	57,600	0
St Luke	4	3200.00	15	1200	665.32	106.94	6.22	0.0000	12,800	0
St Mark	3	3200.00	15	1200	665.32	106.94	6.22	0.0000	9,600	0
St Patrick	3	3200.00	15	1200	665.32	106.94	6.22	0.0000	9,600	0
								S	147,200	0

NOTES:

1. Existing collection system serves west coast of Dominica only.

2. Solid Waste management office occupies space about 24' x 24' in a building of the Public works Department.

3. Depth of 4.0 c.y bin 55"

4. Depth of 8.0 c.y bin 79"

5. 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)**	$\overline{z}$	**s**	**b**	**P_f**	**Total Rep. Cost**	**Damage to Bins**
St.George	5	172,000.00	167	13600	7644.16	1191.17	6.42	0.0000	860,000	0
St.George	1	195,000.00	200	16300	9161.75	1427.65	6.42	0.0000	195,000	0
								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	5,044,556	1,127,421	1,045,559	76.05
Runways		27,950,000			279,500			1.00
Electricity Generation Buildings		7,300,000	38,350,000	66,000,000	6,405,341	37,082,209	63,074,176	95.44
Utility Poles	Low Voltage	6,002,600			4,676,314			77.90
	High Voltage	3,942,500			2,634,169			66.81
Health Service Buildings		32,200,000	23,480,000	-	30,346,010	23,050,150	-	95.90
Public Buildings		72,200,000	17,360,000	-	59,176,225	16,188,812	-	84.15
Schools & Colleges		49,060,000	2,695,000	-	40,956,762	2,442,172	-	83.85
Primary Schools		61,047,000	1,045,000	6,000	56,006,460	988,580	5,814	91.79
Ports	Buildings	13,545,000	2,740,000	10,250,000	8,457,522	1,883,597	6,125,856	62.06
	Wharves	65,000,000			5,322,300			8.19
Main Road Networks		344,606,000			172,303,000			50.00
Wastemanagement	4 c.y. Bins	165,600			154,391			93.23
	8 c.y. Bins	147,200			0			0.00
	Vehicles	1,055,000			0			0.00
Total		690,920,900	87,060,000	77,656,000	391,762,549	82,762,942	70,251,404	63.67