

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

**i) St. Kitts**

Return Period	Wind Speed (mph)	
	50% UPL	90% UPL
50 years	102	119
100 years	113	133

**Police Stations**

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>z</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	1952	20	0.2	0.25	1.108	1.000	1.108	112.97	0.253		0.374		0.253		-	-	-
1A	St George	1971	8	0.1	0.25	1.108	1.000	1.108	112.97	0.218	1,800,000	0.313		0.218		392,150	-	-
2	St George	1972	300	0.7	0.25	1.108	1.000	1.108	112.97	0.708	500,000	0.869	100,000	0.708	300,000	353,889	86,909	212,333
3	St Thomas	1968	40	0.11	0.25	1.108	1.000	1.108	112.97	0.354	952,000	0.503	100,000	0.354	100,000	337,250	50,255	35,425
4	St Anne	1942	70	0.2	0.25	1.108	1.000	1.108	112.97	0.454	840,000	0.592	100,000	0.454	800,000	381,000	59,167	362,857
5	St John	1971	200	0.6	0.25	1.108	1.000	1.108	112.97	0.641	500,000	0.795	20,000	0.641	150,000	320,581	15,894	96,174
6	St John	1950	200	0.5	0.25	1.108	1.000	1.108	112.97	0.641	130,000	0.795	20,000	0.641	150,000	83,351	15,894	96,174
7	St Mary	1972	300	0.7	0.25	1.108	1.000	1.108	112.97	0.708	500,000	0.869	100,000	0.708	300,000	353,889	86,909	212,333
S											5,222,000		440,000		1,800,000	2,222,108	315,026	1,015,297

**Fire Stations**

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>z</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 \$
9	St George	1968	8	0.10	0.25	1.108	1.000	1.108	112.97	0.218		0.313		0.218		-	-	-
S											-		-		-	-	-	-

**Hospitals & Health Centers**

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 \$
11	St George	1967	170	0.5	0.25	1.108	1.000	1.108	112.97	0.801	660,000	0.942	200,000	0.801		528,965	188,428	-
12	St George	1967	170	0.5	0.25	1.108	1.000	1.108	112.97	0.801	1,000,000	0.942	350,000	0.801		801,462	329,750	-
13	St George	1999	170	0.5	0.25	1.108	1.000	1.108	112.97	0.631	860,000	0.734	300,000	0.631		543,021	220,292	-
14	St George	1999	170	0.5	0.25	1.108	1.000	1.108	112.97	0.631	800,000	0.734	1,000,000	0.631		505,136	734,306	-
15	St George	1999	170	0.5	0.25	1.108	1.000	1.108	112.97	0.631	1,600,000	0.734	100,000	0.631		1,010,272	73,431	-
16	St George	1967	170	0.5	0.25	1.108	1.000	1.108	112.97	0.801	1,000,000	0.942	400,000	0.801		801,462	376,857	-
17	St George	1999	170	0.5	0.25	1.108	1.000	1.108	112.97	0.631	860,000	0.734	200,000	0.631		543,021	146,861	-
18	St George	1967	170	0.5	0.25	1.108	1.000	1.108	112.97	0.801	3,000,000	0.942	1,600,000	0.801		2,404,386	1,507,427	-
21	St Anne		60	0.1	0.25	1.108	1.000	1.108	112.97	0.636	500,000	0.750	100,000	0.636		318,169	75,033	-
24	Christ Church	1986	380	0.8	0.25	1.108	1.000	1.108	112.97	0.900	800,000	0.973	100,000	0.900	5,000	720,368	97,320	4,502
25	St George	1949	40	0.1	0.25	1.108	1.000	1.108	112.97	0.377	600,000	0.495	240,000	0.377		226,420	118,820	-
26	St Mary				0.25	1.108	1.000	1.108	112.97	0.395	300,000	0.548	25,000	0.395		118,471	13,691	-
27	Christ Church	1952	400	0.9	0.25	1.108	1.000	1.108	112.97	0.905	160,000	0.974	25,000	0.905		144,850	24,349	-
29	St John	1954	100	0.2	0.25	1.108	1.000	1.108	112.97	0.721	260,000	0.863	25,000	0.721		187,467	21,565	-
30	St John		50	0.1	0.25	1.108	1.000	1.108	112.97	0.605	370,000	0.715	25,000	0.605		223,746	17,864	-
31	St John		150	0.4	0.25	1.108	1.000	1.108	112.97	0.783	270,000	0.928	25,000	0.783		211,479	23,207	-
32	St Anne	1955	80	0.1	0.25	1.108	1.000	1.108	112.97	0.685	270,000	0.815	25,000	0.685		184,908	20,363	-
33	St Thomas		35	0.1	0.25	1.108	1.000	1.108	112.97	0.542	260,000	0.656	20,000	0.542		140,986	13,112	-
34	St George	1975	8	0	0.25	1.108	1.000	1.108	112.97	0.395	600,000	0.548	500,000	0.395		236,941	273,826	-
S											14,170,000		5,260,000		5,000	9,851,531	4,276,500	4,502

**Port**

**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 \$
41	St George	1997	10	0	0.13	1.056	1.000	1.056	107.70	0.188	3,300,000	0.323	50,000	0.188		619,238	16,143	-
42	St George	1991	25	0	0.13	1.056	1.000	1.056	107.70	0.405	800,000	0.554	210,000	0.405		323,780	116,327	-
43	St George	1982	13	0	0.13	1.056	1.000	1.056	107.70	0.188	760,000	0.323	200,000	0.188		142,612	64,572	-
43A	St George	1993	13	0	0.13	1.056	1.000	1.056	107.70	0.321		0.489		0.321		-	-	-
44	St George	1986	10	0	0.13	1.056	1.000	1.056	107.70	0.188	2,000,000	0.323	1,500,000	0.188		375,296	484,289	-
45	St George	1980	12	0	0.13	1.056	1.000	1.056	107.70	0.321		0.489		0.321		-	-	-
S											6,860,000		1,960,000		-	1,460,927	681,330	-

2. Wharf

1	2	3	4	5	6	7	8	9	10	11	12
Struc. No.	Yr. Blt.	Elevation (ft.)	Design Wave Ht. (ft.)	Wave Elevation (ft)	Design Moment	Failure Moment	Moment due to Wind	z	Pr	Rep. Cost	Damage to Wharf
41A	1996	12.5	27.0	53.51	160,541.43	240,812.14	152,835.45	-1.4613	0.0720	30,000,000	2,158,862
45A	1980	10	15.0	29.73	37,708.49	56,562.73	33,640.48	-1.6210	0.0525	35,000,000	1,837,755
									S	65,000,000	3,996,617

\* Assumed design wind speed = 120 mph

3. Pier

1	2	3	4	5	6	7	8	9	10	11	12
Struc. No.	Yr. Blt.	Elevation (ft.)	Design Wave Ht. (ft.)	Wave Elevation (ft)	Design Moment	Failure Moment	Moment due to Wind	z	Pr	Rep. Cost	Damage to Pier
41B	1996	9	15.6	30.92	41,185.25	61,777.88	36,943.45	-1.6080	0.0539	22,000,000	1,186,230
									S	22,000,000	1,186,230

4. Lighting Towers

5. Equipment

6. Molasses Pipeline

7. Railroad Tracks

**Airport**

**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 \$	Equipment Damage \$
51	St Peter	1998	130	1.0	0.4	1.172	1.000	1.172	119.54	0.692	36,000,000	0.693		0.692		24,903,900	-	-
52	St Peter	1999	130	1.0	0.4	1.172	1.000	1.172	119.54	0.692	2,000,000	0.693	4,000,000	0.692		1,383,550	2,773,644	-
52A	St Peter	1999	130	1.0	0.4	1.172	1.000	1.172	119.54	0.692	1,400,000	0.693	500,000	0.692		968,485	346,706	-
53	St Peter	1974	130	1.0	0.4	1.172	1.000	1.172	119.54	0.692	300,000	0.693	1,000,000	0.692		207,533	693,411	-
53A	St Peter	1974	130	1.0	0.4	1.172	1.000	1.172	119.54	0.692	320,000	0.693	30,000	0.692		221,368	20,802	-
54	St Peter	1974	130	1.0	0.4	1.172	1.000	1.172	119.54	0.692		0.693	1,000,000	0.692		-	693,411	-
S											40,020,000		6,530,000		-	27,684,836	4,527,974	-

**2. Lighting Towers**

**3. Runway**

1	2	3	4	5	6	7	8	9
Parish	Length of Runway in feet	Rep. Cost per foot (\$)	Total Rep. Cost (\$)	Erosion Potential	Pavement Resistance	Failure Likelihood	Failure Probability	Pavement Damage
St. Peter	8,000	10,000	80,000,000	M	VH	L	0.001	80,000
S			80,000,000					80,000

**Coast Guard Station**

**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 \$	Equipment Damage \$
55	St George	1987	20	0	0.13	1.056	1.000	1.056	107.70	0.200	1,100,000	0.052	250,000	0.200		219,569	13,115	-
S											1,100,000	250,000		-	219,569	13,115	-	

**2. Pier**

1	2	3	4	5	6	7	8	9	10	11	12
Struc. No.	Yr. Blt.	Elevation (ft.)	Design Wave Ht. (ft.)	Wave Elevation (ft.)	Design Moment	Failure Moment	Moment due to Wind	z	P <sub>r</sub>	Rep. Cost	Damage to Pier
55A	1988	10	13.0	25.77	27,661.75	41,492.62	24,166.93	-1.6702	0.0474	750,000	35,577
S										750,000	35,577

**Custom & Excise Department**

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 \$
56	St George	1977	75	0.1	0.13	1.056	1.000	1.056	107.70	0.384	600,000	0.206	200,000	0.384		230,462	41,203	-
S											600,000	200,000		-	230,462	41,203	-	

**Power Stations**

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 \$
70	St Peter	1972	75	0.8	0.4	1.172	1.000	1.172	119.54	0.564	6,000,000	0.500	30,000,000	0.564	2,000,000	3,385,194	14,997,420	1,128,398
71	St Peter	1999	75	0.8	0.4	1.172	1.000	1.172	119.54	0.564	4,000,000	0.500	25,000,000	0.564	3,000,000	2,256,796	12,497,850	1,692,597
S											10,000,000	55,000,000		5,000,000	5,641,990	27,495,270	2,820,995	

**Transmission Lines**

1	2	3	4	5	6	7	8a	8b	8c	8d	9	10	11	12	13	14
Parish	Miles of Lines	Elevation ft.	Design Wind Spd (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>r</sub>	Rep. Cost per Mile (\$)	Total Rep. Cost (\$)	Damage to Poles (\$)
St George	224	300	90	1.1	99	29.7	0.21	1.090	1.000	1.090	111.21	0.4111	0.6595	74,000	16,576,000	10,932,068
St Mary	40	350	90	1.1	99	29.7	0.28	1.120	1.000	1.120	114.28	0.5145	0.6966	74,000	2,960,000	2,061,790
Christ Church	8	300	90	1.1	99	29.7	0.3	1.129	1.000	1.129	115.16	0.5440	0.7068	35,000	280,000	197,902
St John	24	200	90	1.1	99	29.7	0.22	1.095	1.000	1.095	111.65	0.4259	0.6649	35,000	600,000	398,946
St Paul	12	200	90	1.1	99	29.7	0.3	1.129	1.000	1.129	115.16	0.5440	0.7068	35,000	420,000	296,853
St Anne	28	150	90	1.1	99	29.7	0.16	1.069	1.000	1.069	109.02	0.3373	0.6321	74,000	2,072,000	1,309,612
St Thomas	8	150	90	1.1	99	29.7	0.23	1.099	1.000	1.099	112.09	0.4407	0.6703	35,000	280,000	187,676
Trinity	8	150	90	1.1	99	29.7	0.1	1.043	1.000	1.043	106.39	0.2487	0.5982	35,000	280,000	167,496
St Peter	52	250	90	1.1	99	29.7	0.44	1.189	1.000	1.189	121.30	0.7508	0.7736	35,000	1,820,000	1,407,970
S															25,288,000	16,960,312

**Utility 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 Spd (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>r</sub>	Rep. Cost per Pole (\$)	Total Rep. Cost (\$)	Damage to Poles (\$)
St George	8000	300	90	1.1	99	29.7	0.21	1.090	1.000	1.090	111.21	0.4111	0.6595	1200	9,600,000	6,331,314
St Mary	1400	350	90	1.1	99	29.7	0.28	1.120	1.000	1.120	114.28	0.5145	0.6966	1200	1,680,000	1,170,205
Christ Church	300	300	90	1.1	99	29.7	0.3	1.129	1.000	1.129	115.16	0.5440	0.7068	1200	360,000	254,446
St Johns	800	200	90	1.1	99	29.7	0.22	1.095	1.000	1.095	111.65	0.4259	0.6649	1200	960,000	638,313
St Paul	500	200	90	1.1	99	29.7	0.3	1.129	1.000	1.129	115.16	0.5440	0.7068	1200	600,000	424,076
St Anne	1000	150	90	1.1	99	29.7	0.16	1.069	1.000	1.069	109.02	0.3373	0.6321	1200	1,200,000	758,462
St Thomas	300	150	90	1.1	99	29.7	0.23	1.099	1.000	1.099	112.09	0.4407	0.6703	1200	360,000	241,298
Trinity	300	150	90	1.1	99	29.7	0.1	1.043	1.000	1.043	106.39	0.2487	0.5982	1200	360,000	215,351
St Peters	1800	250	90	1.1	99	29.7	0.44	1.189	1.000	1.189	121.30	0.7508	0.7736	1200	2,160,000	1,670,997
S															17,280,000	11,704,462

**Courthouses**

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 \$
90	St George	1997	15	0	0.13	1.056	1.000	1.056	107.70	0.279	7,000,000	0.125		0.279		1,952,349	-	-
S											7,000,000	-	-	1,952,349	-	-		

**Government 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 \$
91	St George	1963 / 1995	15	0.1	0.13	1.056	1.000	1.056	107.70	0.155	15,000,000	0.037		0.155		2,323,665	-	-
S											15,000,000		-		-	2,323,665	-	-

**Public Market**

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 \$
92	St George	1978	10	25	0.6	1.258	1.000	1.258	128.32	0.309		0.012		0.309		-	-	-
S											-		-		-	-	-	-

**Radio & TV Studios**

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 \$
93	St George	1958	155	0.5	0.25	1.108	1.000	1.108	112.97	0.565	500,000	0.475		0.565		282,267	-	-
S											500,000		-		-	282,267	-	-

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 \$	Equipement Damage \$
101	St Mary	1986	340	0.7	0.3	1.129	1.000	1.129	115.16	0.730	1,600,000	0.742	400,000	0.730		1,168,784	296,775	-
102	St Mary	1971	340	0.7	0.3	1.129	1.000	1.129	115.16	0.730	1,000,000	0.742	400,000	0.730		730,490	296,775	-
103	St Mary*	1971	340	0.7	0.3	1.129	1.000	1.129	115.16	0.730	2,300,000	0.742	420,000	0.730		1,680,127	311,614	-
104	St Mary	1982	340	0.7	0.3	1.129	1.000	1.129	115.16	0.730	2,000,000	0.742	100,000	0.730		1,460,980	74,194	-
105	St George	1982	135	0.3	0.2	1.086	1.000	1.086	110.77	0.505	2,500,000	0.385	110,000	0.505		1,262,703	42,371	-
106	St George	1975	20	0.1	0.1	1.043	1.000	1.043	106.39	0.170	200,000	0.046	30,000	0.170		34,049	1,376	-
106A	St George	1999	35	0.1	0.1	1.043	1.000	1.043	106.39	0.229	1,106,000	0.085	30,000	0.229		253,548	2,543	-
107	St George	1992	100	0.6	0.3	1.129	1.000	1.129	115.16	0.518	2,000,000	0.403	3,000,000	0.518		1,035,306	1,209,573	-
108	St John	1968	60	0.2	0.2	1.086	1.000	1.086	110.77	0.360	3,000,000	0.204	80,000	0.360		1,080,804	16,348	-
109	St Anne	1978	50	0.1	0.1	1.043	1.000	1.043	106.39	0.275	1,000,000	0.121	425,000	0.275		274,584	51,507	-
109A	St Anne	1999	50	0.1	0.1	1.043	1.000	1.043	106.39	0.275		0.121	400,000	0.275		-	48,478	-
110	St Anne	1978	50	0.1	0.1	1.043	1.000	1.043	106.39	0.275	2,600,000	0.121	500,000	0.275		713,918	60,597	-
111	St Anne	1982	25	0	0.1	1.043	1.000	1.043	106.39	0.192	1,700,000	0.059	100,000	0.192		326,562	5,910	-
112	St John	1986	100	0.3	0.2	1.086	1.000	1.086	110.77	0.450	1,600,000	0.312	70,000	0.450		720,414	21,839	-
113	St George	1972	40	0.1	0.1	1.043	1.000	1.043	106.39	0.246	2,500,000	0.097	2,500,000	0.246		613,765	242,975	-
114	St Thomas	1997	70	0.2	0.2	1.086	1.000	1.086	110.77	0.386	2,600,000	0.233	250,000	0.386		1,004,793	58,323	-
114A	St Thomas	1967	90	0.2	0.2	1.086	1.000	1.086	110.77	0.431	3,000,000	0.288	410,000	0.431		1,293,183	117,914	-
115	St John	1996	50	0.1	0.1	1.043	1.000	1.043	106.39	0.275	1,350,000	0.121	50,000	0.275		370,688	6,060	-
116	St George	1996	100	0.3	0.2	1.086	1.000	1.086	110.77	0.450	7,000,000	0.312	1,500,000	0.450		3,151,813	467,984	-
117	St George	1986	100	0.6	0.3	1.129	1.000	1.129	115.16	0.518	5,000,000	0.403	330,000	0.518		2,588,265	133,053	-
118	St George	1972	100	0.6	0.3	1.129	1.000	1.129	115.16	0.518	3,000,000	0.403	1,200,000	0.518		1,552,959	483,829	-
119	St George	1961	60	0.4	0.3	1.129	1.000	1.129	115.16	0.424	3,500,000	0.279	530,000	0.424		1,485,726	148,005	-
119A	St George	1957	60	0.4	0.3	1.129	1.000	1.129	115.16	0.424	6,000,000	0.279	3,000,000	0.424		2,546,958	837,762	-
120	Trinity	1985	140	0.1	0.1	1.043	1.000	1.043	106.39	0.442	1,600,000	0.301	150,000	0.442		706,643	45,159	-
121	St George	1996	25	0.3	0.2	1.086	1.000	1.086	110.77	0.235	1,200,000	0.089	150,000	0.235	30,000	281,940	13,356	7,049
122	St Peters	1974	450	2.0	0.6	1.258	1.000	1.258	128.32	0.908	1,500,000	0.930	70,000	0.908		1,361,915	65,134	-
123	St Peters	1996	450	2.0	0.6	1.258	1.000	1.258	128.32	0.908	700,000	0.930	50,000	0.908		635,560	46,524	-
124	St George	1987	15	0.1	0.1	1.043	1.000	1.043	106.39	0.145	300,000	0.032	50,000	0.145		43,526	1,619	-
125	Christ Church	1987	300	1.0	0.4	1.172	1.000	1.172	119.54	0.767	850,000	0.787	50,000	0.767		651,600	39,360	-
126	St Paul	1959	225	0.8	0.4	1.172	1.000	1.172	119.54	0.721	500,000	0.729	40,000	0.721		360,613	29,172	-
127	St George	1966	8	0	0.1	1.043	1.000	1.043	106.39	0.145	1,386,000	0.032	80,000	0.145		201,092	2,590	-
127A	St George	1999	8	0	0.1	1.043	1.000	1.043	106.39	0.145	1,000,000	0.032	80,000	0.145		145,088	2,590	-
128	St Peters	1982	85	0.9	0.4	1.172	1.000	1.172	119.54	0.553	300,000	0.457	100,000	0.553		165,925	45,684	-
129	St Paul	1999	170	0.4	0.2	1.086	1.000	1.086	110.77	0.547	1,300,000	0.448	70,000	0.547		711,668	31,359	-
S											67,192,000		16,725,000		30,000	30,615,989	5,258,349	7,049



**Pavements**

1	2	3	4	5	6	7	8	9
Parish	Area Paved sq. ft.	Rep. Cost per sq. ft. (\$)	Total Rep. Cost (\$)	Erosion Potential	Pavement Resistance	Failure Likelihood	Failure Probability	Pavement Damage
St George	265,000	8	2,000,000	VL	M	L	0.001	2,000
St George			3,800,000	VL	M	L	0.001	3,800
St Peter	350,000	70	24,500,000	VL	M	L	0.001	24,500
	S		30,300,000					30,300

**Paved Roads**

1	2	3	4	5	6	7	8	9
Parish	Miles of Road	Rep. Cost Per Mile	Total Rep. Cost	Erosion Potential	Pavement Resistance	Failure Likelihood	Failure Probability	Pavement Damage
St Anne	24	573,000	13,752,000	VL	M	L	0.001	13,752
St Thomas	7	573,000	4,011,000	VL	M	L	0.01	40,110
Trinity	7	573,000	4,011,000	VL	M	L	0.01	40,110
St Peter	44	573,000	25,212,000	VL	M	L	0.01	252,120
St George	190	573,000	108,870,000	VL	M	L	0.01	1,088,700
St Mary	34	573,000	19,482,000	VL	M	L	0.01	194,820
Christ Church	7	573,000	4,011,000	VL	M	L	0.01	40,110
St John	20	573,000	11,460,000	VL	M	L	0.01	114,600
St Paul	10	573,000	5,730,000	VL	M	L	0.01	57,300
	S		196,539,000					1,841,622

**Unpaved Roads**

1	2	3	4	5	6	7	8	9
Parish	Miles of Road	Rep. Cost Per Mile	Total Rep. Cost	Erosion Potential	Pavement Resistance	Failure Likelihood	Failure Probability	Pavement Damage
St George	34	36,000	1,224,000	M	L	VH	0.5	612,000
St Mary	6	36,000	216,000	M	L	VH	0.5	108,000
Christ Church	1	36,000	36,000	M	L	VH	0.5	18,000
St John	4	36,000	144,000	M	L	VH	0.5	72,000
St Paul	2	36,000	72,000	M	L	VH	0.5	36,000
St Anne	4	36,000	144,000	M	L	VH	0.5	72,000
St Thomas	1	36,000	36,000	M	L	VH	0.5	18,000
Trinity	1	36,000	36,000	M	L	VH	0.5	18,000
St Peter	8	36,000	288,000	M	L	VH	0.5	144,000
S			2,196,000					1,098,000

**Wastemanagement Collection Vehicles**

1	2	3	4	5	6	7	8	9	10	11
Parish	No.of Vehicles	Cost per Vehicle (\$)	Max X-area of Veh. (sq. ft.)	Weight of Vehicle (lb.)	$\bar{z}$	<b>s</b>	<b>b</b>	<b>Pr</b>	Total Rep. Cost	Damage to Vehicles
St George	4	200,000	172	14000	9418.91	916.22	10.28	0.0000	800,000	-
St Mary	1	200,000	172	14000	9418.91	916.22	10.28	0.0000	200,000	-
St Anne	1	200,000	172	14000	9418.91	916.22	10.28	0.0000	200,000	-
S									1,200,000	-

**Wastemanagement Bins**

1	2	3	4	5	6	7	8	9	10	11
Parish	No.of Bins	Cost per Bin (\$)	Max X-area of Bin (sq. ft.)	Weight of Bin (lb.)	$\bar{z}$	<b>s</b>	<b>b</b>	<b>Pr</b>	Total Rep. Cost	Damage to Bins
St George	4	700	27	1,000	280.88	143.82	1.95	0.0254	2,800	71
Trinity	1	700	27	1,000	280.88	143.82	1.95	0.0254	700	18
S									3,500	89

**SUMMARY**

	Structure Value	Contents Value	Equipment Value	Structural Damage	Content Damage	Equipment Damage	% PML
<b>Police Stations</b>	5,222,000	440,000	1,800,000	2,222,108	315,026	1,015,297	47.61
<b>Fire Stations</b>	-	-	-	-	-	-	
<b>Hospitals &amp; Health Centers</b>	14,170,000	5,260,000	5,000	9,851,531	4,276,500	4,502	72.72
<b>Ports</b>							
Buildings	6,860,000	1,960,000	-	1,460,927	681,330	-	24.29
Wharf	65,000,000			3,996,617			6.15
Pier	22,000,000			1,186,230			5.39
<b>Airport</b>							
Buildings	40,020,000	6,530,000	-	27,684,836	4,527,974	-	69.20
Runway	80,000,000			80,000			0.10
<b>Coast Guard Station</b>							
Building	1,100,000	250,000	-	219,569	13,115	-	17.24
Pier	750,000			35,577			4.74
<b>Custom &amp; Excise Department</b>	600,000	200,000	-	230,462	41,203	-	33.96
<b>Power Stations</b>	10,000,000	55,000,000	5,000,000	5,641,990	27,495,270	2,820,995	51.37
<b>Transmission Lines</b>	25,288,000			16,960,312			67.07
<b>Utility Poles</b>	17,280,000			11,704,462			67.73
<b>Courthouse</b>	7,000,000	-	-	1,952,349	-	-	27.89
<b>Government Buildings</b>	15,000,000	-	-	2,323,665	-	-	15.49
<b>Public Market</b>	-	-	-	-	-	-	
<b>Radio &amp; TV Studios</b>	500,000	-	-	282,267	-	-	56.45
<b>Schools &amp; Colleges</b>	67,192,000	16,725,000	30,000	30,615,989	5,258,349	7,049	42.74
<b>Pavements</b>	30,300,000			30,300			0.10
<b>Paved Roads</b>	196,539,000			1,841,622			0.94
<b>Unpaved Roads</b>	2,196,000			1,098,000			50.00
<b>Wastemanagement</b>							
Vehicles	1,200,000			-			-
Bins	3,500			89			2.54
<b>Total</b>	<b>608,220,500</b>	<b>86,365,000</b>	<b>6,835,000</b>	<b>119,418,900</b>	<b>42,608,767</b>	<b>3,847,843</b>	<b>23.65</b>

ii) Nevis

Return Period	Wind Speed (mph)	
	50% UPL	90% UPL
50 years	102	119
100 years	113	133

**Police Stations**

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>z</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 \$
201	St Paul	1998	15	0.1	0.1	1.043	1.000	1.043	106.39	0.160	4,500,000	0.194	150,000	0.160	300,000	720,725	29,048	48,048
201 B	St Paul	1998	15	0.1	0.1	1.043	1.000	1.043	106.39	0.303		0.470	600,000	0.303		-	282,181	-
202	St Thomas	1950's	200	0.6	0.3	1.129	1.000	1.129	115.16	0.849	250,000	0.963	25,000	0.849	100,000	212,174	24,065	84,870
203	St George	1940	725	1.8	0.6	1.258	1.000	1.258	128.32	0.991	285,000	0.992	25,000	0.991	100,000	282,509	24,789	99,126
203A	St James	1983	40	0.3	0.2	1.086	1.000	1.086	110.77	0.324	350,000	0.471	50,000	0.324	200,000	113,506	23,562	64,860
S											5,385,000		850,000		700,000	1,328,912	383,645	296,904

**Hospital & Health Centers**

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>z</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 \$
205	St Paul	1952	150	0.6	0.3	1.129	1.000	1.129	115.16	0.641	276,000	0.750	105,000	0.641		177,032	78,758	-
205 A	St Paul	1963	150	0.6	0.3	1.129	1.000	1.129	115.16	0.810	448,000	0.947	182,000	0.810		362,695	172,416	-
205 B	St Paul	1952	150	0.6	0.3	1.129	1.000	1.129	115.16	0.641	1,400,000	0.750	245,000	0.641		897,988	183,768	-
205 C	St Paul	1985	150	0.6	0.3	1.129	1.000	1.129	115.16	0.810	531,000	0.947	75,000	0.810		429,891	71,050	-
205 D	St Paul	1995	150	0.6	0.3	1.129	1.000	1.129	115.16	0.810	147,000	0.947	87,000	0.810		119,009	82,418	-
211	St Paul	1958	20	0.2	0.15	1.065	1.000	1.065	108.58	0.380		0.537		0.380		-	-	-
S											2,802,000		694,000		0	1,986,616	588,410	0

**Port**

**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 \$
209	St John	1999	8	0	0.13	1.056	1.000	1.056	107.70	0.171	400,000	0.037		0.171		68,339	-	-
210	St John	1999	8	0	0.13	1.056	1.000	1.056	107.70	0.171	745,000	0.037		0.171		127,281	-	-
S											1,145,000		0		0	195,620	0	0

**2. Wharf**

1	2	3	4	5	6	7	8	9	10	11	12
Struc. No.	Yr. Blt.	Elevation (ft.)	Design Wave Ht. (ft.)	Wave Elevation (ft)	Design Moment	Failure Moment	Moment due to Wind	z	P <sub>f</sub>	Rep. Cost	Damage to Wharf
208	1999	6	13	25.77	27,661.75	41,492.62	24,166.93	-1.6702	0.0474	13,500,000	640,380
S										13,500,000	640,380

**3. Pier**

1	2	3	4	5	6	7	8	9	10	11	12
Struc. No.	Yr. Blt.	Elevation (ft.)	Design Wave Ht. (ft.)	Wave Elevation (ft)	Design Moment	Failure Moment	Moment due to Wind	z	P <sub>f</sub>	Rep. Cost	Damage to Pier
206	1994	6	13	25.77	27,661.75	41,492.62	24,166.93	-1.6702	0.0474	400,000	18,974
207	1997+	6	13	25.77	27,661.75	41,492.62	24,166.93	-1.6702	0.0474	5,500,000	260,896
S										5,900,000	279,870

**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 \$
216	St James	1940	150	0.7	0.32	1.138	1.000	1.138	116.04	0.604	600,000	0.542	22,000	0.604		362,542	11,919	-
217	St George	1978	750	1.9	0.6	1.258	1.000	1.258	128.32	0.947	2,100,000	0.958	80,000	0.947		1,989,658	76,648	-
218 A	St George	1950	750	1.9	0.6	1.258	1.000	1.258	128.32	0.947	700,000	0.958	250,000	0.947		663,219	239,526	-
218 B	St George	1950	750	1.9	0.6	1.258	1.000	1.258	128.32	0.947	800,000	0.958	250,000	0.947		757,965	239,526	-
218 C	St George	1978	750	1.9	0.6	1.258	1.000	1.258	128.32	0.947	800,000	0.958	250,000	0.947		757,965	239,526	-
219	St James	1979	200	0.5	0.3	1.129	1.000	1.129	115.16	0.642		0.605	30,000	0.642		-	18,150	-
220	St Paul	1950	50	0.2	0.2	1.086	1.000	1.086	110.77	0.331	1,000,000	0.174	1,300,000	0.331		330,921	226,199	-
220 A	St Paul	1990	50	0.2	0.2	1.086	1.000	1.086	110.77	0.331	1,300,000	0.174	860,000	0.331		430,197	149,639	-
221	St Paul	1990	50	0.2	0.2	1.086	1.000	1.086	110.77	0.331	2,300,000	0.174	80,000	0.331		761,118	13,920	-
223	St Thomas	1983	100	0.2	0.2	1.086	1.000	1.086	110.77	0.450	200,000	0.312	80,000	0.450		90,052	24,959	-
224	St John	1983	350	1.5	0.5	1.215	1.000	1.215	123.93	0.839	1,377,000	0.866	60,000	0.839		1,155,215	51,947	-
225	St John	+1990	725	1.9	0.6	1.258	1.000	1.258	128.32	0.945	200,000	0.957	25,000	0.945		189,094	23,921	-
S											11,377,000		3,287,000		0	7,487,945	1,315,879	0

**Airport**

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 \$	Equipment Damage \$
226	St James	1968	40	0.2	0.2	1.086	1.000	1.086	110.77	0.368	5,000,000	0.223	3,000,000	0.368		1,838,665	670,038	-
227	St James	1998	40	0.2	0.2	1.086	1.000	1.086	110.77	0.368	800,000	0.223	1,500,000	0.368		294,186	335,019	-
228	St James	1988	40	0.2	0.2	1.086	1.000	1.086	110.77	0.368	1,350,000	0.223	600,000	0.368		496,440	134,008	-
S											7,150,000		5,100,000		0	2,629,291	1,139,065	0

2. Runway

1	2	3	4	5	6	7	8	9
Parish	Length of Runway in feet	Rep. Cost per foot (\$)	Total Rep. Cost (\$)	Erosion Potential	Pavement Resistance	Failure Likelihood	Failure Probability	Pavement Damage
St James	4,000							-
	S		0					-

Courthouse/Library

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 \$
229	St Paul	*1877	10	0	0.13	1.056	1.000	1.056	107.70	0.155		0.037		0.155		-	-	-
									S		0		0		0	0	0	0

Public Market

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 \$
230	St Paul	1940	8	0	0.13	1.056	1.000	1.056	107.70	0.155		0.037		0.155		-	-	-
									S		0		0		0	0	0	0

Government 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 \$
231	St Paul	1982	15	0.1	0.13	1.056	1.000	1.056	107.70	0.155	500,000	0.037		0.155		77,456	-	-
									S		500,000		0		0	77,456	0	0

**Power House**

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 \$
232	St John	1984	250	1.3	0.4	1.172	1.000	1.172	119.54	0.738		0.752	8,000,000	0.738		-	6,015,656	-
											S	0	8,000,000	0	0	6,015,656	0	

**Transmission Lines**

1	2	3	4	5	5a	5b	5c	5d	6	7	8	9	10	11	12	13	
Parish	Miles of Lines	Elevation ft.	Design Wind Spd (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>r</sub>	Rep. Cost per mile (\$)	Total Rep. Cost (\$)	Damage to Poles (\$)	
St Paul	40	100	90	1.1	99	29.7	0.2	1.086	1.000	1.086	110.77	0.3964	0.6541	70,000	2,800,000	1,831,428	
St George	60	500	90	1.1	99	29.7	0.6	1.258	1.000	1.258	128.32	0.9871	0.8382	35,000	2,100,000	1,760,212	
St James	40	150	90	1.1	99	29.7	0.24	1.103	1.000	1.103	112.53	0.4554	0.6756	35,000	1,000,000	675,602	
St John	30	350	90	1.1	99	29.7	0.35	1.151	1.000	1.151	117.35	0.6179	0.7317	35,000	750,000	548,754	
St Thomas	30	100	90	1.1	99	29.7	0.25	1.108	1.000	1.108	112.97	0.4702	0.6809	35,000	750,000	510,671	
															S	7,400,000	5,326,667

**Utility 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 Spd (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>r</sub>	Rep. Cost per Pole (\$)	Total Rep. Cost (\$)	Damage to Poles (\$)	
St Paul	1000	100	90	1.1	99	29.7	0.2	1.086	1.000	1.086	110.77	0.3964	0.6541	1200	1,200,000	784,898	
St George	1500	500	90	1.1	99	29.7	0.6	1.258	1.000	1.258	128.32	0.9871	0.8382	1200	1,800,000	1,508,753	
St James	1000	150	90	1.1	99	29.7	0.24	1.103	1.000	1.103	112.53	0.4554	0.6756	1200	1,200,000	810,722	
St John	750	350	90	1.1	99	29.7	0.35	1.151	1.000	1.151	117.35	0.6179	0.7317	1200	900,000	658,505	
St Thomas	750	100	90	1.1	99	29.7	0.25	1.108	1.000	1.108	112.97	0.4702	0.6809	1200	900,000	612,805	
															S	6,000,000	4,375,683



**Pavements**

1	2	3	4	5	6	7	8	9
Parish	Area Paved sq. ft.	Rep. Cost per sq. ft. (\$)	Total Rep. Cost (\$)	Erosion Potential	Pavement Resistance	Failure Likelihood	Failure Probability	Pavement Damage
St James								-
	S		0					0

**Paved Roads**

1	2	3	4	5	6	7	8	9
Parish	Miles of Road	Rep. Cost Per Mile	Total Rep. Cost	Erosion Potential	Pavement Resistance	Failure Likelihood	Failure Probability	Pavement Damage
St Paul	22	459,000	10,098,000	VL	M	L	0.001	10,098
St George	33	459,000	15,147,000	VL	M	L	0.001	15,147
St James	22	459,000	10,098,000	VL	M	L	0.001	10,098
St John	17	459,000	7,803,000	VL	M	L	0.001	7,803
St Thomas	17	459,000	7,803,000	VL	M	L	0.001	7,803
	S		50,949,000					50,949

**Unpaved Roads**

1	2	3	4	5	6	7	8	9
Parish	Miles of Road	Rep. Cost Per Mile	Total Rep. Cost	Erosion Potential	Pavement Resistance	Failure Likelihood	Failure Probability	Pavement Damage
St George	27	36,000	972,000	VL	L	M	0.01	9,720
St John	14	36,000	504,000	VL	L	M	0.01	5,040
St Paul	18	36,000	648,000	VL	L	M	0.01	6,480
St Thomas	14	36,000	504,000	VL	L	M	0.01	5,040
St James	18	36,000	648,000	VL	L	M	0.01	6,480
	S		3,276,000					32,760

**Wastemanagement Collection Vehicles**

1	2	3	4	5	6	7	8	9	10	11
Parish	No.of Vehicles	Cost per Vehicle (\$)	Max X-area of Veh. (sq. ft.)	Weight of Vehicle (lb.)	$\bar{z}$	s	b	Pf	Total Rep. Cost	Damage to Vehicles
St Thomas	1	240,000	172	14,000	9418.91	916.22	10.28	0.0000	240,000.0	-
St John	2	75,000	150	11,000	7004.86	799.03	8.77	0.0000	150,000.0	-
St George	1	150,000	150	11,000	7004.86	799.03	8.77	0.0000	150,000.0	-
St Paul	2	240,000	172	14,000	9418.91	916.22	10.28	0.0000	480,000.0	-
S									1,020,000.0	-

**Wastemanagement Bins**

1	2	3	4	5	6	7	8	9	10	11
Parish	No.of Bins	Cost per Bin (\$)	Max X-area of Bin (sq. ft.)	Weight of Bin (lb.)	$\bar{z}$	s	b	Pf	Total Rep. Cost	Damage to Vehicles
St George	8	1,500	12	500	180.39	63.92	2.82	0.0024	12,000	29
St John	2	1,760	16	560	133.85	85.23	1.57	0.0582	3,520	205
S									15,520	233

**SUMMARY**

	Structure Value	Contents Value	Equipment Value	Structural Damage	Content Damage	Equipment Damage	% PML
<b>Police Stations</b>	5,385,000	850,000	700,000	1,328,912	383,645	296,904	28.98
<b>Hospitals &amp; Health Centers</b>	2,802,000	694,000	-	1,986,616	588,410	-	73.66
<b>Ports</b>							
Buildings	1,145,000	-	-	195,620	-	-	17.08
Wharf	13,500,000	-	-	640,380	-	-	4.74
Pier	5,900,000	-	-	279,870	-	-	4.74
<b>Schools &amp; Colleges</b>	11,377,000	3,287,000	-	7,487,945	1,315,879	-	60.04
<b>Airport</b>							
Buildings	7,150,000	5,100,000	-	2,629,291	1,139,065	-	30.76
Runway	-	-	-	-	-	-	-
<b>Courthouse / Library</b>	-	-	-	-	-	-	-
<b>Public Market</b>	-	-	-	-	-	-	-
<b>Government Buildings</b>	500,000	-	-	77,456	-	-	15.49
<b>Power House</b>	-	8,000,000	-	-	6,015,656	-	75.20
<b>Transmission Lines</b>	7,400,000	-	-	5,326,667	-	-	71.98
<b>Utility Poles</b>	6,000,000	-	-	4,375,683	-	-	72.93
<b>Pavements</b>	-	-	-	-	-	-	-
<b>Paved Roads</b>	50,949,000	-	-	50,949	-	-	0.10
<b>Unpaved Roads</b>	3,276,000	-	-	32,760	-	-	1.00
<b>Wastemanagement</b>							
Vehicles	1,020,000	-	-	-	-	-	-
Bins	15,520	-	-	233	-	-	1.50
<b>Total</b>	116,419,520	17,931,000	700,000	24,412,382	9,442,654	296,904	25.29

St. Kitts

	Structure Value	Contents Value	Equipment Value	Structural Damage	Content Damage	Equipment Damage
<b>Police Stations</b>	5222000	440000	1800000	2222107.678	315026.18	1015296.7
<b>Fire Stations</b>	0	0	0	0	0	0
<b>Hospitals &amp; Health Centers</b>	14170000	5260000	5000	9851531.11	4276500.445	4502.3
<b>Ports</b>						
Buildings	6860000	1960000	0	1460926.88	681329.81	0
Wharf	65000000	0	0	3996617.085	0	0
Pier	22000000	0	0	1186230.064	0	0
<b>Airport</b>						
Buildings	40020000	6530000	0	27684835.5	4527973.83	0
Runway	80000000	0	0	80000	0	0
<b>Coast Guard Station</b>						
Building	1100000	250000	0	219568.8	13114.5	0
Pier	750000	0	0	35576.6784	0	0
<b>Custom &amp; Excise Department</b>	600000	200000	0	230461.8	41202.6	0
<b>Power Stations</b>	10000000	55000000	5000000	5641990	27495270	2820995
<b>Transmission Lines</b>	25288000	0	0	16960312.08	0	0
<b>Utility Poles</b>	17280000	0	0	11704462.2	0	0
<b>Courthouse</b>	7000000	0	0	1952349	0	0
<b>Government Buildings</b>	15000000	0	0	2323665	0	0
<b>Public Market</b>	0	0	0	0	0	0
<b>Radio &amp; TV Studios</b>	500000	0	0	282266.5	0	0
<b>Schools &amp; Colleges</b>	67192000	16725000	30000	30615988.86	5258349.3	7048.5
<b>Pavements</b>	30300000	0	0	30300	0	0
<b>Paved Roads</b>	196539000	0	0	1841622	0	0
<b>Unpaved Roads</b>	2196000	0	0	1098000	0	0
<b>Wastemanagement</b>						
Vehicles	1200000	0	0	0	0	0
Bins	3500	0	0	88.95495786	0	0
<b>Total</b>	608220500	86365000	6835000	119418900.2	42608766.67	3847842.5

Nevis

	Structure Value	Contents Value	Equipment Value	Structural Damage	Content Damage	Equipment Damage
<b>Police Stations</b>	5385000	850000	700000	1328912.48	383644.775	296904
<b>Hospitals &amp; Health Centers</b>	2802000	694000	0	1986616.008	588409.822	0
<b>Ports</b>						
Buildings	1145000	0	0	195619.815	0	0
Wharf	13500000	0	0	640380.2112	0	0
Pier	5900000	0	0	279869.8701	0	0
<b>Schools &amp; Colleges</b>	11377000	3287000	0	7487945.472	1315879.275	0
<b>Airport</b>						
Buildings	7150000	5100000	0	2629290.95	1139064.6	0
Runway	0	0	0	0	0	0
<b>Courthouse / Library</b>	0	0	0	0	0	0
<b>Public Market</b>	0	0	0	0	0	0
<b>Government Buildings</b>	500000	0	0	77455.5	0	0
<b>Power House</b>	0	8000000	0	0	6015656	0
<b>Transmission Lines</b>	7400000	0	0	5326666.886	0	0
<b>Utility Poles</b>	6000000	0	0	4375682.967	0	0
<b>Pavements</b>	0	0	0	0	0	0
<b>Paved Roads</b>	50949000	0	0	50949	0	0
<b>Unpaved Roads</b>	3276000	0	0	32760	0	0
<b>Wastemanagement</b>						
Vehicles	1020000	0	0	0	0	0
Bins	15520	0	0	233.3249991	0	0
<b>Total</b>	116419520	17931000	700000	24412382.48	9442654.472	296904

**SUMMARY (St. Kitts + Nevis)**

<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>Police Stations</b>	10,607,000	1,290,000	2,500,000	3,551,020	698,671	1,312,201	38.63
<b>Fire Stations</b>	-	-	-	-	-	-	
<b>Hospitals &amp; Health Centers</b>	16,972,000	5,954,000	5,000	11,838,147	4,864,910	4,502	72.86
<b>Ports</b>							
Buildings	8,005,000	1,960,000	-	1,656,547	681,330	-	23.46
Wharf	78,500,000			4,636,997			5.91
Pier	27,900,000			1,466,100			5.25
<b>Airport</b>							
Buildings	47,170,000	11,630,000	-	30,314,126	5,667,038	-	61.19
Runway	80,000,000			80,000			0.10
<b>Coast Guard Station</b>							
Building	1,100,000	250,000	-	219,569	13,115	-	17.24
Pier	750,000			35,577			4.74
<b>Custom &amp; Excise Department</b>	600,000	200,000	-	230,462	41,203	-	33.96
<b>Power Stations &amp; Power House</b>	10,000,000	63,000,000	5,000,000	5,641,990	33,510,926	2,820,995	53.81
<b>Transmission Lines</b>	32,688,000			22,286,979			68.18
<b>Utility Poles</b>	23,280,000			16,080,145			69.07
<b>Courthouse / Library</b>	7,000,000	-	-	1,952,349	-	-	27.89
<b>Government Buildings</b>	15,500,000	-	-	2,401,121	-	-	15.49
<b>Public Market</b>	-	-	-	-	-	-	
<b>Radio &amp; TV Studios</b>	500,000	-	-	282,267	-	-	56.45
<b>Schools &amp; Colleges</b>	78,569,000	20,012,000	30,000	38,103,934	6,574,229	7,049	45.31
<b>Pavements</b>	30,300,000			30,300			0.10
<b>Paved Roads</b>	247,488,000			1,892,571			0.76
<b>Unpaved Roads</b>	5,472,000			1,130,760			20.66
<b>Wastemanagement</b>							
Vehicles	2,220,000			-			-
Bins	19,020			322			1.69
<b>Total</b>	<b>724,640,020</b>	<b>104,296,000</b>	<b>7,535,000</b>	<b>143,831,283</b>	<b>52,051,421</b>	<b>4,144,747</b>	<b>23.91</b>