

Appendix IV: Section 4.0 (2) 90% 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 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 \$	Equipment Damage \$
1	St George	1952	20	0.2	0.25	1.108	1.000	1.108	131.79	0.493		0.630	131,790	0.493		-	-	-
1A	St George	1971	8	0.1	0.25	1.108	1.000	1.108	131.79	0.440	1,800,000	0.580		0.440		791,323	-	-
2	St George	1972	300	0.7	0.25	1.108	1.000	1.108	131.79	0.903	500,000	0.978	100,000	0.903	300,000	451,258	97,824	270,755
3	St Thomas	1968	40	0.11	0.25	1.108	1.000	1.108	131.79	0.616	952,000	0.768	100,000	0.616	100,000	586,865	76,763	61,646
4	St Anne	1942	70	0.2	0.25	1.108	1.000	1.108	131.79	0.709	840,000	0.871	100,000	0.709	800,000	595,687	87,063	567,321
5	St John	1971	200	0.6	0.25	1.108	1.000	1.108	131.79	0.858	500,000	0.977	20,000	0.858	150,000	429,219	19,532	128,766
6	St John	1950	200	0.5	0.25	1.108	1.000	1.108	131.79	0.858	130,000	0.977	20,000	0.858	150,000	111,597	19,532	128,766
7	St Mary	1972	300	0.7	0.25	1.108	1.000	1.108	131.79	0.903	500,000	0.978	100,000	0.903	300,000	451,258	97,824	270,755
S											5,222,000		440,000		1,800,000	3,417,206	398,539	1,428,006

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 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 \$	Equipment Damage \$
9	St George	1968	8	0.10	0.25	1.108	1.000	1.108	131.79	0.440		0.580		0.440		-	-	-
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 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 \$	Equipment Damage \$
11	St George	1967	170	0.5	0.25	1.108	1.000	1.108	131.79	0.951	660,000	0.980	200,000	0.951		627,677	195,961	-
12	St George	1967	170	0.5	0.25	1.108	1.000	1.108	131.79	0.951	1,000,000	0.980	350,000	0.951		951,026	342,931	-
13	St George	1999	170	0.5	0.25	1.108	1.000	1.108	131.79	0.860	860,000	0.965	300,000	0.860		739,728	289,498	-
14	St George	1999	170	0.5	0.25	1.108	1.000	1.108	131.79	0.860	800,000	0.965	1,000,000	0.860		688,119	964,994	-
15	St George	1999	170	0.5	0.25	1.108	1.000	1.108	131.79	0.860	1,600,000	0.965	100,000	0.860		1,376,238	96,499	-
16	St George	1967	170	0.5	0.25	1.108	1.000	1.108	131.79	0.951	1,000,000	0.980	400,000	0.951		951,026	391,921	-
17	St George	1999	170	0.5	0.25	1.108	1.000	1.108	131.79	0.860	860,000	0.965	200,000	0.860		739,728	192,999	-
18	St George	1967	170	0.5	0.25	1.108	1.000	1.108	131.79	0.951	3,000,000	0.980	1,600,000	0.951		2,853,078	1,567,685	-
21	St Anne		60	0.1	0.25	1.108	1.000	1.108	131.79	0.858	500,000	0.965	100,000	0.858		429,222	96,497	-
24	Christ Church	1986	380	0.8	0.25	1.108	1.000	1.108	131.79	0.983	800,000	0.987	100,000	0.983	5,000	786,016	98,697	4,913
25	St George	1949	40	0.1	0.25	1.108	1.000	1.108	131.79	0.634	600,000	0.739	240,000	0.634		380,638	177,356	-
26	St Mary				0.25	1.108	1.000	1.108	131.79	0.650	300,000	0.767	25,000	0.650		194,923	19,174	-
27	Christ Church	1952	400	0.9	0.25	1.108	1.000	1.108	131.79	0.984	160,000	0.988	25,000	0.984		157,413	24,689	-
29	St John	1954	100	0.2	0.25	1.108	1.000	1.108	131.79	0.912	260,000	0.975	25,000	0.912		237,239	24,376	-
30	St John		50	0.1	0.25	1.108	1.000	1.108	131.79	0.835	370,000	0.959	25,000	0.835		308,903	23,972	-
31	St John		150	0.4	0.25	1.108	1.000	1.108	131.79	0.943	270,000	0.979	25,000	0.943		254,704	24,473	-
32	St Anne	1955	80	0.1	0.25	1.108	1.000	1.108	131.79	0.891	270,000	0.972	25,000	0.891		240,594	24,290	-
33	St Thomas		35	0.1	0.25	1.108	1.000	1.108	131.79	0.785	260,000	0.929	20,000	0.785		203,975	18,587	-
34	St George	1975	8	0	0.25	1.108	1.000	1.108	131.79	0.650	600,000	0.767	500,000	0.650		389,846	383,480	-
S											14,170,000		5,260,000		5,000	12,510,093	4,958,077	4,913

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 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 \$	Equipment Damage \$
41	St George	1997	10	0	0.13	1.056	1.000	0.137	16.33	0.382	3,300,000	0.497	50,000	0.382		1,261,442	24,875	-
42	St George	1991	25	0	0.13	1.056	1.000	0.137	16.33	0.659	800,000	0.780	210,000	0.659		527,500	163,698	-
43	St George	1982	13	0	0.13	1.056	1.000	0.137	16.33	0.382	760,000	0.497	200,000	0.382		290,514	99,500	-
43A	St George	1993	13	0	0.13	1.056	1.000	0.137	16.33	0.571		0.681		0.571		-	-	-
44	St George	1986	10	0	0.13	1.056	1.000	0.137	16.33	0.382	2,000,000	0.497	1,500,000	0.382		764,510	746,247	-
45	St George	1980	12	0	0.13	1.056	1.000	0.137	16.33	0.571		0.681		0.571		-	-	-
S											6,860,000		1,960,000		-	2,843,965	1,034,320	-

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	Pf	Rep. Cost	Damage to Wharf
41A	1996	12.5	27.0	53.51	160,541.43	240,812.14	160,080.53	-1.3410	0.0900	30,000,000	2,698,862
45A	1980	10	15.0	29.73	37,708.49	56,562.73	37,465.18	-1.3505	0.0884	35,000,000	3,094,755
S										65,000,000	5,793,617

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	Pf	Rep. Cost	Damage to Wharf
41B	1996	9	15.6	30.92	41,185.25	61,777.88	40,931.55	-1.3498	0.0885	22,000,000	1,948,024
S										22,000,000	1,948,024

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 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 \$	Equipment Damage \$
51	St Peter	1998	130	1.0	0.4	1.172	1.000	1.172	139.47	0.884	36,000,000	0.894		0.884		31,827,672	-	-
52	St Peter	1999	130	1.0	0.4	1.172	1.000	1.172	139.47	0.884	2,000,000	0.894	4,000,000	0.884		1,768,204	3,577,908	-
52A	St Peter	1999	130	1.0	0.4	1.172	1.000	1.172	139.47	0.884	1,400,000	0.894	500,000	0.884		1,237,743	447,239	-
53	St Peter	1974	130	1.0	0.4	1.172	1.000	1.172	139.47	0.884	300,000	0.894	1,000,000	0.884		265,231	894,477	-
53A	St Peter	1974	130	1.0	0.4	1.172	1.000	1.172	139.47	0.884	320,000	0.894	30,000	0.884		282,913	26,834	-
54	St Peter	1974	130	1.0	0.4	1.172	1.000	1.172	139.47	0.884		0.894	1,000,000	0.884		-	894,477	-
S											40,020,000		6,530,000		-	35,381,762	5,840,935	-

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	H	VH	M	0.01	800,000
S			80,000,000					800,000

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 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 \$	Equipment Damage \$
55	St George	1987	20	0	0.13	1.056	1.000	1.056	125.65	0.409	1,100,000	0.238	250,000	0.409		450,310	59,527	-
S											1,100,000		250,000		-	450,310	59,527	-

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 _f	Rep. Cost	Damage to Wharf
55A	1988	10	13.0	25.77	27,661.75	41,492.62	27,452.72	-1.3535	0.0880	750,000	65,963
S										750,000	65,963

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 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 \$	Equipment Damage \$
56	St George	1977	75	0.1	0.13	1.056	1.000	1.056	125.65	0.646	600,000	0.645	200,000	0.646		387,588	129,094	-
S											600,000	200,000		-	387,588	129,094	-	

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 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 \$	Equipment Damage \$
70	St Peter	1972	75	0.8	0.4	1.172	1.000	1.172	139.47	0.799	6,000,000	0.828	30,000,000	0.799	2,000,000	4,796,478	24,847,110	1,598,826
71	St Peter	1999	75	0.8	0.4	1.172	1.000	1.172	139.47	0.799	4,000,000	0.828	25,000,000	0.799	3,000,000	3,197,652	20,705,925	2,398,239
S											10,000,000	55,000,000		5,000,000	7,994,130	45,553,035	3,997,065	

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 ₂	$\sqrt{K_{zt}}$	$\sqrt{K_z}$	$\sqrt{K_T}$	Site Speed mph	z	P _r	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	129.75	1.0352	0.8497	74,000	16,576,000	14,084,864
St Mary	40	350	90	1.1	99	29.7	0.28	1.120	1.000	1.120	133.33	1.1558	0.8761	74,000	2,960,000	2,593,318
Christ Church	8	300	90	1.1	99	29.7	0.3	1.129	1.000	1.129	134.35	1.1903	0.8830	35,000	280,000	247,248
St John	24	200	90	1.1	99	29.7	0.22	1.095	1.000	1.095	130.26	1.0524	0.8537	35,000	600,000	512,220
St Paul	12	200	90	1.1	99	29.7	0.3	1.129	1.000	1.129	134.35	1.1903	0.8830	35,000	420,000	370,872
St Anne	28	150	90	1.1	99	29.7	0.16	1.069	1.000	1.069	127.19	0.9491	0.8287	74,000	2,072,000	1,717,079
St Thomas	8	150	90	1.1	99	29.7	0.23	1.099	1.000	1.099	130.77	1.0697	0.8576	35,000	280,000	240,132
Trinity	8	150	90	1.1	99	29.7	0.1	1.043	1.000	1.043	124.12	0.8457	0.8011	35,000	280,000	224,318
St Peter	52	250	90	1.1	99	29.7	0.44	1.189	1.000	1.189	141.51	1.4315	0.9239	35,000	1,820,000	1,681,412
S															25,288,000	21,671,464

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 ₂	$\sqrt{K_{zt}}$	$\sqrt{K_z}$	$\sqrt{K_T}$	Site Speed mph	z	P _r	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	129.75	1.0352	0.8497	1200	9,600,000	8,157,257
St Mary	1400	350	90	1.1	99	29.7	0.28	1.120	1.000	1.120	133.33	1.1558	0.8761	1200	1,680,000	1,471,883
Christ Church	300	300	90	1.1	99	29.7	0.3	1.129	1.000	1.129	134.35	1.1903	0.8830	1200	360,000	317,891
St Johns	800	200	90	1.1	99	29.7	0.22	1.095	1.000	1.095	130.26	1.0524	0.8537	1200	960,000	819,553
St Paul	500	200	90	1.1	99	29.7	0.3	1.129	1.000	1.129	134.35	1.1903	0.8830	1200	600,000	529,818
St Anne	1000	150	90	1.1	99	29.7	0.16	1.069	1.000	1.069	127.19	0.9491	0.8287	1200	1,200,000	994,447
St Thomas	300	150	90	1.1	99	29.7	0.23	1.099	1.000	1.099	130.77	1.0697	0.8576	1200	360,000	308,742
Trinity	300	150	90	1.1	99	29.7	0.1	1.043	1.000	1.043	124.12	0.8457	0.8011	1200	360,000	288,409
St Peters	1800	250	90	1.1	99	29.7	0.44	1.189	1.000	1.189	141.51	1.4315	0.9239	1200	2,160,000	1,995,522
S															17,280,000	14,883,521

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 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 \$	Equipment Damage \$
90	St George	1997	15	0	0.13	1.056	1.000	1.056	125.65	0.330	7,000,000	0.173		0.330		2,309,237	-	-
S											7,000,000		-		-	2,309,237	-	-

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 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 \$	
91	St George	1963 / 1995	15	0.1	0.13	1.056	1.000	1.056	125.65	0.330	15,000,000	0.173		0.330		4,948,365	-	-	
											S	15,000,000		-		-	4,948,365	-	-

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 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 \$	
92	St George	1978	10	25	0.6	1.258	1.000	1.258	149.70	0.548		0.056		0.548		-	-	-	
											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 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 \$	
93	St George	1958	155	0.5	0.25	1.108	1.000	1.108	131.79	0.806	500,000	0.832		0.806		403,243	-	-	
											S	500,000		-		-	403,243	-	-

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 \$	Equipment Damage \$	
101	St Mary	1986	340	0.7	0.3	1.129	1.000	1.129	134.35	0.922	1,600,000	0.941	400,000	0.922		1,475,622	376,420	-	
102	St Mary	1971	340	0.7	0.3	1.129	1.000	1.129	134.35	0.922	1,000,000	0.941	400,000	0.922		922,264	376,420	-	
103	St Mary*	1971	340	0.7	0.3	1.129	1.000	1.129	134.35	0.922	2,300,000	0.941	420,000	0.922		2,121,207	395,241	-	
104	St Mary	1982	340	0.7	0.3	1.129	1.000	1.129	134.35	0.922	2,000,000	0.941	100,000	0.922		1,844,528	94,105	-	
105	St George	1982	135	0.3	0.2	1.086	1.000	1.086	129.23	0.758	2,500,000	0.776	110,000	0.758		1,894,035	85,413	-	
106	St George	1975	20	0.1	0.1	1.043	1.000	1.043	124.12	0.357	200,000	0.201	30,000	0.357		71,469	6,037	-	
106A	St George	1999	35	0.1	0.1	1.043	1.000	1.043	124.12	0.456	1,106,000	0.319	30,000	0.456		504,110	9,571	-	
107	St George	1992	100	0.6	0.3	1.129	1.000	1.129	134.35	0.768	2,000,000	0.789	3,000,000	0.768		1,536,460	2,367,402	-	
108	St John	1968	60	0.2	0.2	1.086	1.000	1.086	129.23	0.623	3,000,000	0.574	80,000	0.623		1,869,519	45,893	-	
109	St Anne	1978	50	0.1	0.1	1.043	1.000	1.043	124.12	0.521	1,000,000	0.408	425,000	0.521		521,155	173,527	-	
109A	St Anne	1999	50	0.1	0.1	1.043	1.000	1.043	124.12	0.521		0.408	400,000	0.521		-	163,319	-	
110	St Anne	1978	50	0.1	0.1	1.043	1.000	1.043	124.12	0.521	2,600,000	0.408	500,000	0.521		1,355,003	204,149	-	
111	St Anne	1982	25	0	0.1	1.043	1.000	1.043	124.12	0.395	1,700,000	0.244	100,000	0.395		671,937	24,351	-	
112	St John	1986	100	0.3	0.2	1.086	1.000	1.086	129.23	0.710	1,600,000	0.713	70,000	0.710		1,135,662	49,916	-	
113	St George	1972	40	0.1	0.1	1.043	1.000	1.043	124.12	0.480	2,500,000	0.351	2,500,000	0.480		1,200,380	877,245	-	
114	St Thomas	1997	70	0.2	0.2	1.086	1.000	1.086	129.23	0.650	2,600,000	0.618	250,000	0.650		1,689,693	154,495	-	
114A	St Thomas	1967	90	0.2	0.2	1.086	1.000	1.086	129.23	0.692	3,000,000	0.687	410,000	0.692		2,077,035	281,623	-	
115	St John	1996	50	0.1	0.1	1.043	1.000	1.043	124.12	0.521	1,350,000	0.408	50,000	0.521		703,559	20,415	-	
116	St George	1996	100	0.3	0.2	1.086	1.000	1.086	129.23	0.710	7,000,000	0.713	1,500,000	0.710		4,968,523	1,069,629	-	
117	St George	1986	100	0.6	0.3	1.129	1.000	1.129	134.35	0.768	5,000,000	0.789	330,000	0.768		3,841,150	260,414	-	
118	St George	1972	100	0.6	0.3	1.129	1.000	1.129	134.35	0.768	3,000,000	0.789	1,200,000	0.768		2,304,690	946,961	-	
119	St George	1961	60	0.4	0.3	1.129	1.000	1.129	134.35	0.686	3,500,000	0.677	530,000	0.686		2,401,970	358,990	-	
119A	St George	1957	60	0.4	0.3	1.129	1.000	1.129	134.35	0.686	6,000,000	0.677	3,000,000	0.686		4,117,662	2,032,017	-	
120	Trinity	1985	140	0.1	0.1	1.043	1.000	1.043	124.12	0.702	1,600,000	0.702	150,000	0.702		1,123,274	105,252	-	
121	St George	1996	25	0.3	0.2	1.086	1.000	1.086	129.23	0.464	1,200,000	0.330	150,000	0.464	30,000	557,392	49,536	13,935	
122	St Peters	1974	450	2.0	0.6	1.258	1.000	1.258	149.70	0.983	1,500,000	0.981	70,000	0.983		1,474,253	68,649	-	
123	St Peters	1996	450	2.0	0.6	1.258	1.000	1.258	149.70	0.983	700,000	0.981	50,000	0.983		687,985	49,035	-	
124	St George	1987	15	0.1	0.1	1.043	1.000	1.043	124.12	0.312	300,000	0.155	50,000	0.312		93,597	7,767	-	
125	Christ Church	1987	300	1.0	0.4	1.172	1.000	1.172	139.47	0.940	850,000	0.953	50,000	0.940		798,794	47,653	-	
126	St Paul	1959	225	0.8	0.4	1.172	1.000	1.172	139.47	0.917	500,000	0.937	40,000	0.917		458,599	37,496	-	
127	St George	1966	8	0	0.1	1.043	1.000	1.043	124.12	0.312	1,386,000	0.155	80,000	0.312		432,418	12,428	-	
127A	St George	1999	8	0	0.1	1.043	1.000	1.043	124.12	0.312	1,000,000	0.155	80,000	0.312		311,990	12,428	-	
128	St Peters	1982	85	0.9	0.4	1.172	1.000	1.172	139.47	0.797	300,000	0.822	100,000	0.797		239,171	82,175	-	
129	St Paul	1999	170	0.4	0.2	1.086	1.000	1.086	129.23	0.793	1,300,000	0.817	70,000	0.793		1,030,479	57,174	-	
											S	67,192,000			16,725,000	30,000	46,435,584	10,903,146	13,935

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	H	M	VH	0.5	1,000,000
St George			3,800,000	H	M	VH	0.5	1,900,000
St Peter	350,000	70	24,500,000	H	M	VH	0.5	12,250,000
	S		30,300,000					15,150,000

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	H	M	VH	0.5	6,876,000
St Thomas	7	573,000	4,011,000	H	M	VH	0.5	2,005,500
Trinity	7	573,000	4,011,000	H	M	VH	0.5	2,005,500
St Peter	44	573,000	25,212,000	H	M	VH	0.5	12,606,000
St George	190	573,000	108,870,000	H	M	VH	0.5	54,435,000
St Mary	34	573,000	19,482,000	H	M	VH	0.5	9,741,000
Christ Church	7	573,000	4,011,000	H	M	VH	0.5	2,005,500
St John	20	573,000	11,460,000	H	M	VH	0.5	5,730,000
St Paul	10	573,000	5,730,000	H	M	VH	0.5	2,865,000
	S		196,539,000					98,269,500

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	H	L	VH	0.5	612,000
St Mary	6	36,000	216,000	H	L	VH	0.5	108,000
Christ Church	1	36,000	36,000	H	L	VH	0.5	18,000
St John	4	36,000	144,000	H	L	VH	0.5	72,000
St Paul	2	36,000	72,000	H	L	VH	0.5	36,000
St Anne	4	36,000	144,000	H	L	VH	0.5	72,000
St Thomas	1	36,000	36,000	H	L	VH	0.5	18,000
Trinity	1	36,000	36,000	H	L	VH	0.5	18,000
St Peter	8	36,000	288,000	H	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}	s	b	Pr	Total Rep. Cost	Damage to Vehicles
St George	4	200,000	172	14000	7764.63	1247.07	6.23	0.0000	800,000	0
St Mary	1	200,000	172	14000	7764.63	1247.07	6.23	0.0000	200,000	0
St Anne	1	200,000	172	14000	7764.63	1247.07	6.23	0.0000	200,000	0
S									1,200,000	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	Pr	Total Rep. Cost	Damage to Bins
St George	4	700	27	1,000	21.19	195.76	0.11	0.4569	2,800	1,279
Trinity	1	700	27	1,000	21.19	195.76	0.11	0.4569	700	320
S									3,500	1,599

SUMMARY

	Structure Value	Contents Value	Equipment Value	Structural Damage	Content Damage	Equipment Damage	% PML
Police Stations	5,222,000	440,000	1,800,000	3,417,206	398,539	1,428,006	70.27
Fire Stations	-	-	-	-	-	-	
Hospitals & Health Centers	14,170,000	5,260,000	5,000	12,510,093	4,958,077	4,913	89.91
Ports							
Buildings	6,860,000	1,960,000	-	2,843,965	1,034,320	-	43.97
Wharf	65,000,000			5,793,617			8.91
Pier	22,000,000			1,948,024			8.85
Airport							
Buildings	40,020,000	6,530,000	-	35,381,762	5,840,935	-	88.56
Runway	80,000,000			800,000			1.00
Coast Guard Station							
Building	1,100,000	250,000	-	450,310	59,527	-	37.77
Pier	750,000			65,963			8.80
Custom & Excise Department	600,000	200,000	-	387,588	129,094	-	64.59
Power Stations	10,000,000	55,000,000	5,000,000	7,994,130	45,553,035	3,997,065	82.21
Transmission Lines	25,288,000			21,671,464			85.70
Utility Poles	17,280,000			14,883,521			86.13
Courthouse	7,000,000	-	-	2,309,237	-	-	32.99
Government Buildings	15,000,000	-	-	4,948,365	-	-	32.99
Public Market	-	-	-	-	-	-	
Radio & TV Studios	500,000	-	-	403,243	-	-	80.65
Schools & Colleges	67,192,000	16,725,000	30,000	46,435,584	10,903,146	13,935	68.32
Pavements	30,300,000			15,150,000			50.00
Paved Roads	196,539,000			98,269,500			50.00
Unpaved Roads	2,196,000			1,098,000			50.00
Wastemanagement							
Vehicles	1,200,000			0			0.00
Bins	3,500			1,599			45.69
Total	608,220,500	86,365,000	6,835,000	276,763,170	68,876,672	5,443,919	50.05

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 _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 \$
201	St Paul	1998	15	0.1	0.1	1.043	1.000	1.043	124.12	0.340	4,500,000	0.488	150,000	0.340	300,000	1,530,747	73,266	102,050
201 B	St Paul	1998	15	0.1	0.1	1.043	1.000	1.043	124.12	0.551		0.663	600,000	0.551		-	397,642	-
202	St Thomas	1950's	200	0.6	0.3	1.129	1.000	1.129	134.35	0.968	250,000	0.982	25,000	0.968	100,000	241,929	24,559	96,771
203	St George	1940	725	1.8	0.6	1.258	1.000	1.258	149.70	0.999	285,000	0.999	25,000	0.999	100,000	284,812	24,986	99,934
203A	St James	1983	40	0.3	0.2	1.086	1.000	1.086	129.23	0.584	350,000	0.731	50,000	0.584	200,000	204,444	36,573	116,825
S											5,385,000		850,000		700,000	2,261,931	557,026	415,580

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 _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 \$
205	St Paul	1952	150	0.6	0.3	1.129	1.000	1.129	134.35	0.867	276,000	0.967	105,000	0.867		239,381	101,519	-
205 A	St Paul	1963	150	0.6	0.3	1.129	1.000	1.129	134.35	0.954	448,000	0.980	182,000	0.954		427,523	178,398	-
205 B	St Paul	1952	150	0.6	0.3	1.129	1.000	1.129	134.35	0.867	1,400,000	0.967	245,000	0.867		1,214,254	236,877	-
205 C	St Paul	1985	150	0.6	0.3	1.129	1.000	1.129	134.35	0.954	531,000	0.980	75,000	0.954		506,729	73,516	-
205 D	St Paul	1995	150	0.6	0.3	1.129	1.000	1.129	134.35	0.954	147,000	0.980	87,000	0.954		140,281	85,278	-
211	St Paul	1958	20	0.2	0.15	1.065	1.000	1.065	126.68	0.635		0.748		0.635		-	-	-
S											2,802,000		694,000		0	2,528,168	675,588	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 _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 \$
209	St John	1999	8	0	0.13	1.056	1.000	1.056	125.65	0.359	400,000	0.177		0.359		143,706	-	-
210	St John	1999	8	0	0.13	1.056	1.000	1.056	125.65	0.359	745,000	0.177		0.359		267,653	-	-
S											1,145,000		0		0	411,360	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	Pf	Rep. Cost	Damage to Wharf
208	1999	6	13	25.77	27,661.75	41,492.62	27,452.72	-1.3535	0.0880	13,500,000	1,187,333
S										13,500,000	1,187,333

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	Pf	Rep. Cost	Damage to Pier
206	1994	6	13	25.77	27,661.75	41,492.62	27,452.72	-1.3535	0.0880	400,000	35,180
207	1997+	6	13	25.77	27,661.75	41,492.62	27,452.72	-1.3535	0.0880	5,500,000	483,728
S										5,900,000	518,909

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 \$
216	St James	1940	150	0.7	0.32	1.138	1.000	1.138	135.37	0.838	600,000	0.865	22,000	0.838		502,721	19,023	-
217	St George	1978	750	1.9	0.6	1.258	1.000	1.258	149.70	0.993	2,100,000	0.989	80,000	0.993		2,086,125	79,090	-
218 A	St George	1950	750	1.9	0.6	1.258	1.000	1.258	149.70	0.993	700,000	0.989	250,000	0.993		695,375	247,157	-
218 B	St George	1950	750	1.9	0.6	1.258	1.000	1.258	149.70	0.993	800,000	0.989	250,000	0.993		794,714	247,157	-
218 C	St George	1978	750	1.9	0.6	1.258	1.000	1.258	149.70	0.993	800,000	0.989	250,000	0.993		794,714	247,157	-
219	St James	1979	200	0.5	0.3	1.129	1.000	1.129	134.35	0.866		0.894	30,000	0.866		-	26,821	-
220	St Paul	1950	50	0.2	0.2	1.086	1.000	1.086	129.23	0.591	1,000,000	0.519	1,300,000	0.591		590,909	674,796	-
220 A	St Paul	1990	50	0.2	0.2	1.086	1.000	1.086	129.23	0.591	1,300,000	0.519	860,000	0.591		768,182	446,404	-
221	St Paul	1990	50	0.2	0.2	1.086	1.000	1.086	129.23	0.591	2,300,000	0.519	80,000	0.591		1,359,091	41,526	-
223	St Thomas	1983	100	0.2	0.2	1.086	1.000	1.086	129.23	0.710	200,000	0.713	80,000	0.710		141,958	57,047	-
224	St John	1983	350	1.5	0.5	1.215	1.000	1.215	144.59	0.965	1,377,000	0.969	60,000	0.965		1,328,740	58,151	-
225	St John	+1990	725	1.9	0.6	1.258	1.000	1.258	149.70	0.993	200,000	0.988	25,000	0.993		198,573	24,703	-
S											11,377,000	3,287,000	0	9,261,103	2,169,029	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 _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 \$
226	St James	1968	40	0.2	0.2	1.086	1.000	1.086	129.23	0.621	5,000,000	0.578	3,000,000	0.621		3,104,785	1,735,233	-
227	St James	1998	40	0.2	0.2	1.086	1.000	1.086	129.23	0.621	800,000	0.578	1,500,000	0.621		496,766	867,617	-
228	St James	1988	40	0.2	0.2	1.086	1.000	1.086	129.23	0.621	1,350,000	0.578	600,000	0.621		838,292	347,047	-
S											7,150,000	5,100,000	0	4,439,843	2,949,896	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			-					-

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 _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 \$
229	St Paul	*1877	10	0	0.13	1.056	1.000	1.056	125.65	0.330		0.173		0.330		-	-	-
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 _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 \$
230	St Paul	1940	8	0	0.13	1.056	1.000	1.056	125.65	0.330		0.173		0.330		-	-	-
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 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 \$	Equipment Damage \$
231	St Paul	1982	15	0.1	0.13	1.056	1.000	1.056	125.65	0.330	500,000	0.173		0.330		164,946	-	-
S											500,000	0	0	164,946	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 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 \$	Equipment Damage \$
232	St John	1984	250	1.3	0.4	1.172	1.000	1.172	139.47	0.926		0.944	8,000,000	0.926		-	7,550,976	-
S											0	8,000,000	0	0	7,550,976	0		

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 ₂	$\sqrt{K_{zt}}$	$\sqrt{K_z}$	$\sqrt{K_T}$	Site Speed mph	z	P _r	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	129.23	1.0180	0.8457	70,000	2,800,000	2,367,837
St George	60	500	90	1.1	99	29.7	0.6	1.258	1.000	1.258	149.70	1.7071	0.9561	35,000	2,100,000	2,007,814
St James	40	150	90	1.1	99	29.7	0.24	1.103	1.000	1.103	131.28	1.0869	0.8615	35,000	1,000,000	861,458
St John	30	350	90	1.1	99	29.7	0.35	1.151	1.000	1.151	136.91	1.2764	0.8991	35,000	750,000	674,322
St Thomas	30	100	90	1.1	99	29.7	0.25	1.108	1.000	1.108	131.79	1.1041	0.8652	35,000	750,000	648,923
S															7,400,000	6,560,354

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 ₂	$\sqrt{K_{zt}}$	$\sqrt{K_z}$	$\sqrt{K_T}$	Site Speed mph	z	P _r	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	129.23	1.0180	0.8457	1200	1,200,000	1,014,787
St George	1500	500	90	1.1	99	29.7	0.6	1.258	1.000	1.258	149.70	1.7071	0.9561	1200	1,800,000	1,720,983
St James	1000	150	90	1.1	99	29.7	0.24	1.103	1.000	1.103	131.28	1.0869	0.8615	1200	1,200,000	1,033,750
St John	750	350	90	1.1	99	29.7	0.35	1.151	1.000	1.151	136.91	1.2764	0.8991	1200	900,000	809,186
St Thomas	750	100	90	1.1	99	29.7	0.25	1.108	1.000	1.108	131.79	1.1041	0.8652	1200	900,000	778,707
S															6,000,000	5,357,414

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	H	M	VH	0.5	5,049,000
St George	33	459,000	15,147,000	H	M	VH	0.5	7,573,500
St James	22	459,000	10,098,000	H	M	VH	0.5	5,049,000
St John	17	459,000	7,803,000	H	M	VH	0.5	3,901,500
St Thomas	17	459,000	7,803,000	H	M	VH	0.5	3,901,500
	S		50,949,000					25,474,500

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	H	L	VH	0.5	486,000
St John	14	36,000	504,000	H	L	VH	0.5	252,000
St Paul	18	36,000	648,000	H	L	VH	0.5	324,000
St Thomas	14	36,000	504,000	H	L	VH	0.5	252,000
St James	18	36,000	648,000	H	L	VH	0.5	324,000
	S		3,276,000					1,638,000

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}	s	b	Pf	Total Rep. Cost	Damage to Vehicles
St Thomas	1	240,000	172	14,000	7764.63	1247.07	6.23	0.0000	240,000	0
St John	2	75,000	150	11,000	5562.18	1087.56	5.11	0.0000	150,000	0
St George	1	150,000	150	11,000	5562.18	1087.56	5.11	0.0000	150,000	0
St Paul	2	240,000	172	14,000	7764.63	1247.07	6.23	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	64.97	87.01	0.75	0.2276	12,000	2,731
St John	2	1,760	16	560	-20.03	116.01	-0.17	0.5686	3,520	2,001
S									15,520	4,732

SUMMARY

	Structure Value	Contents Value	Equipment Value	Structural Damage	Content Damage	Equipment Damage	% PML
Police Stations	5,385,000	850,000	700,000	2,261,931	557,026	415,580	46.64
Hospitals & Health Centers	2,802,000	694,000	-	2,528,168	675,588	-	91.64
Ports							
Buildings	1,145,000	-	-	411,360	-	-	35.93
Wharf	13,500,000			1,187,333			8.80
Pier	5,900,000			518,909			8.80
Schools & Colleges	11,377,000	3,287,000	-	9,261,103	2,169,029	-	77.95
Airport							
Buildings	7,150,000	5,100,000	-	4,439,843	2,949,896	-	60.32
Runway	-			-			
Courthouse / Library	-	-	-	-	-	-	
Public Market	-	-	-	-	-	-	
Government Buildings	500,000	-	-	164,946	-	-	32.99
Power House	-	8,000,000	-	-	7,550,976	-	94.39
Transmission Lines	7,400,000			6,560,354			88.65
Utility Poles	6,000,000			5,357,414			89.29
Pavements	-			-			
Paved Roads	50,949,000			25,474,500			50.00
Unpaved Roads	3,276,000			1,638,000			50.00
Wastemanagement							
Vehicles	1,020,000			0			0.00
Bins	15,520			4,732			30.49
Total	116,419,520	17,931,000	700,000	59,808,592	13,902,514	415,580	54.89

St. Kitts

	Structure Value	Contents Value	Equipment Value	Structural Damage	Content Damage	Equipment Damage
Police Stations	5222000	440000	1800000	3417205.51	398539.2	1428006.4
Fire Stations	0	0	0	0	0	0
Hospitals & Health Centers	14170000	5260000	5000	12510092.92	4958077.13	4912.6
Ports						
Buildings	6860000	1960000	0	2843965.3	1034319.65	0
Wharf	65000000	0	0	5793616.968	0	0
Pier	22000000	0	0	1948024.022	0	0
Airport						
Buildings	40020000	6530000	0	35381762.04	5840934.81	0
Runway	80000000	0	0	800000	0	0
Coast Guard Station						
Building	1100000	250000	0	450310.3	59527	0
Pier	750000	0	0	65962.95735	0	0
Custom & Excise Department	600000	200000	0	387588	129093.6	0
Power Stations	10000000	55000000	5000000	7994130	45553035	3997065
Transmission Lines	25288000	0	0	21671464.04	0	0
Utility Poles	17280000	0	0	14883521.19	0	0
Courthouse	7000000	0	0	2309237	0	0
Government Buildings	15000000	0	0	4948365	0	0
Public Market	0	0	0	0	0	0
Radio & TV Studios	500000	0	0	403242.5	0	0
Schools & Colleges	67192000	16725000	30000	46435583.57	10903145.73	13934.79
Pavements	30300000	0	0	15150000	0	0
Paved Roads	196539000	0	0	98269500	0	0
Unpaved Roads	2196000	0	0	1098000	0	0
Wastemanagement						
Vehicles	1200000	0	0	0.000287785	0	0
Bins	3500	0	0	1599.141833	0	0
Total	608220500	86365000	6835000	276763170.5	68876672.12	5443918.79

Nevis

	Structure Value	Contents Value	Equipment Value	Structural Damage	Content Damage	Equipment Damage
Police Stations	5385000	850000	700000	2261931.435	557025.5	415580.3
Hospitals & Health Centers	2802000	694000	0	2528167.816	675587.984	0
Ports						
Buildings	1145000	0	0	411359.57	0	0
Wharf	13500000	0	0	1187333.232	0	0
Pier	5900000	0	0	518908.5978	0	0
Schools & Colleges	11377000	3287000	0	9261102.881	2169028.771	0
Airport						
Buildings	7150000	5100000	0	4439842.55	2949896.1	0
Runway	0	0	0	0	0	0
Courthouse / Library	0	0	0	0	0	0
Public Market	0	0	0	0	0	0
Government Buildings	500000	0	0	164945.5	0	0
Power House	0	8000000	0	0	7550976	0
Transmission Lines	7400000	0	0	6560354.052	0	0
Utility Poles	6000000	0	0	5357414.13	0	0
Pavements	0	0	0	0	0	0
Paved Roads	50949000	0	0	25474500	0	0
Unpaved Roads	3276000	0	0	1638000	0	0
Wastemanagement						
Vehicles	1020000	0	0	0.047481985	0	0
Bins	15520	0	0	4732.48326	0	0
Total	116419520	17931000	700000	59808592.29	13902514.36	415580.3

SUMMARY (St. Kitts + Nevis)

Infrastructure Element	Structure Replacement Cost (EC\$)	Contents Replacement Cost (EC\$)	Equipment Replacement Cost (EC\$)	Structural Damage (EC\$)	Content Damage (EC\$)	Equipment Damage (EC\$)	% PML
Police Stations	10,607,000	1,290,000	2,500,000	5,679,137	955,565	1,843,587	58.89
Fire Stations	-	-	-	-	-	-	
Hospitals & Health Centers	16,972,000	5,954,000	5,000	15,038,261	5,633,665	4,913	90.17
Ports							
Buildings	8,005,000	1,960,000	-	3,255,325	1,034,320	-	43.05
Wharf	78,500,000			6,980,950			8.89
Pier	27,900,000			2,466,933			8.84
Airport							
Buildings	47,170,000	11,630,000	-	39,821,605	8,790,831	-	82.67
Runway	80,000,000			800,000			1.00
Coast Guard Station							
Building	1,100,000	250,000	-	450,310	59,527	-	37.77
Pier	750,000			65,963			8.80
Custom & Excise Department	600,000	200,000	-	387,588	129,094	-	64.59
Power Stations & Power House	10,000,000	63,000,000	5,000,000	7,994,130	53,104,011	3,997,065	83.46
Transmission Lines	32,688,000			28,231,818			86.37
Utility Poles	23,280,000			20,240,935			86.95
Courthouse / Library	7,000,000	-	-	2,309,237	-	-	32.99
Government Buildings	15,500,000	-	-	5,113,311	-	-	32.99
Public Market	-	-	-	-	-	-	
Radio & TV Studios	500,000	-	-	403,243	-	-	80.65
Schools & Colleges	78,569,000	20,012,000	30,000	55,696,686	13,072,175	13,935	69.75
Pavements	30,300,000			15,150,000			50.00
Paved Roads	247,488,000			123,744,000			50.00
Unpaved Roads	5,472,000			2,736,000			50.00
Wastemanagement							
Vehicles	2,220,000			0			0.00
Bins	19,020			6,332			33.29
Total	724,640,020	104,296,000	7,535,000	336,571,763	82,779,186	5,859,499	50.83