

Appendix III: 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	100	116
100 years	113	136

Market

1	2	3	4	5	5a	5b	5c	5e	6	25	26	28	29	30	31	32	33	34	
Struct No.	Parish	Year Built	Elevation ft.	Distance from coast	K _z	$\sqrt{K_{zt}}$	$\sqrt{K_z}$	$\sqrt{K_T}$	Site Speed mph	Struct. Damage Ratio	Building Value	Content Damage Ratio	Contents Value	Equipment Damage Ratio	Ext.Equip Value	Structural Damage \$	Content Damage \$	Equipment Damage \$	
1	Castries	1992	8	0.1	0.6	1.120	1.000	1.120	127	0.346	140,000.00	0.020		0.346		48,415	-	-	
2	Castries	1992	8	0.1	0.6	1.120	1.000	1.120	127	0.346	29,000.00	0.020		0.346		10,029	-	-	
3	Castries	1992	8	0.1	0.6	1.120	1.000	1.120	127	0.346	119,000.00	0.020		0.346		41,153	-	-	
4	Castries	1992	8	0.1	0.6	1.120	1.000	1.120	127	0.346	560,000.00	0.020		0.346		193,661	-	-	
5	Castries	1992	8	0.1	0.6	1.120	1.000	1.120	127	0.346	830,000.00	0.020		0.346		287,034	-	-	
6	Castries	1992	8	0.1	0.6	1.120	1.000	1.120	127	0.346	1,100,000.00	0.020		0.346		380,406	-	-	
7	Castries	1992	8	0.1	0.6	1.120	1.000	1.120	127	0.346	101,000.00	0.020		0.346		34,928	-	-	
8	Castries	1992	8	0.1	0.6	1.120	1.000	1.120	127	0.346	803,000.00	0.020		0.346		277,697	-	-	
9	Castries	1992	8	0.1	0.6	1.120	1.000	1.120	127	0.346	150,000.00	0.020		0.346		51,874	-	-	
10	Castries	1992	8	0.1	0.6	1.120	1.000	1.120	127	0.346	600,000.00	0.020		0.346		207,494	-	-	
11	Castries	1992	8	0.01	0.6	1.120	1.000	1.120	127	0.346	250,000.00	0.020		0.346		86,456	-	-	
12	Castries	1992		0.01	0.6	1.120	1.000	1.120	127	0.346	147,600.00	0.020		0.346		51,044	-	-	
13	Castries	1994	8	0.08	0.6	1.120	1.000	1.120	127	0.346	36,868,000.00	0.020		0.346		12,749,839	-	-	
14	Castries	1880's	8	0.1	0.6	1.120	1.000	1.120	127	0.346	2,129,920.00	0.020		0.346		736,577	-	-	
S											43,827,520		0		0	15,156,608		0	0

Buildings

1	2	3	4	5	5a	5b	5c	5e	6	25	26	28	29	30	31	32	33	34
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 \$
NI Block D	Castries	1996	8	0.10	0.6	1.120	1.000	1.120	127	0.279	17,250,000.00	0.050	3,000,000.00	0.279		4,807,834	148,857	-
NI Block A	Castries	1988	7	0.1	0.6	1.120	1.000	1.120	127	0.279	10,584,000.00	0.050	2,000,000.00	0.279		2,949,920	99,238	-
NI Block B	Castries	1988	7	0.1	0.6	1.120	1.000	1.120	127	0.279	9,216,000.00	0.050	2,000,000.00	0.279		2,568,637	99,238	-
NI Block C	Castries	1988	7	0.1	0.6	1.120	1.000	1.120	127	0.279	9,072,000.00	0.050	2,000,000.00	0.279		2,528,502	99,238	-
P.S.MB	Castries	1980	7	0.1	0.6	1.120	1.000	1.120	127	0.346	2,957,760.00	0.189	500,000.00	0.346		1,022,864	94,638	-
PS. S	Castries	1980	7	0.1	0.6	1.120	1.000	1.120	127	0.346	2,710,980.00	0.189		0.346		937,522	-	-
P.S NS	Castries	1980	7	0.1	0.6	1.120	1.000	1.120	127	0.346	876,180.00	0.189		0.346		303,004	-	-
P.S NS1	Castries	1980	7	0.1	0.6	1.120	1.000	1.120	127	0.346	629,340.00	0.189		0.346		217,641	-	-
Fisheries	Castries	1991	7	0.1	0.6	1.120	1.000	1.120	127	0.346		0.189		0.346		-	-	-
Market	Castries	1990	10	0.1	0.6	1.120	1.000	1.120	127	0.346		0.189		0.346		-	-	-
Market	Castries		10	0.1	0.6	1.120	1.000	1.120	127	0.346	2,129,920.00	0.189		0.346		736,577	-	-
Vendors	Castries	1994	7	0.1	0.6	1.120	1.000	1.120	127	0.346	2,500,000.00	0.189		0.346		864,560	-	-
Printery	Castries	1951	7	0.15	0.6	1.120	1.000	1.120	127	0.346	1,039,680.00	0.189		0.346	2,000,000.00	359,546	-	691,648
Gov't Bldg	Castries	1951	8	0.20	0.6	1.120	1.000	1.120	127	0.346	3,364,140.00	0.189		0.346		1,163,400	-	-
Town Hall	Castries	1951		0.3	0.6	1.120	1.000	1.120	127	0.346	2,042,100.00	0.189		0.346		706,207	-	-
Registry	Castries	1951	10	0.3	0.6	1.120	1.000	1.120	127	0.346	3,633,770.00	0.189	5,000,000.00	0.346		1,256,645	946,375	-
Min. Of Educ.	Castries	1970's	7	0.2	0.6	1.120	1.000	1.120	127	0.346	2,770,200.00	0.189		0.346		958,002	-	-
Post Office	Castries	1951	5	0.15	0.6	1.120	1.000	1.120	127	0.346	4,354,900.00	0.189	2,500,000.00	0.346		1,506,029	473,188	-
NCB/SLDB	Castries	1998	5	0.10	0.6	1.120	1.000	1.120	127	0.279	30,000,000.00	0.050	150,000.00	0.279	500,000.00	8,361,450	7,443	139,358
LUCELEC	Castries	1991	7	0.20	0.6	1.120	1.000	1.120	127	0.346	2,145,000.00	0.189	1,000,000.00	0.346		741,792	189,275	-
Cul. Complex	Castries	1996	100	0.25	0.6	1.120	1.000	1.120	127	0.673	1,166,880.00	0.655		0.673	600,000.00	784,747	-	403,510
Min. Of Cul	Castries	1997	100	0.25	0.6	1.120	1.000	1.120	127	0.673	1,900,000.00	0.655		0.673		1,277,782	-	-
Fire Stations	Castries	1951	7	0.1	0.6	1.120	1.000	1.120	127	0.346	1,375,140.00	0.189		0.346	4,000,000.00	475,556	-	1,383,296
Min. Trade W/hs	Castries	1996	10	.1	0.6	1.120	1.000	1.120	127	0.346	750,000.00	0.189		0.346		259,368	-	-
Old CDCs	Castries	1951	7	.25	0.6	1.120	1.000	1.120	127	0.346	8,847,040.00	0.189		0.346		3,059,519	-	-
	Castries	1951	7	0.25	0.6	1.120	1.000	1.120	127	0.346	13,721,940.00	0.189		0.346		4,745,376	-	-
	Castries	1951	7	0.25	0.6	1.120	1.000	1.120	127	0.279	9,184,880.00	0.050		0.279		2,559,964	-	-
									S		144,221,850		18,150,000		7,100,000	45,152,446	2,157,489	2,617,812

Factory

1	2	3	4	5	5a	5b	5c	5e	6	25	26	28	29	30	31	32	33	34
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 \$
	Castries	1972	50	0.75	0.75	1.150	1.000	1.150	130	0.605	1,625,925.00	0.154		0.605		983,418	-	-
	Castries	1978	50	0.75	0.75	1.150	1.000	1.150	130	0.605	1,050,000.00	0.154		0.605		635,078	-	-
	Castries				0.75	1.150	1.000	1.150	130	0.398	1,050,000.00	0.056		0.398		417,664	-	-
	Castries	1972			0.75	1.150	1.000	1.150	130	0.398	1,050,000.00	0.056		0.398		417,664	-	-
	Castries	1982			0.75	1.150	1.000	1.150	130	0.398	380,000.00	0.056		0.398		151,155	-	-
	Castries	1982			0.75	1.150	1.000	1.150	130	0.398	882,000.00	0.056		0.398		350,838	-	-
	Castries	1972			0.75	1.150	1.000	1.150	130	0.398	1,097,775.00	0.056		0.398		436,667	-	-
	Dennery	1977			0.75	1.150	1.000	1.150	130	0.398	1,449,000.00	0.056		0.398		576,376	-	-
	Dennery	1972			0.75	1.150	1.000	1.150	130	0.398	970,200.00	0.056		0.398		385,921	-	-
	Dennery	1984			0.75	1.150	1.000	1.150	130	0.398	1,029,000.00	0.056		0.398		409,310	-	-
	Dennery	1984			0.75	1.150	1.000	1.150	130	0.398	189,000.00	0.056		0.398		75,179	-	-
	Vieux Fort	1987			0.75	1.150	1.000	1.150	130	0.398	1,638,000.00	0.056		0.398		651,555	-	-
	Vieux Fort	1973			0.75	1.150	1.000	1.150	130	0.398	630,000.00	0.056		0.398		250,598	-	-
	Vieux Fort	1973			0.75	1.150	1.000	1.150	130	0.398	1,050,000.00	0.056		0.398		417,664	-	-
	Vieux Fort	1984			0.75	1.150	1.000	1.150	130	0.398	735,000.00	0.056		0.398		292,365	-	-
	Vieux Fort	1973			0.75	1.150	1.000	1.150	130	0.398	1,050,000.00	0.056		0.398		417,664	-	-
	Vieux Fort	1973			0.75	1.150	1.000	1.150	130	0.398	525,000.00	0.056		0.398		208,832	-	-
	Vieux Fort	1973			0.75	1.150	1.000	1.150	130	0.398	525,000.00	0.056		0.398		208,832	-	-
	Vieux Fort	1984			0.75	1.150	1.000	1.150	130	0.398	882,000.00	0.056		0.398		350,838	-	-
	Vieux Fort	1984			0.75	1.150	1.000	1.150	130	0.398	1,008,000.00	0.056		0.398		400,957	-	-
	Vieux Fort	1988			0.75	1.150	1.000	1.150	130	0.398	1,050,000.00	0.056		0.398		417,664	-	-
	Vieux Fort	1988			0.75	1.150	1.000	1.150	130	0.398	1,029,000.00	0.056		0.398		409,310	-	-
	Vieux Fort	1988			0.75	1.150	1.000	1.150	130	0.398	1,029,000.00	0.056		0.398		409,310	-	-
	Vieux Fort	1977			0.75	1.150	1.000	1.150	130	0.398	3,234,000.00	0.056		0.398		1,286,404	-	-
	Vieux Fort	1982			0.75	1.150	1.000	1.150	130	0.398	2,270,100.00	0.056		0.398		902,989	-	-
	Vieux Fort	1982			0.75	1.150	1.000	1.150	130	0.398	882,000.00	0.056		0.398		350,838	-	-
	Vieux Fort	1982			0.75	1.150	1.000	1.150	130	0.398	2,016,000.00	0.056		0.398		801,914	-	-
	Vieux Fort	1982			0.75	1.150	1.000	1.150	130	0.398	1,008,000.00	0.056		0.398		400,957	-	-
	Vieux Fort	1984			0.75	1.150	1.000	1.150	130	0.398	1,029,000.00	0.056		0.398		409,310	-	-
					0.75	1.150	1.000	1.150	130	0.398	1,029,000.00	0.056		0.398		409,310	-	-

Schools

1	2	3	4	5	5a	5b	5c	5e	6	25	26	28	29	30	31	32	33	34
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	CASTRIES	1990	20	0.5	0.75	1.150	1.000	1.150	130	0.430	210,000.00	0.283	23,625.00	0.430		90,240	6,694	-
2	CASTRIES	1990	20	0.5	0.75	1.150	1.000	1.150	130	0.430	560,000.00	0.283	63,000.00	0.430		240,639	17,850	-
3	CASTRIES	1990	20	0.5	0.75	1.150	1.000	1.150	130	0.430	383,000.00	0.283	43,087.50	0.430		164,580	12,208	-
4	CASTRIES	1990	20	0.5	0.75	1.150	1.000	1.150	130	0.430	367,000.00	0.283	41,287.50	0.430		157,704	11,698	-
5	CASTRIES	1990	20	0.5	0.75	1.150	1.000	1.150	130	0.430	133,000.00	0.283	14,962.50	0.430		57,152	4,239	-
6	CASTRIES	1990	20	0.5	0.75	1.150	1.000	1.150	130	0.430	128,000.00	0.283	14,400.00	0.430		55,003	4,080	-
7	CASTRIES	1960's	150	8.0	1.0	1.200	1.000	1.200	136	0.843	190,000.00	0.865	21,375.00	0.843		160,076	18,493	-
8	CASTRIES	1960's	150	8.0	1.0	1.200	1.000	1.200	136	0.843	100,000.00	0.865	11,250.00	0.843		84,251	9,733	-
9	CASTRIES	1960's	150	20.0	1.0	1.200	1.000	1.200	136	0.843	280,000.00	0.865	31,500.00	0.843		235,902	27,253	-
10	CASTRIES	1960's	150	20.0	1.0	1.200	1.000	1.200	136	0.843	183,000.00	0.865	20,587.50	0.843		154,179	17,812	-
11	CASTRIES	1960's	150	20.0	1.0	1.200	1.000	1.200	136	0.843	125,000.00	0.865	14,062.50	0.843		105,313	12,167	-
12	CASTRIES	1960's	150	20.0	1.0	1.200	1.000	1.200	136	0.843	70,000.00	0.865		0.843		58,975	-	-
13	CASTRIES	1960's	900	15.0	1.0	1.200	1.000	1.200	136	0.978	470,000.00	0.974	52,875.00	0.978	25,000.00	459,670	51,506	24,451
14		1960's	900	15.0	1.0	1.200	1.000	1.200	136	0.978	120,000.00	0.974	13,500.00	0.978		117,363	13,151	-
15		1960's	900	15.0	1.0	1.200	1.000	1.200	136	0.978	38,000.00	0.974		0.978		37,165	-	-
16	CASTRIES	1989	10	0.25	0.65	1.130	1.000	1.130	128	0.361	910,000.00	0.203	102,375.00	0.361		328,345	20,790	-
17	CASTRIES	1989	10	0.25	0.65	1.130	1.000	1.130	128	0.361	1,420,000.00	0.203	159,750.00	0.361		512,363	32,442	-
18	CASTRIES	1989	10	0.25	0.65	1.130	1.000	1.130	128	0.361	80,000.00	0.203	9,000.00	0.361		28,866	1,828	-
19	CASTRIES	1962	30	0.75	0.8	1.160	1.000	1.160	131	0.526	870,000.00	0.412	97,875.00	0.526		457,718	40,329	-
20		1962	30	0.75	0.8	1.160	1.000	1.160	131	0.526	232,000.00	0.412	26,100.00	0.526		122,058	10,755	-
21		1962	30	0.75	0.8	1.160	1.000	1.160	131	0.526	95,000.00	0.412	10,687.50	0.526		49,981	4,404	-
22		1962	30	0.75	0.8	1.160	1.000	1.160	131	0.526	210,000.00	0.412	23,625.00	0.526		110,484	9,735	-
23	CASTRIES	1984	700	10	1.0	1.200	1.000	1.200	136	0.970	453,000.00	0.970	50,962.50	0.970		439,564	49,447	-
24		1984	700	10	1.0	1.200	1.000	1.200	136	0.970	453,000.00	0.970	50,962.50	0.970		439,564	49,447	-
25		1984	700	10	1.0	1.200	1.000	1.200	136	0.970	153,000.00	0.970	17,212.50	0.970		148,462	16,701	-
26	CASTRIES	1970's	200	6	1.0	1.200	1.000	1.200	136	0.880	477,000.00	0.904	53,662.50	0.880		419,953	48,492	-
27		1970's	200	6	1.0	1.200	1.000	1.200	136	0.880	373,000.00	0.904	41,962.50	0.880		328,391	37,919	-

1	2	3	4	5	5a	5b	5c	5e	6	25	26	28	29	30	31	32	33	34
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	CASTRIES	1983	700	6	1.0	1.200	1.000	1.200	136	0.970	670,000.00	0.970	75,375.00	0.970		650,128	73,134	-
2	CASTRIES	1983	700	6	1.0	1.200	1.000	1.200	136	0.970	662,000.00	0.970	74,475.00	0.970		642,365	72,260	-
3	CASTRIES	1983	700	6	1.0	1.200	1.000	1.200	136	0.970	68,000.00	0.970	7,650.00	0.970		65,983	7,423	-
4	CASTRIES	1983	150	1	0.8	1.160	1.000	1.160	131	0.799	193,000.00	0.819	21,712.50	0.799		154,214	17,791	-
5	CASTRIES	1983	150	1	0.8	1.160	1.000	1.160	131	0.799	250,000.00	0.819	28,125.00	0.799		199,759	23,045	-
6	CASTRIES	1983	150	1	0.8	1.160	1.000	1.160	131	0.799	132,000.00	0.819	14,850.00	0.799		105,472	12,168	-
7	CASTRIES	1983	150	1	0.8	1.160	1.000	1.160	131	0.799	524,000.00	0.819	58,950.00	0.799		418,694	48,302	-
8	CASTRIES	1983	150	1	0.8	1.160	1.000	1.160	131	0.799	12,000.00	0.819		0.799		9,588	-	-
9	CASTRIES	1970's	400	1.67	1.0	1.200	1.000	1.200	136	0.946	112,000.00	0.955	12,600.00	0.946		105,995	12,033	-
10	CASTRIES	1970's	400	1.67	1.0	1.200	1.000	1.200	136	0.946	218,000.00	0.955	24,525.00	0.946		206,311	23,422	-
11	CASTRIES	1970's	400	1.67	1.0	1.200	1.000	1.200	136	0.946	128,947.00	0.955	14,506.54	0.946		122,033	13,854	-
12	CASTRIES	1970's	400	1.67	1.0	1.200	1.000	1.200	136	0.946	260,000.00	0.955	29,250.00	0.946		246,059	27,935	-
13	CASTRIES	1970's	400	1.67	1.0	1.200	1.000	1.200	136	0.946	52,000.00	0.955	5,850.00	0.946		49,212	5,587	-
14	CASTRIES	1970's	400	1.67	1.0	1.200	1.000	1.200	136	0.946	116,000.00	0.955	13,050.00	0.946		109,780	12,463	-
15	SOUFRIERE	1982	800	0.8	0.8	1.160	1.000	1.160	131	0.965	190,000.00	0.967	21,375.00	0.965		183,336	20,668	-
16	SOUFRIERE	1982	800	0.8	0.8	1.160	1.000	1.160	131	0.965	160,000.00	0.967	18,000.00	0.965		154,388	17,405	-
17	CHOSEUL	1982	1000	3.15	1.0	1.200	1.000	1.200	136	0.981	315,000.00	0.975	35,437.50	0.981		308,937	34,558	-
18	CHOSEUL	1982	1000	3.15	1.0	1.200	1.000	1.200	136	0.981	315,000.00	0.975	35,437.50	0.981		308,937	34,558	-
19	LABORIE	1982	150	0.5	0.7	1.140	1.000	1.140	129	0.771	505,000.00	0.788	56,812.50	0.771		389,207	44,743	-
20	VIEUX FORT	1983	15	0.3	0.65	1.130	1.000	1.130	128	0.361	2,000,000.00	0.203	225,000.00	0.361		721,638	45,693	-
21	MICOUD	1972	150	0.75	0.8	1.160	1.000	1.160	131	0.799	328,000.00	0.819	36,900.00	0.799		262,083	30,235	-
22	MICOUD	1972	150	0.75	0.8	1.160	1.000	1.160	131	0.799	43,000.00	0.819	4,837.50	0.799		34,358	3,964	-
23	MICOUD	1972	150	0.75	0.8	1.160	1.000	1.160	131	0.799	165,000.00	0.819	18,562.50	0.799		131,841	15,210	-
24	MICOUD	1972	150	0.75	0.8	1.160	1.000	1.160	131	0.799	8,000.00	0.819		0.799		6,392	-	-
25	MICOUD	1972	150	0.75	0.8	1.160	1.000	1.160	131	0.799	2,800,000.00	0.819	315,000.00	0.799		2,237,295	258,102	-

1	2	3	4	5	5a	5b	5c	5e	6	25	26	28	29	30	31	32	33	34
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	DENNERY	1982	50	2	1.0	1.200	1.000	1.200	136	0.676	1,300,000.00	0.655	146,250.00	0.676		878,508	95,799	-
2	DENNERY	1982	150	3	1.0	1.200	1.000	1.200	136	0.843	520,000.00	0.865	58,500.00	0.843		438,104	50,613	-
3	DENNERY	1982	150	3	1.0	1.200	1.000	1.200	136	0.843	206,000.00	0.865	23,175.00	0.843		173,556	20,051	-
4	DENNERY	1987	150	3	1.0	1.200	1.000	1.200	136	0.843	75,000.00	0.865	8,437.50	0.843		63,188	7,300	-
5	CHOISEUL	1985			1.0	1.200	1.000	1.200	136	0.458	710,000.00	0.319	79,875.00	0.458		324,915	25,454	-
6	GROS ISLET	1969	50	0.5	0.7	1.140	1.000	1.140	129	0.592	124,000.00	0.516	13,950.00	0.592		73,366	7,193	-
7	GROS ISLET	1982	50	0.5	0.7	1.140	1.000	1.140	129	0.592	621,000.00	0.516	69,862.50	0.592		367,420	36,024	-
8	GROS ISLET	1970's	50	0.5	0.7	1.140	1.000	1.140	129	0.592	660,000.00	0.516		0.592		390,495	-	-
9	GROS ISLET	1970's	50	0.5	0.7	1.140	1.000	1.140	129	0.592	474,300.00	0.516		0.592		280,624	-	-
10	DENNERY	1970	10	0.15	0.65	1.130	1.000	1.130	128	0.361	510000	0.203	57,375.00	0.361		184,018	11,652	-
11	DENNERY	1970	10	0.15	0.65	1.130	1.000	1.130	128	0.361	450,000.00	0.203	50,625.00	0.361		162,369	10,281	-
12	IEUX FORT (C	1970	10	0.2	0.65	1.130	1.000	1.130	128	0.361	1,400,000.00	0.203	157,500.00	0.361		505,147	31,985	-
13	EUX FORT (C	1970	80	0.2	0.65	1.130	1.000	1.130	128	0.653	332,000.00	0.617	37,350.00	0.653		216,683	23,060	-
14	VIEUX FORT	1970	82	0.2	0.65	1.130	1.000	1.130	128	0.664	332,000.00	0.636	37,350.00	0.664		220,551	23,770	-
15	VIEUX FORT	1970	80	0.2	0.65	1.130	1.000	1.130	128	0.653	332,000.00	0.617	37,350.00	0.653		216,683	23,060	-
16	VIEUX FORT	1970	80	0.2	0.65	1.130	1.000	1.130	128	0.653	500,000.00	0.617	56,250.00	0.653		326,330	34,729	-
17	VIEUX FORT	1970	80	0.2	0.65	1.130	1.000	1.130	128	0.653	109,000.00	0.617	12,262.50	0.653		71,140	7,571	-
18	VIEUX FORT	1970	80	0.2	0.65	1.130	1.000	1.130	128	0.653	490,000.00	0.617	55,125.00	0.653		319,803	34,034	-
19	EUX FORT (C	1963	50	0.5	0.7	1.140	1.000	1.140	129	0.592	225,000.00	0.516	25,312.50	0.592		133,123	13,052	-
20		1963	50	0.5	0.7	1.140	1.000	1.140	129	0.592	740,000.00	0.516	83,250.00	0.592		437,828	42,927	-
21		1963	50	0.5	0.7	1.140	1.000	1.140	129	0.592	500,000.00	0.516	56,250.00	0.592		295,830	29,005	-
22		1963	50	0.5	0.7	1.140	1.000	1.140	129	0.592	440,000.00	0.516	49,500.00	0.592		260,330	25,524	-
23		1963	50	0.5	0.7	1.140	1.000	1.140	129	0.592	134,000.00	0.516	15,075.00	0.592		79,282	7,773	-
24		1980's	50	0.5	0.7	1.140	1.000	1.140	129	0.592	500,000.00	0.516	56,250.00	0.592		295,830	29,005	-
25		1980's	50	0.5	0.7	1.140	1.000	1.140	129	0.592	260,000.00	0.516	29,250.00	0.592		153,831	15,082	-
26		1980's	50	0.5	0.7	1.140	1.000	1.140	129	0.592	120,000.00	0.516	13,500.00	0.592		70,999	6,961	-
27		1963	50	0.5	0.7	1.140	1.000	1.140	129	0.592	90,000.00	0.516	10,125.00	0.592		53,249	5,221	-
28		1980's	50	0.5	0.7	1.140	1.000	1.140	129	0.592	730,000.00	0.516	82,125.00	0.592		431,911	42,347	-

1	2	3	4	5	5a	5b	5c	5e	6	25	26	28	29	30	31	32	33	34
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	VF Compreh.	1980's	100	0.10	0.65	1.130	1.000	1.130	128	0.698	951,000.00	0.691	106,987.50	0.698		663,947	73,887	-
2	VIEUX FORT	1980's	100	0.10	0.65	1.130	1.000	1.130	128	0.698	435,000.00	0.691	48,937.50	0.698		303,698	33,797	-
3	VIEUX FORT	1980's	100	0.10	0.65	1.130	1.000	1.130	128	0.698	23,000.00	0.691	2,587.50	0.698		16,058	1,787	-
4	VIEUX FORT	1980's	100	0.10	0.65	1.130	1.000	1.130	128	0.698	426,000.00	0.691	47,925.00	0.698		297,415	33,098	-
5	VIEUX FORT	1980's	100	0.10	0.65	1.130	1.000	1.130	128	0.698	135,000.00	0.691	15,187.50	0.698		94,251	10,489	-
6	VIEUX FORT	1980's	100	0.10	0.65	1.130	1.000	1.130	128	0.698	864,000.00	0.691	97,200.00	0.698		603,208	67,128	-
7	AUGIER	1985	200	0.10	0.65	1.130	1.000	1.130	128	0.808	36,000.00	0.829	4,050.00	0.808		29,092	3,358	-
8		1985	200	0.10	0.65	1.130	1.000	1.130	128	0.808	255,000.00	0.829	28,687.50	0.808		206,066	23,785	-
9		1985	200	0.10	0.65	1.130	1.000	1.130	128	0.808	63,000.00	0.829	7,087.50	0.808		50,910	5,876	-
10		1985	200	0.10	0.65	1.130	1.000	1.130	128	0.808	61,000.00	0.829	6,862.50	0.808		49,294	5,690	-
11		1985	200	0.10	0.65	1.130	1.000	1.130	128	0.808	70,000.00	0.829	7,875.00	0.808		56,567	6,529	-
12		1985	200	0.10	0.65	1.130	1.000	1.130	128	0.808	104,000.00	0.829	11,700.00	0.808		84,043	9,701	-
13		1985	200	0.10	0.65	1.130	1.000	1.130	128	0.808	660,000.00	0.829	74,250.00	0.808		533,347	61,562	-
14	VIEUX FORT	1972	20	0.25	0.65	1.130	1.000	1.130	128	0.402	1,430,000.00	0.249	160,875.00	0.402		574,468	40,044	-
15	VIEUX FORT	1972	20	0.25	0.65	1.130	1.000	1.130	128	0.402	51,000.00	0.249	5,737.50	0.402		20,488	1,428	-
16	VIEUX FORT	1972	20	0.25	0.65	1.130	1.000	1.130	128	0.402	51,000.00	0.249	5,737.50	0.402		20,488	1,428	-
17	Gros Islet	1963	150	2.21	1.0	1.200	1.000	1.200	136	0.843	1,076,400.00	0.865	121,095.00	0.843		906,875	104,769	-
18	Gros Islet	1972	75	1.0	0.8	1.160	1.000	1.160	131	0.687	701,112.00	0.673	78,875.10	0.687		481,705	53,103	-
19	Gros Islet	1972	75	1.0	0.8	1.160	1.000	1.160	131	0.687	631,128.00	0.673	71,001.90	0.687		433,622	47,802	-
20	Gros Islet	1972	75	1.0	0.8	1.160	1.000	1.160	131	0.687	1,564,500.00	0.673	176,006.25	0.687		1,074,902	118,497	-
21	Gros Islet	1972	75	1.0	0.8	1.160	1.000	1.160	131	0.687	764,000.00	0.673	85,950.00	0.687		524,912	57,866	-
22	Gros Islet	1972	75	1.0	0.8	1.160	1.000	1.160	131	0.687		0.673		0.687		-	-	-
S											42,546,387		4,644,460		25,000	27,838,431	2,804,820	24,451

Buildings

1	2	3	4	5	5a	5b	5c	5e	6	25	26	28	29	30	31	32	33	34			
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 \$			
SLASPA BUILDINGS																					
1	Banana	1981	6	0.05	0.6	1.120	1.000	1.120	127	0.346	5,625,000.00	0.494		0.346		1,945,260	-	-			
2	Concrete Shed	1979	6	0.05	0.6	1.120	1.000	1.120	127	0.346	7,837,500.00	0.494		0.346		2,710,396	-	-			
3	Workshop	1989	6	0.05	0.6	1.120	1.000	1.120	127	0.346	825,000.00	0.494		0.346		285,305	-	-			
4	Sheds	1960's	6	0.05	0.6	1.120	1.000	1.120	127	0.346	2,800,000.00	0.494		0.346		968,307	-	-			
5	Customs 1	1992	6	0.05	0.6	1.120	1.000	1.120	127	0.346	2,231,250.00	0.494		0.346		771,620	-	-			
6	Customs 2	1960's	6	0.05	0.6	1.120	1.000	1.120	127	0.346	900,000.00	0.494		0.346		311,242	-	-			
7	LPC	1960's	6	0.05	0.6	1.120	1.000	1.120	127	0.346		0.494		0.346		-	-	-			
8	HQ	1997	6	0.05	0.6	1.120	1.000	1.120	127	0.346	3,579,860.00	0.494		0.346		1,238,002	-	-			
GEORGE FL CHARLES AIRPORT																					
9	Terminal		6	0.05	0.6	1.120	1.000	1.120	127	0.346	4,000,000.00	0.494	300,000.00	0.346	200,000.00	1,383,296	148,175	69,165			
10	Canopy	1980	6	0.05	0.6	1.120	1.000	1.120	127	0.346	240,000.00	0.494		0.346		82,998	-	-			
11	Mtc. Garage		6	0.05	0.6	1.120	1.000	1.120	127	0.346	222,000.00	0.494		0.346		76,773	-	-			
12	Fire Hall	1990	6	0.05	0.6	1.120	1.000	1.120	127	0.346	242,000.00	0.494		0.346		83,689	-	-			
HEWANORRA AIRPORT																					
13	Hewanorra	1979/96	10	0.1	0.6	1.120	1.000	1.120	127	0.346	18,400,000.00	0.494	300,000.00	0.346	300,000.00	6,363,162	148,175	103,747			
14	Cargo Shed	1988	10	0.1	0.6	1.120	1.000	1.120	127	0.346	950,000.00	0.494		0.346		328,533	-	-			
PORT VIEUX FORT																					
15	Administration	1990	12	0.15	0.6	1.120	1.000	1.120	127	0.346		0.494		0.346		-	-	-			
16	Shed																				
17	Security	1993	6	0.1	0.6	1.120	1.000	1.120	127	0.346		0.494		0.346		-	-	-			
S											47,852,610				600,000			500,000	16,548,581	296,349	172,912

Airport Runways

1	2	3	4	5	5	6	7	8	9
PARISHES	LENGTH (Feet)	AREA OF PAVEMENTS (Sq.Ft.)	REPLACEMENT COST (Per Sq.Ft.)	TOTAL COST	Erosion Potential	Pavement Resistance	Failure Likelihood	Failure Probability	Pavement Damage
Vieux Fort	9200.00	2,071,278.48	\$37.78	\$78,248,298.13	H	VH	M	0.01	782,483
Castries	5900.00	1,009,875.00	\$37.78	\$38,150,833.33	H	VH	M	0.01	381,508
S				116,399,131					1,163,991

Hospitals

1	2	3	4	5	5a	5b	5c	5e	6	25	26	28	29	30	31	32	33	34
Struct No.	Parish	Year Built	Elevation ft.	Distance from coast	K ²	$\sqrt{K_z t}$	$\sqrt{K_z}$	$\sqrt{K_T}$	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 \$
	"L" Block	1898	100	0.124	0.6	1.120	1.000	1.120	127	0.673	3,021,200.00	0.817		0.673		2,031,808	-	-
	Maternity	1992	100	0.124	0.6	1.120	1.000	1.120	127	0.673	8,500,000.00	0.817		0.673		5,716,395	-	-
	Baron Wing	1898	100	0.124	0.6	1.120	1.000	1.120	127	0.673	1,080,000.00	0.817		0.673		726,318	-	-
	Paeditrics	1963	100	0.124	0.6	1.120	1.000	1.120	127	0.673	1,732,000.00	0.817		0.673		1,164,799	-	-
	Chest Wing	1970	100	0.124	0.6	1.120	1.000	1.120	127	0.673	1,460,000.00	0.817		0.673		981,875	-	-
	Nurses Qtrs.	1966	100	0.1	0.6	1.120	1.000	1.120	127	0.673	2,931,880.00	0.817		0.673		1,971,739	-	-
	Administra.	1963	100	0.1	0.6	1.120	1.000	1.120	127	0.673	1,908,720.00	0.817		0.673		1,283,647	-	-
	Laboratory	1976	100	0.15	0.6	1.120	1.000	1.120	127	0.673	1,100,000.00	0.817		0.673		739,769	-	-
	Kitchen	1898	100	0.15	0.6	1.120	1.000	1.120	127	0.673	90,000.00	0.817		0.673		60,527	-	-
	Drs. Residen.	1943	100	0.125	0.6	1.120	1.000	1.120	127	0.673	384,000.00	0.817		0.673		258,247	-	-
	Boiler hse.	1953	100	0.125	0.6	1.120	1.000	1.120	127	0.673	97,500.00	0.817		0.673		65,570	-	-
	Generator 1	1977	100	0.125	0.6	1.120	1.000	1.120	127	0.673	37,200.00	0.817		0.673		25,018	-	-
	Generator 2	1991	100	0.125	0.6	1.120	1.000	1.120	127	0.673	35,040.00	0.817		0.673		23,565	-	-
	Sterilization	1993	100	0.125	0.6	1.120	1.000	1.120	127	0.673	32,160.00	0.817		0.673		21,628	-	-
	Mobile unit	1995	100	0.15	0.6	1.120	1.000	1.120	127	0.673	83,160.00	0.817		0.673		55,927	-	-
	Mobile unit	1995	100	0.15	0.6	1.120	1.000	1.120	127	0.673	45,435.00	0.817		0.673		30,556	-	-
										S	22,538,295		0		0	15,157,387	0	0

Roadworks

Asphalt

PARISH	Miles of Road	Replacement Cost per Mile \$1,300,000.00	Erosion Potential	Pavement Resistance	Failure Likelihood	Failure Probability	Pavement Damage
Zone 1	19.80	25740000	H	M	VH	0.5	12,870,000
Zone 2	8.40	10920000	H	M	VH	0.5	5,460,000
Zone 3	16.43	21359000	H	M	VH	0.5	10,679,500
Zone 4A	3.47	4511000	H	M	VH	0.5	2,255,500
Zone 4b	9.05	11765000	H	M	VH	0.5	5,882,500
Zone 5a	13.70	17810000	H	M	VH	0.5	8,905,000
Zone 5b	10.66	13863200	H	M	VH	0.5	6,931,600
Zone 5c		0	H	M	VH	0.5	-
Zone 6a		0	H	M	VH	0.5	-
Zone 6b	9.42	12251200	H	M	VH	0.5	6,125,600
Zone 7	28.64	37237200	H	M	VH	0.5	18,618,600
Zone 8a	35.59	46264400.00	H	M	VH	0.5	23,132,200
Zone 8b	13.02	16926000	H	M	VH	0.5	8,463,000
S		218,647,000					109,323,500

Surface Dres

PARISH	Miles of Road	Replacement Cost per Mile	Erosion Potential	Pavement Resistance	Failure Likelihood	Failure Probability	Pavement Damage
		\$637,269.13					
Zone 1	45.57	29040354.04	H	M	VH	0.5	14,520,177
Zone 2	24.12	15370931.3	H	M	VH	0.5	7,685,466
Zone 3	45.63	29078590.19	H	M	VH	0.5	14,539,295
Zone 4A	32.61	20781346.17	H	M	VH	0.5	10,390,673
Zone 4b	12.96	8259007.863	H	M	VH	0.5	4,129,504
Zone 5a	20.09	12802736.73	H	M	VH	0.5	6,401,368
Zone 5b	20.15	12840972.87	H	M	VH	0.5	6,420,486
Zone 5c	38.13	24299071.75	H	M	VH	0.5	12,149,536
Zone 6a	32.61	20782620.71	H	M	VH	0.5	10,391,310
Zone 6b	19.72	12564398.07	H	M	VH	0.5	6,282,199
Zone 7	29.82	19004639.85	H	M	VH	0.5	9,502,320
Zone 8a	26.85	17108126.94	H	M	VH	0.5	8,554,063
Zone 8b	11.78	7507030.296	H	M	VH	0.5	3,753,515
S		229,439,827					114,719,913

Gravel

PARISH	Miles of Road	Replacement Cost per Mile	Erosion Potential	Pavement Resistance	Failure Likelihood	Failure Probability	Pavement Damage
		\$144,833.89					
Zone 1	7.00	1013837.245	H	M	VH	0.5	506,919
Zone 2	2.98	431604.9985	H	M	VH	0.5	215,802
Zone 3	2.98	431604.9985	H	M	VH	0.5	215,802
Zone 4A	5.33	771964.6449	H	M	VH	0.5	385,982
Zone 4b		0	H	M	VH	0.5	-
Zone 5a	3.10	448985.0655	H	M	VH	0.5	224,493
Zone 5b	8.06	1167361.17	H	M	VH	0.5	583,681
Zone 5c		0	H	M	VH	0.5	-
Zone 6a		0	H	M	VH	0.5	-
Zone 6b	4.34	628579.0917	H	M	VH	0.5	314,290
Zone 7	3.84	556741.4813	H	M	VH	0.5	278,371
Zone 8a	0.19	26939.10	H	M	VH	0.5	13,470
Zone 8b	1.05	152654.9223	H	M	VH	0.5	76,327
S		5,630,273					2,815,136

Earthen

PARISH	Miles of Road	Replacement Cost per Mile	Erosion Potential	Pavement Resistance	Failure Likelihood	Failure Probability	Pavement Damage
		\$40,231.64					
Zone 1	6.23	250643.0966	H	M	VH	0.5	125,322
Zone 2	7.32	294495.5806	H	M	VH	0.5	147,248
Zone 3	0.37	14885.70558	H	M	VH	0.5	7,443
Zone 4A	1.67	67186.83328	H	M	VH	0.5	33,593
Zone 4b		0	H	M	VH	0.5	-
Zone 5a	4.90	197054.5565	H	M	VH	0.5	98,527
Zone 5b	1.24	49887.2295	H	M	VH	0.5	24,944
Zone 5c		0	H	M	VH	0.5	-
Zone 6a	1.74	69842.1213	H	M	VH	0.5	34,921
Zone 6b	1.74	69842.1213	H	M	VH	0.5	34,921
Zone 7	1.12	44898.50655	H	M	VH	0.5	22,449
Zone 8a		0.00	H	M	VH	0.5	-
Zone 8b	2.85	114740.6279	H	M	VH	0.5	57,370
S		1,173,476					586,738

Concrete

PARISH	Miles of Road	Replacement Cost per Mile	Erosion Potential	Pavement Resistance	Failure Likelihood	Failure Probability	Pavement Damage
		\$1,641,450.78					
Zone 1	1.55	2544248.705	H	M	VH	0.5	1,272,124
Zone 2		0	H	M	VH	0.5	-
Zone 3		0	H	M	VH	0.5	-
Zone 4A		0	H	M	VH	0.5	-
Zone 4b		0	H	M	VH	0.5	-
Zone 5a		0	H	M	VH	0.5	-
Zone 5b		0	H	M	VH	0.5	-
Zone 5c		0	H	M	VH	0.5	-
Zone 6a		0	H	M	VH	0.5	-
Zone 6b		0	H	M	VH	0.5	-
Zone 7		0	H	M	VH	0.5	-
Zone 8a	0.12	203539.90	H	M	VH	0.5	101,770
Zone 8b		0	H	M	VH	0.5	-
S		2,747,789					1,373,894

Sea Ports

Asphalt							
1	2	3	4	5	6	7	8
PARISH	Paved Area	Replacement Cost per Sq. ft.	Erosion Potential	Pavement Resistance	Failure Likelihood	Failure Probability	Pavement Damage
		\$35.00					
CASTRIES	518,000.00	18,130,000.00	H	M	VH	0.5	9,065,000
VIEUX FORT	150,000.00	5,250,000.00	H	M	VH	0.5	2,625,000
S		23,380,000					11,690,000

Slope Protection

1	2	3	4	5	6	7	8
PARISH	Paved Area	Replacement Cost per Sq. ft.	Erosion Potential	Pavement Resistance	Failure Likelihood	Failure Probability	Pavement Damage
		\$35.32					
CASTRIES			H	L	VH	0.5	-
VIEUX FORT	36,000.00	1,271,509.20	H	L	VH	0.5	635,755
S		1,271,509					635,755

Wharves

1	2	3	4	5	6	7	8	9	10	11	12
Parishes	Year Built	Elevation (ft)	Design Wave Height	Wave Elevation (ft)	Design Moment	Failure Moment	Moment due to Wind	z	Pr	Rep. Cost	Damage to Wharf
CASTRIES	1998	7	12	23.78	23,456.56	35,184.84	22,145.64	-1.4824	0.0691	30,000,000	2,073,648
VIEUX FORT	1990	5	12	23.78	23,456.56	35,184.84	22,145.64	-1.4824	0.0691	28,000,000	1,935,405
CASTRIES	1979	5	12	23.78	23,456.56	35,184.84	22,145.64	-1.4824	0.0691	52,000,000	3,594,323
CASTRIES	1979	5	12	23.78	23,456.56	35,184.84	22,145.64	-1.4824	0.0691	40,000,000	2,764,864
CASTRIES	1895	4	12	23.78	23,456.56	35,184.84	22,145.64	-1.4824	0.0691	35,000,000	2,419,256
VIEUX FORT	1940's	5	12	23.78	23,456.56	35,184.84	22,145.64	-1.4824	0.0691	16,000,000	1,105,946
S										201,000,000	13,893,442

- QF - Quarry Fill
- RC - Reinforced Concrete
- SSP - Steel Sheet Pile
- STRODS - Steel Tie Rods
- ASP - Asphalt
- WPLS - Wooden Piles

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
Market	43,827,520	-	-	15,156,608	-	-	34.58
Buildings	144,221,850	18,150,000	7,100,000	45,152,446	2,157,489	2,617,812	29.46
Complex	7,026,600	1,480,000	1,815,000	3,162,399	471,645	769,261	42.66
Factory	56,883,125	-	-	23,180,765	-	-	40.75
Schools	42,546,387	4,644,460	25,000	27,838,431	2,804,820	24,451	64.95
Buildings	47,852,610	600,000	500,000	16,548,581	296,349	172,912	34.76
Airport Runways	116,399,131	-	-	1,163,991	-	-	1.00
Hospitals	22,538,295	-	-	15,157,387	-	-	67.25
Roadworks	218,647,000	-	-	109,323,500	-	-	50.00
	Asphalt	-	-	114,719,913	-	-	50.00
	Surface Dres	-	-	2,815,136	-	-	50.00
	Gravel	-	-	586,738	-	-	50.00
	Earthen	-	-	1,373,894	-	-	50.00
	Concrete	-	-	11,690,000	-	-	50.00
Seaports	23,380,000	-	-	635,755	-	-	50.00
	Asphalt	-	-	13,893,442	-	-	6.91
	Slope Protection	-	-	-	-	-	-
	Wharves	-	-	-	-	-	-
Total	1,164,585,392	24,874,460	9,440,000	402,398,987	5,730,303	3,584,435	34.34