

**Appendix III: Section 4.0 (2) 90% Upper Prediction Limit (UPL) MLE 50-Year Mean Return Period Event**

Return Period	Wind Speed	
	50% UPL	90% UPL
50 years	100	116
100 years	113	136

**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>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	Castries	1992	8	0.1	0.6	1.120	1.000	1.120	130	0.386	140,000.00	0.024		0.386		54,040	-	-
2	Castries	1992	8	0.1	0.6	1.120	1.000	1.120	130	0.386	29,000.00	0.024		0.386		11,194	-	-
3	Castries	1992	8	0.1	0.6	1.120	1.000	1.120	130	0.386	119,000.00	0.024		0.386		45,934	-	-
4	Castries	1992	8	0.1	0.6	1.120	1.000	1.120	130	0.386	560,000.00	0.024		0.386		216,161	-	-
5	Castries	1992	8	0.1	0.6	1.120	1.000	1.120	130	0.386	830,000.00	0.024		0.386		320,382	-	-
6	Castries	1992	8	0.1	0.6	1.120	1.000	1.120	130	0.386	1,100,000.00	0.024		0.386		424,602	-	-
7	Castries	1992	8	0.1	0.6	1.120	1.000	1.120	130	0.386	101,000.00	0.024		0.386		38,986	-	-
8	Castries	1992	8	0.1	0.6	1.120	1.000	1.120	130	0.386	803,000.00	0.024		0.386		309,960	-	-
9	Castries	1992	8	0.1	0.6	1.120	1.000	1.120	130	0.386	150,000.00	0.024		0.386		57,900	-	-
10	Castries	1992	8	0.1	0.6	1.120	1.000	1.120	130	0.386	600,000.00	0.024		0.386		231,601	-	-
11	Castries	1992	8	0.01	0.6	1.120	1.000	1.120	130	0.386	250,000.00	0.024		0.386		96,501	-	-
12	Castries	1992			0.6	1.120	1.000	1.120	130	0.386	147,600.00	0.024		0.386		56,974	-	-
13	Castries	1994	8	0.08	0.6	1.120	1.000	1.120	130	0.386	36,868,000.00	0.024		0.386		14,231,122	-	-
14	Castries	1880's	8	0.1	0.6	1.120	1.000	1.120	130	0.386	2,129,920.00	0.024		0.386		822,153	-	-
S											43,827,520		0		0	16,917,510	0	0

**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>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 \$
NI Block D	Castries	1996	8	0.10	0.6	1.120	1.000	1.120	130	0.312	17,250,000.00	0.062	3,000,000.00	0.312		5,387,020	187,296	-
NI Block A	Castries	1988	7	0.1	0.6	1.120	1.000	1.120	130	0.312	10,584,000.00	0.062	2,000,000.00	0.312		3,305,288	124,864	-
NI Block B	Castries	1988	7	0.1	0.6	1.120	1.000	1.120	130	0.312	9,216,000.00	0.062	2,000,000.00	0.312		2,878,074	124,864	-
NI Block C	Castries	1988	7	0.1	0.6	1.120	1.000	1.120	130	0.312	9,072,000.00	0.062	2,000,000.00	0.312		2,833,104	124,864	-
P.S.MB	Castries	1980	7	0.1	0.6	1.120	1.000	1.120	130	0.386	2,957,760.00	0.233	500,000.00	0.386		1,141,701	116,411	-
PS. S	Castries	1980	7	0.1	0.6	1.120	1.000	1.120	130	0.386	2,710,980.00	0.233		0.386		1,046,444	-	-
P.S NS	Castries	1980	7	0.1	0.6	1.120	1.000	1.120	130	0.386	876,180.00	0.233		0.386		338,207	-	-
P.S NS1	Castries	1980	7	0.1	0.6	1.120	1.000	1.120	130	0.386	629,340.00	0.233		0.386		242,926	-	-
Fisheries	Castries	1991	7	0.1	0.6	1.120	1.000	1.120	130	0.386		0.233		0.386		-	-	-
Market	Castries	1990	10	0.1	0.6	1.120	1.000	1.120	130	0.386		0.233		0.386		-	-	-
Market	Castries		10	0.1	0.6	1.120	1.000	1.120	130	0.386	2,129,920.00	0.233		0.386		822,153	-	-
Vendors	Castries	1994	7	0.1	0.6	1.120	1.000	1.120	130	0.386	2,500,000.00	0.233		0.386		965,005	-	-
Printery	Castries	1951	7	0.15	0.6	1.120	1.000	1.120	130	0.386	1,039,680.00	0.233		0.386	2,000,000.00	401,319	-	772,004
Gov't Bldg	Castries	1951	8	0.20	0.6	1.120	1.000	1.120	130	0.386	3,364,140.00	0.233		0.386		1,298,565	-	-
Town Hall	Castries	1951		0.3	0.6	1.120	1.000	1.120	130	0.386	2,042,100.00	0.233		0.386		788,255	-	-
Registry	Castries	1951	10	0.3	0.6	1.120	1.000	1.120	130	0.386	3,633,770.00	0.233	5,000,000.00	0.386		1,402,642	1,164,105	-
Min. Of Educ.	Castries	1970's	7	0.2	0.6	1.120	1.000	1.120	130	0.386	2,770,200.00	0.233		0.386		1,069,303	-	-
Post Office	Castries	1951	5	0.15	0.6	1.120	1.000	1.120	130	0.386	4,354,900.00	0.233	2,500,000.00	0.386		1,681,000	582,053	-
NCB/SLDB	Castries	1998	5	0.10	0.6	1.120	1.000	1.120	130	0.312	30,000,000.00	0.062	150,000.00	0.312	500,000.00	9,368,730	9,365	156,146
LUCELEC	Castries	1991	7	0.20	0.6	1.120	1.000	1.120	130	0.386	2,145,000.00	0.233	1,000,000.00	0.386		827,974	232,821	-
Cul. Complex	Castries	1996	100	0.25	0.6	1.120	1.000	1.120	130	0.716	1,166,880.00	0.722		0.716	600,000.00	835,843	-	429,784
Min. Of Cul	Castries	1997	100	0.25	0.6	1.120	1.000	1.120	130	0.716	1,900,000.00	0.722		0.716		1,360,981	-	-
Fire Stations	Castries	1951	7	0.1	0.6	1.120	1.000	1.120	130	0.386	1,375,140.00	0.233		0.386	4,000,000.00	530,807	-	1,544,008
Min. Trade W/hs	Castries	1996	10	.1	0.6	1.120	1.000	1.120	130	0.386	750,000.00	0.233		0.386		289,502	-	-
Old CDCs	Castries	1951	7	.25	0.6	1.120	1.000	1.120	130	0.386	8,847,040.00	0.233		0.386		3,414,975	-	-
	Castries	1951	7	0.25	0.6	1.120	1.000	1.120	130	0.386	13,721,940.00	0.233		0.386		5,296,696	-	-
	Castries	1951	7	0.25	0.6	1.120	1.000	1.120	130	0.312	9,184,880.00	0.062		0.312		2,868,355	-	-
									S		144,221,850		18,150,000		7,100,000	50,394,870	2,666,642	2,901,941



**Factory**

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 \$
	Castries	1972	50	0.75	0.75	1.150	1.000	1.150	133	0.650	1,625,925.00	0.187		0.650		1,057,467	-	-
	Castries	1978	50	0.75	0.75	1.150	1.000	1.150	133	0.650	1,050,000.00	0.187		0.650		682,898	-	-
	Castries				0.75	1.150	1.000	1.150	133	0.438	1,050,000.00	0.070		0.438		460,402	-	-
	Castries	1972			0.75	1.150	1.000	1.150	133	0.438	1,050,000.00	0.070		0.438		460,402	-	-
	Castries	1982			0.75	1.150	1.000	1.150	133	0.438	380,000.00	0.070		0.438		166,622	-	-
	Castries	1982			0.75	1.150	1.000	1.150	133	0.438	882,000.00	0.070		0.438		386,738	-	-
	Castries	1972			0.75	1.150	1.000	1.150	133	0.438	1,097,775.00	0.070		0.438		481,350	-	-
	Dennery	1977			0.75	1.150	1.000	1.150	133	0.438	1,449,000.00	0.070		0.438		635,355	-	-
	Dennery	1972			0.75	1.150	1.000	1.150	133	0.438	970,200.00	0.070		0.438		425,411	-	-
	Dennery	1984			0.75	1.150	1.000	1.150	133	0.438	1,029,000.00	0.070		0.438		451,194	-	-
	Dennery	1984			0.75	1.150	1.000	1.150	133	0.438	189,000.00	0.070		0.438		82,872	-	-
	Vieux Fort	1987			0.75	1.150	1.000	1.150	133	0.438	1,638,000.00	0.070		0.438		718,227	-	-
	Vieux Fort	1973			0.75	1.150	1.000	1.150	133	0.438	630,000.00	0.070		0.438		276,241	-	-
	Vieux Fort	1973			0.75	1.150	1.000	1.150	133	0.438	1,050,000.00	0.070		0.438		460,402	-	-
	Vieux Fort	1984			0.75	1.150	1.000	1.150	133	0.438	735,000.00	0.070		0.438		322,281	-	-
	Vieux Fort	1973			0.75	1.150	1.000	1.150	133	0.438	1,050,000.00	0.070		0.438		460,402	-	-
	Vieux Fort	1973			0.75	1.150	1.000	1.150	133	0.438	525,000.00	0.070		0.438		230,201	-	-
	Vieux Fort	1973			0.75	1.150	1.000	1.150	133	0.438	525,000.00	0.070		0.438		230,201	-	-
	Vieux Fort	1984			0.75	1.150	1.000	1.150	133	0.438	882,000.00	0.070		0.438		386,738	-	-
	Vieux Fort	1984			0.75	1.150	1.000	1.150	133	0.438	1,008,000.00	0.070		0.438		441,986	-	-
	Vieux Fort	1988			0.75	1.150	1.000	1.150	133	0.438	1,050,000.00	0.070		0.438		460,402	-	-
	Vieux Fort	1988			0.75	1.150	1.000	1.150	133	0.438	1,029,000.00	0.070		0.438		451,194	-	-
	Vieux Fort	1988			0.75	1.150	1.000	1.150	133	0.438	1,029,000.00	0.070		0.438		451,194	-	-
	Vieux Fort	1977			0.75	1.150	1.000	1.150	133	0.438	3,234,000.00	0.070		0.438		1,418,038	-	-
	Vieux Fort	1982			0.75	1.150	1.000	1.150	133	0.438	2,270,100.00	0.070		0.438		995,389	-	-
	Vieux Fort	1982			0.75	1.150	1.000	1.150	133	0.438	882,000.00	0.070		0.438		386,738	-	-
	Vieux Fort	1982			0.75	1.150	1.000	1.150	133	0.438	2,016,000.00	0.070		0.438		883,972	-	-
	Vieux Fort	1982			0.75	1.150	1.000	1.150	133	0.438	1,008,000.00	0.070		0.438		441,986	-	-
	Vieux Fort	1984			0.75	1.150	1.000	1.150	133	0.438	1,029,000.00	0.070		0.438		451,194	-	-
					0.75	1.150	1.000	1.150	133	0.438	1,029,000.00	0.070		0.438		451,194	-	-



Schools

1	2	3	4	5	5a	5b	5c	5d	6	7	8	9	10	11	12	13	14	15
Struct No.	Parish	Year Built	Elevation ft.	Distance from coast	K <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	CASTRIES	1990	20	0.5	0.75	1.150	1.000	1.150	133	0.485	210,000.00	0.355	23,625.00	0.485		101,901	8,381	-
2	CASTRIES	1990	20	0.5	0.75	1.150	1.000	1.150	133	0.485	560,000.00	0.355	63,000.00	0.485		271,735	22,350	-
3	CASTRIES	1990	20	0.5	0.75	1.150	1.000	1.150	133	0.485	383,000.00	0.355	43,087.50	0.485		185,847	15,286	-
4	CASTRIES	1990	20	0.5	0.75	1.150	1.000	1.150	133	0.485	367,000.00	0.355	41,287.50	0.485		178,083	14,647	-
5	CASTRIES	1990	20	0.5	0.75	1.150	1.000	1.150	133	0.485	133,000.00	0.355	14,962.50	0.485		64,537	5,308	-
6	CASTRIES	1990	20	0.5	0.75	1.150	1.000	1.150	133	0.485	128,000.00	0.355	14,400.00	0.485		62,111	5,109	-
7	CASTRIES	1960's	150	8.0	1.0	1.200	1.000	1.200	139	0.873	190,000.00	0.897	21,375.00	0.873		165,941	19,173	-
8	CASTRIES	1960's	150	8.0	1.0	1.200	1.000	1.200	139	0.873	100,000.00	0.897	11,250.00	0.873		87,338	10,091	-
9	CASTRIES	1960's	150	20.0	1.0	1.200	1.000	1.200	139	0.873	280,000.00	0.897	31,500.00	0.873		244,545	28,255	-
10	CASTRIES	1960's	150	20.0	1.0	1.200	1.000	1.200	139	0.873	183,000.00	0.897	20,587.50	0.873		159,828	18,467	-
11	CASTRIES	1960's	150	20.0	1.0	1.200	1.000	1.200	139	0.873	125,000.00	0.897	14,062.50	0.873		109,172	12,614	-
12	CASTRIES	1960's	150	20.0	1.0	1.200	1.000	1.200	139	0.873	70,000.00	0.897		0.873		61,136	-	-
13	CASTRIES	1960's	900	15.0	1.0	1.200	1.000	1.200	139	0.984	470,000.00	0.976	52,875.00	0.984	25000	462,705	51,627	24,612
14		1960's	900	15.0	1.0	1.200	1.000	1.200	139	0.984	120,000.00	0.976	13,500.00	0.984		118,137	13,181	-
15		1960's	900	15.0	1.0	1.200	1.000	1.200	139	0.984	38,000.00	0.976		0.984		37,410	-	-
16	CASTRIES	1989	10	0.25	0.65	1.130	1.000	1.130	131	0.402	910,000.00	0.249	102,375.00	0.402		365,571	25,483	-
17	CASTRIES	1989	10	0.25	0.65	1.130	1.000	1.130	131	0.402	1,420,000.00	0.249	159,750.00	0.402		570,451	39,764	-
18	CASTRIES	1989	10	0.25	0.65	1.130	1.000	1.130	131	0.402	80,000.00	0.249	9,000.00	0.402		32,138	2,240	-
19	CASTRIES	1962	30	0.75	0.8	1.160	1.000	1.160	135	0.566	870,000.00	0.473	97,875.00	0.566		492,404	46,321	-
20		1962	30	0.75	0.8	1.160	1.000	1.160	135	0.566	232,000.00	0.473	26,100.00	0.566		131,308	12,352	-
21		1962	30	0.75	0.8	1.160	1.000	1.160	135	0.566	95,000.00	0.473	10,687.50	0.566		53,768	5,058	-
22		1962	30	0.75	0.8	1.160	1.000	1.160	135	0.566	210,000.00	0.473	23,625.00	0.566		118,856	11,181	-
23	CASTRIES	1984	700	10	1.0	1.200	1.000	1.200	139	0.978	453,000.00	0.974	50,962.50	0.978		443,044	49,643	-
24		1984	700	10	1.0	1.200	1.000	1.200	139	0.978	453,000.00	0.974	50,962.50	0.978		443,044	49,643	-
25		1984	700	10	1.0	1.200	1.000	1.200	139	0.978	153,000.00	0.974	17,212.50	0.978		149,637	16,767	-
26	CASTRIES	1970's	200	6	1.0	1.200	1.000	1.200	139	0.906	477,000.00	0.926	53,662.50	0.906		432,047	49,666	-
27		1970's	200	6	1.0	1.200	1.000	1.200	139	0.906	373,000.00	0.926	41,962.50	0.906		337,848	38,838	-

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	CASTRIES	1983	700	6	1.0	1.200	1.000	1.200	139	0.978	670,000.00	0.974	75,375.00	0.978		655,275	73,424	-
2	CASTRIES	1983	700	6	1.0	1.200	1.000	1.200	139	0.978	662,000.00	0.974	74,475.00	0.978		647,451	72,547	-
3	CASTRIES	1983	700	6	1.0	1.200	1.000	1.200	139	0.978	68,000.00	0.974	7,650.00	0.978		66,505	7,452	-
4	CASTRIES	1983	150	1	0.8	1.160	1.000	1.160	135	0.834	193,000.00	0.856	21,712.50	0.834		160,998	18,597	-
5	CASTRIES	1983	150	1	0.8	1.160	1.000	1.160	135	0.834	250,000.00	0.856	28,125.00	0.834		208,547	24,089	-
6	CASTRIES	1983	150	1	0.8	1.160	1.000	1.160	135	0.834	132,000.00	0.856	14,850.00	0.834		110,113	12,719	-
7	CASTRIES	1983	150	1	0.8	1.160	1.000	1.160	135	0.834	524,000.00	0.856	58,950.00	0.834		437,113	50,491	-
8	CASTRIES	1983	150	1	0.8	1.160	1.000	1.160	135	0.834	12,000.00	0.856		0.834		10,010	-	-
9	CASTRIES	1970's	400	1.67	1.0	1.200	1.000	1.200	139	0.958	112,000.00	0.963	12,600.00	0.958		107,304	12,129	-
10	CASTRIES	1970's	400	1.67	1.0	1.200	1.000	1.200	139	0.958	218,000.00	0.963	24,525.00	0.958		208,859	23,609	-
11	CASTRIES	1970's	400	1.67	1.0	1.200	1.000	1.200	139	0.958	128,947.00	0.963	14,506.54	0.958		123,540	13,965	-
12	CASTRIES	1970's	400	1.67	1.0	1.200	1.000	1.200	139	0.958	260,000.00	0.963	29,250.00	0.958		249,098	28,157	-
13	CASTRIES	1970's	400	1.67	1.0	1.200	1.000	1.200	139	0.958	52,000.00	0.963	5,850.00	0.958		49,820	5,631	-
14	CASTRIES	1970's	400	1.67	1.0	1.200	1.000	1.200	139	0.958	116,000.00	0.963	13,050.00	0.958		111,136	12,563	-
15	SOUFRIERE	1982	800	0.8	0.8	1.160	1.000	1.160	135	0.972	190,000.00	0.971	21,375.00	0.972		184,675	20,759	-
16	SOUFRIERE	1982	800	0.8	0.8	1.160	1.000	1.160	135	0.972	160,000.00	0.971	18,000.00	0.972		155,516	17,481	-
17	CHOSEUL	1982	1000	3.15	1.0	1.200	1.000	1.200	139	0.988	315,000.00	0.978	35,437.50	0.988		311,145	34,641	-
18	CHOSEUL	1982	1000	3.15	1.0	1.200	1.000	1.200	139	0.988	315,000.00	0.978	35,437.50	0.988		311,145	34,641	-
19	LABORIE	1982	150	0.5	0.7	1.140	1.000	1.140	132	0.808	505,000.00	0.829	56,812.50	0.808		408,092	47,104	-
20	VIEUX FORT	1983	15	0.3	0.65	1.130	1.000	1.130	131	0.402	2,000,000.00	0.249	225,000.00	0.402		803,452	56,006	-
21	MICOUD	1972	150	0.75	0.8	1.160	1.000	1.160	135	0.834	328,000.00	0.856	36,900.00	0.834		273,613	31,605	-
22	MICOUD	1972	150	0.75	0.8	1.160	1.000	1.160	135	0.834	43,000.00	0.856	4,837.50	0.834		35,870	4,143	-
23	MICOUD	1972	150	0.75	0.8	1.160	1.000	1.160	135	0.834	165,000.00	0.856	18,562.50	0.834		137,641	15,899	-
24	MICOUD	1972	150	0.75	0.8	1.160	1.000	1.160	135	0.834	8,000.00	0.856		0.834		6,673	-	-
25	MICOUD	1972	150	0.75	0.8	1.160	1.000	1.160	135	0.834	2,800,000.00	0.856	315,000.00	0.834		2,335,721	269,797	-

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	DENNERY	1982	50	2	1.0	1.200	1.000	1.200	139	0.720	1,300,000.00	0.722	146,250.00	0.720		935,745	105,648	-
2	DENNERY	1982	150	3	1.0	1.200	1.000	1.200	139	0.873	520,000.00	0.897	58,500.00	0.873		454,155	52,473	-
3	DENNERY	1982	150	3	1.0	1.200	1.000	1.200	139	0.873	206,000.00	0.897	23,175.00	0.873		179,915	20,788	-
4	DENNERY	1987	150	3	1.0	1.200	1.000	1.200	139	0.873	75,000.00	0.897	8,437.50	0.873		65,503	7,568	-
5	CHOISEUL	1985			1.0	1.200	1.000	1.200	139	0.499	710,000.00	0.373	79,875.00	0.499		354,247	29,826	-
6	GROS ISLET	1969	50	0.5	0.7	1.140	1.000	1.140	132	0.629	124,000.00	0.578	13,950.00	0.629		77,972	8,064	-
7	GROS ISLET	1982	50	0.5	0.7	1.140	1.000	1.140	132	0.629	621,000.00	0.578	69,862.50	0.629		390,490	40,387	-
8	GROS ISLET	1970's	50	0.5	0.7	1.140	1.000	1.140	132	0.629	660,000.00	0.578		0.629		415,013	-	-
9	GROS ISLET	1970's	50	0.5	0.7	1.140	1.000	1.140	132	0.629	474,300.00	0.578		0.629		298,244	-	-
10	DENNERY	1970	10	0.15	0.65	1.130	1.000	1.130	131	0.402	510000	0.249	57,375.00	0.402		204,880	14,282	-
11	DENNERY	1970	10	0.15	0.65	1.130	1.000	1.130	131	0.402	450,000.00	0.249	50,625.00	0.402		180,777	12,601	-
12	IEUX FORT (C	1970	10	0.2	0.65	1.130	1.000	1.130	131	0.402	1,400,000.00	0.249	157,500.00	0.402		562,416	39,204	-
13	EUX FORT (C	1970	80	0.2	0.65	1.130	1.000	1.130	131	0.698	332,000.00	0.691	37,350.00	0.698		231,788	25,795	-
14	VIEUX FORT	1970	82	0.2	0.65	1.130	1.000	1.130	131	0.698	332,000.00	0.691	37,350.00	0.698		231,788	25,795	-
15	VIEUX FORT	1970	80	0.2	0.65	1.130	1.000	1.130	131	0.698	332,000.00	0.691	37,350.00	0.698		231,788	25,795	-
16	VIEUX FORT	1970	80	0.2	0.65	1.130	1.000	1.130	131	0.698	500,000.00	0.691	56,250.00	0.698		349,079	38,847	-
17	VIEUX FORT	1970	80	0.2	0.65	1.130	1.000	1.130	131	0.698	109,000.00	0.691	12,262.50	0.698		76,099	8,469	-
18	VIEUX FORT	1970	80	0.2	0.65	1.130	1.000	1.130	131	0.698	490,000.00	0.691	55,125.00	0.698		342,097	38,070	-
19	EUX FORT (C	1963	50	0.5	0.7	1.140	1.000	1.140	132	0.629	225,000.00	0.578	25,312.50	0.629		141,482	14,633	-
20		1963	50	0.5	0.7	1.140	1.000	1.140	132	0.629	740,000.00	0.578	83,250.00	0.629		465,318	48,126	-
21		1963	50	0.5	0.7	1.140	1.000	1.140	132	0.629	500,000.00	0.578	56,250.00	0.629		314,404	32,518	-
22		1963	50	0.5	0.7	1.140	1.000	1.140	132	0.629	440,000.00	0.578	49,500.00	0.629		276,676	28,616	-
23		1963	50	0.5	0.7	1.140	1.000	1.140	132	0.629	134,000.00	0.578	15,075.00	0.629		84,260	8,715	-
24		1980's	50	0.5	0.7	1.140	1.000	1.140	132	0.629	500,000.00	0.578	56,250.00	0.629		314,404	32,518	-
25		1980's	50	0.5	0.7	1.140	1.000	1.140	132	0.629	260,000.00	0.578	29,250.00	0.629		163,490	16,909	-
26		1980's	50	0.5	0.7	1.140	1.000	1.140	132	0.629	120,000.00	0.578	13,500.00	0.629		75,457	7,804	-
27		1963	50	0.5	0.7	1.140	1.000	1.140	132	0.629	90,000.00	0.578	10,125.00	0.629		56,593	5,853	-
28		1980's	50	0.5	0.7	1.140	1.000	1.140	132	0.629	730,000.00	0.578	82,125.00	0.629		459,030	47,476	-



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	VF Compreh.	1980's	100	0.10	0.65	1.130	1.000	1.130	131	0.730	951,000.00	0.737	106,987.50	0.730		694,565	78,840	-
2	VIEUX FORT	1980's	100	0.10	0.65	1.130	1.000	1.130	131	0.730	435,000.00	0.737	48,937.50	0.730		317,703	36,062	-
3	VIEUX FORT	1980's	100	0.10	0.65	1.130	1.000	1.130	131	0.730	23,000.00	0.737	2,587.50	0.730		16,798	1,907	-
4	VIEUX FORT	1980's	100	0.10	0.65	1.130	1.000	1.130	131	0.730	426,000.00	0.737	47,925.00	0.730		311,130	35,316	-
5	VIEUX FORT	1980's	100	0.10	0.65	1.130	1.000	1.130	131	0.730	135,000.00	0.737	15,187.50	0.730		98,598	11,192	-
6	VIEUX FORT	1980's	100	0.10	0.65	1.130	1.000	1.130	131	0.730	864,000.00	0.737	97,200.00	0.730		631,024	71,627	-
7	AUGIER	1985	200	0.10	0.65	1.130	1.000	1.130	131	0.843	36,000.00	0.865	4,050.00	0.843		30,330	3,504	-
8		1985	200	0.10	0.65	1.130	1.000	1.130	131	0.843	255,000.00	0.865	28,687.50	0.843		214,839	24,820	-
9		1985	200	0.10	0.65	1.130	1.000	1.130	131	0.843	63,000.00	0.865	7,087.50	0.843		53,078	6,132	-
10		1985	200	0.10	0.65	1.130	1.000	1.130	131	0.843	61,000.00	0.865	6,862.50	0.843		51,393	5,937	-
11		1985	200	0.10	0.65	1.130	1.000	1.130	131	0.843	70,000.00	0.865	7,875.00	0.843		58,975	6,813	-
12		1985	200	0.10	0.65	1.130	1.000	1.130	131	0.843	104,000.00	0.865	11,700.00	0.843		87,621	10,123	-
13		1985	200	0.10	0.65	1.130	1.000	1.130	131	0.843	660,000.00	0.865	74,250.00	0.843		556,055	64,240	-
14	VIEUX FORT	1972	20	0.25	0.65	1.130	1.000	1.130	131	0.444	1,430,000.00	0.301	160,875.00	0.444		634,502	48,433	-
15	VIEUX FORT	1972	20	0.25	0.65	1.130	1.000	1.130	131	0.444	51,000.00	0.301	5,737.50	0.444		22,629	1,727	-
16	VIEUX FORT	1972	20	0.25	0.65	1.130	1.000	1.130	131	0.444	51,000.00	0.301	5,737.50	0.444		22,629	1,727	-
17	Gros Islet	1963	150	2.21	1.0	1.200	1.000	1.200	139	0.873	1,076,400.00	0.897	121,095.00	0.873		940,101	108,620	-
18	Gros Islet	1972	75	1.0	0.8	1.160	1.000	1.160	135	0.730	701,112.00	0.737	78,875.10	0.730		512,059	58,124	-
19	Gros Islet	1972	75	1.0	0.8	1.160	1.000	1.160	135	0.730	631,128.00	0.737	71,001.90	0.730		460,946	52,322	-
20	Gros Islet	1972	75	1.0	0.8	1.160	1.000	1.160	135	0.730	1,564,500.00	0.737	176,006.25	0.730		1,142,636	129,700	-
21	Gros Islet	1972	75	1.0	0.8	1.160	1.000	1.160	135	0.730	764,000.00	0.737	85,950.00	0.730		557,989	63,337	-
22	Gros Islet	1972	75	1.0	0.8	1.160	1.000	1.160	135	0.730		0.737		0.730		-	-	-
S											42,546,387		4,644,460		25,000	29,338,564	3,016,177	24,612

**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>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 \$
<b>SLASPA BUILDINGS</b>																		
1	Banana	1981	6	0.05	0.6	1.120	1.000	1.120	130	0.386	5,625,000.00	0.518		0.386		2,171,261	-	-
2	Concrete Shed	1979	6	0.05	0.6	1.120	1.000	1.120	130	0.386	7,837,500.00	0.518		0.386		3,025,291	-	-
3	Workshop	1989	6	0.05	0.6	1.120	1.000	1.120	130	0.386	825,000.00	0.518		0.386		318,452	-	-
4	Sheds	1960's	6	0.05	0.6	1.120	1.000	1.120	130	0.386	2,800,000.00	0.518		0.386		1,080,806	-	-
5	Customs 1	1992	6	0.05	0.6	1.120	1.000	1.120	130	0.386	2,231,250.00	0.518		0.386		861,267	-	-
6	Customs 2	1960's	6	0.05	0.6	1.120	1.000	1.120	130	0.386	900,000.00	0.518		0.386		347,402	-	-
7	LPC	1960's	6	0.05	0.6	1.120	1.000	1.120	130	0.386		0.518		0.386		-	-	-
8	HQ	1997	6	0.05	0.6	1.120	1.000	1.120	130	0.386	3,579,860.00	0.518		0.386		1,381,833	-	-
<b>GEORGE FL CHARLES AIRPORT</b>																		
9	Terminal		6	0.05	0.6	1.120	1.000	1.120	130	0.386	4,000,000.00	0.518	300,000.00	0.386	200,000.00	1,544,008	155,540	77,200
10	Canopy	1980	6	0.05	0.6	1.120	1.000	1.120	130	0.386	240,000.00	0.518		0.386		92,640	-	-
11	Mtc. Garage		6	0.05	0.6	1.120	1.000	1.120	130	0.386	222,000.00	0.518		0.386		85,692	-	-
12	Fire Hall	1990	6	0.05	0.6	1.120	1.000	1.120	130	0.386	242,000.00	0.518		0.386		93,412	-	-
<b>HEWANORRA AIRPORT</b>																		
13	Hewanorra	1979/96	10	0.1	0.6	1.120	1.000	1.120	130	0.386	18,400,000.00	0.518	300,000.00	0.386	300,000.00	7,102,437	155,540	115,801
14	Cargo Shed	1988	10	0.1	0.6	1.120	1.000	1.120	130	0.386	950,000.00	0.518		0.386		366,702	-	-
<b>PORT VIEUX FORT</b>																		
15	Administration	1990	12	0.15	0.6	1.120	1.000	1.120	130	0.386		0.518		0.386		-	-	-
16	Shed																	
17	Security	1993	6	0.1	0.6	1.120	1.000	1.120	130	0.386		0.518		0.386		-	-	-
S											47,852,610		600,000		500,000	18,471,203	311,079	193,001

**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	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 \$
	"L" Block	1898	100	0.124	0.6	1.120	1.000	1.120	130	0.716	3,021,200.00	0.873		0.716		2,164,104	-	-
	Maternity	1992	100	0.124	0.6	1.120	1.000	1.120	130	0.716	8,500,000.00	0.873		0.716		6,088,601	-	-
	Baron Wing	1898	100	0.124	0.6	1.120	1.000	1.120	130	0.716	1,080,000.00	0.873		0.716		773,610	-	-
	Paeditrics	1963	100	0.124	0.6	1.120	1.000	1.120	130	0.716	1,732,000.00	0.873		0.716		1,240,642	-	-
	Chest Wing	1970	100	0.124	0.6	1.120	1.000	1.120	130	0.716	1,460,000.00	0.873		0.716		1,045,807	-	-
	Nurses Qtrs.	1966	100	0.1	0.6	1.120	1.000	1.120	130	0.716	2,931,880.00	0.873		0.716		2,100,123	-	-
	Administra.	1963	100	0.1	0.6	1.120	1.000	1.120	130	0.716	1,908,720.00	0.873		0.716		1,367,228	-	-
	Laboratory	1976	100	0.15	0.6	1.120	1.000	1.120	130	0.716	1,100,000.00	0.873		0.716		787,937	-	-
	Kitchen	1898	100	0.15	0.6	1.120	1.000	1.120	130	0.716	90,000.00	0.873		0.716		64,468	-	-
	Drs. Residen.	1943	100	0.125	0.6	1.120	1.000	1.120	130	0.716	384,000.00	0.873		0.716		275,062	-	-
	Boiler hse.	1953	100	0.125	0.6	1.120	1.000	1.120	130	0.716	97,500.00	0.873		0.716		69,840	-	-
	Generator 1	1977	100	0.125	0.6	1.120	1.000	1.120	130	0.716	37,200.00	0.873		0.716		26,647	-	-
	Generator 2	1991	100	0.125	0.6	1.120	1.000	1.120	130	0.716	35,040.00	0.873		0.716		25,099	-	-
	Sterilization	1993	100	0.125	0.6	1.120	1.000	1.120	130	0.716	32,160.00	0.873		0.716		23,036	-	-
	Mobile unit	1995	100	0.15	0.6	1.120	1.000	1.120	130	0.716	83,160.00	0.873		0.716		59,568	-	-
	Mobile unit	1995	100	0.15	0.6	1.120	1.000	1.120	130	0.716	45,435.00	0.873		0.716		32,545	-	-
										S	22,538,295		0		0	16,144,316	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	22,697.82	-1.4196	0.0779	30,000,000	2,335,904
VIEUX FORT	1990	5	12	23.78	23,456.56	35,184.84	22,697.82	-1.4196	0.0779	28,000,000	2,180,177
CASTRIES	1979	5	12	23.78	23,456.56	35,184.84	22,697.82	-1.4196	0.0779	52,000,000	4,048,900
CASTRIES	1979	5	12	23.78	23,456.56	35,184.84	22,697.82	-1.4196	0.0779	40,000,000	3,114,538
CASTRIES	1895	4	12	23.78	23,456.56	35,184.84	22,697.82	-1.4196	0.0779	35,000,000	2,725,221
VIEUX FORT	1940's	5	12	23.78	23,456.56	35,184.84	22,697.82	-1.4196	0.0779	16,000,000	1,245,815
S										201,000,000	15,650,555

- 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
<b>Market</b>		43,827,520	-	-	16,917,510	-	-	38.60
<b>Buildings Complex</b>		144,221,850	18,150,000	7,100,000	50,394,870	2,666,642	2,901,941	33.02
<b>Factory</b>		7,026,600	1,480,000	1,815,000	3,454,081	552,644	843,240	46.99
<b>Schools</b>		56,883,125	-	-	25,509,030	-	-	44.84
<b>Buildings</b>		42,546,387	4,644,460	25,000	29,338,564	3,016,177	24,612	68.58
<b>Airport Runways</b>		47,852,610	600,000	500,000	18,471,203	311,079	193,001	38.76
<b>Hospitals</b>		116,399,131	-	-	1,163,991	-	-	1.00
<b>Roadworks</b>		22,538,295	-	-	16,144,316	-	-	71.63
Asphalt		218,647,000	-	-	109,323,500	-	-	50.00
Surface Dres		229,439,827	-	-	114,719,913	-	-	50.00
Gravel		5,630,273	-	-	2,815,136	-	-	50.00
Earthen		1,173,476	-	-	586,738	-	-	50.00
Concrete		2,747,789	-	-	1,373,894	-	-	50.00
<b>Seaports</b>		23,380,000	-	-	11,690,000	-	-	50.00
Slope Protection		1,271,509	-	-	635,755	-	-	50.00
Wharves		201,000,000	-	-	15,650,555	-	-	7.79
<b>Total</b>		1,164,585,392	24,874,460	9,440,000	418,189,056	6,546,541	3,962,794	35.76