

The Devastating Impact of Storm Surge on Coastal Communities

Appendix

Table 1: Coastal and Non-Coastal LIHTC Housing Placed in Service 2004-2010

<b>BASELINE 2003</b>	<b>2004</b>	<b>2005</b>	<b>2006</b>	<b>2007</b>	<b>2008</b>	<b>2009</b>	<b>2010</b>	<b>TOTAL 2004-2010</b>
<b>Total LIHTC Developments Placed in Service</b>								
<b>60</b>	60	47	36	35	59	52	25	<b>314</b>
<b>Total LIHTC Units Placed in Service</b>								
<b>13,088</b>	11,199	8,677	5,380	4,842	5,765	5,534	3,261	<b>44,658</b>
<b>LIHTC Developments Placed in Service in Non-Coastal Counties</b>								
<b>15</b>	21	9	16	11	21	9	5	<b>92</b>
<b>LIHTC Units Placed in Service in Non-Coastal Counties</b>								
<b>2,959</b>	3,958	1,466	2,177	1,002	1,604	956	500	<b>11,663</b>
<b>LIHTC Developments Placed in Service in Coastal Counties</b>								
<b>45</b>	39	38	20	24	38	43	20	<b>222</b>
<b>LIHTC Units Placed in Service in Coastal Counties</b>								
<b>10,129</b>	7,241	7,211	3,203	3,840	4,161	4,578	2,761	<b>32,995</b>
<b>% Developments in Coastal Counties</b>								
<b>75%</b>	65%	81%	56%	69%	64%	83%	80%	<b>71%</b>
<b>% Units in Coastal Counties</b>								
<b>77%</b>	65%	83%	60%	79%	72%	83%	85%	<b>74%</b>

Source: Hammett, 2015

The Devastating Impact of Storm Surge on Coastal Communities

**Table 2: Estimated Damages to LIHTC in C3M Storm Surge (SS)**

County Identifiers		Storm Surge C3M					% of Potential Loss by County	Estimated Value of Potential Damages
FIPS	State/County	Min	Max	# of LIHTC Developments	# of LIHTC Units in SS	Total # of LIHTC Units	C3M	C3M
<b>12</b>	<b>Florida</b>	<b>5.2</b>	<b>23.3</b>	<b>191</b>	<b>26,111</b>	<b>143,409</b>	<b>18%</b>	<b>\$988,301,350</b>
86	Miami-Dade	5.2	12.8	57	8,137	23,048	35%	\$307,985,450
21	Collier	15.8	17.4	19	3,532	4,059	87%	\$133,686,200
57	Hillsborough	12.2	19.3	20	2,591	12,456	21%	\$98,069,350
71	Lee	17.7	20.4	15	2,586	3,479	74%	\$97,880,100
15	Charlotte	8.9	20.4	7	1,399	1,481	94%	\$52,952,150
103	Pinellas	9.4	17.1	11	1,373	2,890	48%	\$51,958,050
31	Duval	7.5	12.2	7	1,298	9,677	13%	\$49,129,300
11	Broward	5.2	6.3	7	971	9,370	10%	\$36,752,350
127	Volusia	7	11.8	7	940	4,036	23%	\$35,579,000
87	Monroe	5.4	9.7	10	612	625	98%	\$23,164,200
115	Sarasota	12.4	17.9	7	424	1,069	40%	\$16,048,400
99	Palm Beach	6.8	6.8	5	319	8,388	4%	\$12,074,150
61	Indian River	6.7	12.1	2	303	2,366	13%	\$11,468,550
101	Pasco	17.2	19.5	2	296	1,429	21%	\$11,203,600
89	Nassau	11.8	14.2	2	189	537	35%	\$7,153,650
111	St. Lucie	5.2	5.2	1	182	2,264	8%	\$6,888,700
81	Manatee	10.6	10.6	1	176	2,332	8%	\$6,661,600
17	Citrus	18.2	23.3	3	170	458	37%	\$6,434,500
5	Bay	7.9	7.9	1	160	1,142	14%	\$6,056,000
53	Hernando	20.1	20.1	1	128	878	15%	\$4,844,800
35	Flagler	13.5	13.5	1	100	314	32%	\$3,785,000
109	St. Johns	13.8	13.8	1	88	989	9%	\$3,330,800
37	Franklin	15.9	18.2	2	55	85	65%	\$2,081,750
19	Clay	5.7	5.7	1	53	877	6%	\$2,006,050
75	Levy	21.7	21.7	1	32	221	14%	\$1,211,200
9	Brevard					2,882	0%	
33	Escambia					1,410	0%	
91	Okaloosa					460	0%	
113	Santa Rosa					212	0%	
45	Gulf					111	0%	
129	Wakulla					34	0%	
<b>TOTAL</b>				<b>191</b>	<b>26,114</b>	<b>99,579</b>		<b>\$988,404,900</b>

Source: Hammett, 2015

The Devastating Impact of Storm Surge on Coastal Communities

**Table 3: Estimated Damages to LIHTC in C5H Storm Surge**

County Identifiers		Storm Surge C5H					% of Potential Loss by County	Estimated Value of Potential Damages to LIHTC Housing
FIPS	State/County	Min	Max	# of LIHTC Developments	# of LIHTC Units in SS	Total # of LIHTC Units	C5H	C5H
<b>12</b>	<b>Florida</b>	<b>4.2</b>	<b>37.9</b>	<b>343</b>	<b>48,014</b>	<b>143,409</b>	<b>33%</b>	<b>\$1,817,329,900</b>
86	Miami-Dade	4.2	19.5	99	12,833	23,048	56%	\$485,729,050
11	Broward	5.5	13.1	46	7,784	9,370	83%	\$294,624,400
57	Hillsborough	20.8	32.6	25	3,875	12,456	31%	\$146,668,750
21	Collier	23.6	28.5	19	3,532	4,059	87%	\$133,686,200
31	Duval	14.5	24.5	19	3,445	9,677	36%	\$130,393,250
71	Lee	26.3	34.8	18	3,270	3,479	94%	\$123,769,500
127	Volusia	17	25.5	12	2,149	4,036	53%	\$81,339,650
103	Pinellas	16.7	26.4	14	1,995	2,890	69%	\$75,510,750
81	Manatee	17.8	27.5	13	1,789	2,332	77%	\$67,713,650
15	Charlotte	14.5	32.1	8	1,481	1,481	100%	\$56,055,850
61	Indian River	15.5	20	6	1,085	2,366	46%	\$41,067,250
9	Brevard	20.7	24.7	6	913	2,882	32%	\$34,557,050
115	Sarasota	14.7	31.9	12	880	1,069	82%	\$33,308,000
101	Pasco	24.1	29	5	769	1,429	54%	\$29,106,650
33	Escambia	19.3	19.7	2*	667	1,410	47%	\$25,245,950
87	Monroe	9.7	14.4	10	612	625	98%	\$23,164,200
89	Nassau	22.4	23.3	5	320	537	60%	\$12,112,000
99	Palm Beach	12.2	12.2	5	319	8,388	4%	\$12,074,150
53	Hernando	30.1	32.9	2	318	878	36%	\$12,036,300
5	Bay	12.8	13.5	3	307	1,142	27%	\$11,619,950
19	Clay	14.6	15.6	2	211	877	24%	\$7,986,350
111	St. Lucie	8.2	8.9	2	182	2,264	8%	\$6,888,700
17	Citrus	32.7	37.9	3	170	458	37%	\$6,434,500
35	Flagler	20.1	24.4	2	142	314	45%	\$5,374,700
109	St. Johns	24.1	24.2	2	100	989	10%	\$3,785,000
45	Gulf	14.9	15.2	3	88	111	79%	\$3,330,800
37	Franklin	22.4	31.5	2	55	85	65%	\$2,081,750
91	Okaloosa	17.3*	17.3	1	50	460	11%	\$1,892,500
113	Santa Rosa	18.9	18.9	1	46	212	22%	\$1,741,100
129	Wakulla	31.1	35.2	1	34	34	100%	\$1,286,900
75	Levy	36.8	36.8	1	32	221	14%	\$1,211,200
<b>TOTAL</b>				<b>347</b>	<b>49,453</b>	<b>99,579</b>		<b>\$1,871,796,050</b>

Source: Hammett, 2015

The Devastating Impact of Storm Surge on Coastal Communities

**Table 4: Analysis of Rehabilitation and New Construction Costs for LIHTC Housing located in the Storm Surge Areas Created by the Modeled Hurricanes**

LOCATION	COST CAT 3		COST CAT 5		
	State/County	Rehab	New	Rehab	New
<b>Florida</b>		<b>\$877,381,822</b>	<b>\$2,205,387,282</b>	<b>\$1,613,366,938</b>	<b>\$4,055,358,468</b>
Broward		\$32,627,542	\$82,012,602	\$261,557,968	\$657,452,208
Bay		\$5,376,320	\$13,513,920	\$13,676,014	\$34,376,034
Brevard				\$30,678,626	\$77,113,806
Charlotte		\$47,009,198	\$118,162,338	\$49,764,562	\$125,088,222
Citrus		\$5,712,340	\$14,358,540	\$5,712,340	\$14,358,540
Clay		\$1,780,906	\$4,476,486	\$7,090,022	\$17,821,482
Collier		\$118,682,264	\$298,319,784	\$118,682,264	\$298,319,784
Duval		\$43,615,396	\$109,631,676	\$115,758,890	\$290,971,590
Escambia				\$12,096,720	\$30,406,320
Flagler		\$3,360,200	\$8,446,200	\$4,771,484	\$11,993,604
Franklin		\$1,848,110	\$4,645,410	\$1,848,110	\$4,645,410
Gulf				\$3,729,822	\$9,375,282
Hernando		\$4,301,056	\$10,811,136	\$10,685,436	\$26,858,916
Hillsborough		\$87,062,782	\$218,841,042	\$130,207,750	\$327,290,250
Indian River		\$10,181,406	\$25,591,986	\$36,458,170	\$91,641,270
Lee		\$86,894,772	\$218,418,732	\$109,878,540	\$276,190,740
Levy		\$1,075,264	\$2,702,784	\$1,075,264	\$2,702,784
Manatee		\$5,913,952	\$14,865,312	\$60,113,978	\$151,102,518
Miami-Dade		\$273,419,474	\$687,267,294	\$431,214,466	\$1,083,900,846
Monroe		\$20,564,424	\$51,690,744	\$20,564,424	\$51,690,744
Nassau		\$6,350,778	\$15,963,318	\$10,752,640	\$27,027,840
Okaloosa				\$1,680,100	\$4,223,100
Palm Beach		\$10,719,038	\$26,943,378	\$10,719,038	\$26,943,378
Pasco		\$9,946,192	\$25,000,752	\$25,839,938	\$64,951,278
Pinellas		\$46,135,546	\$115,966,326	\$67,035,990	\$168,501,690
St. Johns		\$2,956,976	\$7,432,656	\$3,360,200	\$8,446,200
St. Lucie		\$6,115,564	\$15,372,084	\$6,115,564	\$15,372,084
Santa Rosa				\$1,545,692	\$3,885,252
Sarasota		\$14,247,248	\$35,811,888	\$29,569,760	\$74,326,560
Volusia		\$31,585,880	\$79,394,280	\$72,210,698	\$181,508,838
Wakulla				\$1,142,468	\$2,871,708

Source: Hammett, 2015