

Instrat® Analysis

North Carolina FAIR Plan Coastal + Inland Results

Per Occurrence PMLs:

Return Period	AIR		
	Commercial	Personal	Combined
1,000	\$17,328,789	\$487,080,446	\$501,715,016
500	\$13,213,978	\$371,513,343	\$383,827,521
250	\$10,070,615	\$279,109,918	\$288,459,498
100	\$6,562,079	\$181,447,856	\$186,502,244
50	\$3,967,414	\$106,334,127	\$109,902,880
20	\$1,578,043	\$45,949,428	\$47,552,480
10	\$614,763	\$18,062,482	\$18,729,371

Annual Aggregate PMLs:

Return Period	AIR		
	Commercial	Personal	Combined
1,000	\$17,711,285	\$487,080,446	\$501,715,016
500	\$13,463,004	\$375,663,134	\$387,797,108
250	\$10,467,479	\$299,604,638	\$310,051,119
100	\$7,195,173	\$199,526,306	\$207,927,744
50	\$4,249,532	\$112,587,733	\$116,968,398
20	\$1,702,437	\$51,203,681	\$52,639,058
10	\$665,174	\$19,838,898	\$20,579,828

Average Annual Loss	\$333,971	\$9,678,406	\$10,012,377
Standard Deviation	\$1,346,698	\$38,749,061	\$40,069,754
100 Yr PML:Premium	3.8	7.1	6.82
Implied HU Loss Ratio	19.1%	37.8%	98.0%

<u>Exposure Summary:</u>	<u>Commercial</u>	<u>Personal</u>	<u>Combined</u>
TIV	\$317,043,237	\$4,712,016,047	\$5,029,059,284
Premium	\$1,747,839	\$25,583,156	\$27,330,995
Policy Count	1,880	69,207	71,087
Location Count	3,114	84,455	87,569

Modeling Notes:

1. Frequency represents the near term ("stochastic") view for all models
2. Demand surge ("loss amplification") is included for all models
3. Storm surge is excluded for all models

Instrat® Analysis

North Carolina FAIR Plan Inland Results

Per Occurrence PMLs:

Return Period	AIR		
	Commercial	Personal	Combined
1,000	\$5,368,099	\$74,444,155	\$77,695,123
500	\$4,376,765	\$61,134,813	\$64,320,428
250	\$2,834,490	\$49,658,156	\$52,142,403
100	\$1,554,874	\$27,459,998	\$28,981,106
50	\$803,865	\$15,578,541	\$16,307,446
20	\$289,880	\$6,772,508	\$7,077,531
10	\$85,687	\$2,379,296	\$2,471,424

Annual Aggregate PMLs:

Return Period	AIR		
	Commercial	Personal	Combined
1,000	\$5,406,204	\$79,089,854	\$82,893,405
500	\$4,424,676	\$64,398,424	\$68,261,073
250	\$2,911,222	\$50,179,693	\$54,212,527
100	\$1,593,757	\$28,092,826	\$30,124,842
50	\$869,467	\$16,917,289	\$17,959,334
20	\$315,627	\$7,248,545	\$7,474,333
10	\$89,342	\$2,557,118	\$2,652,510

Average Annual Loss	\$71,297	\$1,417,941	\$1,489,237
Standard Deviation	\$389,146	\$6,356,000	\$6,708,366
100 Yr PML:Premium	1.7	2.6	2.50
Implied HU Loss Ratio	8.0%	13.2%	65.4%

<u>Exposure Summary:</u>	<u>Commercial</u>	<u>Personal</u>	<u>Combined</u>
TIV	\$220,052,222	\$2,405,167,124	\$2,625,219,346
Premium	\$891,021	\$10,714,911	\$11,605,932
Policy Count	1,344	40,732	42,076
Location Count	2,313	51,910	54,223

Modeling Notes:

1. Frequency represents the near term ("stochastic") view for all models
2. Demand surge ("loss amplification") is included for all models
3. Storm surge is excluded for all models

Instrat® Analysis

North Carolina FAIR Plan Coastal Results

Per Occurrence PMLs:

Return Period	AIR		
	Commercial	Personal	Combined
1,000	\$13,174,511	\$417,844,069	\$431,018,574
500	\$10,245,872	\$316,062,701	\$325,721,846
250	\$8,039,934	\$250,898,299	\$257,559,387
100	\$5,135,429	\$155,173,322	\$161,656,973
50	\$3,168,950	\$92,069,293	\$95,144,094
20	\$1,284,195	\$39,202,119	\$40,461,161
10	\$470,597	\$15,023,492	\$15,667,441

Annual Aggregate PMLs:

Return Period	AIR		
	Commercial	Personal	Combined
1,000	\$13,182,289	\$417,999,682	\$431,181,965
500	\$10,499,862	\$322,328,304	\$332,551,112
250	\$8,326,798	\$261,562,747	\$270,500,163
100	\$5,554,415	\$167,769,222	\$172,475,356
50	\$3,302,388	\$97,337,240	\$100,264,465
20	\$1,386,350	\$43,554,516	\$44,822,395
10	\$504,786	\$16,589,353	\$17,065,502

Average Annual Loss	\$262,674	\$8,260,466	\$8,523,140
Standard Deviation	\$1,060,689	\$33,489,599	\$34,532,352
100 Yr PML:Premium	6.0	10.4	10.28
Implied HU Loss Ratio	30.7%	55.6%	81.2%

<u>Exposure Summary:</u>	<u>Commercial</u>	<u>Personal</u>	<u>Combined</u>
TIV	\$96,991,015	\$2,306,848,923	\$2,403,839,938
Premium	\$856,818	\$14,868,245	\$15,725,063
Policy Count	536	28,475	29,011
Location Count	801	32,545	33,346

Modeling Notes:

1. Frequency represents the near term ("stochastic") view for all models
2. Demand surge ("loss amplification") is included for all models
3. Storm surge is excluded for all models

Instrat® Analysis

North Carolina IUA Beach and Coastal Results

Per Occurrence PMLs:

Return Period	AIR		
	Commercial	Personal	Combined
1,000	\$1,236,887,289	\$7,452,831,902	\$8,492,236,126
500	\$942,155,747	\$5,876,152,082	\$6,775,346,018
250	\$708,481,785	\$4,334,278,276	\$5,110,826,494
100	\$450,670,229	\$2,705,150,945	\$3,154,303,699
50	\$271,265,386	\$1,635,826,586	\$1,908,456,908
20	\$117,959,323	\$738,194,786	\$859,964,870
10	\$43,315,913	\$296,730,240	\$340,603,913

Annual Aggregate PMLs:

Return Period	AIR		
	Commercial	Personal	Combined
1,000	\$1,238,673,269	\$7,503,664,199	\$8,775,488,502
500	\$942,155,747	\$5,876,152,082	\$6,775,346,018
250	\$740,744,502	\$4,485,865,167	\$5,256,124,392
100	\$482,437,112	\$2,894,573,908	\$3,408,214,953
50	\$288,578,408	\$1,721,600,310	\$2,019,417,373
20	\$128,610,052	\$800,410,413	\$936,500,659
10	\$47,338,745	\$323,544,466	\$372,009,308

Average Annual Loss	\$23,851,724	\$151,797,605	\$175,649,330
Standard Deviation	\$95,497,510	\$598,003,006	\$693,059,302
100 Yr PML:Premium	10.8	13.5	13.03
Implied HU Loss Ratio	57.1%	75.8%	32.8%

<u>Exposure Summary:</u>	<u>Commercial</u>	<u>Personal</u>	<u>Combined</u>
TIV	\$8,614,003,442	\$54,758,265,409	\$63,372,268,851
Premium	\$41,786,974	\$200,319,251	\$242,106,225
Policy Count	9,496	147,532	157,028
Location Count	22,571	151,166	173,737

Modeling Notes:

1. Frequency represents the near term ("stochastic") view for all models
2. Demand surge ("loss amplification") is included for all models
3. Storm surge is excluded for all models

Instrat® Analysis

North Carolina IUA Beach Results

Per Occurrence PMLs:

Return Period	AIR		
	Commercial	Personal	Combined
1,000	\$480,295,863	\$2,437,264,891	\$2,894,184,012
500	\$381,551,657	\$2,062,902,014	\$2,458,957,053
250	\$293,746,052	\$1,612,335,771	\$1,902,952,343
100	\$183,339,775	\$1,039,750,324	\$1,239,042,535
50	\$119,178,498	\$640,278,210	\$760,940,571
20	\$51,009,478	\$290,877,415	\$340,683,437
10	\$19,325,212	\$119,795,008	\$139,212,436

Annual Aggregate PMLs:

Return Period	AIR		
	Commercial	Personal	Combined
1,000	\$480,295,863	\$2,551,476,715	\$3,126,063,601
500	\$388,821,639	\$2,086,366,765	\$2,475,188,390
250	\$302,816,472	\$1,692,859,265	\$1,956,752,117
100	\$196,960,776	\$1,112,464,088	\$1,323,819,804
50	\$126,248,823	\$672,062,929	\$800,274,031
20	\$55,725,880	\$318,483,568	\$373,297,134
10	\$20,971,646	\$129,799,741	\$152,078,092

Average Annual Loss	\$10,134,345	\$59,026,252	\$69,160,598
Standard Deviation	\$38,902,999	\$218,418,068	\$256,748,929
100 Yr PML:Premium	7.7	9.8	9.54
Implied HU Loss Ratio	42.7%	55.6%	30.2%

<u>Exposure Summary:</u>	<u>Commercial</u>	<u>Personal</u>	<u>Combined</u>
TIV	\$3,223,220,271	\$20,048,868,139	\$23,272,088,410
Premium	\$23,734,074	\$106,184,675	\$129,918,749
Policy Count	3,008	50,431	53,439
Location Count	6,934	52,483	59,417

Modeling Notes:

1. Frequency represents the near term ("stochastic") view for all models
2. Demand surge ("loss amplification") is included for all models
3. Storm surge is excluded for all models

Instrat® Analysis

North Carolina IUA Coastal Results

Per Occurrence PMLs:

Return Period	AIR		
	Commercial	Personal	Combined
1,000	\$753,026,264	\$5,328,647,319	\$6,098,410,259
500	\$590,207,562	\$3,918,507,558	\$4,436,149,895
250	\$438,979,804	\$2,747,576,884	\$3,172,799,449
100	\$272,323,060	\$1,717,085,982	\$1,993,301,471
50	\$159,277,055	\$1,012,440,858	\$1,153,429,248
20	\$65,231,649	\$421,210,514	\$489,229,386
10	\$24,016,218	\$165,688,028	\$191,304,935

Annual Aggregate PMLs:

Return Period	AIR		
	Commercial	Personal	Combined
1,000	\$757,562,806	\$5,333,639,060	\$6,164,400,026
500	\$590,207,562	\$4,024,995,473	\$4,542,881,888
250	\$457,694,614	\$3,019,970,977	\$3,495,740,609
100	\$285,700,820	\$1,823,700,721	\$2,093,312,175
50	\$169,630,183	\$1,051,638,654	\$1,218,519,186
20	\$70,551,080	\$464,212,271	\$533,964,755
10	\$25,614,482	\$181,478,238	\$207,021,434

Average Annual Loss	\$13,717,379	\$92,771,353	\$106,488,732
Standard Deviation	\$58,204,436	\$400,476,653	\$458,329,187
100 Yr PML:Premium	15.1	18.2	17.77
Implied HU Loss Ratio	76.0%	98.6%	29.7%

<u>Exposure Summary:</u>	<u>Commercial</u>	<u>Personal</u>	<u>Combined</u>
TIV	\$5,390,783,171	\$34,709,397,270	\$40,100,180,441
Premium	\$18,052,900	\$94,134,576	\$112,187,476
Policy Count	6,488	97,101	103,589
Location Count	15,637	98,683	114,320

Modeling Notes:

1. Frequency represents the near term ("stochastic") view for all models
2. Demand surge ("loss amplification") is included for all models
3. Storm surge is excluded for all models