

Instrat® Analysis

North Carolina FAIR Plan Results

Per Occurrence PMLs:

Return Period	AIR		
	Commercial	Personal	Combined
1,000	\$16,201,679	\$499,559,581	\$513,909,029
500	\$12,334,608	\$396,345,577	\$409,696,202
250	\$9,277,409	\$288,731,067	\$297,910,299
100	\$5,892,847	\$172,589,154	\$178,372,677
50	\$3,526,202	\$97,095,002	\$100,655,407
20	\$1,537,708	\$42,414,195	\$43,860,438
10	\$630,988	\$18,208,757	\$18,872,899

Annual Aggregate PMLs:

Return Period	AIR		
	Commercial	Personal	Combined
1,000	\$16,920,746	\$526,898,963	\$542,574,429
500	\$13,350,625	\$404,993,092	\$417,397,526
250	\$9,782,472	\$302,819,314	\$311,485,955
100	\$6,144,994	\$175,355,323	\$179,925,433
50	\$3,762,701	\$103,933,763	\$108,408,605
20	\$1,641,762	\$45,642,779	\$47,289,836
10	\$701,724	\$20,430,896	\$21,061,026

Average Annual Loss	\$323,054	\$9,472,805	\$9,795,859
Standard Deviation	\$1,921,618	\$55,683,162	\$57,469,525
100 Yr PML:Premium	6.8	12.8	12.45
Implied HU Loss Ratio	37.0%	70.4%	90.1%

<u>Exposure Summary:</u>	<u>Commercial</u>	<u>Personal</u>	<u>Combined</u>
TIV	\$101,988,626	\$2,265,362,437	\$2,367,351,063
Premium	\$872,332	\$13,458,521	\$14,330,853
Policy Count	540	28,159	28,699
Location Count	786	32,323	33,109

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	\$460,001,589	\$2,754,338,007	\$3,116,898,995
500	\$382,320,013	\$2,435,007,871	\$2,837,243,758
250	\$270,583,314	\$1,770,345,078	\$2,042,809,812
100	\$173,648,842	\$1,051,906,394	\$1,217,375,164
50	\$98,487,536	\$669,997,479	\$769,284,233
20	\$41,849,928	\$286,688,544	\$327,820,811
10	\$17,511,735	\$126,752,447	\$145,262,682

Annual Aggregate PMLs:

Return Period	AIR		
	Commercial	Personal	Combined
1,000	\$499,275,666	\$3,150,072,994	\$3,569,668,472
500	\$388,166,283	\$2,606,302,351	\$2,979,400,295
250	\$292,264,515	\$1,840,588,936	\$2,162,057,937
100	\$176,226,966	\$1,137,553,883	\$1,317,375,655
50	\$106,979,339	\$696,802,582	\$803,314,837
20	\$45,955,822	\$310,885,640	\$357,740,135
10	\$19,543,118	\$146,521,349	\$164,900,148

Average Annual Loss	\$9,341,291	\$63,868,935	\$73,210,225
Standard Deviation	\$55,466,971	\$345,108,750	\$398,156,850
100 Yr PML:Premium	8.4	11.9	11.20
Implied HU Loss Ratio	45.5%	72.5%	59.4%

<u>Exposure Summary:</u>	<u>Commercial</u>	<u>Personal</u>	<u>Combined</u>
TIV	\$2,968,920,379	\$18,503,770,323	\$21,472,690,702
Premium	\$20,550,827	\$88,144,532	\$108,695,359
Policy Count	3,009	49,357	52,366
Location Count	6,908	51,400	58,308

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	\$714,626,868	\$5,419,518,444	\$6,054,766,199
500	\$514,450,592	\$4,482,241,463	\$5,016,786,343
250	\$374,440,262	\$3,004,543,616	\$3,416,098,141
100	\$217,801,954	\$1,506,980,799	\$1,723,065,312
50	\$120,747,144	\$843,598,288	\$963,202,408
20	\$50,983,435	\$371,284,416	\$423,310,380
10	\$21,216,956	\$157,313,899	\$177,061,282

Annual Aggregate PMLs:

Return Period	AIR		
	Commercial	Personal	Combined
1,000	\$787,315,265	\$6,012,578,838	\$6,799,894,103
500	\$521,862,501	\$4,491,104,051	\$5,026,755,736
250	\$382,147,330	\$3,004,543,616	\$3,416,098,141
100	\$221,507,288	\$1,545,860,656	\$1,753,972,695
50	\$128,651,460	\$904,809,943	\$1,030,997,578
20	\$54,879,266	\$396,423,926	\$450,721,650
10	\$23,134,570	\$173,925,826	\$196,016,003

Average Annual Loss	\$11,743,927	\$87,228,569	\$98,972,496
Standard Deviation	\$77,218,078	\$578,721,003	\$653,147,044
100 Yr PML:Premium	15.9	25.3	23.52
Implied HU Loss Ratio	85.9%	146.4%	70.4%

<u>Exposure Summary:</u>	<u>Commercial</u>	<u>Personal</u>	<u>Combined</u>
TIV	\$4,401,730,661	\$26,403,884,918	\$30,805,615,579
Premium	\$13,674,483	\$59,598,382	\$73,272,865
Policy Count	5,294	77,597	82,891
Location Count	13,641	78,879	92,520

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	\$1,159,482,382	\$8,264,072,044	\$9,378,394,903
500	\$891,450,383	\$6,606,627,458	\$7,549,894,846
250	\$660,077,642	\$4,391,123,580	\$5,033,173,140
100	\$373,455,374	\$2,502,050,579	\$2,885,653,867
50	\$213,474,371	\$1,457,173,368	\$1,682,616,901
20	\$93,692,535	\$657,400,929	\$753,870,178
10	\$40,065,120	\$293,992,345	\$336,332,220

Annual Aggregate PMLs:

Return Period	AIR		
	Commercial	Personal	Combined
1,000	\$1,340,534,458	\$8,940,733,257	\$10,231,482,077
500	\$893,820,238	\$6,606,627,458	\$7,549,894,846
250	\$683,764,374	\$4,608,039,342	\$5,314,166,113
100	\$391,132,866	\$2,697,344,090	\$3,095,587,378
50	\$235,230,508	\$1,605,020,302	\$1,853,464,576
20	\$102,182,788	\$721,128,017	\$820,659,463
10	\$43,284,866	\$331,108,481	\$374,353,047

Average Annual Loss	\$21,085,218	\$151,097,504	\$172,182,721
Standard Deviation	\$130,209,042	\$894,343,107	\$1,020,281,926
100 Yr PML:Premium	10.9	16.9	15.9
Implied HU Loss Ratio	61.6%	102.3%	66.0%

<u>Exposure Summary:</u>	<u>Commercial</u>	<u>Personal</u>	<u>Combined</u>
TIV	\$7,370,651,040	\$44,907,655,241	\$52,278,306,281
Premium	\$34,225,310	\$147,742,914	\$181,968,224
Policy Count	8,303	126,954	135,257
Location Count	20,549	130,279	150,828

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