

Instrat® Analysis

North Carolina FAIR Plan Coastal + Inland Results

Per Occurrence PMLs:

Return Period	RMS		
	Commercial	Personal	Combined
1,000	\$21,849,910	\$484,155,524	\$505,512,250
500	\$16,834,252	\$364,826,061	\$381,385,121
250	\$11,491,560	\$240,133,147	\$251,147,640
100	\$6,873,685	\$139,526,430	\$145,851,540
50	\$4,672,765	\$98,563,367	\$102,852,867
20	\$2,475,253	\$55,184,327	\$57,529,742
10	\$1,149,231	\$26,910,202	\$28,121,363

Annual Aggregate PMLs:

Return Period	RMS		
	Commercial	Personal	Combined
1,000	\$22,348,618	\$495,330,090	\$517,188,455
500	\$17,319,913	\$375,460,930	\$392,497,646
250	\$12,028,002	\$252,731,211	\$264,274,952
100	\$7,299,838	\$149,787,077	\$156,550,827
50	\$4,973,485	\$105,657,030	\$110,279,245
20	\$2,623,720	\$58,830,367	\$61,345,421
10	\$1,206,185	\$28,483,399	\$29,765,967

Average Annual Loss	\$453,626	\$10,207,363	\$10,660,990
Standard Deviation	\$1,702,860	\$36,887,721	\$38,516,116
100 Yr PML:Premium	3.9	5.5	5.34
Implied HU Loss Ratio	26.0%	39.9%	39.0%

Exposure Summary:

	<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	<i>RMS</i>		
	Commercial	Personal	Combined
1,000	\$3,260,734	\$50,319,270	\$53,237,013
500	\$2,269,098	\$36,889,264	\$38,856,815
250	\$1,534,153	\$26,227,361	\$27,541,534
100	\$835,172	\$15,789,301	\$16,522,190
50	\$452,715	\$9,835,510	\$10,269,510
20	\$119,022	\$3,866,872	\$4,023,618
10	\$13,002	\$1,009,573	\$1,040,076

Annual Aggregate PMLs:

Return Period	<i>RMS</i>		
	Commercial	Personal	Combined
1,000	\$3,299,925	\$51,259,554	\$54,215,061
500	\$2,303,387	\$37,769,084	\$39,776,034
250	\$1,561,441	\$26,984,383	\$28,325,248
100	\$851,985	\$16,310,555	\$17,063,858
50	\$462,227	\$10,171,352	\$10,618,201
20	\$121,457	\$3,997,059	\$4,157,948
10	\$13,301	\$1,041,649	\$1,072,896

Average Annual Loss	\$35,051	\$770,070	\$805,121
Standard Deviation	\$246,157	\$3,911,607	\$4,129,145
100 Yr PML:Premium	0.9	1.5	1.42
Implied HU Loss Ratio	3.9%	7.2%	6.9%

<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	<i>RMS</i>		
	Commercial	Personal	Combined
1,000	\$19,612,732	\$446,365,277	\$465,598,212
500	\$15,265,999	\$336,408,869	\$351,347,235
250	\$10,515,301	\$219,879,360	\$229,921,493
100	\$6,258,475	\$127,239,873	\$133,000,060
50	\$4,261,403	\$89,561,813	\$93,451,946
20	\$2,294,867	\$50,893,492	\$53,055,610
10	\$1,088,028	\$25,287,405	\$26,437,090

Annual Aggregate PMLs:

Return Period	<i>RMS</i>		
	Commercial	Personal	Combined
1,000	\$20,075,782	\$456,618,669	\$476,304,507
500	\$15,715,173	\$346,115,378	\$361,505,753
250	\$11,004,896	\$231,611,977	\$242,156,339
100	\$6,661,820	\$136,880,446	\$143,059,612
50	\$4,545,933	\$96,289,359	\$100,490,981
20	\$2,434,041	\$54,300,493	\$56,620,905
10	\$1,141,312	\$26,763,913	\$27,979,466

Average Annual Loss	\$418,575	\$9,437,293	\$9,855,869
Standard Deviation	\$1,547,795	\$33,962,198	\$35,439,231
100 Yr PML:Premium	7.3	8.6	8.46
Implied HU Loss Ratio	48.9%	63.5%	62.7%

<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	<i>RMS</i>		
	Commercial	Personal	Combined
1,000	\$2,234,982,978	\$10,835,319,831	\$13,049,802,312
500	\$1,804,283,468	\$8,106,137,918	\$9,922,715,736
250	\$1,223,956,663	\$4,991,024,716	\$6,209,707,413
100	\$721,008,146	\$2,704,831,074	\$3,419,188,151
50	\$485,555,509	\$1,795,341,941	\$2,274,038,323
20	\$264,144,534	\$1,017,268,123	\$1,279,346,025
10	\$135,456,798	\$557,472,536	\$694,244,792

Annual Aggregate PMLs:

Return Period	<i>RMS</i>		
	Commercial	Personal	Combined
1,000	\$2,289,000,495	\$11,054,556,195	\$13,323,556,393
500	\$1,854,695,766	\$8,303,442,225	\$10,168,516,475
250	\$1,284,920,032	\$5,230,568,285	\$6,510,792,797
100	\$770,461,523	\$2,916,830,421	\$3,680,679,472
50	\$522,491,617	\$1,955,925,272	\$2,471,797,207
20	\$283,334,850	\$1,101,326,744	\$1,382,975,342
10	\$143,409,468	\$594,616,939	\$739,579,210

Average Annual Loss	\$50,625,128	\$209,119,670	\$259,744,798
Standard Deviation	\$177,250,141	\$776,736,679	\$951,217,519
100 Yr PML:Premium	17.3	13.5	14.12
Implied HU Loss Ratio	121.2%	104.4%	107.3%

<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	<i>RMS</i>		
	Commercial	Personal	Combined
1,000	\$1,260,111,309	\$5,080,621,384	\$6,316,667,249
500	\$1,034,689,488	\$4,013,892,226	\$5,055,830,427
250	\$753,169,823	\$2,716,225,941	\$3,445,381,770
100	\$445,639,459	\$1,471,135,612	\$1,910,576,853
50	\$300,592,410	\$928,944,746	\$1,221,284,077
20	\$164,602,272	\$530,407,059	\$692,215,590
10	\$87,064,287	\$310,230,051	\$398,875,487

Annual Aggregate PMLs:

Return Period	<i>RMS</i>		
	Commercial	Personal	Combined
1,000	\$1,294,048,197	\$5,200,895,617	\$6,469,537,223
500	\$1,068,590,048	\$4,126,257,925	\$5,201,341,629
250	\$788,731,954	\$2,838,557,900	\$3,605,787,623
100	\$476,812,778	\$1,584,889,929	\$2,055,163,487
50	\$324,635,465	\$1,025,371,407	\$1,342,498,247
20	\$177,210,307	\$580,314,372	\$755,236,786
10	\$92,332,840	\$332,545,100	\$426,703,312
Average Annual Loss	\$31,609,369	\$113,152,855	\$144,762,224
Standard Deviation	\$105,342,893	\$389,563,612	\$492,477,740
100 Yr PML:Premium	18.8	13.9	14.71
Implied HU Loss Ratio	133.2%	106.6%	111.4%

<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	RMS		
	Commercial	Personal	Combined
1,000	\$995,421,764	\$5,800,566,856	\$6,790,246,755
500	\$758,896,500	\$4,104,987,734	\$4,866,075,136
250	\$489,688,864	\$2,416,542,467	\$2,900,743,133
100	\$283,033,866	\$1,345,587,115	\$1,623,124,103
50	\$191,084,854	\$922,210,936	\$1,108,588,645
20	\$101,228,321	\$505,028,310	\$605,084,212
10	\$47,129,289	\$232,716,474	\$280,994,766

Annual Aggregate PMLs:

Return Period	RMS		
	Commercial	Personal	Combined
1,000	\$1,015,511,881	\$5,897,829,391	\$6,906,761,530
500	\$777,765,065	\$4,197,389,339	\$4,977,232,270
250	\$512,549,478	\$2,530,392,910	\$3,038,086,389
100	\$300,601,088	\$1,436,155,624	\$1,731,348,532
50	\$203,647,315	\$984,451,552	\$1,183,785,485
20	\$107,410,975	\$535,018,907	\$641,476,827
10	\$49,583,864	\$245,216,631	\$296,073,006
Average Annual Loss	\$19,015,759	\$95,966,815	\$114,982,574
Standard Deviation	\$73,902,323	\$405,300,152	\$477,836,406
100 Yr PML:Premium	15.7	14.3	14.47
Implied HU Loss Ratio	105.3%	101.9%	102.5%

Exposure Summary:

	Commercial	Personal	Combined
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