

Instrat® Analysis

North Carolina FAIR Plan Coastal + Inland Results

Per Occurrence PMLs:

Return Period	<i>RMS</i>		
	Commercial	Personal	Combined
1,000	\$20,506,537	\$482,824,596	\$502,904,209
500	\$15,710,071	\$363,517,570	\$378,947,100
250	\$10,649,970	\$239,316,585	\$249,549,597
100	\$6,346,694	\$139,023,251	\$144,917,003
50	\$4,291,648	\$98,210,974	\$102,190,784
20	\$2,244,278	\$55,027,645	\$57,174,285

Annual Aggregate PMLs:

Return Period	<i>RMS</i>		
	Commercial	Personal	Combined
1,000	\$20,954,728	\$494,006,800	\$514,502,927
500	\$16,152,290	\$374,103,068	\$389,971,384
250	\$11,135,990	\$251,895,779	\$262,611,136
100	\$6,726,073	\$149,292,792	\$155,582,197
50	\$4,559,945	\$105,303,561	\$109,577,703
20	\$2,374,912	\$58,670,522	\$60,968,349

Average Annual Loss	\$411,936	\$10,183,685	\$10,595,620
Standard Deviation	\$1,578,578	\$36,789,873	\$38,305,575
100 Yr PML:Premium	4.1	5.6	5.49
Implied HU Loss Ratio	26.5%	41.0%	40.1%

<u>Exposure Summary:</u>	<u>Commercial</u>	<u>Personal</u>	<u>Combined</u>
TIV	\$288,077,174	\$4,574,540,104	\$4,862,617,278
Premium	\$1,556,012	\$24,848,728	\$26,404,740
Policy Count	1,748	66,522	68,270
Location Count	2,859	81,308	84,167

Modeling Notes:

1. Frequency represents the near term ("stochastic"/"WSST") view.
2. Demand surge ("loss amplification") is included in both models.
3. Storm surge is excluded in both models.

Instrat® Analysis

North Carolina FAIR Plan Inland Results

Per Occurrence PMLs:

Return Period	<i>RMS</i>		
	Commercial	Personal	Combined
1,000	\$2,898,758	\$47,870,972	\$50,451,565
500	\$2,013,350	\$35,097,522	\$36,843,604
250	\$1,354,756	\$24,955,387	\$26,119,007
100	\$730,926	\$15,036,258	\$15,679,669
50	\$392,589	\$9,375,415	\$9,753,008
20	\$101,451	\$3,690,588	\$3,824,396

Annual Aggregate PMLs:

Return Period	<i>RMS</i>		
	Commercial	Personal	Combined
1,000	\$2,932,862	\$48,770,019	\$51,384,369
500	\$2,043,237	\$35,941,760	\$37,718,014
250	\$1,378,573	\$25,681,705	\$26,870,036
100	\$745,527	\$15,535,797	\$16,197,387
50	\$400,765	\$9,697,088	\$10,085,608
20	\$103,508	\$3,814,806	\$3,952,124

Average Annual Loss	\$30,643	\$733,821	\$764,464
Standard Deviation	\$218,137	\$3,722,145	\$3,913,931
100 Yr PML:Premium	1.0	1.5	1.45
Implied HU Loss Ratio	4.1%	7.3%	7.1%

<u>Exposure Summary:</u>	<u>Commercial</u>	<u>Personal</u>	<u>Combined</u>
TIV	\$200,615,018	\$2,260,613,041	\$2,461,228,059
Premium	\$743,663	\$10,072,248	\$10,815,911
Policy Count	1,250	38,368	39,618
Location Count	2,104	49,260	51,364

Modeling Notes:

1. Frequency represents the near term ("stochastic"/"WSST") view.
2. Demand surge ("loss amplification") is included in both models.
3. Storm surge is excluded in both models.

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North Carolina FAIR Plan Coastal Results

Per Occurrence PMLs:

Return Period	<i>RMS</i>		
	Commercial	Personal	Combined
1,000	\$18,543,469	\$446,860,940	\$465,086,328
500	\$14,313,189	\$336,514,334	\$350,586,991
250	\$9,728,872	\$220,052,730	\$229,414,089
100	\$5,786,952	\$127,425,049	\$132,831,302
50	\$3,918,544	\$89,676,936	\$93,308,745
20	\$2,077,417	\$50,933,800	\$52,919,359

Annual Aggregate PMLs:

Return Period	<i>RMS</i>		
	Commercial	Personal	Combined
1,000	\$18,959,135	\$457,149,580	\$475,743,058
500	\$14,715,337	\$346,293,353	\$360,772,231
250	\$10,176,833	\$231,826,338	\$241,644,973
100	\$6,142,933	\$137,084,916	\$142,861,702
50	\$4,170,202	\$96,420,834	\$100,330,312
20	\$2,199,162	\$54,345,627	\$56,468,801

Average Annual Loss	\$381,293	\$9,449,864	\$9,831,157
Standard Deviation	\$1,448,611	\$34,017,263	\$35,402,881
100 Yr PML:Premium	7.1	8.6	8.52
Implied HU Loss Ratio	46.9%	64.0%	63.1%

<u>Exposure Summary:</u>	<u>Commercial</u>	<u>Personal</u>	<u>Combined</u>
TIV	\$87,462,156	\$2,313,927,063	\$2,401,389,219
Premium	\$812,349	\$14,776,480	\$15,588,829
Policy Count	498	28,154	28,652
Location Count	755	32,048	32,803

Modeling Notes:

1. Frequency represents the near term ("stochastic"/"WSST") view.
2. Demand surge ("loss amplification") is included in both models.
3. Storm surge is excluded in both models.

Instrat® Analysis

North Carolina IUA Beach and Coastal Results

Per Occurrence PMLs:

Return Period	<i>RMS</i>		
	Commercial	Personal	Combined
1,000	\$2,261,514,872	\$12,300,933,736	\$14,533,197,566
500	\$1,823,096,916	\$9,133,575,960	\$10,973,770,094
250	\$1,236,231,098	\$5,599,756,341	\$6,828,631,371
100	\$731,105,244	\$3,022,948,201	\$3,746,721,053
50	\$493,611,951	\$2,010,206,514	\$2,496,264,855
20	\$268,447,423	\$1,136,303,229	\$1,402,686,244

Annual Aggregate PMLs:

Return Period	<i>RMS</i>		
	Commercial	Personal	Combined
1,000	\$2,316,416,973	\$12,543,193,563	\$14,831,833,693
500	\$1,874,409,212	\$9,352,410,499	\$11,241,157,209
250	\$1,298,239,207	\$5,864,300,419	\$7,153,849,482
100	\$781,041,271	\$3,257,880,701	\$4,032,473,740
50	\$530,937,166	\$2,186,884,654	\$2,710,644,915
20	\$287,754,566	\$1,228,585,664	\$1,514,643,614

Average Annual Loss	\$51,247,892	\$232,950,820	\$284,198,713
Standard Deviation	\$179,587,723	\$875,678,472	\$1,052,006,823
100 Yr PML:Premium	15.1	13.1	13.45
Implied HU Loss Ratio	105.6%	101.3%	102.0%

<u>Exposure Summary:</u>	<u>Commercial</u>	<u>Personal</u>	<u>Combined</u>
TIV	\$8,898,167,678	\$63,517,931,322	\$72,416,099,000
Premium	\$48,539,431	\$229,952,874	\$278,492,305
Policy Count	9,659	164,251	173,910
Location Count	23,221	168,010	191,231

Modeling Notes:

1. Frequency represents the near term ("stochastic"/"WSST") view.
2. Demand surge ("loss amplification") is included in both models.
3. Storm surge is excluded in both models.

Instrat® Analysis

North Carolina IUA Beach Results

Per Occurrence PMLs:

Return Period	RMS		
	Commercial	Personal	Combined
1,000	\$1,228,226,861	\$5,307,156,718	\$6,505,765,491
500	\$1,007,228,736	\$4,193,361,331	\$5,210,397,067
250	\$737,599,876	\$2,828,599,909	\$3,544,507,756
100	\$439,663,849	\$1,531,734,979	\$1,965,137,741
50	\$298,033,742	\$966,472,026	\$1,256,522,165
20	\$163,512,056	\$551,562,384	\$712,202,428

Annual Aggregate PMLs:

Return Period	RMS		
	Commercial	Personal	Combined
1,000	\$1,262,392,354	\$5,430,920,172	\$6,662,791,578
500	\$1,041,410,175	\$4,310,576,691	\$5,359,303,167
250	\$772,658,662	\$2,956,040,886	\$3,709,775,810
100	\$470,550,954	\$1,649,713,907	\$2,114,061,560
50	\$321,841,068	\$1,066,664,097	\$1,381,170,623
20	\$175,948,246	\$603,421,507	\$777,021,629

Average Annual Loss	\$31,218,945	\$117,710,968	\$148,929,913
Standard Deviation	\$103,525,668	\$405,706,996	\$506,806,029
100 Yr PML:Premium	16.6	13.9	14.36
Implied HU Loss Ratio	117.9%	106.7%	108.9%

<u>Exposure Summary:</u>	<u>Commercial</u>	<u>Personal</u>	<u>Combined</u>
TIV	\$3,147,621,814	\$20,721,434,257	\$23,869,056,071
Premium	\$26,486,907	\$110,314,090	\$136,800,997
Policy Count	2,830	50,504	53,334
Location Count	6,645	52,568	59,213

Modeling Notes:

1. Frequency represents the near term ("stochastic"/"WSST") view.
2. Demand surge ("loss amplification") is included in both models.
3. Storm surge is excluded in both models.

Instrat® Analysis

North Carolina IUA Coastal Results

Per Occurrence PMLs:

Return Period	<i>RMS</i>		
	Commercial	Personal	Combined
1,000	\$1,056,493,737	\$7,028,207,993	\$8,073,224,029
500	\$804,332,257	\$4,953,467,636	\$5,761,923,418
250	\$517,313,782	\$2,919,149,956	\$3,430,108,610
100	\$299,674,117	\$1,614,508,423	\$1,907,996,234
50	\$202,177,739	\$1,105,212,655	\$1,302,087,199
20	\$106,708,575	\$604,341,740	\$709,915,647

Annual Aggregate PMLs:

Return Period	<i>RMS</i>		
	Commercial	Personal	Combined
1,000	\$1,077,537,621	\$7,146,273,614	\$8,211,780,215
500	\$824,200,015	\$5,064,788,105	\$5,892,933,964
250	\$541,525,079	\$3,054,127,844	\$3,590,078,789
100	\$318,088,134	\$1,723,210,176	\$2,035,382,416
50	\$215,344,727	\$1,179,702,499	\$1,390,324,033
20	\$113,163,489	\$640,202,983	\$752,468,407

Average Annual Loss	\$20,028,947	\$115,239,852	\$135,268,799
Standard Deviation	\$78,252,578	\$490,101,153	\$566,743,082
100 Yr PML:Premium	13.6	13.5	13.47
Implied HU Loss Ratio	90.8%	96.3%	95.5%

<u>Exposure Summary:</u>	<u>Commercial</u>	<u>Personal</u>	<u>Combined</u>
TIV	\$5,750,545,864	\$42,796,497,065	\$48,547,042,929
Premium	\$22,052,524	\$119,638,784	\$141,691,308
Policy Count	6,829	113,747	120,576
Location Count	16,576	115,442	132,018

Modeling Notes:

1. Frequency represents the near term ("stochastic"/"WSST") view.
2. Demand surge ("loss amplification") is included in both models.
3. Storm surge is excluded in both models.