CAS Special Interest Seminar

Government in Insurance Seminar - Boston, MA Law, Regulation and Property Residual Markets North Carolina



Consulting Actuary

October 4, 2010



§ Insurance Statutes

- What is unique about property insurance in North Carolina?
- Industry-wide rates developed by the North Carolina Rate Bureau
- Filed with the Commissioner for approval
- Industry-wide rates also apply to residual markets
- For some Residual Market Risks, surcharges, as defined by statute, are applied to Bureau rates
- In the voluntary market, individual companies may deviate and use consent to rate



§ Property Residual Markets

- NCIUA (Beach Plan)
- NCJUA (Fair Plan)



§ Fair Plan

- Created by the legislature in the 1960s
- Functioned as insurer of last resort for properties unable to insure with voluntary market
- Eligible to write business statewide
- Currently eligible to write in non-Beach Plan counties
- Includes both personal and small commercial buildings
- One participation pool
- Volume/growth



NCJUA - FAIR PLAN RESIDENTIAL POLICIES ONLY				
	Amount of Insurance In Force (\$ Millions)		Policy Count	
Evaluation Date	\$	Annual % Change	#	Annual % Change
September-09	\$4,133	-2.9%	67,026	-3.5%
September-08	4,258	-2.6%	69,461	-3.3%
September-07	4,373	-1.9%	71,819	-2.7%
September-06	4,457	3.6%	73,839	-0.7%
September-05	4,300	6.6%	74,384	0.7%
September-04	4,035	6.3%	73,883	2.5%
December-03	3,795	-	72,088	-



§ Beach Plan

- Created by the legislature to address availability of property insurance in Beach and Coastal areas
- Eligible to write only in Beach and Coastal counties
- Participation separate for four different pools:
 - Personal Beach
 - Personal Coastal
 - Commercial Beach
 - Commercial Coastal
- Volume/growth

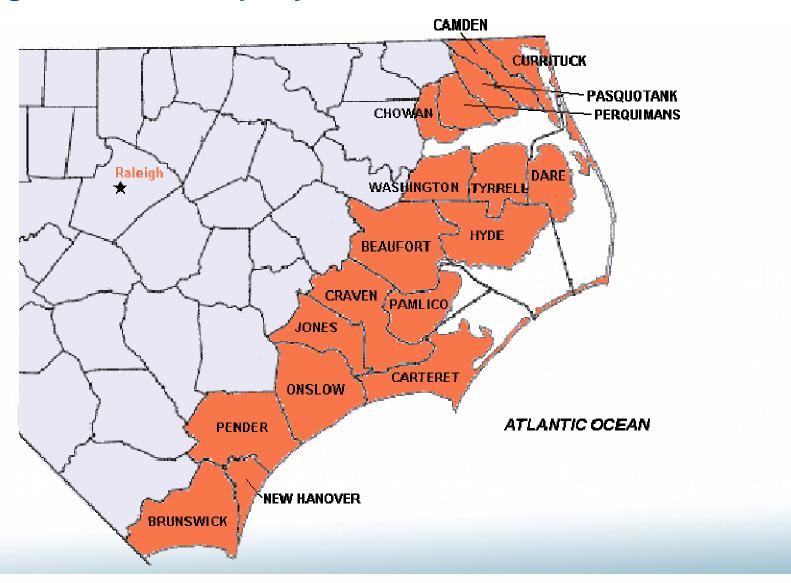


§ Beach Plan Eligible Areas

- Beach All areas South and East of inland waterway, including area referred to as "outer banks"
- Coastal Non-Beach area of the following counties:
 - Beaufort
 - Brunswick
 - Camden
 - Carteret
 - Chowan
 - Craven
 - Currituck
 - Dare
 - Hyde

- Jones
- New Hanover
- Onslow
- Pamlico
- Pasquotank
- Pender
- Perquimans
- Tyrrell
- Washington







SUMMARY OF GROWTH - BEACH PLAN RESIDENTIAL POLICIES ONLY				
	Amount of Insurance In Force (\$ Millions)		Policy Count	
Evaluation Date	\$	Annual % Change	#	Annual % Change
September-09	\$64,865	2.4%	165,761	0.7%
September-08	63,341	17.8%	164,568	13.1%
September-07	53,769	23.1%	145,443	16.5%
September-06	43,670	25.9%	124,858	13.8%
September-05	34,696	42.9%	109,753	33.0%
September-04	24,280	70.5%	82,494	33.7%
December-03	14,238	-	61,690	-



§ Residual Market – Assessments

- Fair Operating losses assessed to member companies on single participation ratio. Member companies may also share in any profits.
- Beach Old law (prior to HB 1305) Operating losses assessed to member companies separately by the four pools, using different participation ratios for each pool. Any profits could be distributed back to member companies or kept in the plan to be used for future catastrophic losses.



§ Legislation

- HB 1305 enacted August 2009
 - Limits member company assessments to \$1 B of loss (was unlimited)
 - Ownership of surplus transferred to the Beach Plan; future profits would be retained by the Beach Plan to cover future catastrophic losses
 - Created catastrophe recovery charge allowed the Beach Plan to authorize member companies to impose a surcharge on residential and commercial property insurance policyholders statewide up to 10% annually
 - Surcharges are collected by member insurers and transferred to the Beach Plan
 - Beach Plan authorized to issue debt to cover insured losses to be paid back through company assessments and the catastrophe recovery charges
 - Coverage limits (\$750K + 40%) and minimum deductible of 1%



§ Legislation

- HB 1305
 - New definition of "nonrecoupable assessment":
 - "Any assessment levied on and payable by members of the Association that is not directly recoverable from policyholders. Prospective exposure to nonrecoupable assessments shall be considered as an appropriate factor in the making of rates by the North Carolina Rate Bureau."



§ Rates of the Residual Market

- Based on Industry Rates filed by NCRB
- Surcharged classes (homeowners policies: 15% / wind-only policies: 5%)
- Provisions for:
 - Expected losses
 - Non-catastrophe losses
 - Hurricane catastrophes (customary actuarial procedure using modeled loss costs)
 - Non-hurricane catastrophes (customary actuarial procedure based on actual experience)
 - Net cost of reinsurance
 - Profit
 - Other typical considerations in developing rates
 - Residual market reinsurance charge



§ Exposure to Catastrophes

- Beach and Fair Plan Combined
- AAL
 - AIR \$227.7 Million
 - RMS \$250.6 Million
- 1 in 1000 Year PML:
 - AIR \$12.8 Billion
 - RMS \$13.7 Billion
- § Guy Carpenter PML & AAL analysis is available on the NCJUA/NCIUA website: http://www.ncjua-nciua.org/, and included in this presentation for reference



North Carolina IUA and JUA Combined - AIR

Data Inforce as of 1/1/2010

AIR v 11 - IUA and JUA Combined

Per Occurrence PMLs:

Return Period	Commercial	Personal	Combined
1,000	\$1,460,680,941	\$10,768,815,343	\$12,146,309,932
500	\$1,275,720,142	\$9,210,443,839	\$10,459,513,187
250	\$943,947,302	\$6,459,885,163	\$7,497,224,789
150	\$711,440,179	\$4,785,324,034	\$5,522,514,257
100	\$552,522,162	\$3,593,582,314	\$4,098,333,573
75	\$457,002,273	\$2,957,148,585	\$3,410,807,631
50	\$327,333,142	\$2,147,358,142	\$2,460,651,025
20	\$129,362,444	\$893,433,265	\$1,024,459,784
10	\$48,382,053	\$366,322,681	\$413,330,964

Annual Aggregate PMLs:

Commercial	Personal	Combined
\$1,516,075,878	\$11,330,764,219	\$12,754,840,693
\$1,347,288,592	\$9,272,438,109	\$10,666,824,473
\$978,764,819	\$6,550,308,857	\$7,573,126,141
\$755,092,706	\$4,912,785,119	\$5,687,924,739
\$598,015,675	\$3,801,310,086	\$4,419,191,312
\$474,368,739	\$3,212,665,668	\$3,693,627,336
\$341,849, 3 33	\$2,288,265,685	\$2,626,369,518
\$135,578,115	\$954,582,328	\$1,093,980,936
\$52,972,396	\$395,426,259	\$44 7,158,156
\$28,268,816	\$199,447,697	\$227,716,513
\$124,438,718	\$865,448,446	\$969,344,690
Commercial	Personal	Combined
\$9,380,002,888	\$66,479,009,114	\$75,859,012,002
\$47,664,814	\$274,544,894	\$322,209,708
10,892	227,727	238,819
25,624	245,701	271,325
	\$1,516,075,676 \$1,347,288,592 \$978,764,819 \$755,092,706 \$598,015,675 \$474,368,739 \$341,849,333 \$135,578,115 \$52,972,396 \$28,268,816 \$124,438,718 Commercial \$9,380,002,888 \$47,664,814 10,892	\$1,516,075,676 \$11,330,764,219 \$1,347,288,592 \$9,272,438,109 \$978,764,819 \$6,550,308,857 \$755,092,706 \$4,912,785,119 \$598,015,675 \$3,801,310,086 \$474,368,739 \$3,212,665,668 \$341,849,333 \$2,288,265,685 \$135,578,115 \$954,582,328 \$52,972,396 \$395,426,259 \$28,268,616 \$199,447,697 \$124,438,710 \$665,440,446 Commercial \$9,380,002,686 \$47,664,614 \$274,544,894 \$10,892 \$277,727

Modeling Notes:

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



North Carolina IUA and JUA Combined By LOB - RMS Data Inforce as of 1/1/2010

RMS v 9 - IUA and JUA Combined

Per Occurrence PMLs:

Return Period	Commercial	Personal	Combined
1,000	\$2,045,914,736	\$11,394,898,493	\$13,414,487,238
500	\$1,584,658,885	\$8,268,772,307	\$9,873,721,087
250	\$1,040,048,683	\$4,967,512,010	\$6,001,456,600
150	\$7 72,072,648	\$3,510,629,926	\$4,279,112,148
100	\$617,567,019	\$2,738,017,968	\$3,349,833,161
75	\$527,182,602	\$2,315,663,987	\$2,836,267,304
50	\$419,552,985	\$1,840,282,266	\$2,254,554,696
20	\$233,057,458	\$1,031,080,015	\$1,262,961,451
10	\$120,752,102	\$538,905,488	\$660,670,026

Annual Aggregate PMLs:

Return Period	Commercial	Personal	Combined
1,000	\$2,091,588,212	\$11,608,774,064	\$13,676,034,416
500	\$1,630,785,390	\$8,465,784,389	\$10,114,233,377
250	\$1,093,783,771	\$5,205,169,948	\$6,292,967,174
150	\$821,024,309	\$3,733,470,235	\$4,550,608,682
100	\$661,414,867	\$2,943,705,833	\$3,600,259,046
75	\$566,712,599	\$2,500,345,807	\$3,061,341,275
50	\$452,265,067	\$1,890,138,087	\$2,437,674,309
20	\$249,476,857	\$1,107,898,798	\$1,356,451,167
10	\$127,494,237	\$572,038,833	\$700,672,774
Average Annual Loss	\$44,24 0,378	\$206,400,641	\$250,641,019
Standard Deviation	\$157,385,362	\$803,353,280	\$958,243,976
Exposure Summary:	Commercial	Personal	Combined
TIV	\$9,380,002,888	\$66,479,009,114	\$75,859,012,002
Premium	\$47,664,814	\$274,544,894	\$322,209,708
Policy Count	10,892	227,727	238,619
Location Count	25,624	245,701	271,325

Modeling Notes:

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



Surplus – Calculated Quarterly as part of Financial Statements § Latest Financial Statement is as of March 31, 2010

• Beach Plan Surplus: \$696 Million

• Fair Plan Surplus: \$27.8 Million

Complete Financial Statements available on NCJUA/NCIUA website: http://www.ncjua-nciua.org/



Beach & Fair Plan Reinsurance

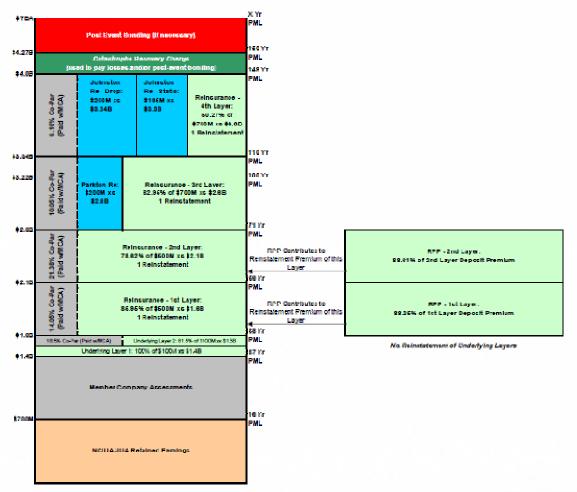
- § Program covers both Beach and Fair Plan exposures
- § For 2010 storm season, \$2.3 Billion of coverage purchased, displayed on the next page
- § Using both traditional reinsurance and two Catastrophe Bonds

PDF version of Reinsurance Layer Chart is available on NCJUA/NCIUA website: http://www.ncjua-nciua.org/



North Carolina Insurance Underwriting Association North Carolina Joint Underwriting Association Risk Financing Program Effective May 1, 2010

Final Structure Graph



AMOUNT OF REINSURANCE

Underlying Layer 1	\$	100,000,000	Catastrophe Excess Of Loss
Underlying Layer 2	\$	81,580,000	Catastrophe Excess Of Loss
Layeri	\$	429,733,500	Catastrophe Excess Of Loss
Layer 2	ş	303,108,500	Catastrophe Excess Of Loss
Layer 3	3	440,004,700	Catastrophie Excess Of Loss
Layer 3	ş	200,000,000	Harkton Re
Layer 4	ş	351,874,670	Catastrophe Excess Of Loss
Layer 4	ş	305,000,000	Johnston Re
Total	ş	2,301,881,370	_

AMOUNT OF CO-PARTICIPATION

Jnderlying Layer 1	\$	
Jnderlying Layer 2	\$	18,580,000
Layer /	ş	70,266,500
Layer 2	\$	106,891,500
Layer 3	\$	59,335,300
Layer 4	\$	43,125,330
Total	\$	298,118,630

Notes

- -PMLs are blended average of RMS and AIR short term and long term model views and are based on projected T/V of \$77.7G at 9/30/10
- Total Member Company Assessments are capped at \$18
- -Assume \$270M of Gatastrophe Recovery Charge funds are available
- Post-event bonding capacity to be determined



North Carolina Beach & Fair Plan

Financing of a \$5 Billion Event during the 2010 Storm Season (\$Millions)

		Remaining Losses
Event Losses		\$5,000
Surplus	\$700	4,300
Reinsurance	2,300	2,000
Member Company Assessments	1,000	1,000
Policyholder Surcharges	1,000	0



Questions?

