CATASTROPHE MODELS: A REGULATORY VIEWPOINT



Presented by:



Lawrence J. Steinert, FCAS, MAAA
Senior Actuary
Louisiana Department of Insurance

Casualty Actuarial Society 2009 Spring Meeting

New Orleans, Louisiana

OVERALL VIEW

- State-of-the-art
- Uses in ratemaking
 - Overall rate level
 - Territory relativities
 - Deductible relativities
 - Wind mitigation credits
 - Reinsurance recoveries



NEED FOR TRANSPARENCY

- LA Bulletin 99-02
- On-site visits to modelers



NAIC national cat model initiative



LA BULLETIN 99-02 "COMPUTER MODEL INTERROGATORIES"

- Part A Filer
 - -Insurer certification
 - Insurer information
 - Modeled provision in the rates



LA BULLETIN 99-02 "COMPUTER MODEL INTERROGATORIES"

- Part B Modeler
 - Modeler certification
 - Model evaluation
 - Model validation
 - Model sensitivity



LA BULLETIN 99-02 "COMPUTER MODEL INTERROGATORIES"

- Additional questions for Filer ("switches")
 - "View"
 - Risk load
 - Demand surge
 - Storm surge (10% or)



LOUISIANA CONCERNS

- Short-term and medium-term views
- Consistency between models
- Stability over time



TERRITORY RATEMAKING

- Cat potential varies significantly within state
- Territory a priori non-cat expected loss ratio
 - Do not use:Statewide non-cat loss ratio
 - Use:

Starting point of 100.0%

MINUS Statewide expense ratio

MINUS Territory-specific profit provision

MINUS Territory-specific reinsurance/risk provision

MINUS Territory-specific modeled cat provision

WIND MITIGATION



- LA R.S. 22:1426
- LA Regulation 94
- Use of models for wind mitigation credits
- Less wind → Less wind to be mitigated
 - Credits relative to "wind plus non-wind" → large geographic variation
 - Credits relative to wind →
 small or no geographic variation

QUESTIONS?



Lawrence Steinert – <u>Isteinert@ldi.state.la.us</u> – (225) 342-4699