Negative Frequency Trends? 2013 CAS Seminar on Reinsurance June 6-7,2013

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Antitrust Notice

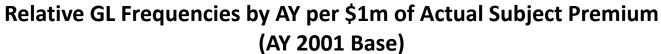
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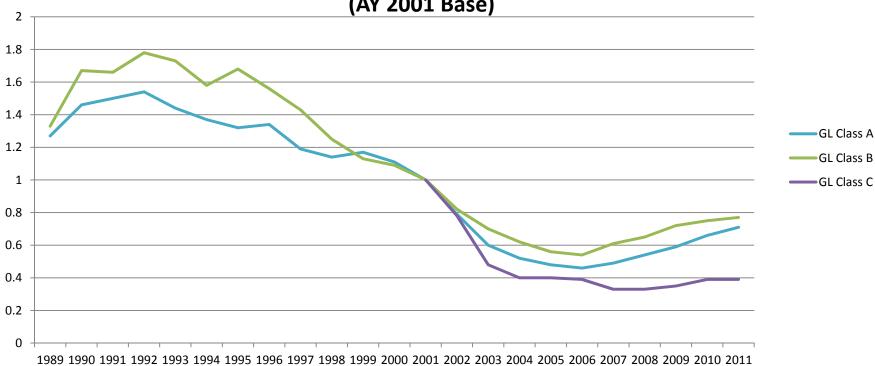


Negative Frequency Trends?

1 Liability
2 Auto
3 Property





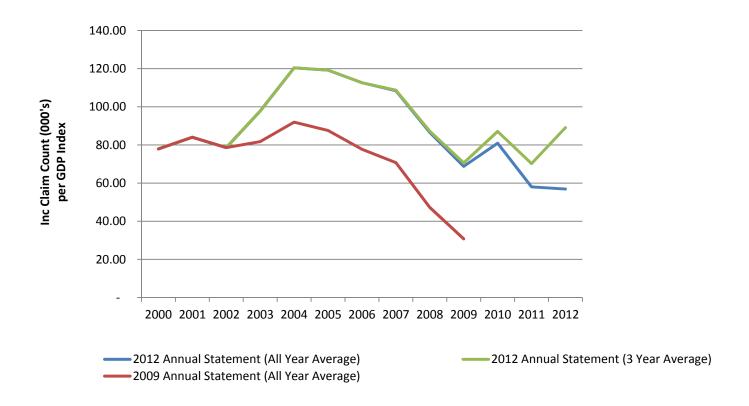


Source: AY's 2001+: ISO Size of Loss Matrix @12/31/11 (developed to ultimate using all year volume weighted average)
-Actual underlying ground up occurrence counts (all years) range 147k to 976k
-Actual subject premiums are prior to on-leveling

AY's 2000 and prior: relativities from ISO Circulars



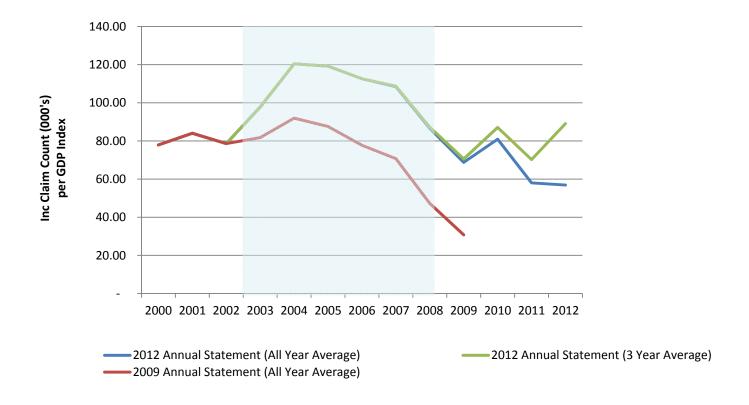
Schedule P Other Liability Occurrence Per GDP Index



Source: Bureau of Economic Analysis – Real Gross Domestic Product, Quantity Indexes Schedule P Incurred Claim Counts Developed to Ultimate – Straight Average



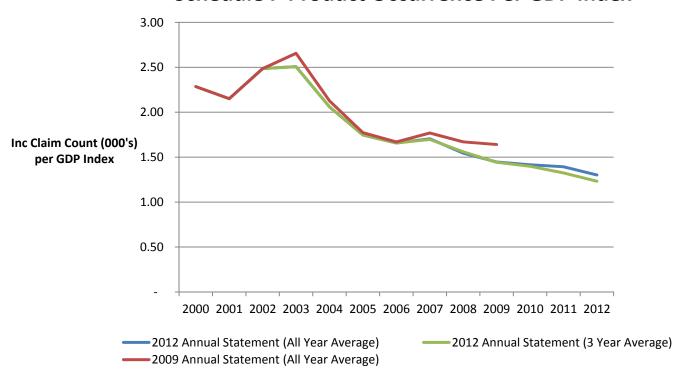
Schedule P Other Liability Occurrence Per GDP Index



Source: Bureau of Economic Analysis – Real Gross Domestic Product, Quantity Indexes Schedule P Incurred Claim Counts Developed to Ultimate – Straight Average



Schedule P Product Occurrence Per GDP Index



Source: Bureau of Economic Analysis – Real Gross Domestic Product, Quantity Indexes Schedule P Incurred Claim Counts Developed to Ultimate LDF's - Straight Average



Liability – Reasons for Decline

- Improved Risk Management
 - Safer Premises
 - Training
- Reevaluating Insurance Bought
 - Larger SIR
 - Coverage Restrictions
- Tort Reform



Liability – Future Observations

- Tort Activity
 - Increase in Case Load At the State Level
- Increased Potential Risks
 - Aging Population
 - Technology
- Economy
 - Growth
 - Increased Financial Risk
 - Small Business Optimism Mixed NFIB
 - Concerns with Tax and Regulation



Negative Frequency Trends?

1 Liability

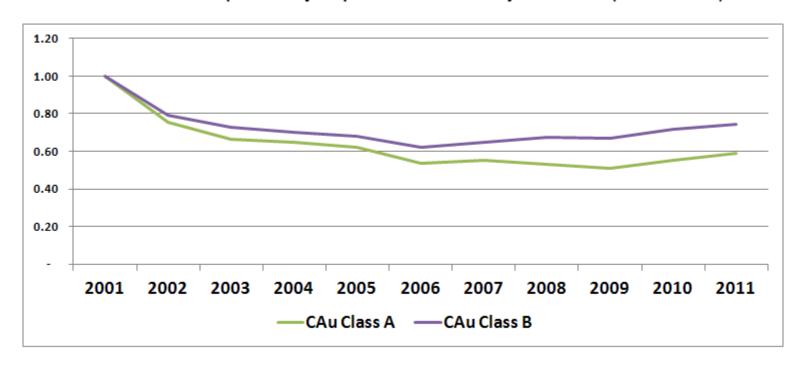
2 Auto

3 Property



Commercial Auto

Relative CAu Frequencies by AY per \$1M of Actual Subject Premium (AY 2001 base)

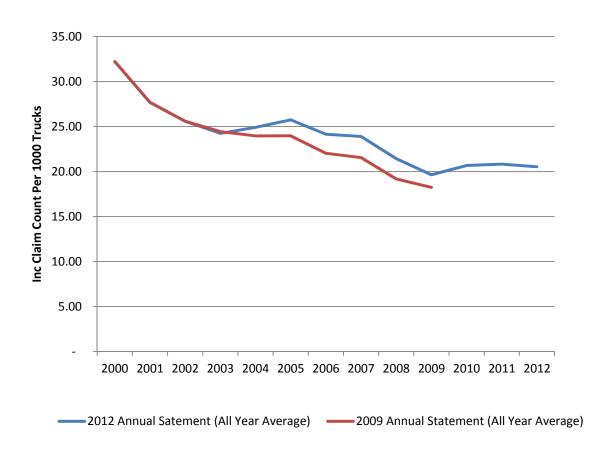


Source: ISO Size-of-Loss Matrix - as of 12/31/2011 - occurrence counts by AY developed to ultimate using All year VWA Actual underlying ground-up occurrence counts (all years) range from 729K to 3268K Actual subject premiums are prior to on-leveling



Commercial Auto

Schedule P Commercial Auto Per Truck Units

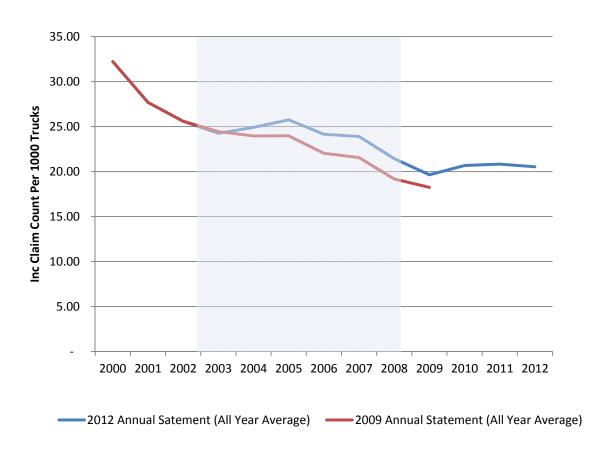


Source: Office of Highway Policy Information, FHWA Schedule P Incurred Claim Counts Developed to Ultimate LDF's - Straight Average



Commercial Auto

Schedule P Commercial Auto Per Truck Units



Source: Office of Highway Policy Information, FHWA Schedule P Incurred Claim Counts Developed to Ultimate LDF's - Straight Average



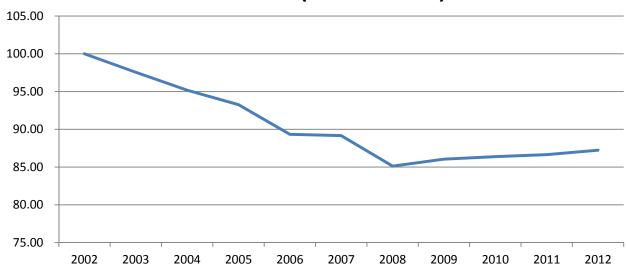
Commercial Auto Liability

- Improved Risk Management
 - Safety
 - Training
 - Telematics
- Economy



Personal Auto

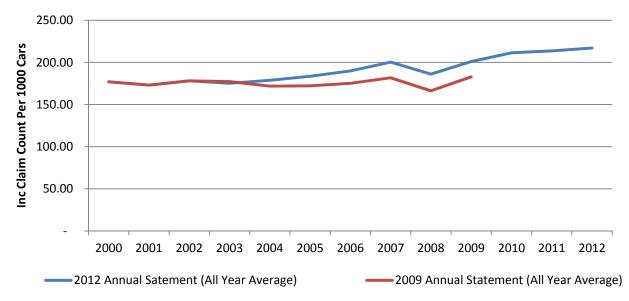
Relative PPA BI Frequencies by Calendar Year (AY 2002 Base)



Source: ISO Circulars



Schedule P Personal Auto Liability Per Car Units



Source: Office of Highway Policy Information, FHWA Schedule P Incurred Claim Counts Developed to Ultimate LDF's - Straight Average



Personal Auto Liability

- Most of the Frequency Decreases for Auto Occurred in the '90s
 - Vehicle Safety Airbags, Anti-Lock Brakes
 - Stricter Driving Laws Teen Driving Restrictions
- Over Reliance on Newer Improved Safety Features?
 - Rearview Cameras
 - Warning Sensors
 - Lane Assistance
- Newer Cars Have More "Techno" Gadgets
 - Full Internet Access
 - Text Voice to Replace Cell Phone Texting
- Increase in Highway Deaths NHTSA
 - Highway Deaths Increased 5.3% in 2012
 - Ending 6 Year Trend of Decreases



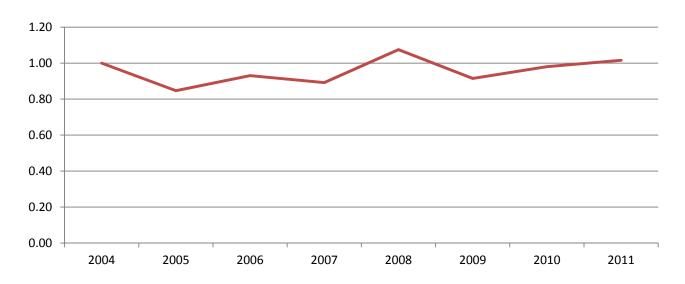
Negative Frequency Trends?

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Commercial Property

Relative Commercial Property Frequencies by AY (2004 Base)



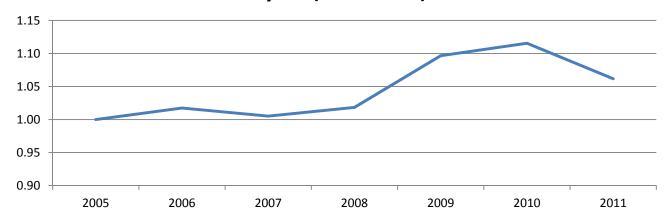
Excluding Cats

Source: ISO Circulars



Personal Property

Relative Personal Property Frequencies by CY (2005 Base)



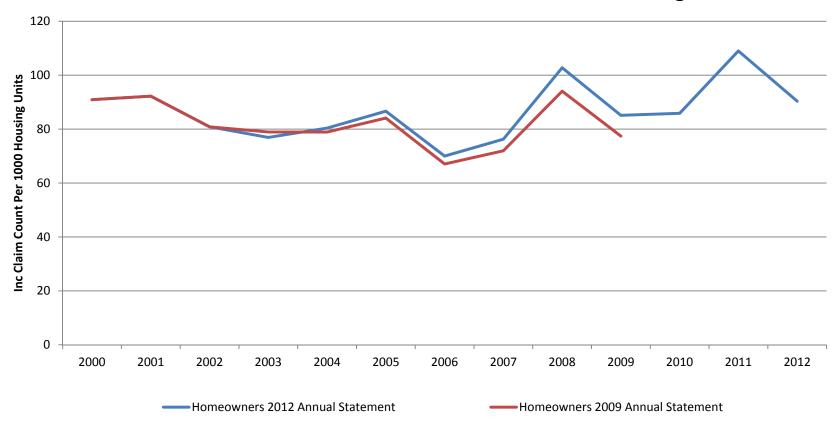
Excluding Cats

Source: ISO Circulars



Personal Property

Schedule P Homeowners and Farmowners Per Housing Units



Source: U.S. Department of Housing and Urban Development Schedule P Incurred Claim Counts Developed to Ultimate LDF's - Straight Average



Property

- With the Recession More Large Fire Losses from HO, BOP, and CMP Business
 - Budget Constraints
 - Not Maintaining Buildings (ex: electrical fire by neglecting to fix electrical problems)
 - Less Staff (ex: kitchen staff doesn't clean as well leading to kitchen fire)
 - Possible Arson
- Increased Catastrophe Exposure
 - "Minor" Cats
 - Commercial Flood Losses

