CAS Seminar on Reinsurance

Workers' Compensation Market Update - 2022

Brett King – New York Compensation Insurance Rating Board Lisa Walsh – Swiss Re

Bryan Ware – AmTrust Financial

June 13, 2022

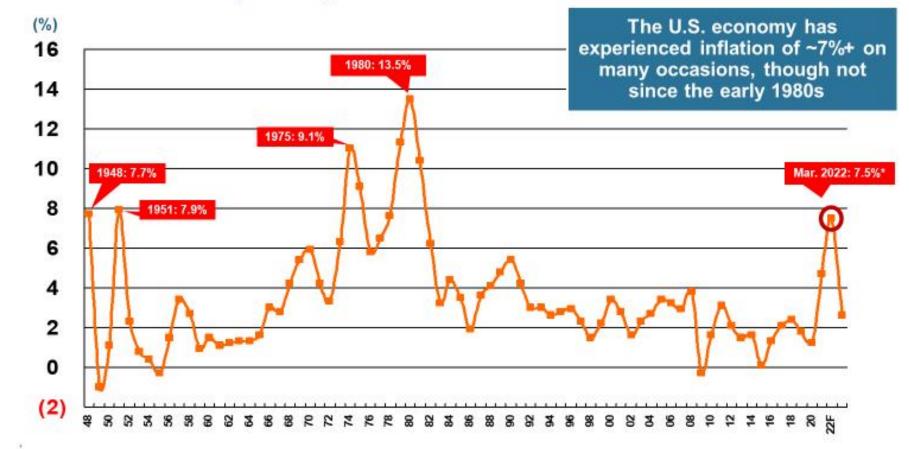


Is it time to fold?

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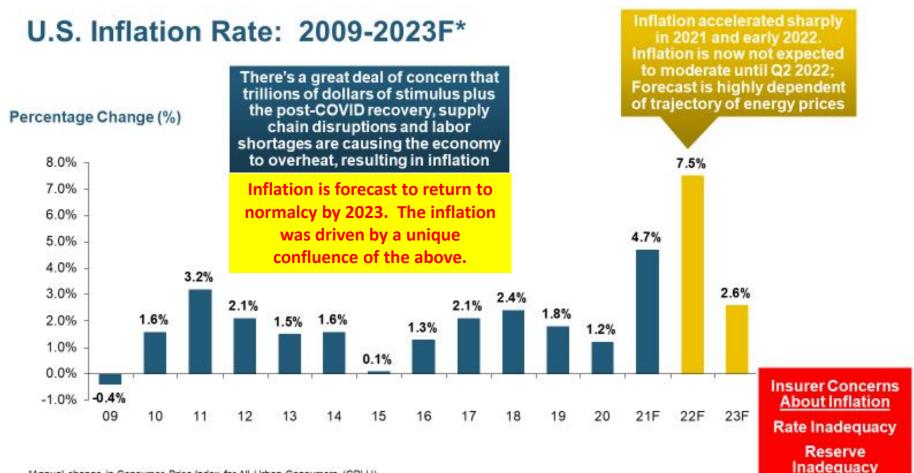
- Inflation
- COVID
- Age of Work Force
- Interest Rates
- Cycles
- Performance

INFLATION



Rate of Inflation (CPI-U), 1948–2023F*

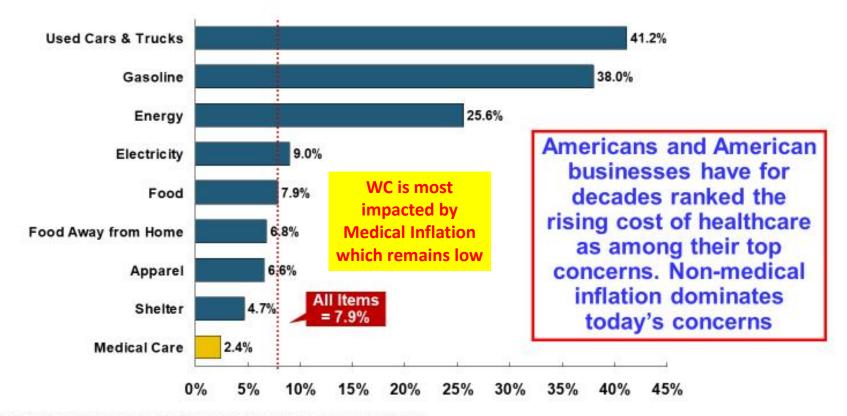
*2022/23 forecast are from (Wells Fargo Securities, Mar. 2022 forecast). Source: U.S. Bureau of Labor Statistics; Center for Risk and Uncertainty Management, University of South Carolina.



*Annual change in Consumer Price Index for All Urban Consumers (CPI-U).

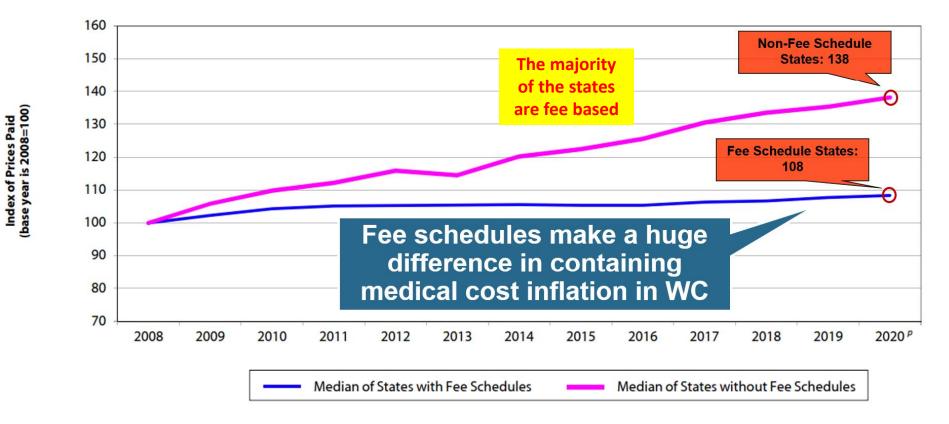
Source: U.S. Bureau of Labor Statistics; Wells Fargo Securities (3/22); USC Center for Risk and Uncertainty Management.

CPI and Select Components: 12-Month Change Ending Feb. 2022



Source: U.S. Bureau of Labor Statistics; Wall Street Journal accessed at: https://www.wsj.com/articles/usinflation-consumer-price-index-february-2022-11646857681

Trends in Prices Paid for Professional Services, 2008 – 2020: Median Index Value for Fee Schedule vs. Non-Fee Schedule States*



^{*}IA, IN, MO, NH, NJ and WI had no WC fee schedule in 2019 or 2020.

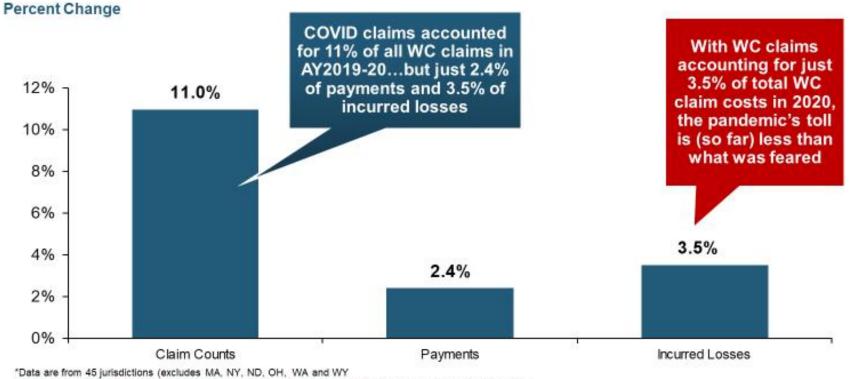
Sources: WCRI Medical Price Index for Workers' Compensation, 13th Edition (MPI-WC), Figure B.2.

Impact of Inflation

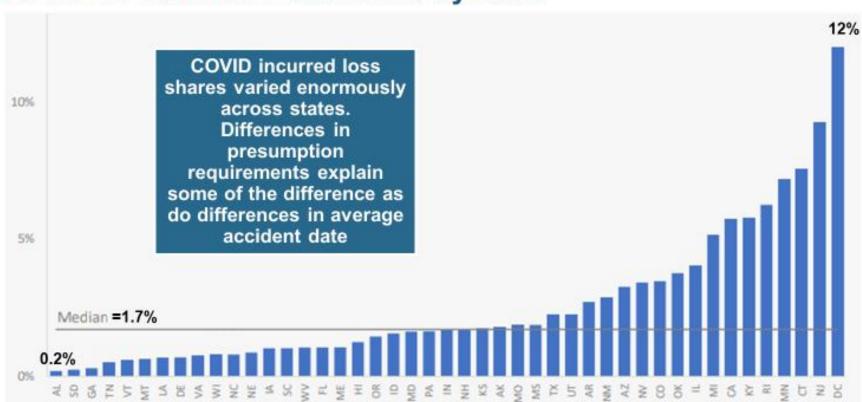
- Medical trends biggest driver stable and low
- Offsetting impact of utilization overall down; largest in pharmaceuticals per NCCI Medical Data Call
- More mature claims, pharmaceutical spend is the largest (ie the tail)
- Centers for Medicare & Medicaid Services demonstrate personal health care index 1% - 3% since 2012 and forecast a slight rise in medical inflation in 2023 and stabilizing between 2.5%-2.7% after

COVID

COVID-19 Shares of Claim Counts, Payments and Incurred Losses Since 2020



Sources: Covid-19's Impact on Workers Compensation: A Multi-Bureau Collaboration, accessed from NCCI at: https://www.ncci.com/Articles/Documents/Insights-COVID19-Impact-on-WC.pdf; Risk and Uncertainty Management Center, Univ. of South Carolina.



COVID-19 Incurred Loss Share by State

*Data are from 45 jurisdictions (excludes MA, NY, ND, OH, WA and WY

Sources: Covid-19's Impact on Workers Compensation: A Multi-Bureau Collaboration, accessed from NCCI at: https://www.pcci.com/Articles/Decuments/Insights.COVID19.Impact.op.W/C.pdf/. Eak and Uncertainty Measurement Center, Univ. of South /

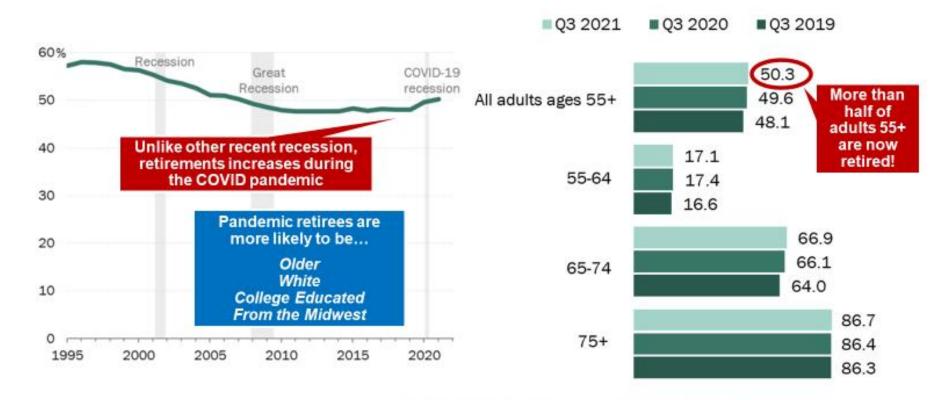
https://www.ncci.com/Articles/Documents/Insights-COVID19-Impact-on-WC.pdf; Risk and Uncertainty Management Center, Univ. of South Carolina.

Impact of Covid

- COVID was not the significant event anticipated for WC
- Ultimately could have a positive sustained impact on WC
 - Resulted in more teleworking reducing exposure
 - Resulted in more telemedicine reducing medical costs
- Some implications still being researched
 - Impact of deferred treatments
 - Impact on return to work and light duty programs
 - Development triangle implications
 - Long COVID

AGE OF WORKFORCE

Cumulative Percent Change in Number of U.S. Retirees, Jan. 2020 – Oct. 2021

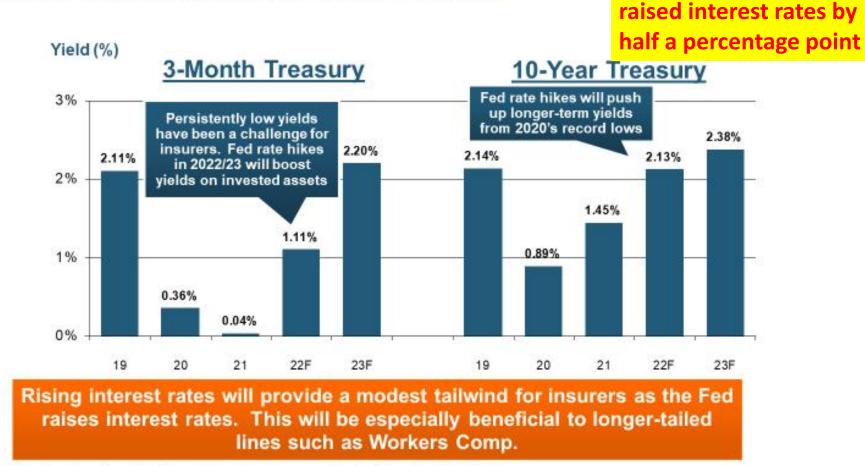


Sources: Pew Research Center from Current Population Survey data, accessed 3/14/22 at: https://www.pewresearch.org/fact-tank/2021/11/04/amid-the-pandemic-a-rising-share-of-older-u-saduits-are-now-retired/ft 2021-11-04 retirement 01a/; Risk and Uncertainty Management Center, University of South Carolina.

Impact of Younger Workforce

- Generally, claim frequency is higher for workers in their early twenties, late forties, and fifties.
- Claim severity is often lower for workers injured in their twenties than in other age groups
- Older workers more prone to work-related injury stemming from slips, trips or falls and more likely to have numerous conditions that may increase the propensity for job-related accidents
- Older workers have longer recovery periods following injury
- Claimants in their forties and fifties filed more claims that exceeded \$100,000 than claimants in other age groups.

INTEREST RATES



Interest Rate Forecasts: 2019 – 2023F

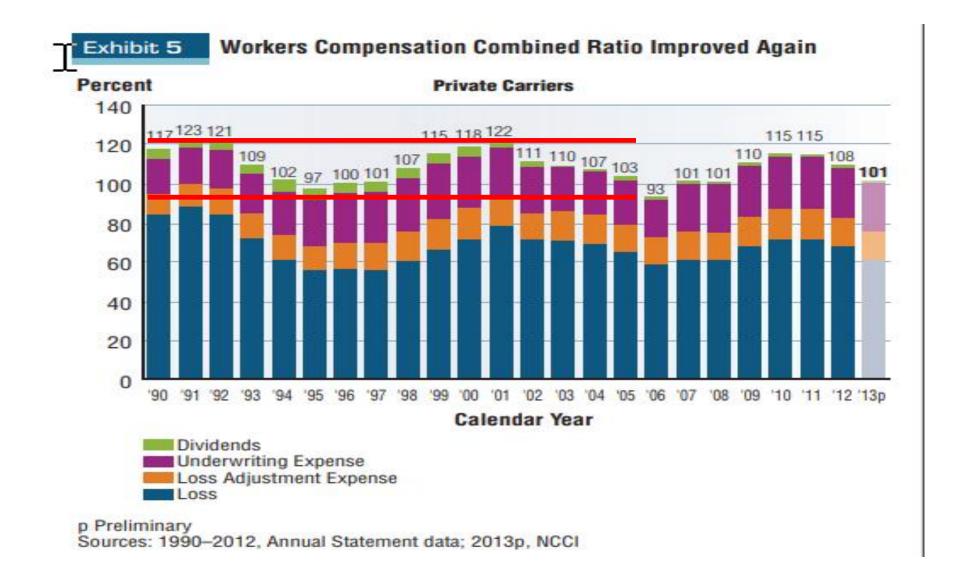
Sources: Wells Fargo Securities (3/22); Risk and Uncertainty Management Center, University of South Carolina.

5/4/22 Federal Reserve

Impact of Interest Rates

- As one of the longest tail line, WC will benefit the most
- The impact of a small change can be significant on economics

CYCLES

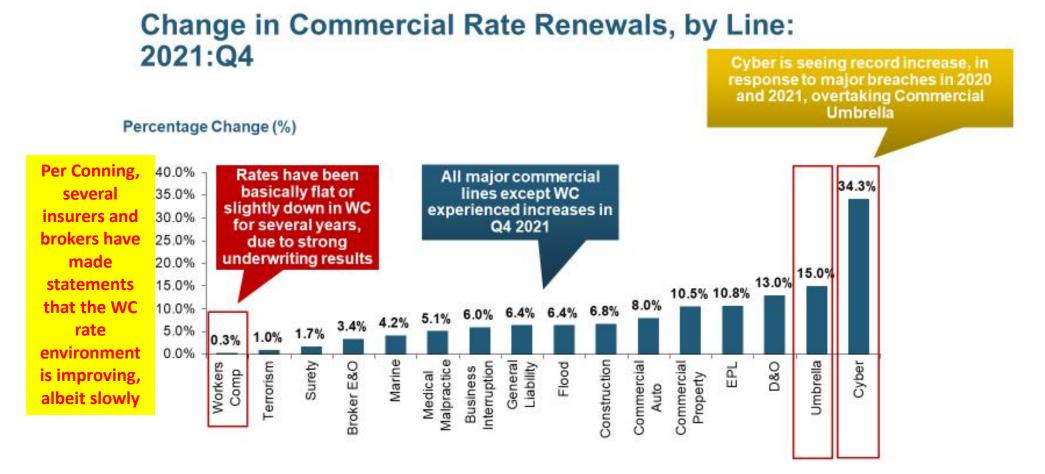


Workers Compensation Combined Ratio: 1994–2022F



with COVID Despite COVID and Major Labor Force Disruptions

Sources: A.M. Best (1994-2009 and 21E-22F); NCCI (2010-2020) and are for private carriers only. 2020 NCCI figure is preliminary.

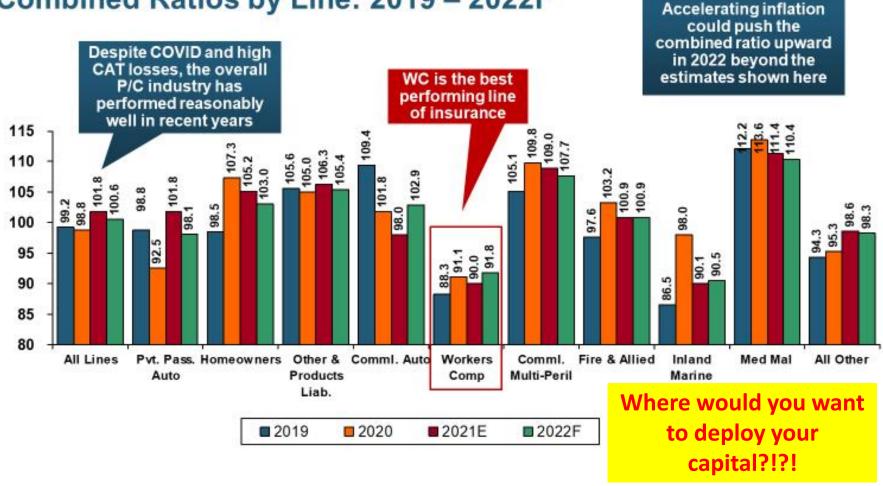


Note: CIAB data cited here are based on a survey. Rate changes earned by individual insurers can and do vary, potentially substantially. Source: Council of Insurance Agents and Brokers; USC Center for Risk and Uncertainty Management.

Causes of improved performance

- Changing economy that is moving toward industries with lower claim frequency
- Reforms enacted in many states in the 1990s resulting in safer workplaces
- Reforms impacting pharmaceuticals/opioids
- Fee Schedules in most states tied to Medicare
- Since 2000, the change in indemnity claim severity has tracked the change in average wage quite closely
- Availability of cheaper generic pharmaceuticals
- Growth of provider networks
- Improved claims practices
- Increased use of telecommuting resulting in anticipated further decline in frequency
- Success of telemedicine during the pandemic suggests that it could be a more viable option going forward

PERFORMANCE



Combined Ratios by Line: 2019 – 2022F

Source: A.M. Best Review & Preview (Feb. 2022); Univ. of South Carolina, Risk and Uncertainty Management Center.

SUMMARY

- The WC Line Remains Among the Best Performing of all P/C lines
- It Is Not An Anomaly or Luck
- There Are Many Sustainable Factors That Have Contributed To Its Profitability
- High Inflation Is Not Affecting The Line Like Others
- The Biggest Driver Of Costs Is Medical Inflation Which Remains Relatively Stable And Low
- Higher Interest Rates Will Have a Material Positive Impact on Economic Profitability
- NCCI believes there is significant redundancy in the reported AY C/R (9% for each 2018 and 2019)

Thank you

• And a special thank you to Robert Hartwig, the NCCI and a few others for all the great material I had to pull from to illustrate my point



Workers' Compensation Update 2022 CARe Meeting

Bryan Ware





Inflation

- Current inflation (April) is 8.3%
 CPI
 - Medical Inflation is still close to 3%
- Driven by energy costs
 - Other sectors are increasing as a result
 - Vehicles
 - Food
 - Shelter
- Social inflation isn't prevalent in Workers' Compensation



Source: Bureau of Labor Statistics

Components of Workers' Compensation Trend

- Lost Time Claim Frequency
- Medical Severity
- Indemnity Severity
- Wage Inflation



(1 + Frequency) * ((1 + Medical Severity) * (Medical Weight) + (1 + Indemnity Severity) * (Indemnity Weight)) (1 + Wage Growth)

Workers' Compensation Guards Against Runaway Inflation

- Regulated fee schedules
- Carrier negotiated fee schedules
- Settling claims
- No-fault system, with most claims not going through courts





AmTrust





What to Watch For

- Extended medical inflation
 - Will affect the losses for the year more than is reflected in the pricing
 - Can also affect runoff of prior years
- High wage growth
- Changes in the guards against runaway inflation

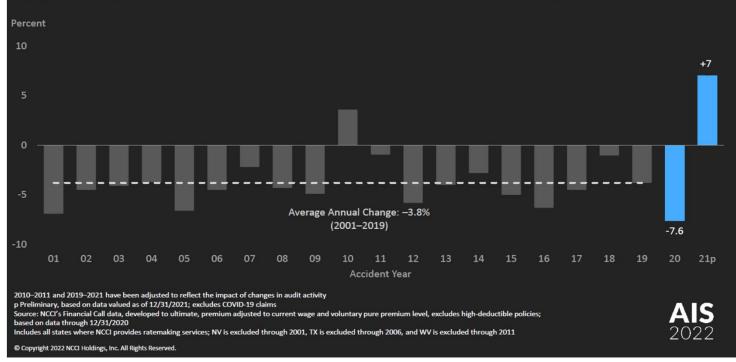


Bureau Activity

- 2022 Loss Cost (Rate) Filings
 - Most recent data is typically Policy Year 19 or Accident Year 20.
 - Latest year affected by COVID
 - Lower frequency than is typical
 - Severity is higher, but not offsetting
 - Bureau methodology produces frequency and severity trends by fitting to historic data
 - Then the selected trends are applied to the latest available data, some of which is artificially low due to COVID

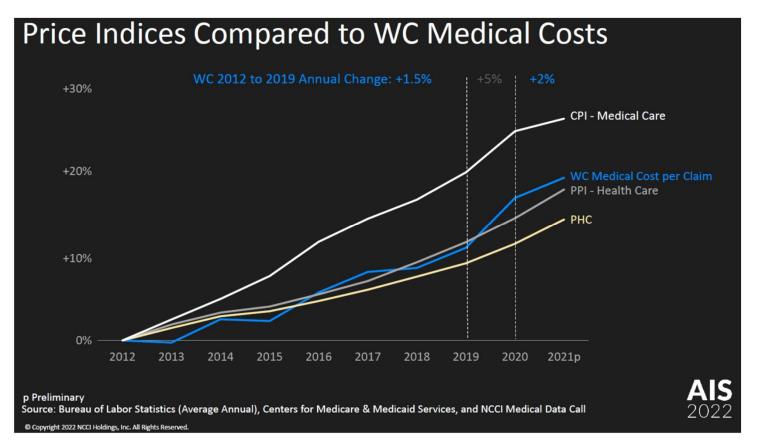
WC Lost-Time Claim Frequency

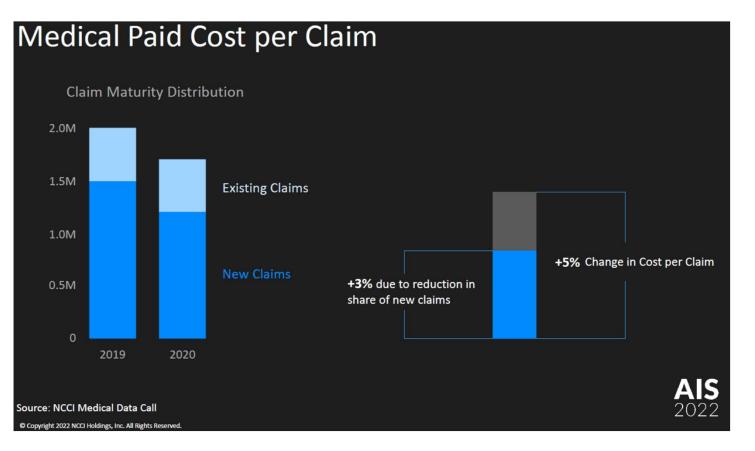
Change in Claims per \$1M Pure Premium, Private Carriers and State Funds—NCCI States, Excludes COVID-19 Claims











AmTrust



Thank You

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New York Experience Rating Changes Casualty Actuarial Society Reinsurance Seminar

New York Experience Rating Plan: Summary of Changes

<u>New Rating Worksheets</u> New Mod Formula Variable Split Points Novel Claim Count Caps First Year Transitional Mod Caps

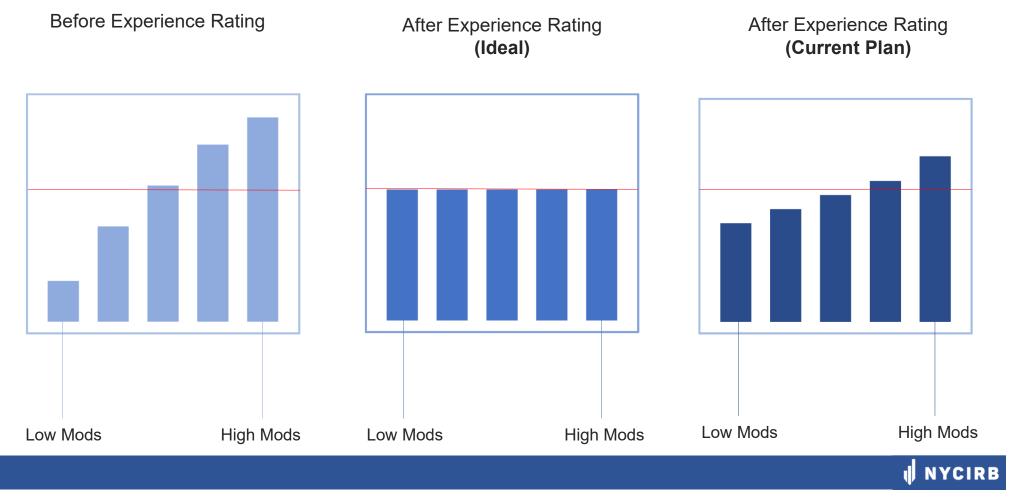
Other System Changes

Merit Rating Discontinued Interstate Ratings Won't Include New York Ownership Changes Directly to NYCIRB New York Specific Mod

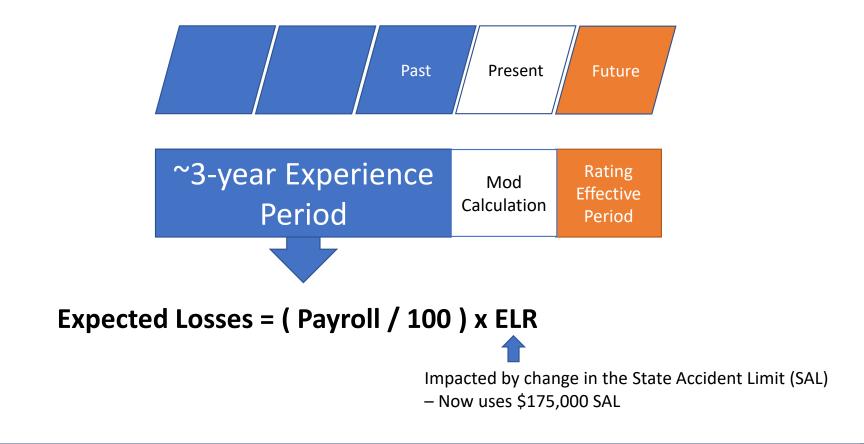
Employer's Perspective Educating Existing Experience Rated Employers Educating New Experience Rated Employers Appropriate Limitations Used Throughout Expected Impacts to Employer Mods Importance of Safe Workplaces

https://www.nycirb.org/experience-rating-transition.php

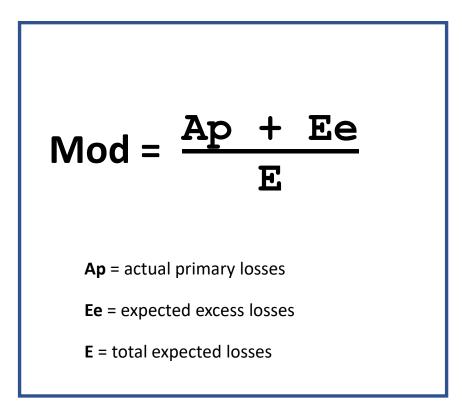
The Mods Role in Premium Equity



The Experience Period, Expected Losses, and the State Accident Limit

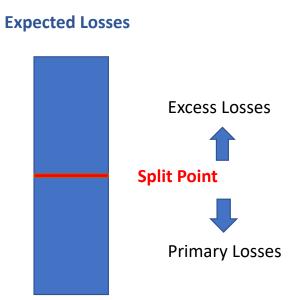


New York Experience Rating Plan: The Simplified Mod Formula

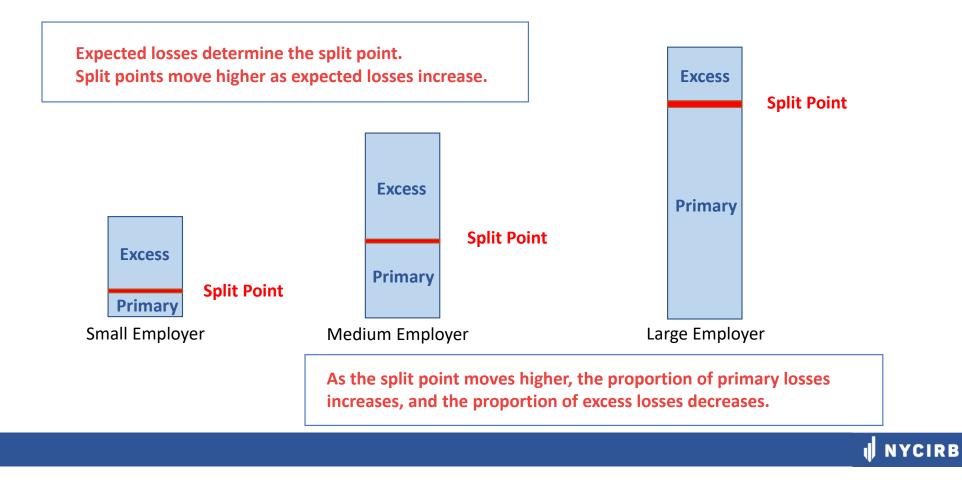




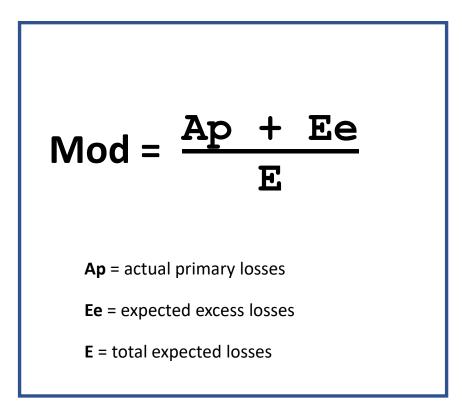




New York Experience Rating Plan: The Variable Split Point



New York Experience Rating Plan: The Simplified Mod Formula





Claim Count Caps

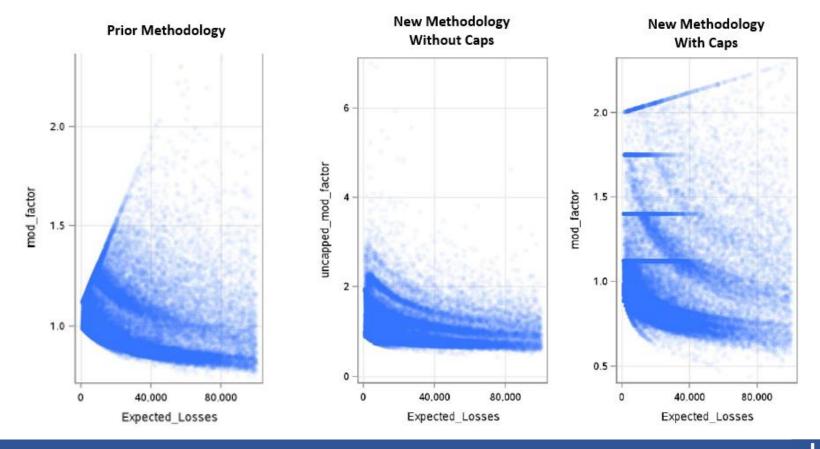
- 1 Claim Mod capped at 1.12
- 2 Claims Mod capped at 1.40
- 3 Claims Mod capped at 1.75
- 4+ Claims Mod capped by formula, resulting in a cap at just above 2.0 for the smallest risks, while permitting risks with approximately \$1M in expected losses to have mods as high as 5.0

Formula Mod Cap

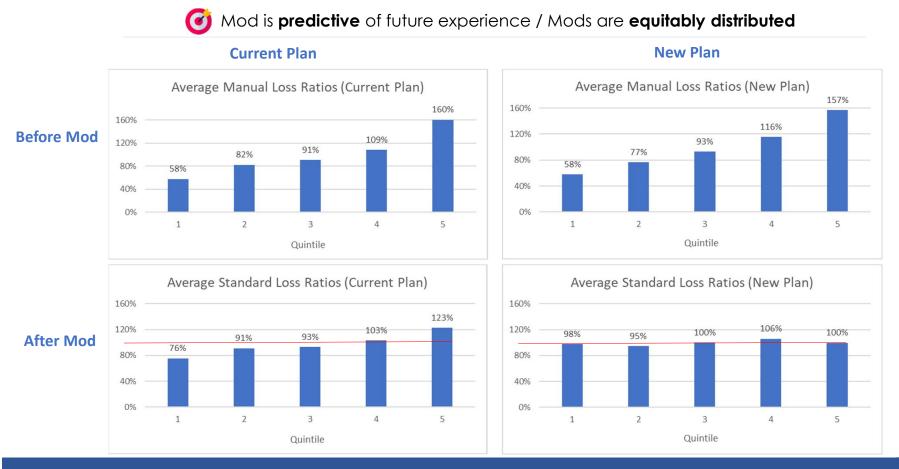
2 + (0.000003 x expected losses)



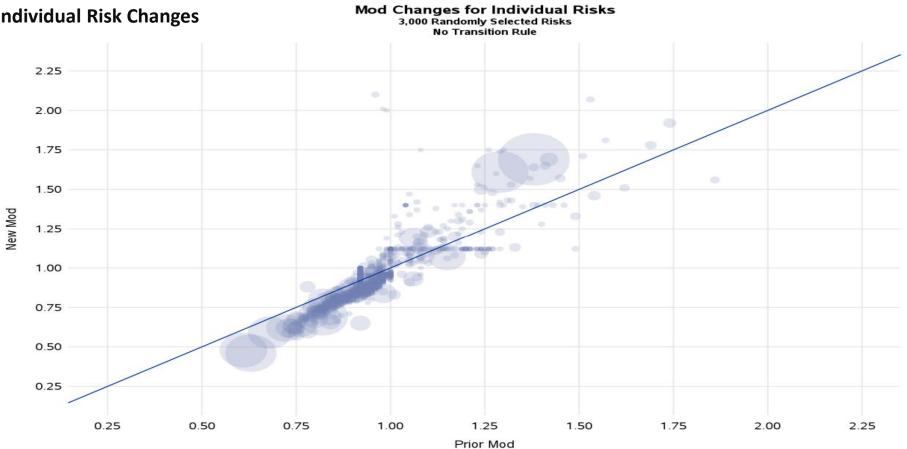
A Graphical View of Small to Medium Sized Risks



Premium Equity



Individual Risk Changes



Size of circle reflects expected loss size of risk

Question and Answer Time

Questions ???



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https://www.nycirb.org/experience-rating-transition.php