

2019 CAS RPM Seminar Auto Trends

Kevin Hughes, Actuarial Consultant

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Loss Trends

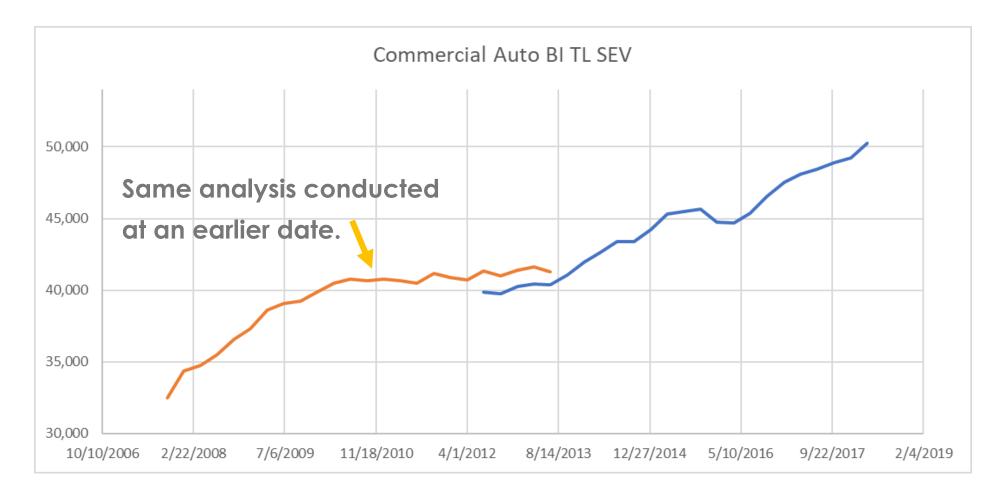
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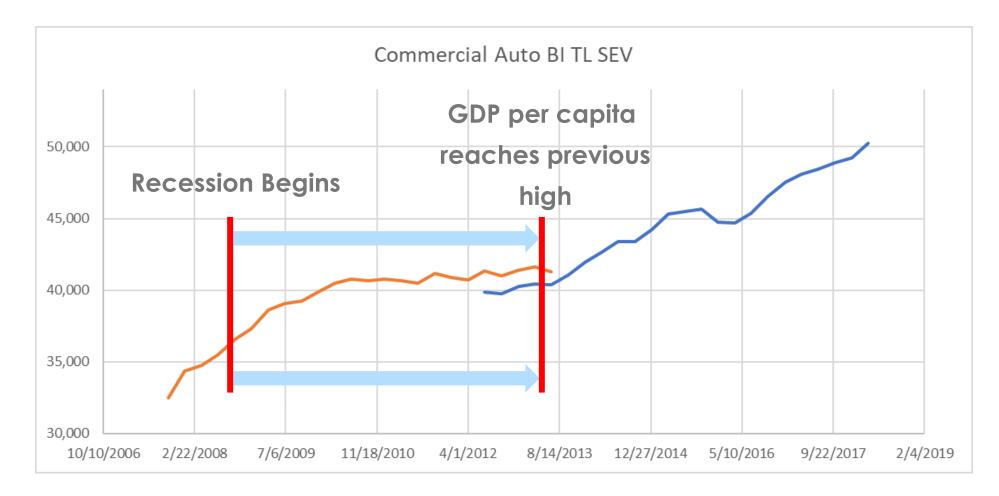
Data Characteristics

- Calendar Year Paid Loss Trends
- Total Limits, ALAE included
- BI and PD Separately
- Severity and Frequency Separately
- Multiple Trend Analyses combined for a broader timeframe.

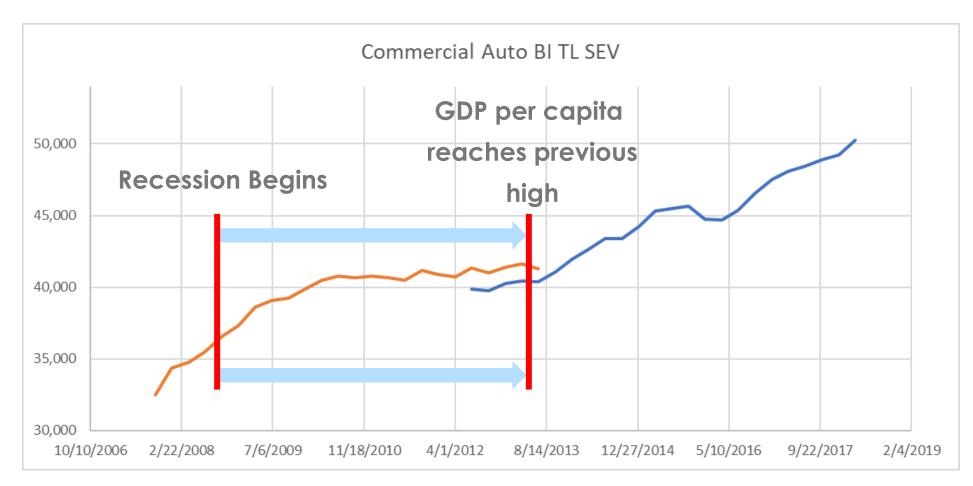
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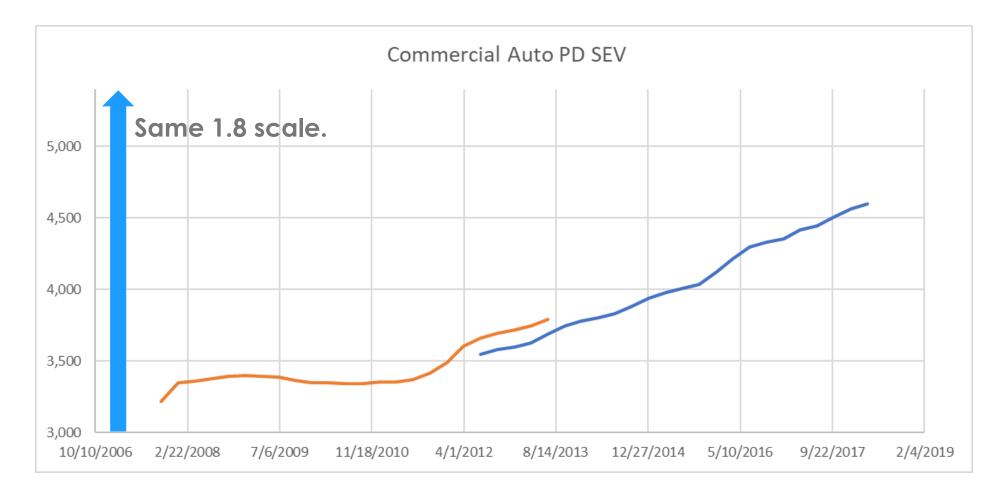


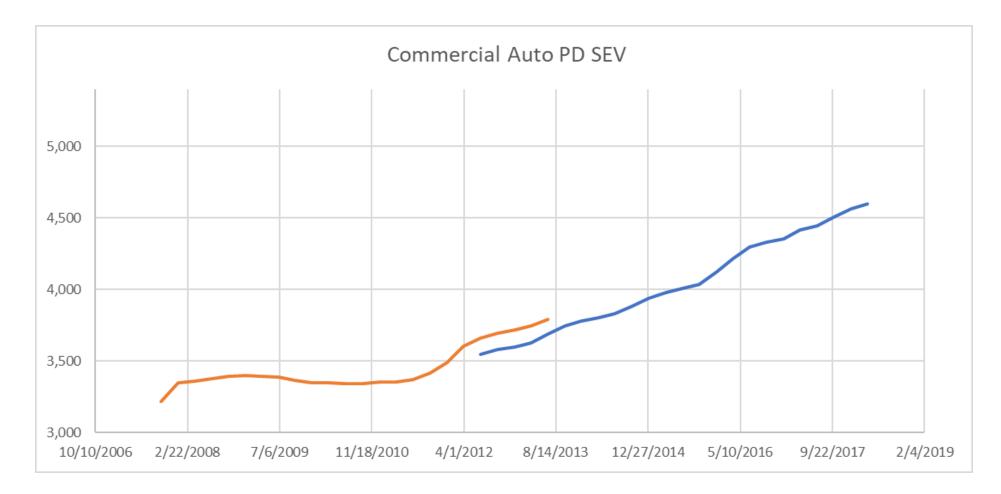
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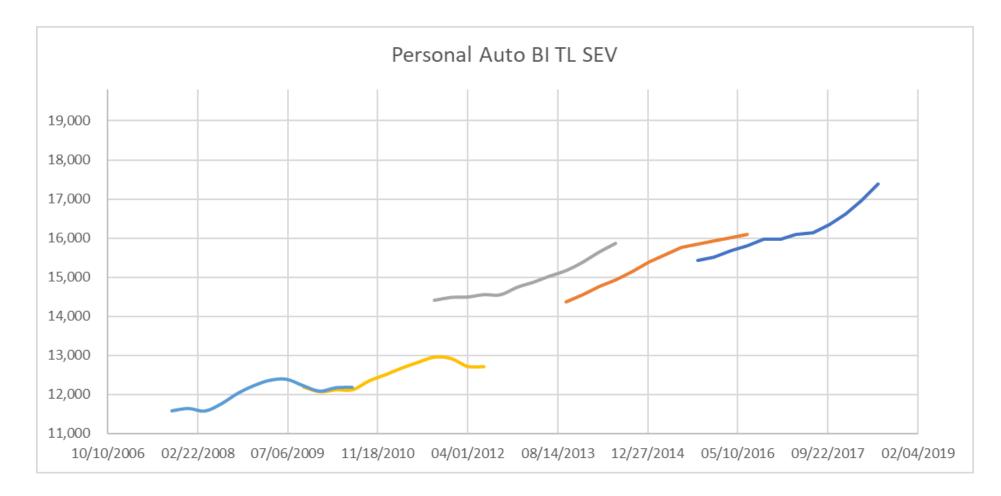


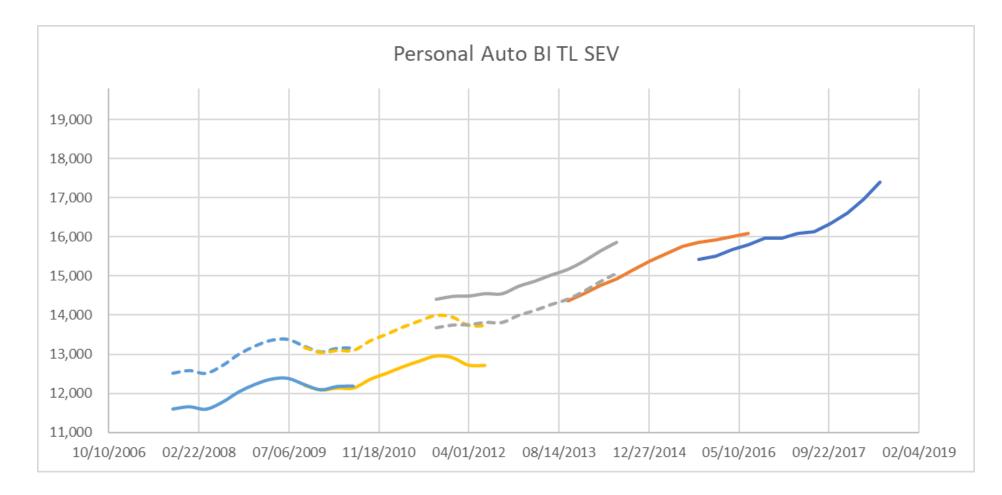
The Great Recession appears to have flattened the BI trend considerably.

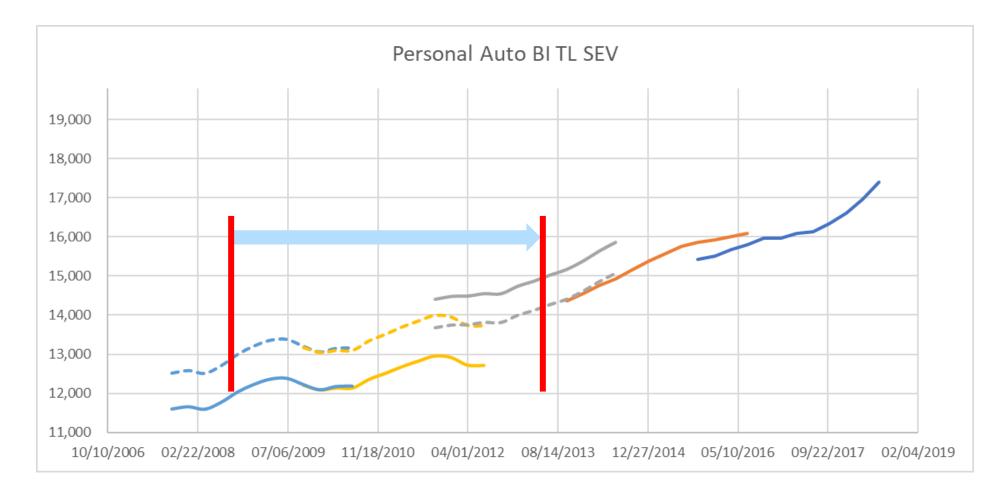
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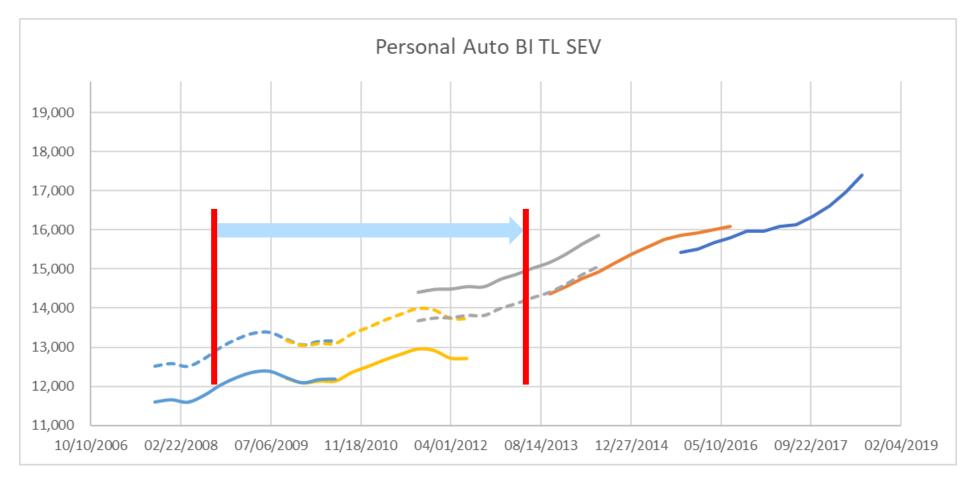




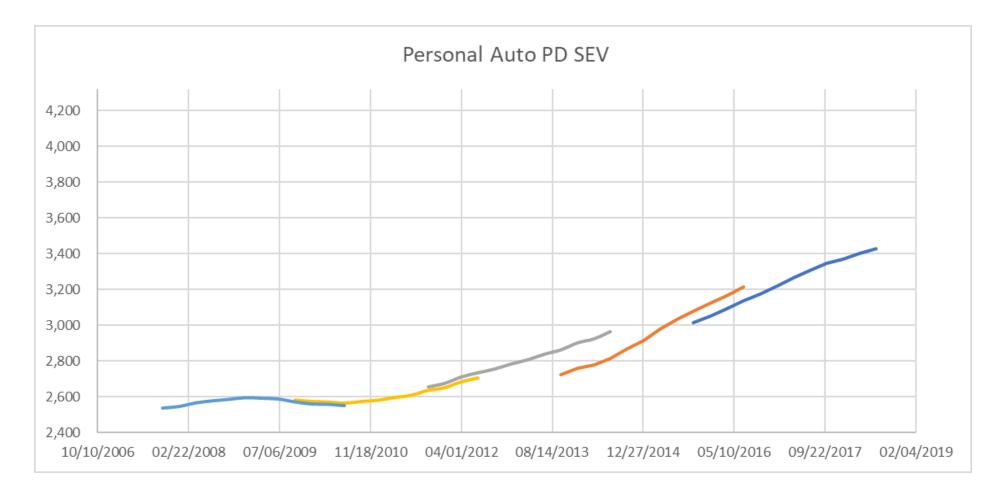


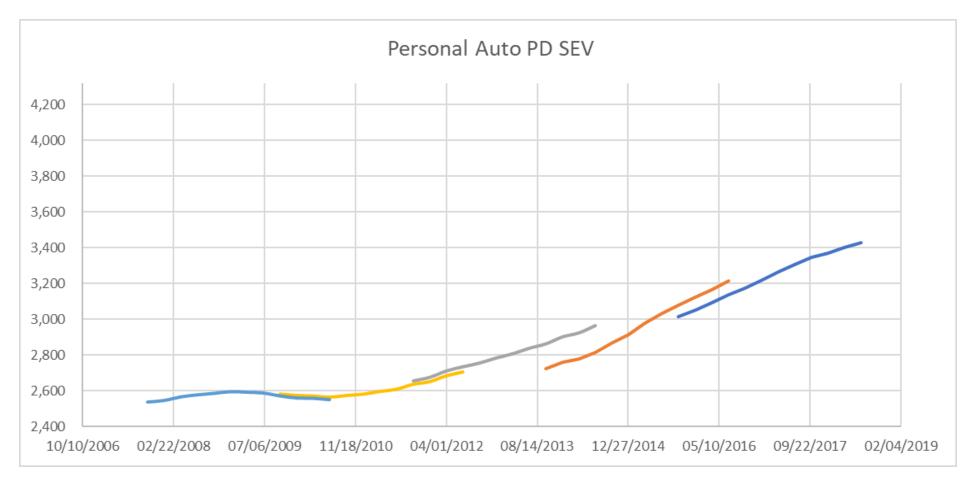






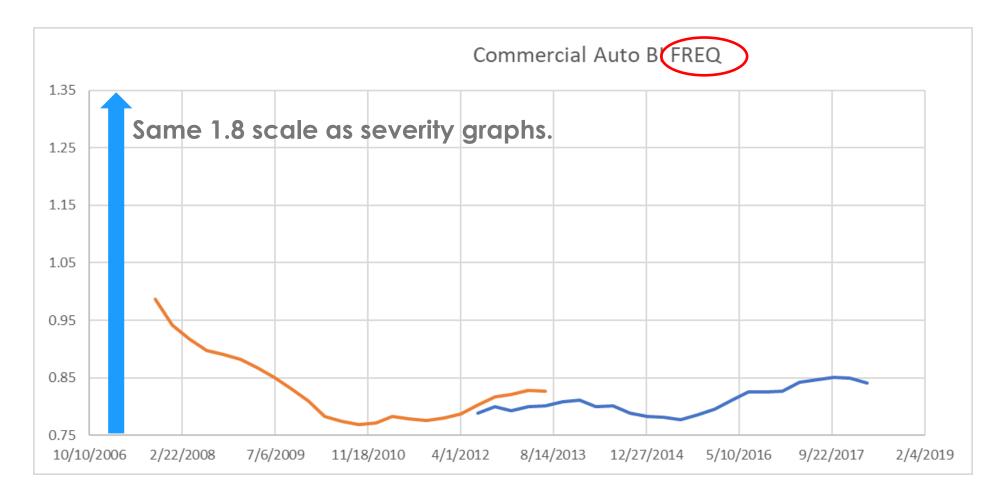
BI Severity Flattening Seems to be mostly a Commercial Auto phenomenon.



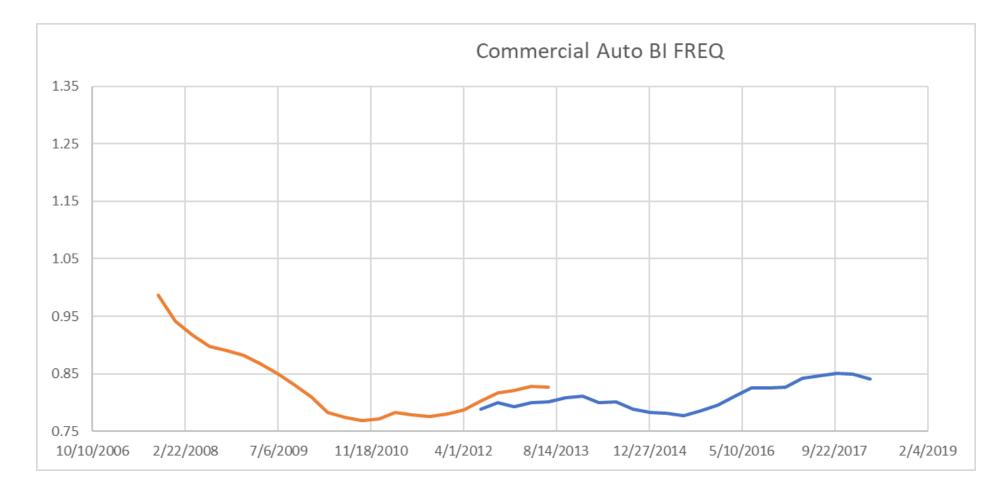


Commercial and Personal Auto PD Severity Trends look remarkably similar.

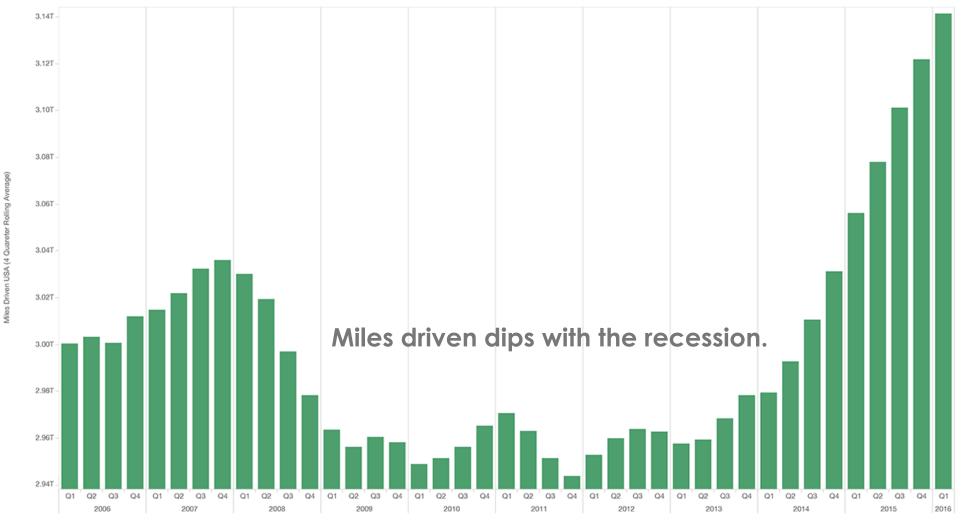
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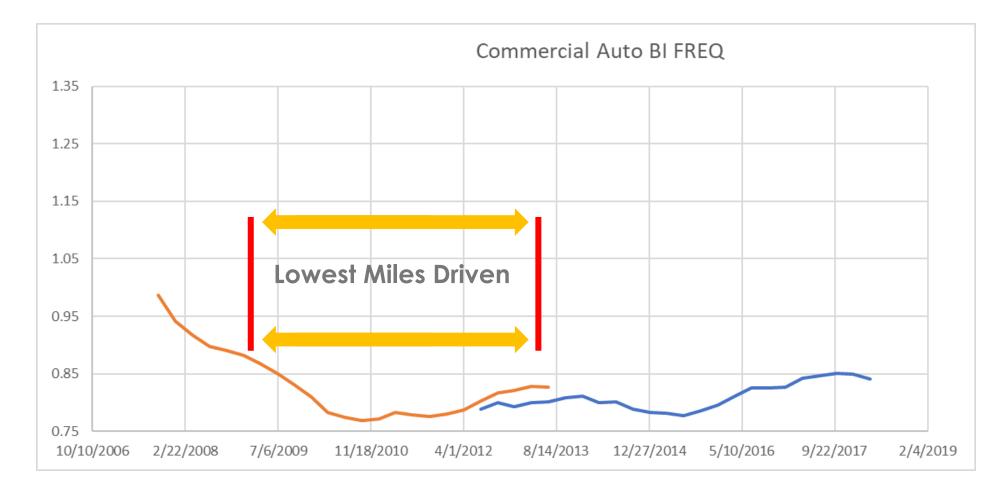
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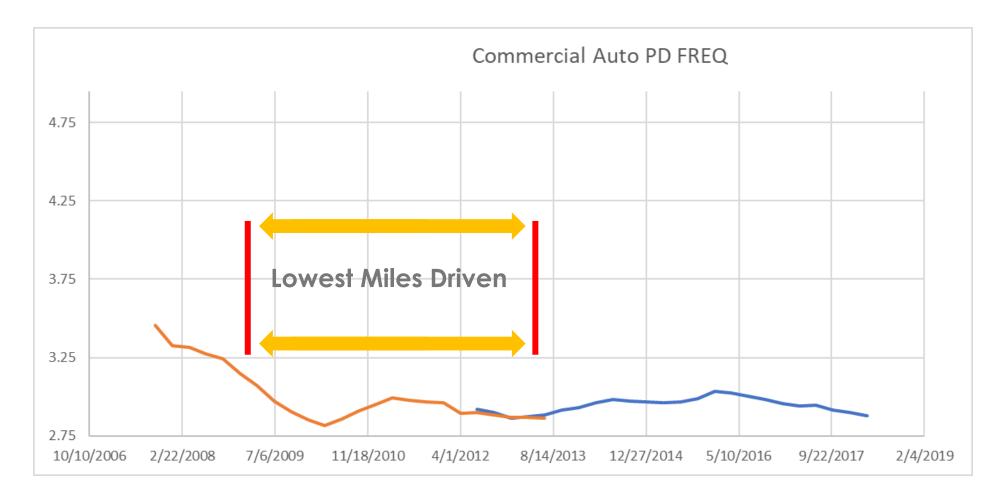


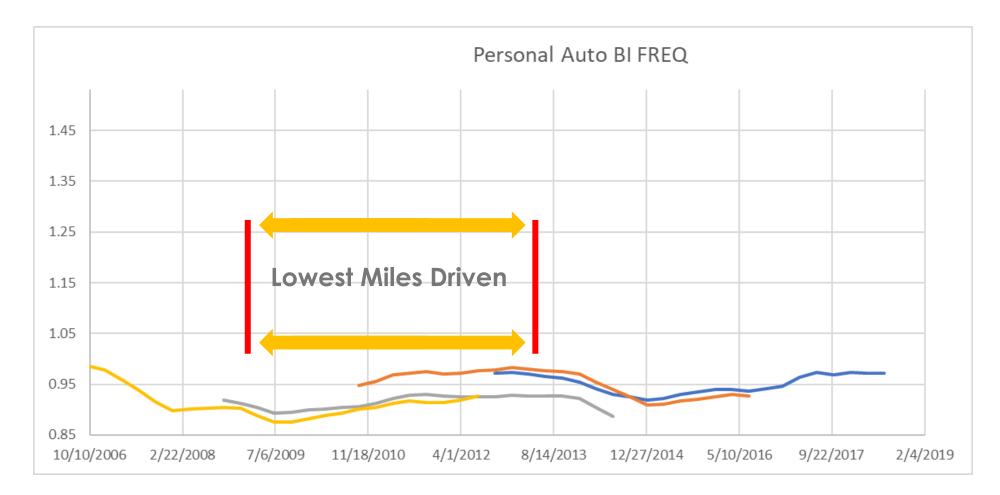
Total Miles Driven (USA)

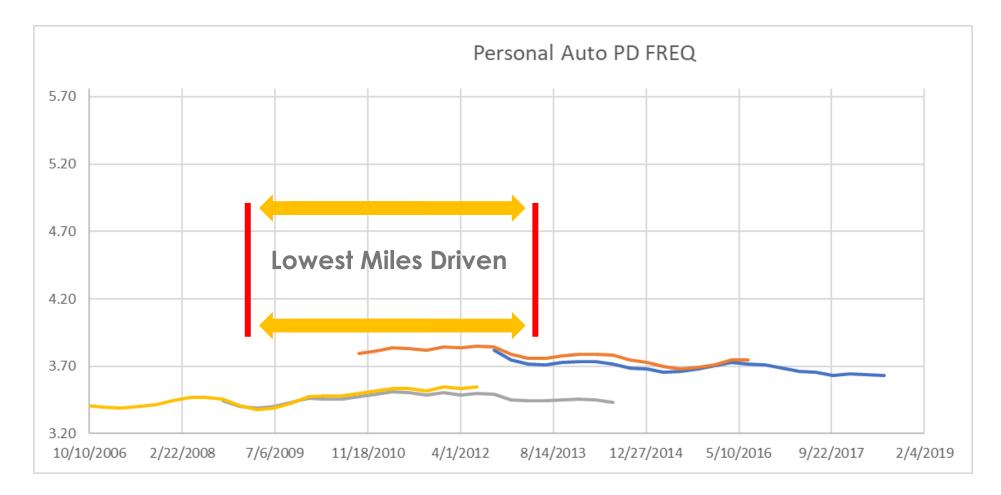


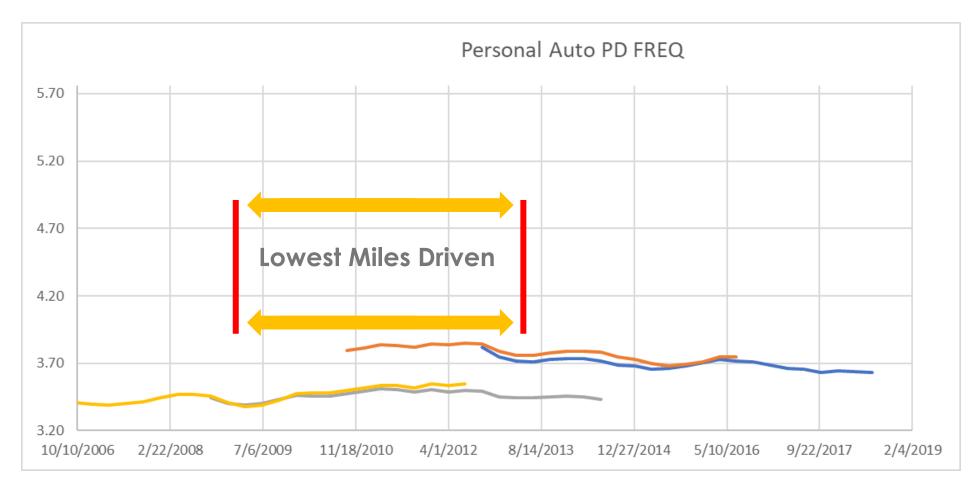
US Federal High Administration, Total Vehicle Miles Traveled, Moving 4 Quarter Average. Vehicle Miles Driven represented in trillions(T)











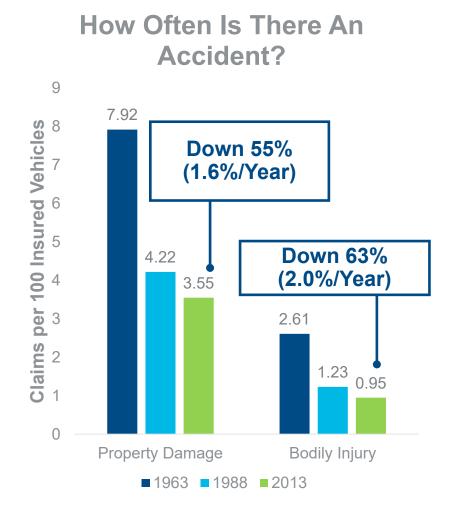
Across the board: Frequency did not rise with miles driven after the Great Recession.

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Across the board: Frequency did not rise with miles driven after the Great Recession.

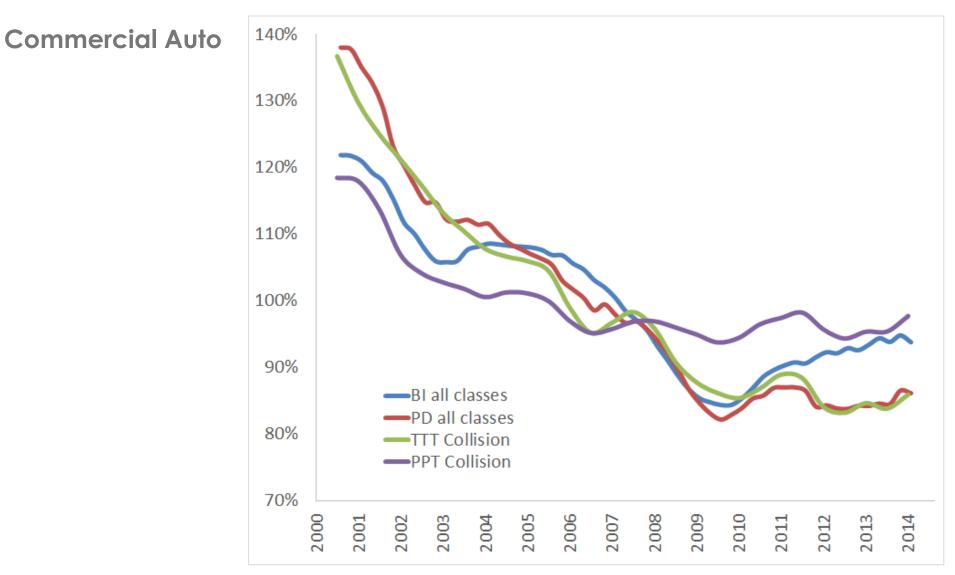
Some ideas why:

- Miles Driven is not Miles Driven Per Vehicle
- Congestion -> Lower Speeds
- New Safety Features

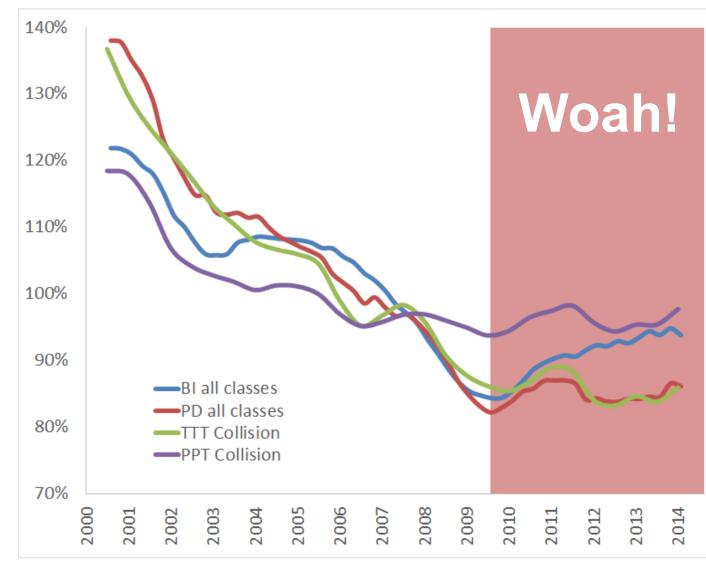


SOURCES: Insurance Institute for Highway Safety, Insurance Services Office, Insurance Information Institute.

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Commercial Auto





Loss Development

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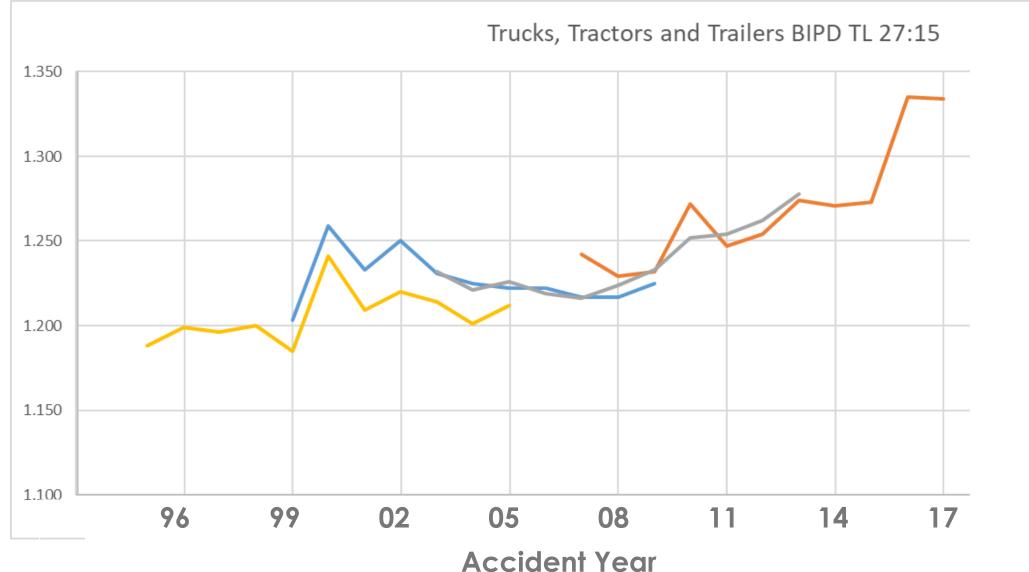
Disclaimer

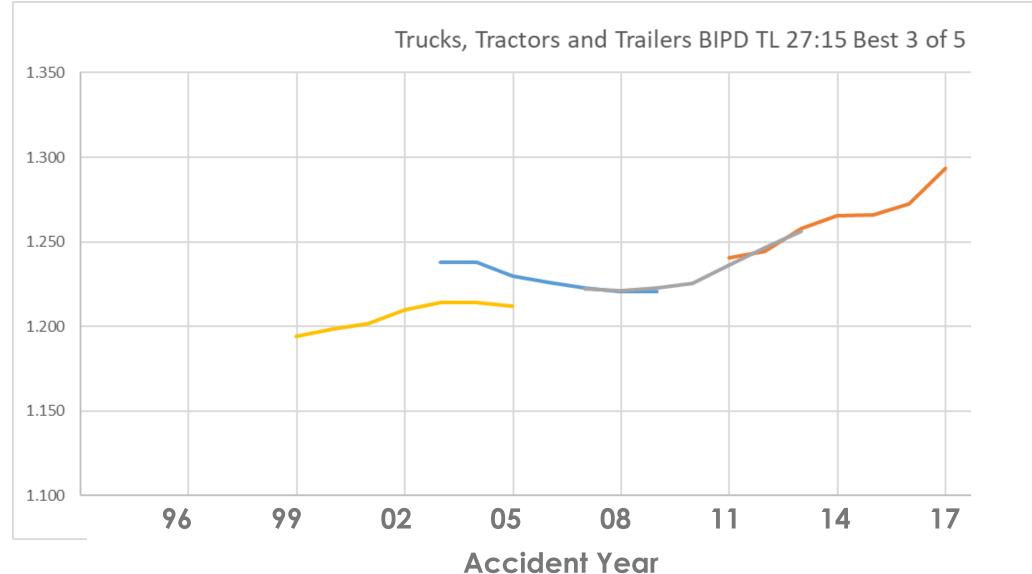
• Development patterns published by ISO are an average of many companies, whose reserving practices vary widely.

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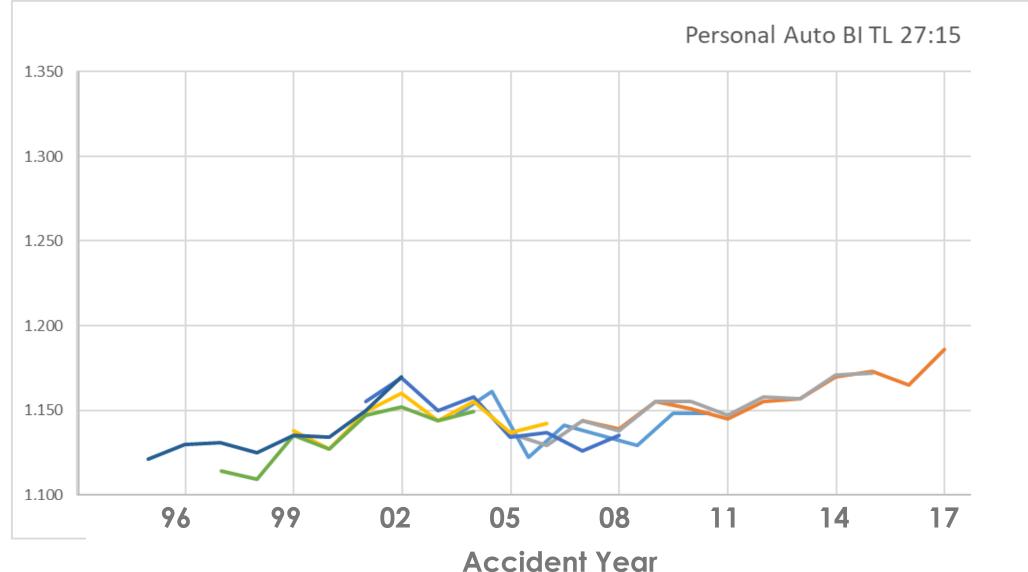
Data Characteristics

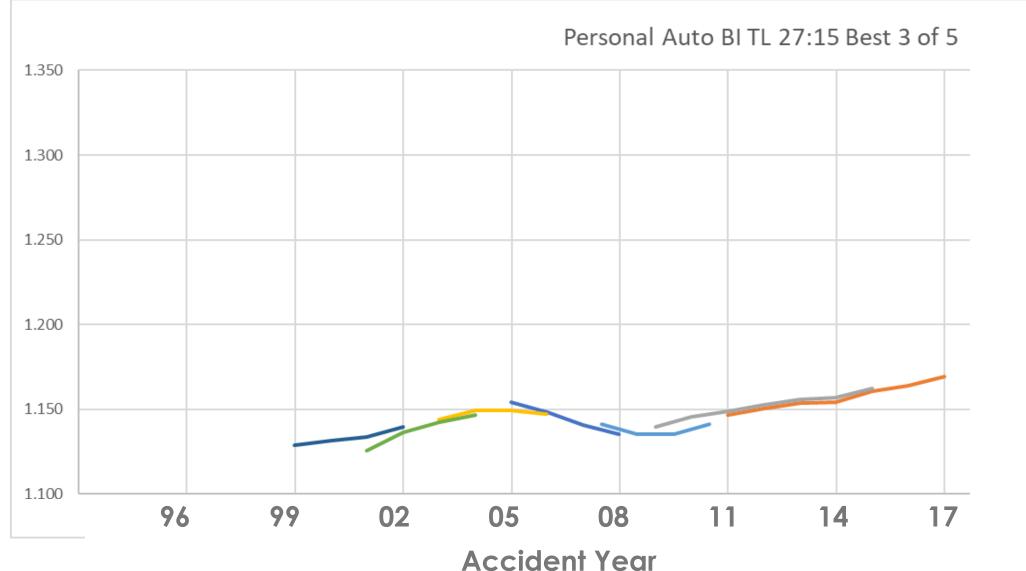
- Total Limits Liability
- Incurred Losses & ALAE
- 27:15 and 39:27 (First two columns of your typical triangle)
- Personal Auto: BI only // Commercial Auto: BIPD
- Commercial Auto: Trucks, Tractors and Trailers only
- Multiple studies combined to extend timeframe

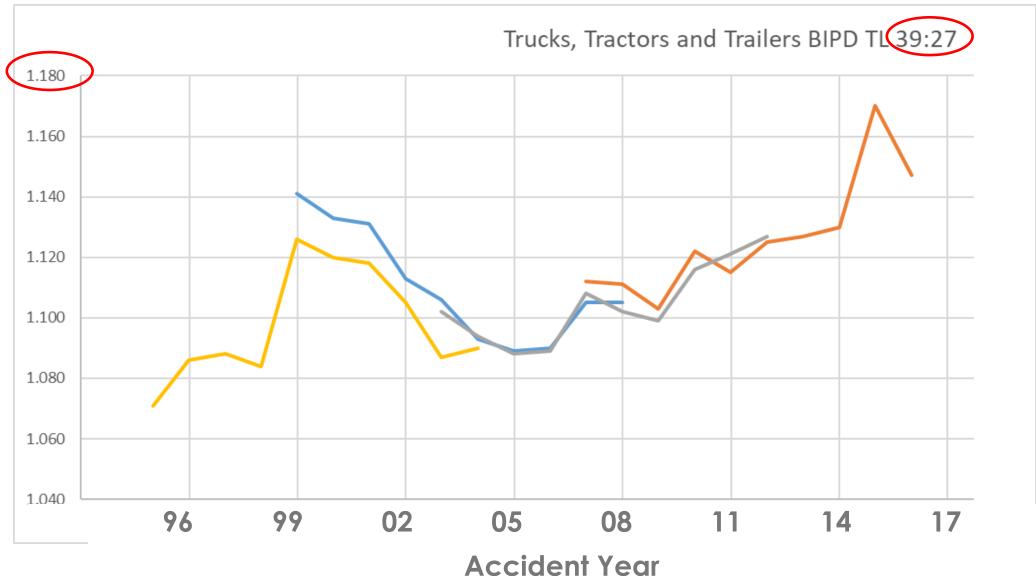


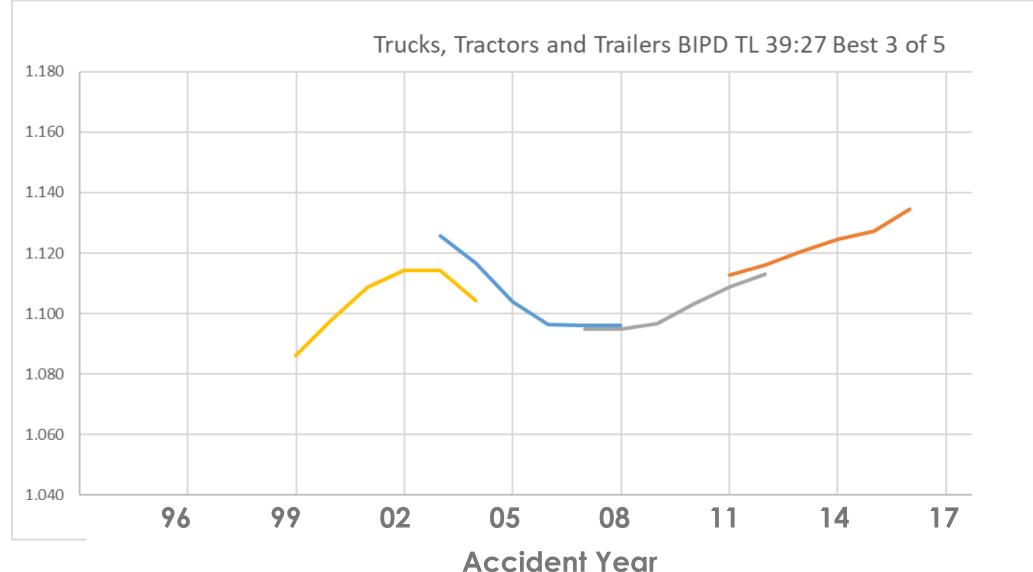


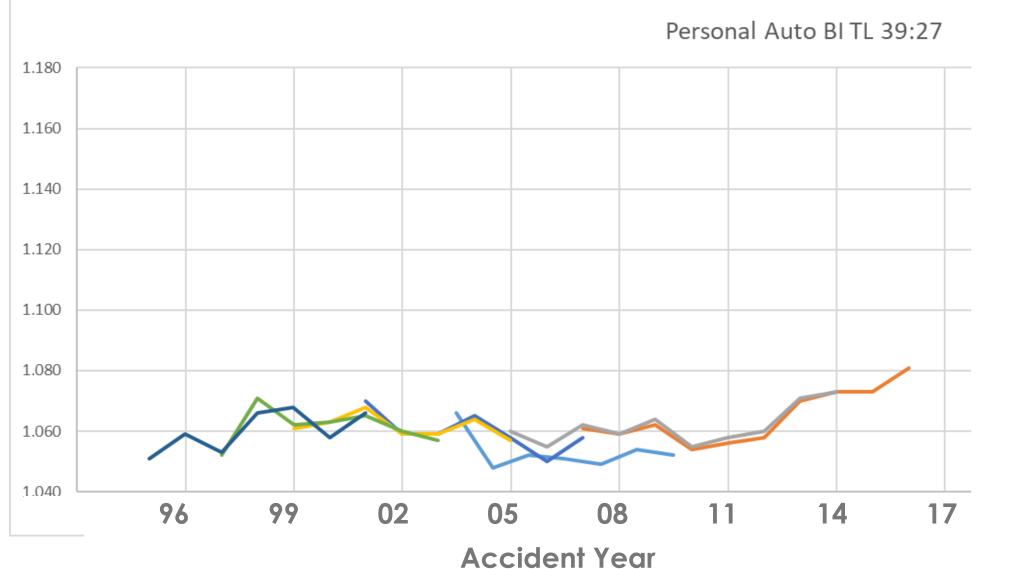
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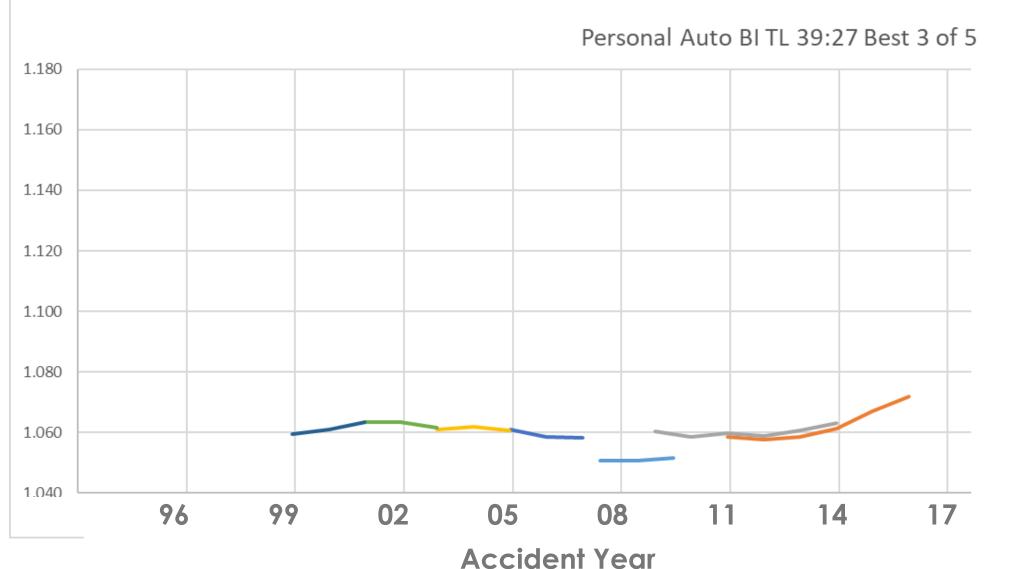


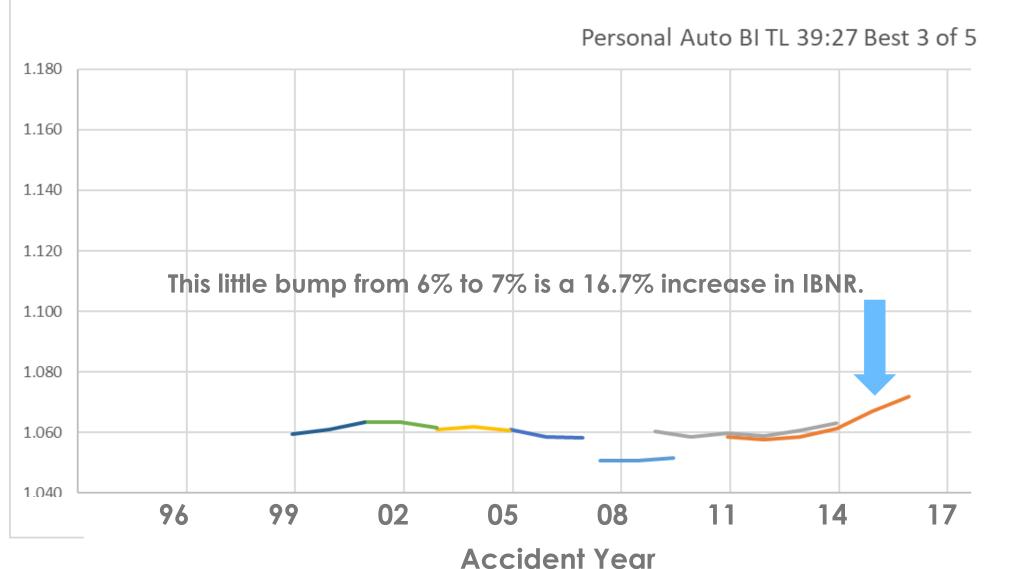




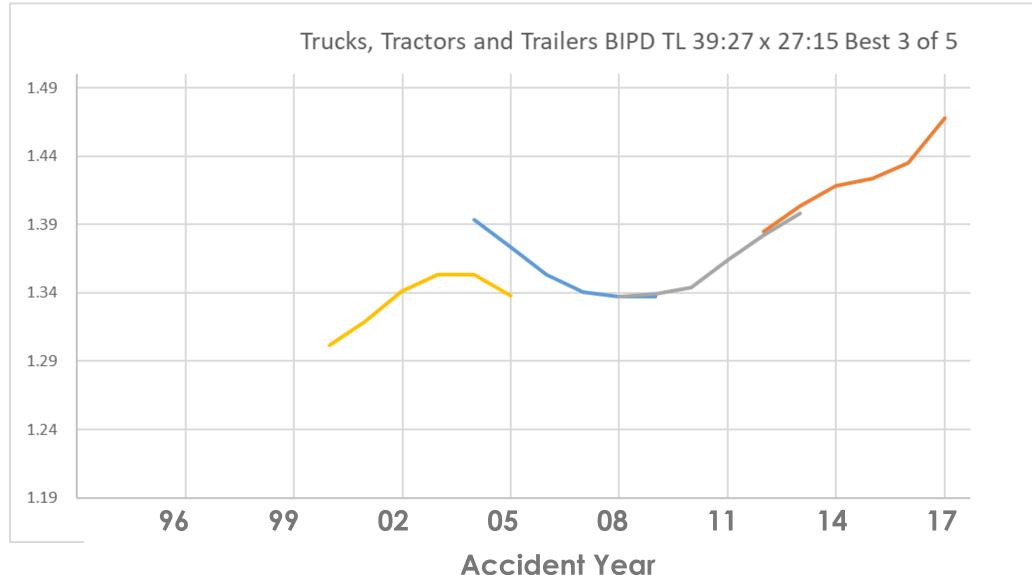


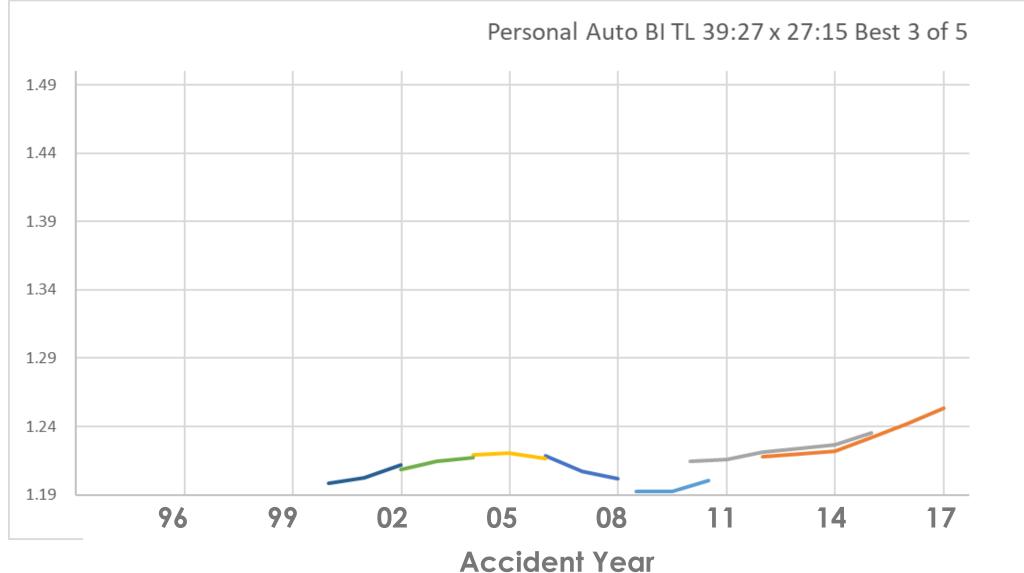






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Industry Combined Ratios

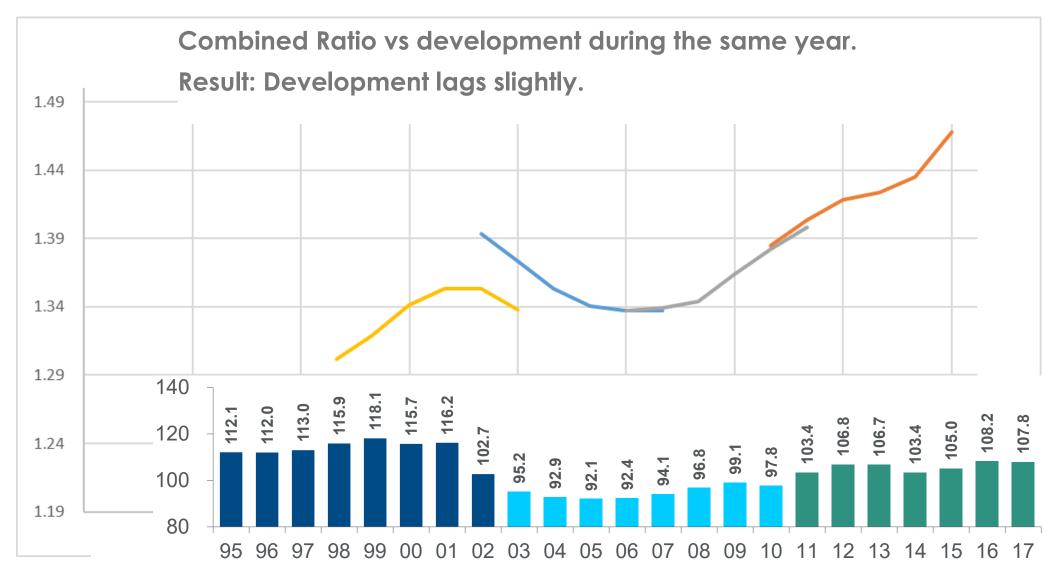
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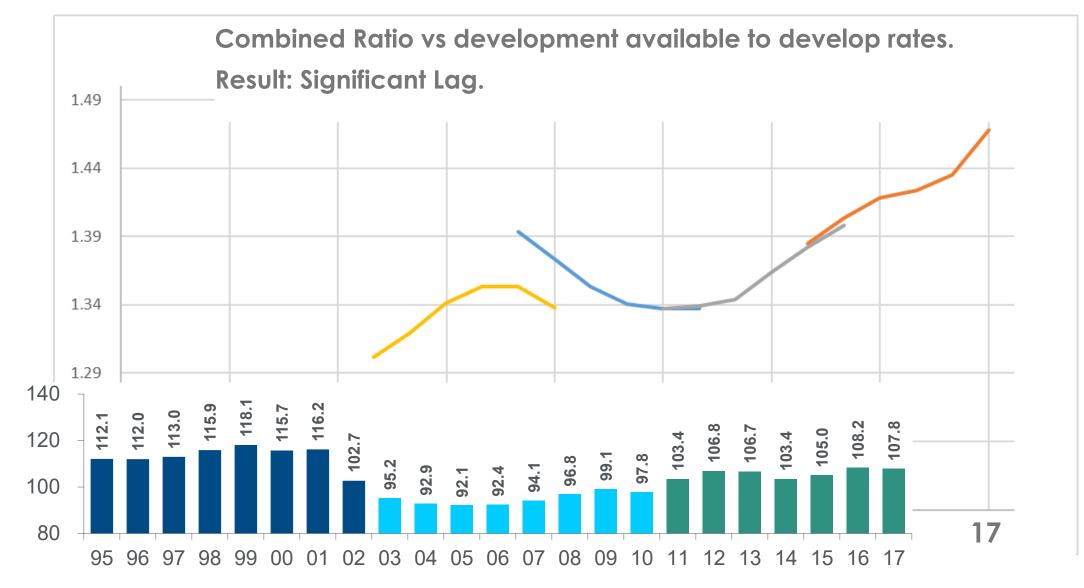
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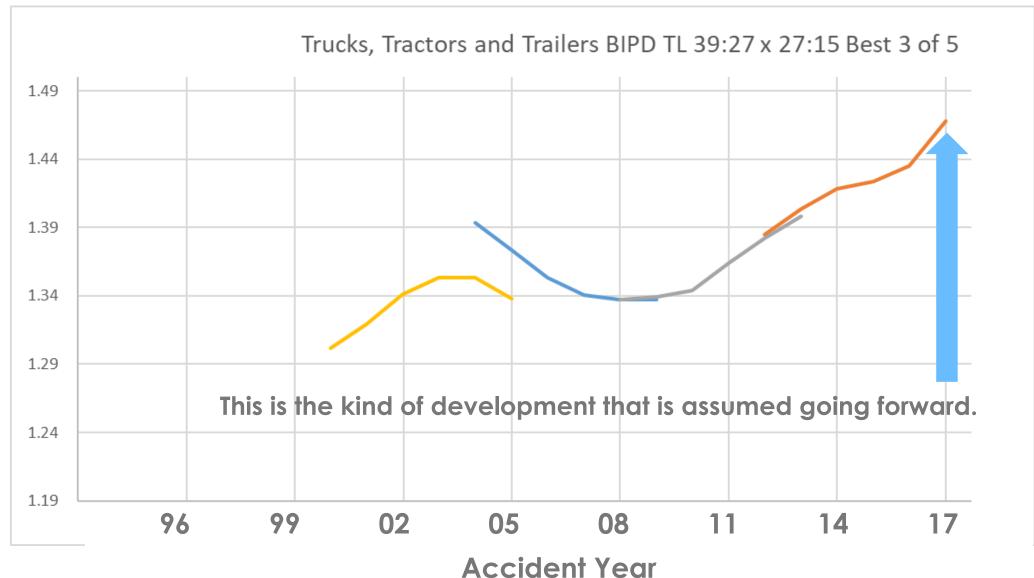
Do development swings predict this shape? (Spoiler: no)

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