

Nova Scotia**Commercial Vehicles****Oliver Wyman Selected Loss Trend Rates****Based on Industry Data Through December 31, 2018**

1. Selected Trend Rates - Summary

The following table presents our selected past and future annual loss cost trend rates as of December 31, 2018. We discuss and present our methodology and assumptions in selecting our trend rates in this report.

Table 1: Summary of Loss Trends

Coverage	Past Loss Cost	Future Loss Cost
Bodily Injury	+4.5%	+4.5%
Property Damage & DCPD	+0.0%	+0.0%
Accident Benefits	+0.0%	+0.0%
Collision	+7.0%	+3.0%
Comprehensive	+2.5%	+2.5%
Specified Perils	+2.5%	+2.5%
All Perils	+5.5%	+3.0%

2. Introduction

Loss trend rates are factors that are used to determine rate level indications. They are used to adjust the experience period estimated ultimate incurred losses to the cost levels that are anticipated during the policy period covered under the proposed rate program.

The application of trend rates is, essentially, a two-step process. The data in the experience period under consideration must be adjusted to reflect changes in cost conditions that have taken place (i.e., “past trend”), and then the data must be further adjusted to reflect changes in cost conditions that are expected to take place between the present time and the time during which the new premiums will be in effect (i.e., “future trend”).

Therefore, past trend rates should reflect the underlying trend patterns that occurred during the experience period, which we have assumed to be the three to five years ending December 31, 2018. Future trend rates should reflect those same patterns that occurred during the experience period, as well as the likelihood that those patterns may change.

We select trend rates based on historical Industry Nova Scotia claim experience as published by the General Insurance Statistical Agency (GISA)¹. The Industry data is organized by half-year, and in this report, we refer to the first half of an accident half year as XXXX-1 or XXXX.1 and the second half of the accident year as XXXX-2 or XXXX.2. So, for example, the accident half-year spanning July 1, 2018 through December 31, 2018 is referred to as 2018-2 or 2018.2. We combine the accident half-year data into annual periods.

The claim experience includes allocated loss adjustment expenses, and we include a provision for unallocated loss adjustment expenses (ULAE) based on the factors published by GISA.

We derive indicated annual loss trend rates based on an exponential regression model using Industry historical accident year loss and loss adjustment expense data that we project to an ultimate cost level (when all claims are reported and settled) using the Industry loss development factors we select.

3. Estimation of Industry Ultimate Loss and Claim Amounts

The Industry Nova Scotia experience upon which the loss trend rates are based must be adjusted to an ultimate claim count and loss amount level. We do so through the application of what are referred to as development factors to the reported claim counts and claim amounts, respectively, as of December 31, 2018. We select development factors based on a review of the Industry Nova Scotia loss development patterns; we do this by coverage. The data we use to select loss development factors and claim count development factors is the AUTO7002-2018 Industry Nova Scotia accident half-year² reported incurred loss and allocated loss adjustment expense (ALAE) and claim count data.³

Based on the data reported by insurers, GISA continues to advise users of the data to use caution. GISA notes there are changes to the historical data presented in this release due to the on-going corrections. GISA states⁴, *"A number of major writers have corrected their historically UNDERSTATED/OVERSTATED Incurred and Paid Claim counts for VARIOUS COVERAGES for Accident Half-Years 2014-1 to 2018-1. Users should take note of these corrections and exercise caution when using this data."*

Generally, we select the weighted average of the last six development factors, adjusted, where appropriate, to reflect seasonality evident in the 6 to 12 month development period,⁵ as we

¹ GISA outlines various data reporting issues, and as a result, GISA advises caution to the readers and users of the data.

² We use the terms "accident half-year" and "semester" (i.e., first semester or second semester; or the June semester or December semester) interchangeably in this report.

³ Our selections are based on the Incurred Method.

⁴ In AUTO 0003- Atlantic, p.2

⁵ The 6-12 month development period refers to the six months following the end of the particular accident half-year. For example, the 6-12 month development period for the 2016-2 accident half-year is the period spanning January

consider this selection to be a reasonable balance between responsiveness and stability.⁶ We refer to these selections as our default selections. For coverages with smaller data volumes, we select development patterns based on other coverages.

In Appendices A – D we summarize our selections:

Appendix A – presents our selected cumulative factors and basis for selection (e.g., weighted average of the last six development factors). Some minor exceptions to our default selections are for smoothing, or recognition of a changing pattern over the more recent time periods.

Appendix B – presents our selected ultimate loss costs, severity amounts, and frequency by accident half-year.

Appendix C – presents a summary of our selected factors, estimated ultimate losses, as well as a comparison to the selections made in our prior review.

Appendix D – presents a summary of our selected factors, estimated ultimate claim counts, as well as a comparison to the selections made in our prior review.

We note that the selection of development factors has an effect on the selected loss trend rates and other key assumptions, factors, and provisions.⁷ As a result of the claim experience that has emerged and the development factors we select, our estimates of ultimate loss costs, frequencies,⁸ and severities by accident year have changed from those we presented for the prior review. The changes are as follows:

1, 2017 through June 30, 2017. Other development periods referenced in this report (e.g., 12-18) are similarly defined.

⁶ If seasonality is evident, our default selection is the weighted average of the December 2014, December 2015, December 2016, and December 2017 semester 6-12 month development factors.

⁷ A summary of our selected ultimate loss costs, severity amounts and frequency by accident half-year are presented in Appendix B.

⁸ Number of claims per 1,000 insured vehicles.

Table 2: Bodily Injury

	As of December 31, 2017				As of December 31, 2018		
AY	Loss Cost	Severity	Frequency		Loss Cost	Severity	Frequency
2013	\$127.54	\$38,253	3.33		\$124.34	\$37,569	3.31
2014	\$136.73	\$44,595	3.07		\$140.06	\$47,832	2.93
2015	\$193.45	\$54,795	3.53		\$187.73	\$55,810	3.36
2016	\$190.20	\$51,198	3.72		\$163.91	\$44,922	3.65
2017	\$206.01	\$57,491	3.58		\$213.24	\$58,697	3.63
2018					\$161.85	\$58,978	2.74

Overall, for the five-year period 2013 to 2017, our estimates of ultimate loss costs have decreased by 2.9%. Our estimate of the ultimate loss cost for 2017 has increased by 3.5%.

Table 3: Property Damage (and DCPD)

	As of December 31, 2017				As of December 31, 2018		
AY	Loss Cost	Severity	Frequency		Loss Cost	Severity	Frequency
2013	\$89.08	\$6,240	14.28		\$89.86	\$6,294	14.28
2014	\$88.89	\$7,152	12.43		\$87.18	\$7,022	12.41
2015	\$118.34	\$8,775	13.49		\$117.54	\$8,675	13.55
2016	\$84.21	\$7,298	11.54		\$88.42	\$7,561	11.69
2017	\$87.69	\$7,397	11.86		\$91.65	\$7,801	11.75
2018					\$138.42	\$10,928	12.67

Overall, for the five-year period 2013 to 2017, our estimates of ultimate loss costs have increased by 1.4%. Our estimate of the ultimate loss cost for 2017 has increased by 4.5%.

Table 4: Accident Benefits

	As of December 31, 2017				As of December 31, 2018		
AY	Loss Cost	Severity	Frequency		Loss Cost	Severity	Frequency
2013	\$19.23	\$11,675	1.65		\$19.01	\$11,541	1.65
2014	\$17.43	\$9,430	1.85		\$16.08	\$9,071	1.77
2015	\$24.06	\$12,437	1.93		\$22.67	\$12,850	1.76
2016	\$15.93	\$8,695	1.83		\$15.01	\$8,312	1.81
2017	\$13.96	\$8,975	1.56		\$18.56	\$10,874	1.71
2018					\$20.71	\$11,892	1.74

Overall, for the five-year period 2013 to 2017, our estimates of ultimate loss costs have increased by 0.8%. Our estimate of the ultimate loss cost for 2017 has increased by 33.0%.

Table 5: Collision

	As of December 31, 2017				As of June 30, 2018		
AY	Loss Cost	Severity	Frequency		Loss Cost	Severity	Frequency
2013	\$139.37	\$6,145	22.68		\$139.37	\$6,145	22.68
2014	\$136.65	\$7,304	18.71		\$136.65	\$7,649	17.87
2015	\$149.72	\$7,642	19.59		\$150.00	\$7,937	18.90
2016	\$186.48	\$10,221	18.24		\$187.17	\$10,420	17.96
2017	\$185.10	\$9,347	19.80		\$185.58	\$10,130	18.32
2018					\$183.25	\$9,936	18.44

Overall, for the five-year period 2013 to 2017, our estimates of ultimate loss costs have increased by 0.2%. Our estimate of the ultimate loss cost for 2017 has increased by 0.3%.

Table 6: Comprehensive

	As of December 31, 2017				As of December 31, 2018		
AY	Loss Cost	Severity	Frequency		Loss Cost	Severity	Frequency
2013	\$93.35	\$2,690	34.70		\$93.35	\$2,690	34.70
2014	\$92.94	\$2,667	34.85		\$93.14	\$2,716	34.30
2015	\$101.72	\$2,806	36.25		\$103.04	\$2,874	35.86
2016	\$109.50	\$3,170	34.54		\$109.09	\$3,163	34.49
2017	\$110.45	\$3,255	33.94		\$114.62	\$3,352	34.19
2018					\$103.17	\$3,059	33.72

Overall, for the five-year period 2013 to 2017, our estimates of ultimate loss costs have increased by 1.0%. Our estimate of the ultimate loss cost for 2017 has increased by 3.8%.

4. Selection of Trend Rates

The identification of the underlying trend patterns over the experience period is challenging because factors such as statistical fluctuation in the data points, changes in the underlying exposure, or abnormal weather conditions, etc., can make the underlying trend patterns difficult to discern. For this reason, we model the data several different ways in an attempt to identify the underlying trends during the experience period, and we review the data over time periods that are longer than the experience period as a means of increasing the stability of results from our estimation approach and the credibility of the data being analyzed. In addition, we consider models with and without certain data points to improve our understanding of the sensitivity of the calculated loss trend rate to the inclusion or exclusion of those points.

4.1. Time Period Considered

In this review, we present and consider the claim experience by accident year, spanning the twenty-year period from 1999 to 2018.

While we provide twenty years of experience data, we generally select trend rates considering the claim experience over the more recent years.

4.2. Weather Conditions

On occasion, an extreme weather condition, such as the level of rain, snowfall or wind can contribute to a change in the frequency or severity level. As a result, the time period with that associated extreme weather event could result in an exception to an underlying trend pattern. We considered the following weather events in our review:

- GISA notes the increase in the number of claims in 2015-1 is likely due to extreme weather in the Atlantic. However, the Nova Scotia commercial vehicle data is subject to

considerable volatility in part due to the small volume of risks and therefore it is more difficult to identify a change in the pattern that may be attributed to weather. Despite this, users should consider the impact weather events might have contributed to a time period that exhibits an exception to the general trend pattern.

4.3. Reform (Level Change) Parameter

The purpose of a reform or level change parameter is to isolate and, in a sense, remove the impact that reforms or other events had on the level of claim costs. This better allows the true underlying claim cost trend to be identified. The regression model we use to analyze severity, frequency, and loss cost trend patterns allows the inclusion of a parameter to reflect the impact that reforms or other events have had on claim counts and amounts.

- For Bodily Injury, we give special consideration to the 2008-1 to 2010-1 period where challenges to the Minor Injury Regulations (MIR) may have had an impact on the claims experience, which was then followed by the changes to the MIR in April 2010. In particular:
 - We consider a possible change in reporting pattern that might have occurred beginning January 2008 as a result of challenges to the Minor Injury Regulations - in particular, the Decision by the Supreme Court of Nova Scotia to uphold the Minor Injury Regulation released on December 15, 2009, and the Supreme Court of Canada's Decision on May 27, 2010 to refuse leave to appeal the Decision.
 - We consider Bill 52, an amendment to the Automobile Accident Minor Injury Regulations of the Insurance Act, enacted on April 28, 2010.
- We consider the Fair Act Insurance Reforms enacted on April 1, 2012, which introduced higher maximum benefit levels for Accident Benefits sub-coverages.
- Effective April 1, 2013, the DCPD coverage was introduced in Nova Scotia. We consider this change in our selected trend rates for both Property Damage (which includes DCPD) and Collision.

We note that in those cases where we select a reform or level change parameter, the reform/level change is to be applied to the data (severity, frequency, or loss cost – as appropriate) prior to the time period when the change is identified to have begun. In so doing, the reform/level change parameter adjusts the data prior to the change to the same "level" as the data following the change.

4.4. Data Points

We give special consideration to data points that we consider may have a material impact on the measured trends. However, we note that for certain coverages there were large year-to-year swings in the loss costs (in excess of +/-50%) that make the identification of unusual data points difficult.

4.5. Statistical Tests

We test the various trends that we model for statistical significance based on Adjusted R-squared values, p-values, and confidence intervals. As respects the Adjusted R-squared, we generally refer to values greater than 80% to be "high," values between 40% and 80% to be "moderate,"

and values below 40% to be “low.” We consider p -values under 5% to be “significant.” The confidence interval range presented represents a 95% probability level range.

4.6. Future Trend Rates

In selecting future trend rates, we adjust our selected past trend rates if there is evidence of new patterns emerging. If no future trend rate is noted in the discussion below, it should be assumed that our selected future trend rate is equal to our selected past trend rate.

A discussion of our selected trend rates follows. The various trend patterns that we review and associated statistical results are summarized in Appendix E for each of frequency, severity, and loss cost.

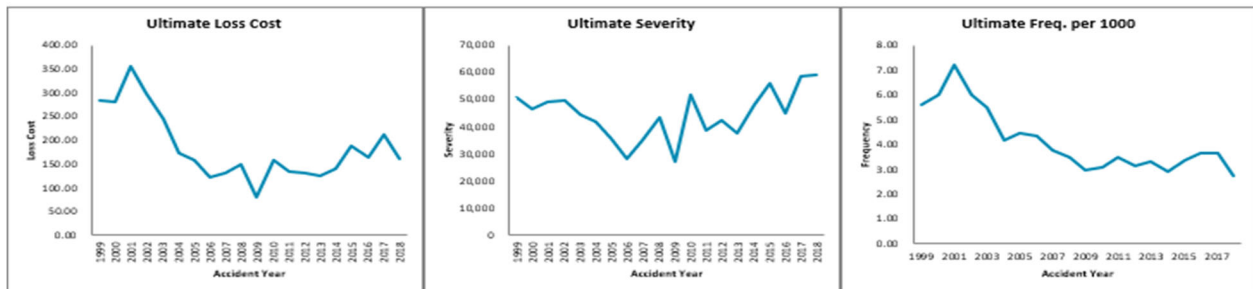
5. Our Selected Trend Rates

5.1. Bodily Injury

Based on our analysis as of December 31, 2017, we selected a past and future loss cost trend rate of +3.0%.

We estimate that during 2018 compared to the prior corresponding accident year (2017) the frequency rate, the average severity, and the loss cost changed by approximately -24.5%, -0.5%, and -24.1%, respectively.

The following graphs display our estimates of the actual loss cost (average claim cost per vehicle), average severity (average claim cost per claim), and frequency rate (average claim incidence rate) over the period 1999 through 2018.



As depicted in the above graphs, Bodily Injury claim costs have exhibited considerable variability – particularly severity. Subject to this variability: severity has generally trended upward since 2006, including sharp spikes and drops in 2008 - 2010, and an upward spike in 2015. Frequency experienced a declining pattern following the 2003 reforms until 2009. Following 2009, subject to variability, frequency is relatively flat. Loss cost sharply declined following the 2003 reforms, and other than the downward spike in 2009, appears to have remained relatively flat until 2014, after which an increasing pattern is emerging.

The high degree of loss cost variability is evident from the year-to-year percentage changes in estimated accident year loss costs as exhibited in the graphs above. Additional details are presented in Appendix B which includes the actual year-to-year percentage changes. As well, the changes in the estimated accident year loss cost between this review and our prior review contributes to the change in the measured trend rates between reviews even with the identical trend model (i.e., time period and parameters); the comparison between estimates of ultimate loss amounts from the prior review and this review are presented in Appendix C.

This variability causes the measured loss cost trend rates to change, and often rather significantly, depending upon the trend measurement period selected.

Although the introduction of Bill 52 in April 2010 would have affected the loss costs in 2010, we suggest the sharp increase (+96%) in 2010 is more due to data variability than to Bill 52, as the loss cost declined over each of the next three years.

Possibly due to the low volume of data (about 180 claims per year since 2009) and the variability in the data (which is likely attributed to the low volume), there is no statistical evidence of Bill 52 having an impact on claim costs as is the case for private passenger vehicles. As in our prior report, we make no explicit adjustment for Bill 52. Any change in claims cost for Bill 52 is implicitly included within our measured trend rates. In addition, we consider the trend rates after the 2003 reforms were introduced, due to the apparent change in trend pattern beginning in 2004.

The measured severity, frequency, and loss cost trends, associated Adjusted R-squared values, *p*-values, and confidence intervals over various trend measurement periods (ending 2016, 2017 and 2018 due to the data variability and the uncertainty of our estimates), with and without the 2009 data point (due to the large year over year changes noted above) are presented in Appendix E.

We make the following observations about these measured trends.

Most of the measured loss cost trends, with or without 2009 excluded, have *p*-values that are not significant for time and generally low Adjusted R-squareds. As such, and despite the noted low claim volume and data variability we consider the measured severity and frequency trend rates.

The severity trend rates over the longer time periods (beginning 2004 to 2010, and excluding the noted low 2009 year) have low-moderate Adjusted R-squareds and generally significant *p*-values; clustering around +3% to +4.5%. The severity trend rates over the shorter time periods (beginning 2011 to 2014) are higher, but with wider confidence intervals and are more limited in predictive value due to the immaturity and volatility of the data. We select a severity trend rate of +4.5%.

Some of the frequency trend rates over the longer time periods (beginning 2004 to 2005) have low-moderate Adjusted R-squareds and significant *p*-values; clustering around -1% to -2.5%. However, as the frequency trend rate appears to change to a flatter pattern beginning 2008-2009 and the associated regression statistics for all other trend periods are weak (insignificant *p*-values), we select a frequency trend rate of 0.0%.

We, therefore, select a loss cost trend rate of **+4.5% (based on separate observed frequency and severity trend rates)** one and a half points higher than our prior review.

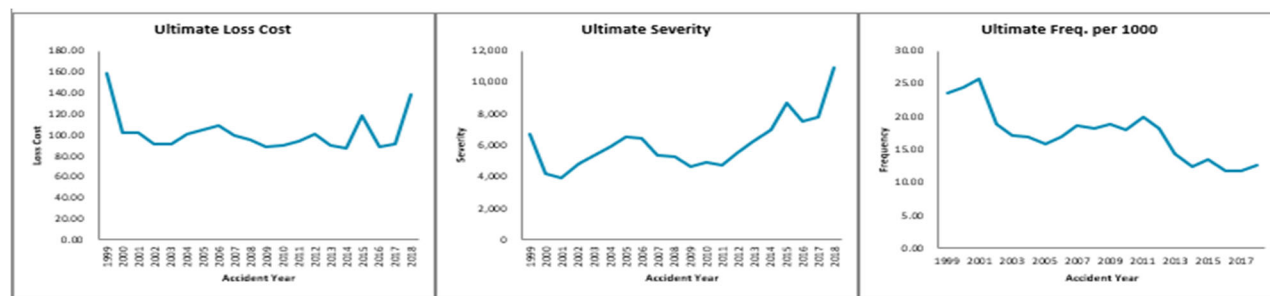
5.2. Property Damage (and DCPD)

DCPD was introduced on April 1, 2013. The data we analyze includes the combined Property Damage and DCPD experience.

Based on our analysis as of December 31, 2017, we selected a past and future loss cost trend rate of -1.5% .

We estimate that during 2018 compared to the prior corresponding accident year (2017) the frequency rate, the average severity, and the loss cost changed by approximately $+7.8\%$, $+40.1\%$, and $+51.0\%$, respectively.

The following graphs display our estimates of the actual loss cost (average claim cost per vehicle), average severity (average claim cost per claim), and frequency rate (average claim incidence rate) over the period 1999 through 2018.



Subject to variability: severity has exhibited a steep upward trend since the introduction of DCPD, including a recent spike at 2018. Frequency had a steep decline in 2013, then more modest declines following the introduction of DCPD. Loss cost has exhibited a relatively flat pattern over 2000 to 2013, then following the introduction of DCPD, large positive spikes in 2015 and 2018. We note the 2015 and 2018 increases may be outliers and that 2018 is subject to uncertainty as it is immature.

The high degree of loss cost variability is evident from the year-to-year percentage changes in estimated accident year loss costs as exhibited in the graphs above. Additional details are presented in Appendix B which includes the actual year-to-year percentage changes. As well, the changes in the estimated accident year loss cost between this review and our prior review contributes to the change in the measured trend rates between reviews even with the identical trend model (i.e., time period and parameters); the comparison between estimates of ultimate loss amounts from the prior review and this review are presented in Appendix C.

This variability causes the measured loss cost trend rates to change, and often rather significantly, depending upon the trend measurement period selected.

The measured severity, frequency, and loss cost trends, associated Adjusted R-squared values, p -values, and confidence intervals over various trend measurement periods ending 2018 and 2017, with and without the 2015 spike, with and without a reform parameter at April 2013 (when DCPD was introduced), are presented in Appendix E.

We make the following observations about these measured trends.

Although the noted severity increase and frequency decrease following the April 2013 introduction of DCPD are each statistically significant, the level changes largely offset each other. We also note that the April 2013 reform parameter for loss cost is not significant. Therefore, we assume the introduction of DCPD had no impact on loss cost and base our selection on the loss cost trends.

The loss cost trends based on the separate frequency and severity trends over periods beginning 2004 and 2005 and ending 2017 (without the large spikes in 2015 and 2018), with moderate Adjusted R-squared values and significant *p*-values, are approximately -1.0%. Those ending 2018 are approximately +1.5%.

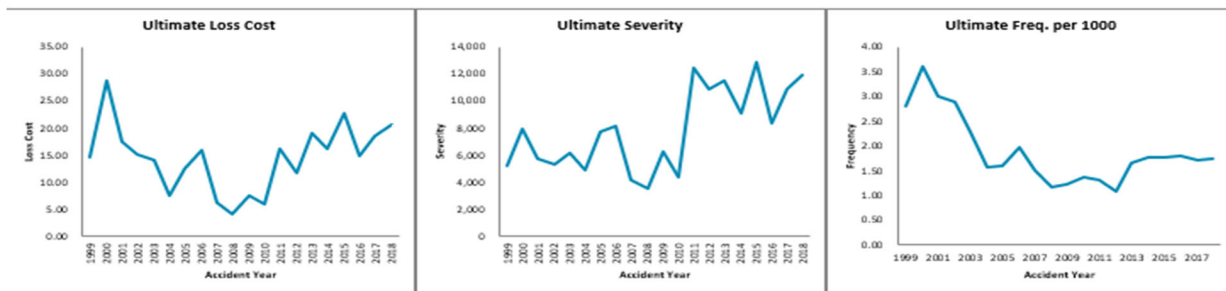
Giving consideration to the magnitude of the severity increases in both 2015 and 2018, which may or may not be outliers, we select a loss cost trend of **+0.0%**; a one and a half percentage point increase over our prior estimate.

5.3. Accident Benefits – Total

Based on our analysis as of December 31, 2017, we selected a past and future loss cost trend rate of 0.0%.

We estimate that during 2018 compared to the prior corresponding accident year (2017) the frequency rate, the average severity, and the loss cost changed by approximately +2.0%, +9.4%, and +11.6%, respectively.

The following graphs display our estimates of the actual loss cost (average claim cost per vehicle), average severity (average claim cost per claim), and frequency rate (average claim incidence rate) over the period 1999 through 2018.



As can be seen in the above graphs, Accident Benefits claim costs have exhibited considerable variability – particularly loss cost and severity. Subject to this variability, severity lifted upward in 2011 following the 2010 Bodily Injury reforms; frequency, subject to variability, declined through to the 2012 reforms, then lifted upward following the 2012 reforms.

The high degree of loss cost variability is evident from the year-to-year percentage changes in estimated accident year loss costs as exhibited in the graphs above. Additional details are presented in Appendix B which includes the actual year-to-year percentage changes. As well, the changes in the estimated accident year loss cost between this review and our prior review contributes to the change in the measured trend rates between reviews even with the identical trend model (i.e., time period and parameters); the comparison between estimates of ultimate loss amounts from the prior review and this review are presented in Appendix C.

This variability causes the measured loss cost trend rates to change, and often rather significantly, depending upon the trend measurement period selected.

The measured severity, frequency, and loss cost trends, associated Adjusted R-squared values, *p*-values, and confidence intervals over these various trend measurement periods, with and without a reform parameter at April 2012, are presented in Appendix E.

Given the variability in experience, as well as the weak statistics for the April 2012 reform parameter, we continue to make no explicit reform adjustment.

As discussed above, both the severity and frequency experience changed around the time of the reforms. However, both the severity and frequency trends rates since the reforms have insignificant *p*-values and low Adjusted R-squared values.

Given the low claim volume (fewer than 100 claims a year) and noted high degree of variability in the claim experience, we base our selected trend rate on the Accident Benefits loss cost experience only.

We make the following observations about these measured trends.

As noted, loss cost has generally trended upward (lower rate since 2011). However, the data points are quite variable (which is also evident from the regression statistics), and we particularly note the unexplained relatively low loss costs in 2007-2010 (compared to 2002-2006 and 2011-2017) which impact the measured trends. Given these results, we continue to select a past loss cost trend of **+0.0%**.

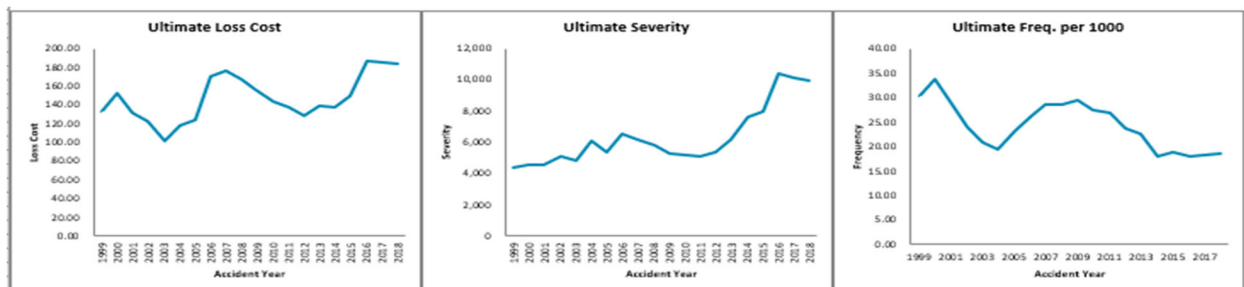
5.4. Collision

Based on our analysis as of December 31, 2017, we selected a past loss cost trend rate of 8.0% and a future loss cost trend rate of 2.0%.

We estimate that during 2018 compared to the prior corresponding accident year (2017) the frequency rate, the average severity, and the loss cost changed by approximately 0.7%, -1.9%, and -1.3%, respectively.

As we noted earlier, DCPD was introduced April 1, 2013 and as we discuss more fully below, the introduction of DCPD appears to have affected the Collision claim experience.

The following graphs display our estimates of the actual loss cost (average claim cost per vehicle), average severity (average claim cost per claim), and frequency rate (average claim incidence rate) over the period 1999 through 2018.



Subject to variability (although seemingly less than other coverages): severity has been increasing since 2011, including relatively large increases between 2013-2016 following the introduction of DCPD. Frequency declined beginning 2008 through to the introduction of DCPD in 2013, and relatively flat since; and loss cost has exhibited both increasing and decreasing patterns, including two large consecutive increases in 2015 and 2016.

The high degree of loss cost variability is evident from the year-to-year percentage changes in estimated accident year loss costs as exhibited in the graphs above. Additional details are presented in Appendix B which includes the actual year-to-year percentage changes. As well, the changes in the estimated accident year loss cost between this review and our prior review contributes to the change in the measured trend rates between reviews even with the identical trend model (i.e., time period and parameters); the comparison between estimates of ultimate loss amounts from the prior review and this review are presented in Appendix C.

This variability causes the measured loss cost trend rates to change, and often rather significantly, depending upon the trend measurement period selected.

The measured severity, frequency, and loss cost trends, associated Adjusted R-squared values, *p*-values, and confidence intervals over various trend measurement periods, with and without a reform parameter at April 2013, as well as excluding the 2016 loss cost spike, are presented in Appendix E.

We make the following observations about these measured trends.

For reasons similar to those we stated for PD/DCPD, we assume the introduction of DCPD had an offsetting impact on severity (increase) and frequency (decrease), with no impact on loss cost. We therefore consider the measured loss cost trends.

We measure loss cost trend rates with significant *p*-values for time over 2011 to 2018 at +6.0% and 2012 to 2018 at +7.3%. This difference is mainly due to 2012 being a low point (as seen in the graphs above), with the decline from 2011 to 2012 at -6.9%. We note, these trends are heavily influenced by the highs observed in the most recent three data points, which may be more of a reflection of the random nature of the claims. We find that over the longer time periods, and excluding the high level of loss costs from 2006 to 2009, the loss cost trends cluster around +3% with moderate Adjusted R-squareds and significant *p*-values.

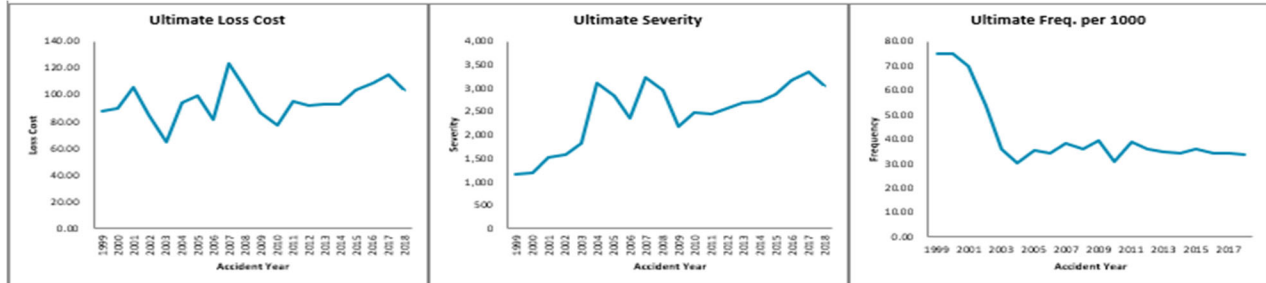
We select a past loss cost trend rate of **+7%** based on the shorter 2012 to 2018 recent time period; and a future loss cost trend rate of **+3%** based on the longer time periods. Our selected past trend is a decrease of 1% from our prior selection and our future trend rate is an increase of 1% from our prior selection.

5.5. Comprehensive

Based on our analysis as of December 31, 2017, we selected a past and future loss cost trend rate of 3.0%.

We estimate that during 2018 compared to the prior corresponding accident year (2017) the frequency rate, the average severity, and the loss cost changed by approximately -1.4%, -8.7%, and -10.0%, respectively.

The following graphs display our estimates of the actual loss cost (average claim cost per vehicle), average severity (average claim cost per claim), and frequency rate (average claim incidence rate) over the period 1999 through 2018.



Subject to variability: severity has been increasing since 2009; frequency has been relatively flat (slight downward trend) since 2007, including a downward spike in 2010; and loss cost has been generally increasing, including an upward spike in 2007.

The high degree of loss cost variability is evident from the year-to-year percentage changes in estimated accident year loss costs as exhibited in the graphs above. Additional details are presented in Appendix B which includes the actual year-to-year percentage changes. As well, the changes in the estimated accident year loss cost between this review and our prior review contributes to the change in the measured trend rates between reviews even with the identical trend model (i.e., time period and parameters); the comparison between estimates of ultimate loss amounts from the prior review and this review are presented in Appendix C.

This variability causes the measured loss cost trend rates to change, and often rather significantly, depending upon the trend measurement period selected.

The measured severity, frequency, and loss cost trends, associated Adjusted R-squared values, *p*-values, and confidence intervals over various trend measurement periods (including and excluding the high 2007 data point) are presented in Appendix E.

We make the following observations about these measured trends.

The measured severity trends beginning 2009 to 2013, ending 2018 have moderate to high Adjusted R-squareds and significant *p*-values, and cluster around +4.0%. We select a severity trend rate of +4.0%.

The measured frequency trends rates have low Adjusted R-squared values, non-significant *p*-values, and wide confidence intervals over all time periods. However, with the exclusion of 2010 (the downward spike noted above), the measured frequency trend rates beginning 2007 through 2011 ending 2018 have moderate Adjusted R-squared values, significant *p*-values, clustering around -1.5%. We select a frequency trend rate of -1.5%.

We select a past loss cost trend rate of **+2.5%** (rounded) based on our selected severity and frequency trend rates; a half percentage point less than our prior selected loss cost trend rate.

5.6. Specified Perils

Due to insufficient data, we select the same past loss cost trend rate for Specified Perils as we do for Comprehensive, **+2.5%**.

5.7. All Perils

Due to insufficient data, we select past and future loss cost trend rates of **+5.5%** and **+3.0%** for All Perils based on our selected values for Collision and Comprehensive.

6. Selected Trend Rates - Summary

The following table compares our selected past and future annual loss cost trend rates **between December 2017 and December 2018**.

Coverage	December 2017		December 2018	
	Past Loss Cost	Future Loss Cost	Past Loss Cost	Future Loss Cost
Bodily Injury	+3.0%	+3.0%	+4.5%	+4.5%
Property Damage including DCPD	-1.5%	-1.5%	+0.0%	+0.0%
Accident Benefits	+0.0%	+0.0%	+0.0%	+0.0%
Collision	+8.0%	+2.0%	+7.0%	+3.0%
Comprehensive	+3.0%	+3.0%	+2.5%	+2.5%
Specified Perils	+3.0%	+3.0%	+2.5%	+2.5%
All Perils	+6.5%	+2.5%	+5.5%	+3.0%

7. Reforms

Possibly due to the low data volume, there is no evidence of Bill 52 having an impact on claim costs as there is for commercial vehicles. We, therefore, make no adjustment for Bill 52.

Given the limited and volatile commercial automobile accident benefits claims experience, we make no direct adjustment to the Accident Benefit loss cost experience at this time for the FAIR Insurance reforms implemented in April 2012 or to the PD experience for the introduction of DCPD in April 2013.

8. Appendices A - E

Appendix A: Selected reported claim count and reported incurred claim amount development factors and basis for selection.

Appendix B: Estimate of the ultimate loss cost, severity and frequency by accident half-year; and period to period percentage changes.

Appendix C: Reported incurred claim amount, reported paid claim amount, estimated ultimate claim amount and comparison to prior review estimated ultimate claim amount by accident half-year.

Appendix D: Reported incurred claim count, estimated ultimate claim count and comparison to prior review estimated claim count by accident half-year.

Appendix E: Summary of loss trend regression analysis which includes modeled trend results for various time periods; with and without a seasonality parameter; with and without certain data points; with and without certain level change parameters.

- Bodily Injury: Pages 1 to 7
- Property Damage & DCPD: Pages 8 to 12
- Accident Benefits: Pages 13 to 14
- Collision: Pages 15 to 20
- Comprehensive: Pages 21 to 23

9. Considerations and Limitations

- For our review, we relied on data and information provided by GISA without independent audit. Though we have reviewed the data for reasonableness and consistency, we have not audited or otherwise verified this data. It should also be noted that our review of data may not always reveal imperfections. We have assumed that the data provided is both accurate and complete. The results of our analysis are dependent on this assumption. If this data or information is inaccurate or incomplete, our findings and conclusions may need to be revised.
- Our conclusions are based on an analysis of the GISA data and on the estimation of the outcome of many contingent events. Future costs were developed from the historical claim experience and covered exposure, with adjustments for anticipated changes. Our estimates make no provision for extraordinary future emergence of new classes of losses or types of losses not sufficiently represented in historical databases or which are not yet quantifiable.
- While this analysis complies with applicable Actuarial Standards of Practice and Statements of Principles, users of this analysis should recognize that our projections involve estimates of future events, and are subject to economic and statistical variations from expected values. We have not anticipated any extraordinary changes to the legal, social, or economic environment that might affect the frequency or severity of claims. For these reasons, no assurance can be given that the emergence of actual losses will correspond to the projections in this analysis.

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Province of Nova Scotia
Commercial Vehicles (including Fleets)

Claim Count Development Summary
Data as of 12/31/18

(1)	(2)	(3)	(4)	(5)	(6)
Selected Age-to-Ultimate Development Factors					
Maturity	Third Party Liability -				
	Third Party Liability - Bodily Injury	Total Property Damage	Accident Benefits - Total	Collision	Comprehensive - Total
6	1.183	1.010	0.866	0.967	1.145
12	1.043	1.011	0.926	0.991	1.004
18	1.029	1.007	0.971	0.990	1.001
24	1.020	1.005	0.991	1.000	1.002
30	1.011	1.000	0.993	1.000	1.000
36	1.007	1.000	0.998	1.000	1.000
42	0.994	1.000	1.001	1.000	1.000
48	0.992	1.000	1.001	1.000	1.000
54	0.986	1.000	1.000	1.000	1.000
60	0.996	1.000	1.000	1.000	1.000
66	1.000	1.000	1.000	1.000	1.000
72	1.000	1.000	1.000	1.000	1.000
78	1.000	1.000	1.000	1.000	1.000
84	1.000	1.000	1.000	1.000	1.000
90	1.000	1.000	1.000	1.000	1.000
96	1.000	1.000	1.000	1.000	1.000
102	1.000	1.000	1.000	1.000	1.000
108	1.000	1.000	1.000	1.000	1.000
114	1.000	1.000	1.000	1.000	1.000
120	1.000	1.000	1.000	1.000	1.000
126	1.000	1.000	1.000	1.000	1.000
132	1.000	1.000	1.000	1.000	1.000
138	1.000	1.000	1.000	1.000	1.000
144	1.000	1.000	1.000	1.000	1.000
150	1.000	1.000	1.000	1.000	1.000
156	1.000	1.000	1.000	1.000	1.000
162	1.000	1.000	1.000	1.000	1.000
168	1.000	1.000	1.000	1.000	1.000
174	1.000	1.000	1.000	1.000	1.000
180	1.000	1.000	1.000	1.000	1.000
186	1.000	1.000	1.000	1.000	1.000
192	1.000	1.000	1.000	1.000	1.000
198	1.000	1.000	1.000	1.000	1.000
204	1.000	1.000	1.000	1.000	1.000
210	1.000	1.000	1.000	1.000	1.000
216	1.000	1.000	1.000	1.000	1.000
222	1.000	1.000	1.000	1.000	1.000
228	1.000	1.000	1.000	1.000	1.000
234	1.000	1.000	1.000	1.000	1.000
240	1.000	1.000	1.000	1.000	1.000

Province of Nova Scotia
Commercial Vehicles (including Fleets)

Claim Count Development Selections
Data as of 12/31/18

(1)	(2)	(3)	(4)	(5)	(6)
Selected Age-to-Ultimate Development Factors					
Maturity	Third Party Liability - Bodily Injury	Third Party Liability - Total Property Damage	Accident Benefits - Total	Collision	Comprehensive - Total
	Wght Avg: Last 4 Semesters ending in 12				
6		Wght Avg: 6 Semester	Wght Avg: All Semesters	Wght Avg: 6 Semester	Wght Avg: 10 Semesters
12	Wght Avg: 6 Semester	Wght Avg: 6 Semester	Wght Avg: All Semesters	Wght Avg: 6 Semester	Wght Avg: 10 Semesters
18	Wght Avg: 6 Semester	Wght Avg: 6 Semester	Wght Avg: All Semesters	Wght Avg: 6 Semester	Wght Avg: 10 Semesters
24	Wght Avg: 6 Semester	Wght Avg: 6 Semester	Wght Avg: All Semesters	1	Wght Avg: 10 Semesters
30	Wght Avg: 6 Semester	Wght Avg: 6 Semester	Wght Avg: All Semesters	1	1
36	Wght Avg: 6 Semester	Wght Avg: 10 Semesters	Wght Avg: All Semesters	1	1
42	Wght Avg: 6 Semester	Wght Avg: 10 Semesters	Wght Avg: All Semesters	1	1
48	Wght Avg: 6 Semester	Wght Avg: 10 Semesters	Wght Avg: All Semesters	1	1
54	Wght Avg: 6 Semester	Wght Avg: 10 Semesters	Wght Avg: All Semesters	1	1
60	Wght Avg: 6 Semester	Wght Avg: 10 Semesters	1	1	1
66	Wght Avg: 6 Semester	Wght Avg: 10 Semesters	1	1	1
72	Wght Avg: 6 Semester	Wght Avg: 10 Semesters	1	1	1
78	Wght Avg: 6 Semester	Wght Avg: 10 Semesters	1	1	1
84	Wght Avg: 6 Semester	Wght Avg: 10 Semesters	1	1	1
90	Wght Avg: 6 Semester	Wght Avg: 10 Semesters	1	1	1
96	Wght Avg: 6 Semester	Wght Avg: 10 Semesters	1	1	1
102	Wght Avg: 6 Semester	Wght Avg: 10 Semesters	1	1	1
108	Wght Avg: 6 Semester	1	1	1	1
114	Wght Avg: 6 Semester	1	1	1	1
120	Wght Avg: 6 Semester	1	1	1	1
126	Wght Avg: 6 Semester	1	1	1	1
132	Wght Avg: 6 Semester	1	1	1	1
138	Wght Avg: 6 Semester	1	1	1	1
144	Wght Avg: 6 Semester	1	1	1	1
150	Wght Avg: 6 Semester	1	1	1	1
156	Wght Avg: 6 Semester	1	1	1	1
162	Wght Avg: 6 Semester	1	1	1	1
168	Wght Avg: 6 Semester	1	1	1	1
174	Wght Avg: 6 Semester	1	1	1	1
180	Wght Avg: 6 Semester	1	1	1	1
186	Wght Avg: 6 Semester	1	1	1	1
192	Wght Avg: 6 Semester	1	1	1	1
198	Wght Avg: 6 Semester	1	1	1	1
204	Wght Avg: 6 Semester	1	1	1	1
210	1	1	1	1	1
216	1	1	1	1	1
222	1	1	1	1	1
228	1	1	1	1	1
234	1	1	1	1	1

Province of Nova Scotia
Commercial Vehicles (including Fleets)

Reported Incurred Claim Amount and ALAE Loss Development Summary
Data as of 12/31/18

(1)	(2)	(3)	(4)	(5)	(6)
Selected Age-to-Ultimate Development Factors					
Maturity	Third Party Liability -				
	Third Party Liability - Bodily Injury	Total Property Damage	Accident Benefits - Total	Collision	Comprehensive - Total
6	2.197	1.135	1.256	1.010	1.054
12	1.598	0.996	1.230	0.997	0.993
18	1.432	0.997	1.274	0.992	0.991
24	1.303	0.989	1.286	1.000	0.997
30	1.203	0.992	1.165	1.000	1.000
36	1.083	0.994	1.130	1.000	1.000
42	1.080	0.989	1.112	1.000	1.000
48	1.027	0.999	1.035	1.000	1.000
54	1.004	0.984	1.002	1.000	1.000
60	1.006	0.985	1.006	1.000	1.000
66	0.988	0.985	1.004	1.000	1.000
72	0.988	0.992	1.001	1.000	1.000
78	1.005	0.995	1.006	1.000	1.000
84	1.001	0.995	1.015	1.000	1.000
90	0.989	0.994	1.014	1.000	1.000
96	0.983	0.997	1.015	1.000	1.000
102	0.987	0.995	1.015	1.000	1.000
108	0.994	1.000	1.018	1.000	1.000
114	1.000	1.000	1.002	1.000	1.000
120	1.000	1.000	1.000	1.000	1.000
126	1.000	1.000	1.000	1.000	1.000
132	1.000	1.000	1.000	1.000	1.000
138	1.000	1.000	1.000	1.000	1.000
144	1.000	1.000	1.000	1.000	1.000
150	1.000	1.000	1.000	1.000	1.000
156	1.000	1.000	1.000	1.000	1.000
162	1.000	1.000	1.000	1.000	1.000
168	1.000	1.000	1.000	1.000	1.000
174	1.000	1.000	1.000	1.000	1.000
180	1.000	1.000	1.000	1.000	1.000
186	1.000	1.000	1.000	1.000	1.000
192	1.000	1.000	1.000	1.000	1.000
198	1.000	1.000	1.000	1.000	1.000
204	1.000	1.000	1.000	1.000	1.000
210	1.000	1.000	1.000	1.000	1.000
216	1.000	1.000	1.000	1.000	1.000
222	1.000	1.000	1.000	1.000	1.000
228	1.000	1.000	1.000	1.000	1.000
234	1.000	1.000	1.000	1.000	1.000
240	1.000	1.000	1.000	1.000	1.000

Province of Nova Scotia
Commercial Vehicles (including Fleets)

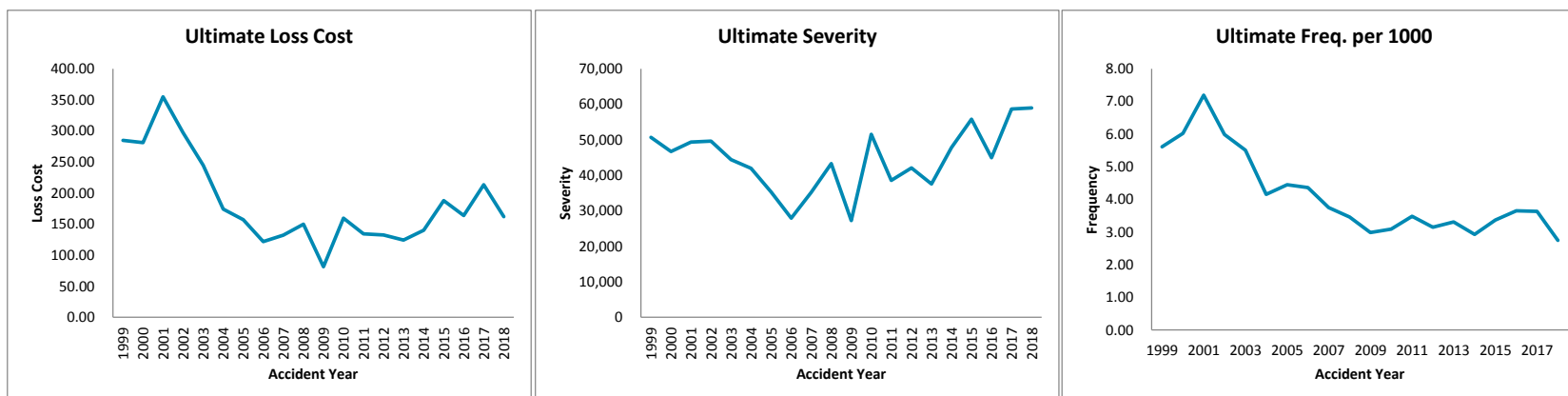
Reported Incurred Claim Amount and ALAE Loss Development Selections
Data as of 12/31/18

(1)	(2)	(3)	(4)	(5)	(6)
Selected Age-to-Ultimate Development Factors					
Maturity	Third Party Liability - Bodily Injury	Third Party Liability - Total Property Damage	Accident Benefits - Total	Collision	Comprehensive - Total
6	Wght Avg: 6 Semester	Wght Avg: 10 Semesters	Wght Avg: All Semesters	Avg: 6 Semesters ex hi/lo	Wght Avg: 10 Semesters
12	Wght Avg: 6 Semester	Wght Avg: 10 Semesters	Wght Avg: All Semesters	Wght Avg: 6 Semester	Wght Avg: 10 Semesters
18	Wght Avg: 6 Semester	Wght Avg: 10 Semesters	Wght Avg: All Semesters	Wght Avg: 6 Semester	Wght Avg: 10 Semesters
24	Wght Avg: 6 Semester	Wght Avg: 10 Semesters	Wght Avg: All Semesters	1	Wght Avg: 10 Semesters
30	Wght Avg: 10 Semesters	Wght Avg: All Semesters	Wght Avg: All Semesters	1	1
36	Wght Avg: 10 Semesters	Wght Avg: 10 Semesters	Wght Avg: All Semesters	1	1
42	Wght Avg: 10 Semesters	Wght Avg: 10 Semesters	Wght Avg: All Semesters	1	1
48	Wght Avg: 10 Semesters	Wght Avg: All Semesters	Wght Avg: All Semesters	1	1
54	Wght Avg: 10 Semesters	Wght Avg: 10 Semesters	Wght Avg: All Semesters	1	1
60	Wght Avg: 10 Semesters	Wght Avg: 10 Semesters	Wght Avg: All Semesters	1	1
66	Wght Avg: 10 Semesters	Wght Avg: 20 Semesters	Wght Avg: All Semesters	1	1
72	Wght Avg: 20 Semesters	Wght Avg: 20 Semesters	Wght Avg: All Semesters	1	1
78	Wght Avg: 20 Semesters	Wght Avg: 20 Semesters	Wght Avg: All Semesters	1	1
84	Wght Avg: 20 Semesters	Wght Avg: 20 Semesters	Wght Avg: All Semesters	1	1
90	Wght Avg: 20 Semesters	Wght Avg: 20 Semesters	Wght Avg: All Semesters	1	1
96	Wght Avg: 20 Semesters	Wght Avg: 20 Semesters	Wght Avg: All Semesters	1	1
102	Wght Avg: 20 Semesters	Wght Avg: 20 Semesters	Wght Avg: All Semesters	1	1
108	Wght Avg: 20 Semesters	1	Wght Avg: All Semesters	1	1
114	1	1	Wght Avg: All Semesters	1	1
120	1	1	1	1	1
126	1	1	1	1	1
132	1	1	1	1	1
138	1	1	1	1	1
144	1	1	1	1	1
150	1	1	1	1	1
156	1	1	1	1	1
162	1	1	1	1	1
168	1	1	1	1	1
174	1	1	1	1	1
180	1	1	1	1	1
186	1	1	1	1	1
192	1	1	1	1	1
198	1	1	1	1	1
204	1	1	1	1	1
210	1	1	1	1	1
216	1	1	1	1	1
222	1	1	1	1	1
228	1	1	1	1	1
234	1	1	1	1	1

Province of Nova Scotia
Third Party Liability - Bodily Injury
Commercial Vehicles (including Fleets)

Loss Cost Summary
Data as of 12/31/18

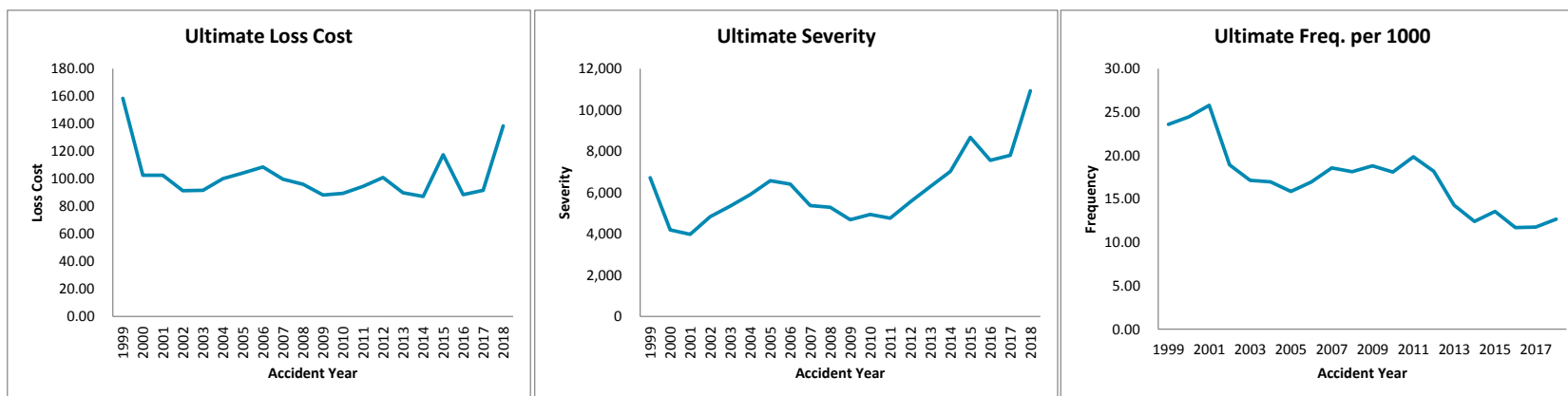
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
						(5) * (6)	(7) / (3) * 1000		(7) / (4) * 1000		(4) / (3) * 1000	
Accident Year	Maturity (in Months)	Earned Car Years	Ultimate Claim Counts	Ultimate Claims and ALAE (000)	ULAE Adjustment	Ultimate Losses & LAE (000)	Ultimate Loss Cost	% Change Accident Years	Ultimate Severity	% Change Accident Years	Ultimate Freq. per 1000	% Change Accident Years
1999	240	45,596	256	11,932	1.088	12,982	284.73		50,713		5.61	
2000	228	45,502	274	11,822	1.082	12,791	281.11	-1.3%	46,683	-7.9%	6.02	7.3%
2001	216	47,828	344	15,940	1.065	16,976	354.94	26.3%	49,348	5.7%	7.19	19.4%
2002	204	45,745	274	12,622	1.077	13,593	297.16	-16.3%	49,611	0.5%	5.99	-16.7%
2003	192	45,572	251	10,340	1.078	11,146	244.58	-17.7%	44,406	-10.5%	5.51	-8.0%
2004	180	47,458	197	7,254	1.140	8,270	174.25	-28.8%	41,979	-5.5%	4.15	-24.6%
2005	168	49,433	220	7,076	1.097	7,760	156.98	-9.9%	35,272	-16.0%	4.45	7.2%
2006	156	49,718	217	5,519	1.099	6,062	121.94	-22.3%	27,937	-20.8%	4.36	-1.9%
2007	144	50,147	188	5,991	1.105	6,620	132.00	8.3%	35,210	26.0%	3.75	-14.1%
2008	132	50,923	176	6,966	1.095	7,625	149.73	13.4%	43,322	23.0%	3.46	-7.8%
2009	120	51,253	153	3,769	1.106	4,167	81.30	-45.7%	27,233	-37.1%	2.99	-13.6%
2010	108	50,791	157	7,310	1.108	8,097	159.41	96.1%	51,570	89.4%	3.09	3.5%
2011	96	51,979	181	6,316	1.105	6,980	134.29	-15.8%	38,565	-25.2%	3.48	12.7%
2012	84	54,009	170	6,562	1.090	7,154	132.46	-1.4%	42,084	9.1%	3.15	-9.6%
2013	72	54,085	179	6,150	1.094	6,725	124.34	-6.1%	37,569	-10.7%	3.31	5.1%
2014	60	54,463	159	7,023	1.086	7,628	140.06	12.6%	47,832	27.3%	2.93	-11.5%
2015	48	55,793	188	9,736	1.076	10,474	187.73	34.0%	55,810	16.7%	3.36	14.9%
2016	36	56,436	206	8,450	1.095	9,251	163.91	-12.7%	44,922	-19.5%	3.65	8.5%
2017	24	56,675	206	11,078	1.091	12,085	213.24	30.1%	58,697	30.7%	3.63	-0.4%
2018	12	58,482	160	8,658	1.093	9,466	161.85	-24.1%	58,978	0.5%	2.74	-24.5%
Total		1,021,888	4,156	170,514		185,851						



Province of Nova Scotia
Third Party Liability - Total Property Damage
Commercial Vehicles (including Fleets)

Loss Cost Summary
Data as of 12/31/18

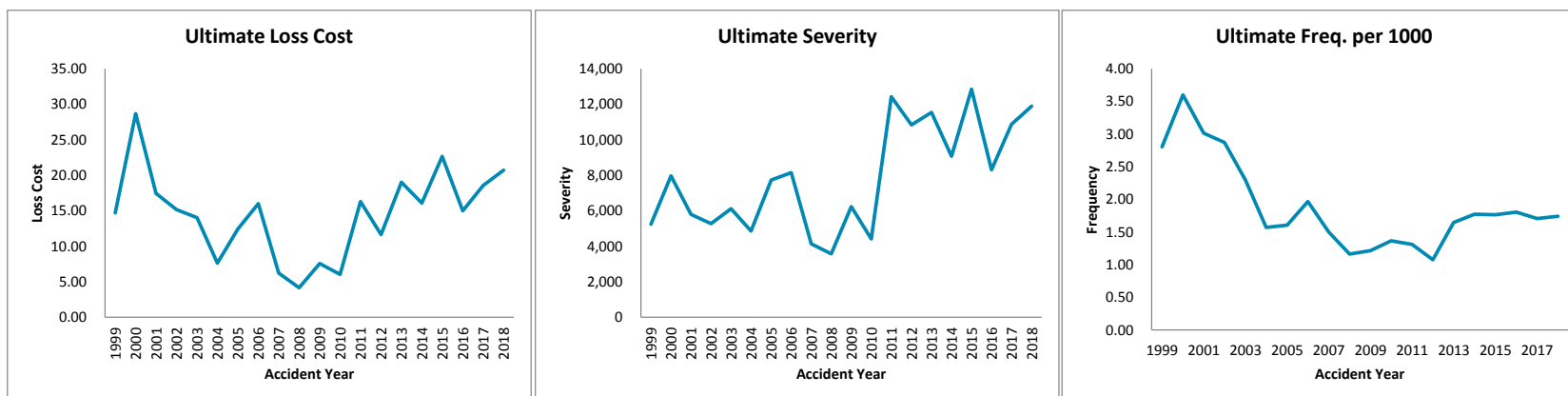
(1)	(2)	(3)	(4)	(5)	(6)	(7) (5) * (6)	(8) (7) / (3) * 1000	(9)	(10) (7) / (4) * 1000	(11)	(12) (4) / (3) * 1000	(13)
Accident Year	Maturity (in Months)	Earned Car Years	Ultimate Claim Counts	Ultimate Claims and ALAE (000)	ULAE Adjustment	Ultimate Losses & LAE (000)	Ultimate Loss Cost	% Change Accident Years	Ultimate Severity	% Change Accident Years	Ultimate Freq. per 1000	% Change Accident Years
1999	240	45,596	1,075	6,640	1.088	7,225	158.45		6,721		23.58	
2000	228	45,502	1,113	4,315	1.082	4,668	102.60	-35.2%	4,194	-37.6%	24.46	3.8%
2001	216	47,828	1,233	4,604	1.065	4,903	102.52	-0.1%	3,977	-5.2%	25.78	5.4%
2002	204	45,745	865	3,881	1.077	4,179	91.36	-10.9%	4,832	21.5%	18.91	-26.7%
2003	192	45,572	781	3,872	1.078	4,174	91.59	0.2%	5,344	10.6%	17.14	-9.4%
2004	180	47,458	805	4,167	1.140	4,750	100.10	9.3%	5,901	10.4%	16.96	-1.0%
2005	168	49,433	784	4,699	1.097	5,153	104.24	4.1%	6,572	11.4%	15.86	-6.5%
2006	156	49,718	842	4,913	1.099	5,397	108.55	4.1%	6,409	-2.5%	16.94	6.8%
2007	144	50,147	931	4,523	1.105	4,998	99.66	-8.2%	5,368	-16.2%	18.57	9.6%
2008	132	50,923	924	4,464	1.095	4,885	95.94	-3.7%	5,287	-1.5%	18.15	-2.3%
2009	120	51,253	964	4,089	1.106	4,520	88.20	-8.1%	4,689	-11.3%	18.81	3.7%
2010	108	50,791	919	4,103	1.108	4,544	89.48	1.4%	4,945	5.5%	18.09	-3.8%
2011	96	51,979	1,032	4,444	1.105	4,911	94.48	5.6%	4,759	-3.8%	19.85	9.7%
2012	84	54,009	982	4,997	1.090	5,449	100.88	6.8%	5,549	16.6%	18.18	-8.4%
2013	72	54,085	772	4,445	1.094	4,860	89.86	-10.9%	6,294	13.4%	14.28	-21.5%
2014	60	54,463	676	4,372	1.086	4,748	87.18	-3.0%	7,022	11.6%	12.41	-13.0%
2015	48	55,793	756	6,096	1.076	6,558	117.54	34.8%	8,675	23.5%	13.55	9.1%
2016	36	56,436	660	4,559	1.095	4,990	88.42	-24.8%	7,561	-12.8%	11.69	-13.7%
2017	24	56,675	666	4,761	1.091	5,194	91.65	3.6%	7,801	3.2%	11.75	0.5%
2018	12	58,482	741	7,404	1.093	8,095	138.42	51.0%	10,928	40.1%	12.67	7.8%
Total		1,021,888	17,521	95,346		104,203						



Province of Nova Scotia
Accident Benefits - Total
Commercial Vehicles (including Fleets)

Loss Cost Summary
Data as of 12/31/18

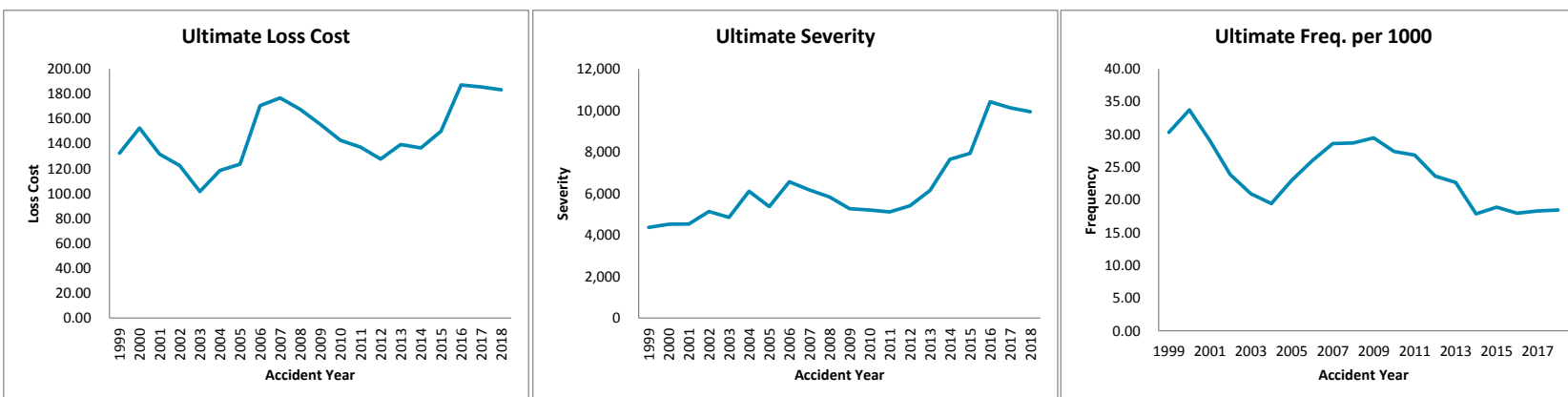
(1)	(2)	(3)	(4)	(5)	(6)	(7) (5) * (6)	(8) (7) / (3) * 1000	(9)	(10) (7) / (4) * 1000	(11)	(12) (4) / (3) * 1000	(13)
Accident Year	Maturity (in Months)	Earned Car Years	Ultimate Claim Counts	Ultimate Claims and ALAE (000)	ULAE Adjustment	Ultimate Losses & LAE (000)	Ultimate Loss Cost	% Change Accident Years	Ultimate Severity	% Change Accident Years	Ultimate Freq. per 1000	% Change Accident Years
1999	240	44,204	124	597	1.088	650	14.71		5,242		2.81	
2000	228	44,440	160	1,178	1.082	1,274	28.68	95.0%	7,966	51.9%	3.60	28.3%
2001	216	46,798	141	767	1.065	817	17.45	-39.1%	5,793	-27.3%	3.01	-16.3%
2002	204	44,926	129	632	1.077	681	15.15	-13.2%	5,278	-8.9%	2.87	-4.7%
2003	192	44,877	103	584	1.078	630	14.04	-7.4%	6,115	15.9%	2.30	-20.1%
2004	180	46,522	73	311	1.140	355	7.63	-45.6%	4,862	-20.5%	1.57	-31.6%
2005	168	48,596	78	550	1.097	604	12.42	62.8%	7,738	59.2%	1.61	2.3%
2006	156	48,838	96	712	1.099	782	16.01	28.9%	8,144	5.2%	1.97	22.5%
2007	144	49,311	74	277	1.105	306	6.21	-61.2%	4,139	-49.2%	1.50	-23.7%
2008	132	50,730	59	193	1.095	211	4.16	-33.1%	3,573	-13.7%	1.16	-22.5%
2009	120	51,040	62	349	1.106	386	7.57	82.1%	6,228	74.3%	1.21	4.4%
2010	108	50,541	69	275	1.108	305	6.03	-20.3%	4,416	-29.1%	1.37	12.4%
2011	96	51,856	68	765	1.105	845	16.29	170.3%	12,426	181.4%	1.31	-3.9%
2012	84	53,949	58	576	1.090	629	11.65	-28.5%	10,837	-12.8%	1.08	-18.0%
2013	72	54,042	89	939	1.094	1,027	19.01	63.2%	11,541	6.5%	1.65	53.2%
2014	60	54,142	96	802	1.086	871	16.08	-15.4%	9,071	-21.4%	1.77	7.7%
2015	48	55,049	97	1,160	1.076	1,248	22.67	40.9%	12,850	41.7%	1.76	-0.5%
2016	36	55,671	100	763	1.095	835	15.01	-33.8%	8,312	-35.3%	1.81	2.3%
2017	24	56,332	96	959	1.091	1,046	18.56	23.7%	10,874	30.8%	1.71	-5.4%
2018	12	57,192	100	1,084	1.093	1,185	20.71	11.6%	11,892	9.4%	1.74	2.0%
Total		1,009,056	1,872	13,474		14,685						



Province of Nova Scotia
Collision
Commercial Vehicles (including Fleets)

Loss Cost Summary
Data as of 12/31/18

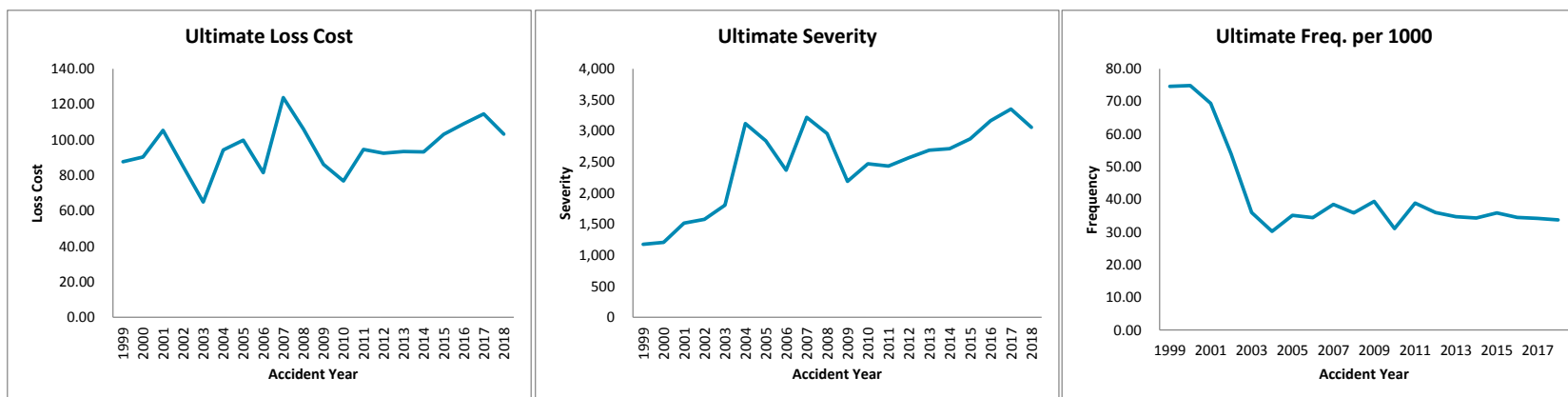
(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)	(9)	(10)	(11)	(12)	(13)
						(5) * (6)	(7) / (3) * 1000		(7) / (4) * 1000		(4) / (3) * 1000	
Accident Year	Maturity (in Months)	Earned Car Years	Ultimate Claim Counts	Ultimate Claims and ALAE (000)	ULAE Adjustment	Ultimate Losses & LAE (000)	Ultimate Loss Cost	% Change Accident Years	Ultimate Severity	% Change Accident Years	Ultimate Freq. per 1000	% Change Accident Years
1999	240	12,174	369	1,481	1.088	1,611	132.36		4,367		30.31	
2000	228	12,473	421	1,759	1.082	1,903	152.57	15.3%	4,520	3.5%	33.75	11.4%
2001	216	13,616	396	1,683	1.065	1,793	131.65	-13.7%	4,527	0.1%	29.08	-13.8%
2002	204	12,453	297	1,416	1.077	1,525	122.46	-7.0%	5,134	13.4%	23.85	-18.0%
2003	192	12,034	252	1,134	1.078	1,223	101.61	-17.0%	4,852	-5.5%	20.94	-12.2%
2004	180	12,149	236	1,264	1.140	1,441	118.60	16.7%	6,106	25.8%	19.43	-7.2%
2005	168	12,521	288	1,411	1.097	1,547	123.56	4.2%	5,372	-12.0%	23.00	18.4%
2006	156	12,975	337	2,015	1.099	2,213	170.58	38.1%	6,567	22.3%	25.97	12.9%
2007	144	13,663	391	2,185	1.105	2,415	176.74	3.6%	6,176	-6.0%	28.62	10.2%
2008	132	13,970	401	2,138	1.095	2,340	167.47	-5.2%	5,834	-5.5%	28.70	0.3%
2009	120	14,007	413	1,970	1.106	2,177	155.46	-7.2%	5,272	-9.6%	29.49	2.7%
2010	108	14,198	389	1,829	1.108	2,026	142.70	-8.2%	5,208	-1.2%	27.40	-7.1%
2011	96	14,457	388	1,795	1.105	1,983	137.20	-3.9%	5,112	-1.9%	26.84	-2.0%
2012	84	14,767	349	1,729	1.090	1,885	127.67	-6.9%	5,402	5.7%	23.63	-11.9%
2013	72	15,035	341	1,916	1.094	2,095	139.37	9.2%	6,145	13.8%	22.68	-4.0%
2014	60	15,393	275	1,937	1.086	2,103	136.65	-2.0%	7,649	24.5%	17.87	-21.2%
2015	48	15,874	300	2,213	1.076	2,381	150.00	9.8%	7,937	3.8%	18.90	5.8%
2016	36	16,367	294	2,798	1.095	3,063	187.17	24.8%	10,420	31.3%	17.96	-5.0%
2017	24	16,791	308	2,856	1.091	3,116	185.58	-0.8%	10,130	-2.8%	18.32	2.0%
2018	12	17,205	317	2,884	1.093	3,153	183.25	-1.3%	9,936	-1.9%	18.44	0.7%
Total		282,121	6,762	38,413		41,995						



Province of Nova Scotia
Comprehensive - Total
Commercial Vehicles (including Fleets)

Loss Cost Summary
Data as of 12/31/18

(1)	(2)	(3)	(4)	(5)	(6)	(7) (5) * (6)	(8) (7) / (3) * 1000	(9)	(10) (7) / (4) * 1000	(11)	(12) (4) / (3) * 1000	(13)
Accident Year	Maturity (in Months)	Earned Car Years	Ultimate Claim Counts	Ultimate Claims and ALAE (000)	ULAE Adjustment	Ultimate Losses & LAE (000)	Ultimate Loss Cost	% Change Accident Years	Ultimate Severity	% Change Accident Years	Ultimate Freq. per 1000	% Change Accident Years
1999	240	17,098	1,276	1,378	1.088	1,499	87.70		1,175		74.63	
2000	228	16,989	1,272	1,418	1.082	1,535	90.32	3.0%	1,206	2.7%	74.87	0.3%
2001	216	18,216	1,265	1,802	1.065	1,919	105.37	16.7%	1,517	25.8%	69.44	-7.3%
2002	204	17,479	943	1,381	1.077	1,488	85.12	-19.2%	1,578	4.0%	53.95	-22.3%
2003	192	16,845	606	1,015	1.078	1,094	64.95	-23.7%	1,805	14.4%	35.97	-33.3%
2004	180	16,618	502	1,374	1.140	1,566	94.23	45.1%	3,119	72.8%	30.21	-16.0%
2005	168	16,664	585	1,516	1.097	1,663	99.77	5.9%	2,842	-8.9%	35.11	16.2%
2006	156	17,083	588	1,267	1.099	1,392	81.49	-18.3%	2,368	-16.7%	34.42	-2.0%
2007	144	17,627	678	1,975	1.105	2,182	123.80	51.9%	3,219	35.9%	38.46	11.7%
2008	132	18,020	646	1,746	1.095	1,911	106.03	-14.3%	2,958	-8.1%	35.85	-6.8%
2009	120	18,192	717	1,419	1.106	1,568	86.21	-18.7%	2,187	-26.1%	39.41	9.9%
2010	108	18,531	576	1,285	1.108	1,423	76.79	-10.9%	2,470	12.9%	31.08	-21.1%
2011	96	18,857	733	1,614	1.105	1,784	94.61	23.2%	2,434	-1.5%	38.87	25.1%
2012	84	19,235	692	1,631	1.090	1,778	92.42	-2.3%	2,569	5.5%	35.98	-7.4%
2013	72	19,451	675	1,661	1.094	1,816	93.35	1.0%	2,690	4.7%	34.70	-3.5%
2014	60	19,827	680	1,700	1.086	1,847	93.14	-0.2%	2,716	1.0%	34.30	-1.2%
2015	48	20,358	730	1,950	1.076	2,098	103.04	10.6%	2,874	5.8%	35.86	4.6%
2016	36	21,021	725	2,095	1.095	2,293	109.09	5.9%	3,163	10.1%	34.49	-3.8%
2017	24	21,412	732	2,250	1.091	2,454	114.62	5.1%	3,352	6.0%	34.19	-0.9%
2018	12	21,714	732	2,049	1.093	2,240	103.17	-10.0%	3,059	-8.7%	33.72	-1.4%
Total		371,236	15,353	32,525		35,549						



Province of Nova Scotia
Third Party Liability - Bodily Injury
Commercial Vehicles (including Fleets)

Selected Ultimate Claim Amount and ALAE Estimate
Data as of 12/31/18

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Accident Semester	Maturity (in Months)	Reported Incurred Claim Amount and ALAE (000)	Paid Claim Amount and ALAE (000)	Estimated Ultimate Claims and ALAE Reported Incurred Claim Amount and ALAE Development Method	Selected Ultimate Claim Amount and ALAE Estimate	Prior	Difference
1999.1	240	6,147	6,147	6,147	6,147	6,147	0
1999.2	234	5,785	5,785	5,785	5,785	5,785	0
2000.1	228	3,996	3,996	3,996	3,996	3,996	0
2000.2	222	7,826	7,826	7,826	7,826	7,826	0
2001.1	216	9,410	9,410	9,410	9,410	9,410	0
2001.2	210	6,530	6,530	6,530	6,530	6,530	0
2002.1	204	5,427	5,427	5,427	5,427	5,427	0
2002.2	198	7,194	7,194	7,194	7,194	7,194	0
2003.1	192	4,487	4,487	4,487	4,487	4,487	0
2003.2	186	5,852	5,852	5,852	5,852	5,852	0
2004.1	180	3,646	3,646	3,646	3,646	3,646	0
2004.2	174	3,608	3,608	3,608	3,608	3,608	0
2005.1	168	2,221	2,221	2,221	2,221	2,221	0
2005.2	162	4,855	4,855	4,855	4,855	4,855	0
2006.1	156	3,196	3,196	3,196	3,196	3,196	0
2006.2	150	2,323	2,291	2,323	2,323	2,322	1
2007.1	144	2,830	2,830	2,830	2,830	2,830	0
2007.2	138	3,161	3,161	3,161	3,161	3,161	0
2008.1	132	3,912	3,912	3,912	3,912	3,968	(57)
2008.2	126	3,054	3,054	3,054	3,054	3,054	0
2009.1	120	2,766	2,766	2,766	2,766	2,756	10
2009.2	114	1,003	1,003	1,003	1,003	1,132	(129)
2010.1	108	3,041	2,761	3,024	3,024	2,940	84
2010.2	102	4,344	4,344	4,286	4,286	4,273	13
2011.1	96	3,353	3,123	3,294	3,294	3,354	(60)
2011.2	90	3,055	3,055	3,021	3,021	3,075	(53)
2012.1	84	2,329	1,836	2,330	2,330	2,634	(304)
2012.2	78	4,212	3,417	4,232	4,232	4,084	148
2013.1	72	2,015	1,917	1,991	1,991	2,270	(280)
2013.2	66	4,210	2,433	4,159	4,159	4,038	121
2014.1	60	1,758	1,335	1,768	1,768	1,653	115
2014.2	54	5,236	3,233	5,255	5,255	5,204	51
2015.1	48	3,803	3,003	3,905	3,905	4,012	(107)
2015.2	42	5,399	2,729	5,831	5,831	6,021	(190)
2016.1	36	3,452	2,238	3,739	3,739	4,462	(724)
2016.2	30	3,918	1,573	4,712	4,712	5,342	(631)
2017.1	24	4,933	1,216	6,426	6,426	5,506	920
2017.2	18	3,248	462	4,652	4,652	5,196	(544)
2018.1	12	3,112	361	4,974	4,974		
2018.2	6	1,676	20	3,684	3,684		
Total		162,325	138,255	170,514	170,514	163,470	(1,615)

Province of Nova Scotia
Third Party Liability - Total Property Damage
Commercial Vehicles (including Fleets)

Selected Ultimate Claim Amount and ALAE Estimate
Data as of 12/31/18

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Accident Semester	Maturity (in Months)	Reported Incurred Claim Amount and ALAE (000)	Paid Claim Amount and ALAE (000)	Estimated Ultimate Claims and ALAE Reported Incurred Claim Amount and ALAE Development Method	Selected Ultimate Claim Amount and ALAE Estimate	Prior	Difference
1999.1	240	1,489	1,489	1,489	1,489	1,489	0
1999.2	234	5,151	5,151	5,151	5,151	5,151	0
2000.1	228	1,689	1,689	1,689	1,689	1,689	0
2000.2	222	2,626	2,626	2,626	2,626	2,626	0
2001.1	216	2,152	2,152	2,152	2,152	2,152	0
2001.2	210	2,452	2,452	2,452	2,452	2,452	0
2002.1	204	1,790	1,790	1,790	1,790	1,790	0
2002.2	198	2,091	2,091	2,091	2,091	2,091	0
2003.1	192	2,117	2,117	2,117	2,117	2,117	0
2003.2	186	1,754	1,754	1,754	1,754	1,754	0
2004.1	180	1,457	1,457	1,457	1,457	1,457	0
2004.2	174	2,710	2,710	2,710	2,710	2,710	0
2005.1	168	2,910	2,910	2,910	2,910	2,910	0
2005.2	162	1,789	1,789	1,789	1,789	1,789	0
2006.1	156	3,059	3,059	3,059	3,059	3,059	0
2006.2	150	1,854	1,854	1,854	1,854	1,854	0
2007.1	144	2,091	2,091	2,091	2,091	2,091	0
2007.2	138	2,432	2,432	2,432	2,432	2,432	0
2008.1	132	2,295	2,295	2,295	2,295	2,248	47
2008.2	126	2,168	2,168	2,168	2,168	2,168	0
2009.1	120	2,056	2,056	2,056	2,056	2,056	0
2009.2	114	2,033	2,033	2,033	2,033	2,023	10
2010.1	108	1,709	1,709	1,709	1,709	1,704	5
2010.2	102	2,405	2,405	2,394	2,394	2,391	3
2011.1	96	2,218	2,206	2,211	2,211	2,208	3
2011.2	90	2,247	2,247	2,233	2,233	2,236	(3)
2012.1	84	2,045	2,045	2,036	2,036	2,020	16
2012.2	78	2,976	2,976	2,962	2,962	2,918	44
2013.1	72	2,210	2,210	2,192	2,192	2,167	25
2013.2	66	2,288	1,867	2,253	2,253	2,239	14
2014.1	60	2,345	2,320	2,310	2,310	2,381	(71)
2014.2	54	2,095	2,094	2,062	2,062	2,077	(15)
2015.1	48	3,580	3,577	3,577	3,577	3,608	(31)
2015.2	42	2,546	2,545	2,519	2,519	2,530	(11)
2016.1	36	1,982	1,958	1,969	1,969	1,863	106
2016.2	30	2,609	2,601	2,589	2,589	2,478	111
2017.1	24	2,190	2,130	2,166	2,166	2,330	(164)
2017.2	18	2,602	2,085	2,595	2,595	2,226	370
2018.1	12	4,169	3,358	4,152	4,152		
2018.2	6	2,865	1,544	3,253	3,253		
Total		95,248	92,043	95,346	95,346	87,483	459

Province of Nova Scotia
Accident Benefits - Total
Commercial Vehicles (including Fleets)

Selected Ultimate Claim Amount and ALAE Estimate
Data as of 12/31/18

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Accident Semester	Maturity (in Months)	Reported Incurred Claim Amount and ALAE (000)	Paid Claim Amount and ALAE (000)	Estimated Ultimate Claims and ALAE Reported Incurred Claim Amount and ALAE Development Method	Selected Ultimate Claim Amount and ALAE Estimate	Prior	Difference
1999.1	240	292	292	292	292	292	0
1999.2	234	305	305	305	305	305	0
2000.1	228	463	463	463	463	463	0
2000.2	222	715	715	715	715	715	0
2001.1	216	352	352	352	352	352	0
2001.2	210	415	415	415	415	415	0
2002.1	204	350	350	350	350	350	0
2002.2	198	282	282	282	282	282	0
2003.1	192	331	331	331	331	331	0
2003.2	186	253	253	253	253	253	0
2004.1	180	69	69	69	69	69	0
2004.2	174	242	242	242	242	242	0
2005.1	168	233	233	233	233	233	0
2005.2	162	317	317	317	317	297	20
2006.1	156	397	397	397	397	397	0
2006.2	150	314	314	314	314	314	0
2007.1	144	123	123	123	123	123	0
2007.2	138	154	154	154	154	154	0
2008.1	132	56	56	56	56	56	0
2008.2	126	136	136	136	136	136	(0)
2009.1	120	174	174	174	174	177	(3)
2009.2	114	175	175	175	175	178	(2)
2010.1	108	97	97	99	99	99	0
2010.2	102	173	173	176	176	176	0
2011.1	96	422	422	429	429	429	0
2011.2	90	331	326	336	336	328	8
2012.1	84	421	421	427	427	421	7
2012.2	78	148	148	149	149	149	1
2013.1	72	579	579	580	580	604	(24)
2013.2	66	358	350	360	360	346	13
2014.1	60	185	156	186	186	224	(38)
2014.2	54	614	366	616	616	645	(30)
2015.1	48	369	369	382	382	507	(125)
2015.2	42	700	371	778	778	724	54
2016.1	36	259	238	293	293	325	(32)
2016.2	30	404	261	471	471	486	(15)
2017.1	24	425	290	547	547	403	144
2017.2	18	323	215	412	412	318	94
2018.1	12	359	158	442	442		
2018.2	6	511	51	642	642		
Total		12,831	11,141	13,474	13,474	12,320	70

Province of Nova Scotia
Collision
Commercial Vehicles (including Fleets)
Selected Ultimate Claim Amount and ALAE Estimate
Data as of 12/31/18

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Accident Semester	Maturity (in Months)	Reported Incurred Claim Amount and ALAE (000)	Paid Claim Amount and ALAE (000)	Estimated Ultimate Claims and ALAE Reported Incurred Claim Amount and ALAE Development Method	Selected Ultimate Claim Amount and ALAE Estimate	Prior	Difference
1999.1	240	776	776	776	776	776	0
1999.2	234	705	705	705	705	705	0
2000.1	228	759	759	759	759	759	(0)
2000.2	222	1,000	1,000	1,000	1,000	1,000	0
2001.1	216	626	626	626	626	626	0
2001.2	210	1,057	1,057	1,057	1,057	1,057	0
2002.1	204	723	723	723	723	723	0
2002.2	198	693	693	693	693	693	0
2003.1	192	493	493	493	493	493	0
2003.2	186	642	642	642	642	642	0
2004.1	180	603	603	603	603	603	0
2004.2	174	661	661	661	661	661	0
2005.1	168	695	695	695	695	695	0
2005.2	162	715	715	715	715	715	0
2006.1	156	987	987	987	987	987	0
2006.2	150	1,028	1,028	1,028	1,028	1,028	0
2007.1	144	1,208	1,208	1,208	1,208	1,208	0
2007.2	138	978	978	978	978	978	0
2008.1	132	1,091	1,091	1,091	1,091	1,091	0
2008.2	126	1,046	1,046	1,046	1,046	1,046	0
2009.1	120	974	974	974	974	974	0
2009.2	114	995	995	995	995	995	0
2010.1	108	759	759	759	759	759	0
2010.2	102	1,070	1,070	1,070	1,070	1,070	0
2011.1	96	935	935	935	935	935	0
2011.2	90	859	859	859	859	859	0
2012.1	84	924	924	924	924	924	0
2012.2	78	805	805	805	805	805	0
2013.1	72	946	946	946	946	946	0
2013.2	66	971	971	971	971	971	0
2014.1	60	1,021	1,021	1,021	1,021	1,021	0
2014.2	54	915	915	915	915	915	0
2015.1	48	1,133	1,129	1,133	1,133	1,129	4
2015.2	42	1,080	1,080	1,080	1,080	1,080	(0)
2016.1	36	1,265	1,265	1,265	1,265	1,264	1
2016.2	30	1,533	1,533	1,533	1,533	1,523	10
2017.1	24	1,403	1,403	1,403	1,403	1,396	7
2017.2	18	1,465	1,453	1,453	1,453	1,452	1
2018.1	12	1,627	1,501	1,622	1,622		
2018.2	6	1,250	760	1,262	1,262		
Total		38,419	37,786	38,413	38,413	35,506	23

Province of Nova Scotia
Comprehensive - Total
Commercial Vehicles (including Fleets)

Selected Ultimate Claim Amount and ALAE Estimate
Data as of 12/31/18

(1)	(2)	(3)	(4)	(5)	(6)	(7)	(8)
Accident Semester	Maturity (in Months)	Reported Incurred Claim Amount and ALAE (000)	Paid Claim Amount and ALAE (000)	Estimated Ultimate Claims and ALAE Reported Incurred Claim Amount and ALAE Development Method	Selected Ultimate Claim Amount and ALAE Estimate	Prior	Difference
1999.1	240	688	688	688	688	688	0
1999.2	234	690	690	690	690	690	0
2000.1	228	583	583	583	583	583	0
2000.2	222	836	836	836	836	836	0
2001.1	216	1,049	1,049	1,049	1,049	1,049	0
2001.2	210	754	754	754	754	754	0
2002.1	204	676	676	676	676	676	0
2002.2	198	705	705	705	705	705	0
2003.1	192	541	541	541	541	541	0
2003.2	186	474	474	474	474	474	0
2004.1	180	512	512	512	512	512	0
2004.2	174	862	862	862	862	862	0
2005.1	168	677	677	677	677	677	0
2005.2	162	839	839	839	839	839	0
2006.1	156	613	613	613	613	613	0
2006.2	150	654	654	654	654	654	0
2007.1	144	741	741	741	741	741	0
2007.2	138	1,234	1,234	1,234	1,234	1,234	0
2008.1	132	853	853	853	853	853	0
2008.2	126	892	892	892	892	892	0
2009.1	120	735	735	735	735	735	0
2009.2	114	684	684	684	684	684	0
2010.1	108	466	466	466	466	466	0
2010.2	102	818	818	818	818	818	0
2011.1	96	726	726	726	726	726	0
2011.2	90	888	888	888	888	888	0
2012.1	84	638	638	638	638	638	0
2012.2	78	992	992	992	992	992	0
2013.1	72	555	555	555	555	555	0
2013.2	66	1,105	1,105	1,105	1,105	1,105	0
2014.1	60	747	747	747	747	743	3
2014.2	54	954	954	954	954	953	0
2015.1	48	966	966	966	966	966	0
2015.2	42	984	959	984	984	959	25
2016.1	36	1,001	1,001	1,001	1,001	1,055	(54)
2016.2	30	1,093	1,090	1,093	1,093	1,047	46
2017.1	24	982	982	979	979	966	13
2017.2	18	1,282	1,266	1,271	1,271	1,201	70
2018.1	12	896	830	890	890		
2018.2	6	1,100	716	1,159	1,159		
Total		32,486	31,991	32,525	32,525	30,372	104

Province of Nova Scotia
Third Party Liability - Bodily Injury
Commercial Vehicles (including Fleets)

Selected Ultimate Claim Counts
Data as of 12/31/18

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Accident Semester	Maturity (in Months)	Reported Claim Counts	Estimated Ultimate Claim Counts Reported Claim Counts Development Method	Selected Ultimate Claim Counts	Prior	Difference
1999.1	240	118	118	118	118	0
1999.2	234	138	138	138	138	0
2000.1	228	116	116	116	116	0
2000.2	222	158	158	158	158	0
2001.1	216	182	182	182	182	0
2001.2	210	162	162	162	162	0
2002.1	204	126	126	126	126	0
2002.2	198	148	148	148	148	0
2003.1	192	134	134	134	134	0
2003.2	186	117	117	117	117	0
2004.1	180	86	86	86	86	0
2004.2	174	111	111	111	111	0
2005.1	168	94	94	94	94	0
2005.2	162	126	126	126	126	0
2006.1	156	100	100	100	100	0
2006.2	150	117	117	117	117	0
2007.1	144	105	105	105	105	0
2007.2	138	83	83	83	83	0
2008.1	132	76	76	76	76	0
2008.2	126	100	100	100	100	0
2009.1	120	83	83	83	83	0
2009.2	114	70	70	70	70	0
2010.1	108	74	74	74	74	0
2010.2	102	83	83	83	83	0
2011.1	96	102	102	102	103	(1)
2011.2	90	79	79	79	79	(0)
2012.1	84	76	76	76	77	(1)
2012.2	78	94	94	94	94	(0)
2013.1	72	93	93	93	95	(2)
2013.2	66	86	86	86	86	0
2014.1	60	68	68	68	71	(3)
2014.2	54	93	92	92	96	(4)
2015.1	48	100	99	99	103	(4)
2015.2	42	89	88	88	94	(5)
2016.1	36	86	87	87	91	(4)
2016.2	30	118	119	119	119	0
2017.1	24	108	110	110	110	1
2017.2	18	93	96	96	93	2
2018.1	12	79	82	82		
2018.2	6	66	78	78		
Total		4,137	4,156	4,156	4,017	(22)

Province of Nova Scotia
Third Party Liability - Total Property Damage
Commercial Vehicles (including Fleets)

Selected Ultimate Claim Counts
Data as of 12/31/18

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Accident Semester	Maturity (in Months)	Reported Claim Counts	Estimated Ultimate Claim Counts Reported Claim Counts Development Method	Selected Ultimate Claim Counts	Prior	Difference
1999.1	240	513	513	513	513	0
1999.2	234	562	562	562	562	0
2000.1	228	506	506	506	506	0
2000.2	222	607	607	607	607	0
2001.1	216	663	663	663	663	0
2001.2	210	570	570	570	570	0
2002.1	204	451	451	451	451	0
2002.2	198	414	414	414	414	0
2003.1	192	436	436	436	436	0
2003.2	186	345	345	345	345	0
2004.1	180	371	371	371	371	0
2004.2	174	434	434	434	434	0
2005.1	168	384	384	384	384	0
2005.2	162	400	400	400	400	0
2006.1	156	418	418	418	418	0
2006.2	150	424	424	424	424	0
2007.1	144	432	432	432	432	0
2007.2	138	499	499	499	499	0
2008.1	132	455	455	455	455	0
2008.2	126	469	469	469	469	0
2009.1	120	467	467	467	467	0
2009.2	114	497	497	497	497	0
2010.1	108	414	414	414	414	0
2010.2	102	505	505	505	505	0
2011.1	96	521	521	521	521	0
2011.2	90	511	511	511	511	0
2012.1	84	448	448	448	448	(0)
2012.2	78	534	534	534	534	(0)
2013.1	72	420	420	420	420	(0)
2013.2	66	352	352	352	352	0
2014.1	60	355	355	355	355	0
2014.2	54	321	321	321	322	(1)
2015.1	48	419	419	419	415	4
2015.2	42	337	337	337	338	(1)
2016.1	36	320	320	320	319	1
2016.2	30	340	340	340	332	8
2017.1	24	343	345	345	351	(7)
2017.2	18	319	321	321	320	1
2018.1	12	358	362	362		
2018.2	6	375	379	379		
Total		17,509	17,521	17,521	16,775	5

Province of Nova Scotia
Accident Benefits - Total
Commercial Vehicles (including Fleets)

Selected Ultimate Claim Counts
Data as of 12/31/18

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Accident Semester	Maturity (in Months)	Reported Claim Counts	Estimated Ultimate Claim Counts Reported Claim Counts Development Method	Selected Ultimate Claim Counts	Prior	Difference
1999.1	240	69	69	69	69	0
1999.2	234	55	55	55	55	0
2000.1	228	71	71	71	71	0
2000.2	222	89	89	89	89	0
2001.1	216	85	85	85	85	0
2001.2	210	56	56	56	56	0
2002.1	204	60	60	60	60	0
2002.2	198	69	69	69	69	0
2003.1	192	57	57	57	57	0
2003.2	186	46	46	46	46	0
2004.1	180	24	24	24	24	0
2004.2	174	49	49	49	49	0
2005.1	168	41	41	41	41	0
2005.2	162	37	37	37	37	0
2006.1	156	53	53	53	53	0
2006.2	150	43	43	43	43	0
2007.1	144	34	34	34	34	0
2007.2	138	40	40	40	40	0
2008.1	132	21	21	21	21	0
2008.2	126	38	38	38	38	0
2009.1	120	24	24	24	24	0
2009.2	114	38	38	38	38	0
2010.1	108	27	27	27	27	0
2010.2	102	42	42	42	42	0
2011.1	96	30	30	30	30	0
2011.2	90	38	38	38	38	0
2012.1	84	29	29	29	29	0
2012.2	78	29	29	29	30	(1)
2013.1	72	44	44	44	44	0
2013.2	66	45	45	45	45	0
2014.1	60	40	40	40	42	(2)
2014.2	54	56	56	56	58	(2)
2015.1	48	40	40	40	43	(3)
2015.2	42	57	57	57	64	(7)
2016.1	36	49	49	49	49	(1)
2016.2	30	52	52	52	53	(1)
2017.1	24	50	50	50	47	2
2017.2	18	48	47	47	40	6
2018.1	12	44	41	41		
2018.2	6	68	59	59		
Total		1,887	1,872	1,872	1,780	(7)

Province of Nova Scotia
Collision
Commercial Vehicles (including Fleets)

Selected Ultimate Claim Counts
Data as of 12/31/18

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Accident Semester	Maturity (in Months)	Reported Claim Counts	Estimated Ultimate Claim Counts Reported Claim Counts Development Method	Selected Ultimate Claim Counts	Prior	Difference
1999.1	240	183	183	183	183	0
1999.2	234	186	186	186	186	0
2000.1	228	189	189	189	189	0
2000.2	222	232	232	232	232	0
2001.1	216	201	201	201	201	0
2001.2	210	195	195	195	195	0
2002.1	204	153	153	153	153	0
2002.2	198	144	144	144	144	0
2003.1	192	131	131	131	131	0
2003.2	186	121	121	121	121	0
2004.1	180	120	120	120	120	0
2004.2	174	116	116	116	116	0
2005.1	168	145	145	145	145	0
2005.2	162	143	143	143	143	0
2006.1	156	159	159	159	159	0
2006.2	150	178	178	178	178	0
2007.1	144	188	188	188	188	0
2007.2	138	203	203	203	203	0
2008.1	132	202	202	202	202	0
2008.2	126	199	199	199	199	0
2009.1	120	205	205	205	205	0
2009.2	114	208	208	208	208	0
2010.1	108	178	178	178	178	0
2010.2	102	211	211	211	211	0
2011.1	96	198	198	198	198	0
2011.2	90	190	190	190	190	0
2012.1	84	178	178	178	178	0
2012.2	78	171	171	171	171	0
2013.1	72	187	187	187	187	0
2013.2	66	154	154	154	154	0
2014.1	60	147	147	147	153	(6)
2014.2	54	128	128	128	135	(7)
2015.1	48	171	171	171	178	(7)
2015.2	42	129	129	129	133	(4)
2016.1	36	146	146	146	146	0
2016.2	30	148	148	148	152	(4)
2017.1	24	168	168	168	170	(2)
2017.2	18	141	140	140	163	(23)
2018.1	12	169	167	167		
2018.2	6	155	150	150		
Total		6,770	6,762	6,762	6,498	(53)

Province of Nova Scotia
Comprehensive - Total
Commercial Vehicles (including Fleets)

Selected Ultimate Claim Counts
Data as of 12/31/18

(1)	(2)	(3)	(4)	(5)	(6)	(7)
Accident Semester	Maturity (in Months)	Reported Claim Counts	Estimated Ultimate Claim Counts Reported Claim Counts Development Method	Selected Ultimate Claim Counts	Prior	Difference
1999.1	240	659	659	659	659	0
1999.2	234	617	617	617	617	0
2000.1	228	630	630	630	630	0
2000.2	222	642	642	642	642	0
2001.1	216	726	726	726	726	0
2001.2	210	539	539	539	539	0
2002.1	204	510	510	510	510	0
2002.2	198	433	433	433	433	0
2003.1	192	343	343	343	343	0
2003.2	186	263	263	263	263	0
2004.1	180	259	259	259	259	0
2004.2	174	243	243	243	243	0
2005.1	168	289	289	289	289	0
2005.2	162	296	296	296	296	0
2006.1	156	287	287	287	287	0
2006.2	150	301	301	301	301	0
2007.1	144	319	319	319	319	0
2007.2	138	359	359	359	359	0
2008.1	132	334	334	334	334	0
2008.2	126	312	312	312	312	0
2009.1	120	367	367	367	367	0
2009.2	114	350	350	350	350	0
2010.1	108	285	285	285	285	0
2010.2	102	291	291	291	291	0
2011.1	96	342	342	342	342	0
2011.2	90	391	391	391	391	0
2012.1	84	322	322	322	322	0
2012.2	78	370	370	370	370	0
2013.1	72	314	314	314	314	0
2013.2	66	361	361	361	361	0
2014.1	60	348	348	348	356	(8)
2014.2	54	332	332	332	335	(3)
2015.1	48	395	395	395	403	(8)
2015.2	42	335	335	335	335	0
2016.1	36	381	381	381	383	(2)
2016.2	30	344	344	344	343	1
2017.1	24	343	344	344	339	4
2017.2	18	388	389	389	387	2
2018.1	12	353	354	354		
2018.2	6	330	378	378		
Total		15,303	15,353	15,353	14,635	(14)

BI

Coverage = BI
 End Trend Period = 2016
 Excluded Points = NA

Fit	Start Date	Trend	Conf Int.	Adj R ²	P-Value: (Intercept)	P-Value: Time
Loss Cost	2004	0.64	+/- 3.58	-7.6%	0.000	0.701
Loss Cost	2005	1.81	+/- 3.95	0.6%	0.000	0.326
Loss Cost	2006	3.09	+/- 4.44	13.5%	0.000	0.144
Loss Cost	2007	3.38	+/- 5.54	10.5%	0.000	0.190
Loss Cost	2008	4.32	+/- 7.00	13.2%	0.000	0.180
Loss Cost	2009	7.13	+/- 8.08	36.5%	0.000	0.066
Loss Cost	2010	2.93	+/- 7.22	2.0%	0.000	0.338
Loss Cost	2011	6.37	+/- 8.19	44.2%	0.001	0.090
Loss Cost	2012	8.74	+/- 13.05	49.8%	0.009	0.112
Severity	2004	2.98	+/- 3.16	22.2%	0.000	0.059
Severity	2005	4.04	+/- 3.46	35.5%	0.000	0.024
Severity	2006	4.61	+/- 4.15	35.9%	0.000	0.030
Severity	2007	3.65	+/- 4.90	18.7%	0.000	0.118
Severity	2008	3.60	+/- 6.29	10.1%	0.000	0.211
Severity	2009	5.42	+/- 7.88	22.1%	0.000	0.134
Severity	2010	1.63	+/- 7.73	-13.2%	0.000	0.607
Severity	2011	5.43	+/- 8.53	31.5%	0.000	0.143
Severity	2012	5.40	+/- 14.96	9.1%	0.001	0.322
Frequency	2004	-2.27	+/- 1.76	36.3%	0.000	0.017
Frequency	2005	-2.14	+/- 2.11	26.8%	0.000	0.049
Frequency	2006	-1.45	+/- 2.34	8.4%	0.000	0.199
Frequency	2007	-0.26	+/- 2.23	-11.5%	0.000	0.797
Frequency	2008	0.70	+/- 2.38	-7.0%	0.000	0.511
Frequency	2009	1.63	+/- 2.72	14.4%	0.001	0.190
Frequency	2010	1.28	+/- 3.76	-3.9%	0.006	0.419
Frequency	2011	0.89	+/- 5.65	-19.2%	0.028	0.683
Frequency	2012	3.17	+/- 7.80	15.4%	0.170	0.280

BI

Coverage = BI
End Trend Period = 2017
Excluded Points = NA

Fit	Start Date	Trend	Conf Int.	Adj R ²	P-Value: (Intercept)	P-Value: Time
Loss Cost	2004	1.72	+/- 3.36	2.0%	0.000	0.282
Loss Cost	2005	2.89	+/- 3.61	15.5%	0.000	0.101
Loss Cost	2006	4.15	+/- 3.92	30.4%	0.000	0.037
Loss Cost	2007	4.59	+/- 4.76	28.5%	0.000	0.053
Loss Cost	2008	5.59	+/- 5.77	32.2%	0.000	0.051
Loss Cost	2009	8.09	+/- 6.23	53.4%	0.000	0.015
Loss Cost	2010	5.12	+/- 6.10	33.0%	0.000	0.079
Loss Cost	2011	8.27	+/- 6.16	66.5%	0.000	0.016
Loss Cost	2012	10.52	+/- 8.09	72.9%	0.001	0.019
Loss Cost	2013	13.16	+/- 12.44	74.8%	0.015	0.037
Severity	2004	3.51	+/- 2.78	34.5%	0.000	0.016
Severity	2005	4.50	+/- 2.96	47.1%	0.000	0.006
Severity	2006	5.05	+/- 3.46	47.8%	0.000	0.008
Severity	2007	4.34	+/- 4.05	33.9%	0.000	0.035
Severity	2008	4.44	+/- 5.06	26.7%	0.000	0.073
Severity	2009	6.05	+/- 5.99	38.7%	0.000	0.043
Severity	2010	3.34	+/- 6.08	11.0%	0.000	0.221
Severity	2011	6.59	+/- 5.90	56.5%	0.000	0.031
Severity	2012	6.96	+/- 9.01	44.0%	0.000	0.091
Severity	2013	8.65	+/- 15.32	38.7%	0.001	0.157
Frequency	2004	-1.73	+/- 1.65	24.0%	0.000	0.043
Frequency	2005	-1.54	+/- 1.93	14.4%	0.000	0.110
Frequency	2006	-0.85	+/- 2.08	-1.6%	0.000	0.385
Frequency	2007	0.24	+/- 1.91	-10.2%	0.000	0.786
Frequency	2008	1.10	+/- 1.94	7.5%	0.000	0.225
Frequency	2009	1.92	+/- 2.08	32.5%	0.000	0.063
Frequency	2010	1.73	+/- 2.75	16.7%	0.002	0.172
Frequency	2011	1.58	+/- 3.86	2.0%	0.010	0.338
Frequency	2012	3.34	+/- 4.47	40.8%	0.063	0.103
Frequency	2013	4.15	+/- 7.55	35.4%	0.271	0.172

BI

Coverage = BI
End Trend Period = 2018
Excluded Points = NA

Fit	Start Date	Trend	Conf Int.	Adj R ²	P-Value: (Intercept)	P-Value: Time
Loss Cost	2004	1.68	+/- 2.88	4.2%	0.000	0.226
Loss Cost	2005	2.68	+/- 3.06	17.4%	0.000	0.077
Loss Cost	2006	3.71	+/- 3.31	30.8%	0.000	0.029
Loss Cost	2007	4.00	+/- 3.95	28.1%	0.000	0.044
Loss Cost	2008	4.70	+/- 4.72	30.1%	0.000	0.047
Loss Cost	2009	6.50	+/- 5.22	46.4%	0.000	0.018
Loss Cost	2010	3.88	+/- 4.81	25.8%	0.000	0.093
Loss Cost	2011	5.89	+/- 5.41	48.2%	0.000	0.034
Loss Cost	2012	6.78	+/- 7.49	44.4%	0.000	0.061
Loss Cost	2013	7.23	+/- 11.45	31.6%	0.005	0.143
Loss Cost	2014	4.25	+/- 17.71	-10.6%	0.020	0.490
Severity	2004	3.78	+/- 2.42	43.7%	0.000	0.004
Severity	2005	4.67	+/- 2.52	55.2%	0.000	0.001
Severity	2006	5.16	+/- 2.90	55.8%	0.000	0.002
Severity	2007	4.59	+/- 3.34	44.4%	0.000	0.011
Severity	2008	4.71	+/- 4.08	38.1%	0.000	0.025
Severity	2009	6.06	+/- 4.66	48.7%	0.000	0.015
Severity	2010	3.95	+/- 4.65	28.5%	0.000	0.080
Severity	2011	6.55	+/- 4.18	67.6%	0.000	0.008
Severity	2012	6.80	+/- 5.89	58.4%	0.000	0.028
Severity	2013	7.87	+/- 8.76	53.4%	0.000	0.060
Severity	2014	4.81	+/- 12.26	13.8%	0.001	0.291
Frequency	2004	-2.02	+/- 1.46	35.7%	0.000	0.011
Frequency	2005	-1.90	+/- 1.69	27.2%	0.000	0.032
Frequency	2006	-1.38	+/- 1.85	12.1%	0.000	0.132
Frequency	2007	-0.57	+/- 1.86	-5.2%	0.000	0.514
Frequency	2008	-0.01	+/- 2.11	-11.1%	0.000	0.991
Frequency	2009	0.42	+/- 2.55	-10.5%	0.000	0.717
Frequency	2010	-0.06	+/- 3.16	-14.3%	0.001	0.964
Frequency	2011	-0.62	+/- 4.08	-14.1%	0.004	0.725
Frequency	2012	-0.02	+/- 5.66	-20.0%	0.026	0.994
Frequency	2013	-0.59	+/- 8.50	-23.8%	0.076	0.856
Frequency	2014	-0.53	+/- 14.92	-32.8%	0.231	0.918

BI

Coverage = BI
End Trend Period = 2016
Excluded Points = 2009

Fit	Start Date	Trend	Conf Int.	Adj R²	P-Value: (Intercept)	P-Value: Time
Loss Cost	2004	0.31	+/- 2.38	-9.1%	0.000	0.775
Loss Cost	2005	1.22	+/- 2.53	2.0%	0.000	0.301
Loss Cost	2006	2.12	+/- 2.83	18.7%	0.000	0.118
Loss Cost	2007	1.71	+/- 3.58	3.6%	0.000	0.291
Loss Cost	2008	1.50	+/- 4.91	-6.5%	0.000	0.479
Loss Cost	2010	2.93	+/- 7.22	2.0%	0.000	0.338
Loss Cost	2011	6.37	+/- 8.19	44.2%	0.001	0.090
Loss Cost	2012	8.74	+/- 13.05	49.8%	0.009	0.112
Severity	2004	2.76	+/- 2.71	28.0%	0.000	0.045
Severity	2005	3.66	+/- 3.00	40.9%	0.000	0.020
Severity	2006	3.96	+/- 3.72	37.0%	0.000	0.037
Severity	2007	2.38	+/- 3.95	11.9%	0.000	0.192
Severity	2008	1.26	+/- 5.03	-9.7%	0.000	0.559
Severity	2010	1.63	+/- 7.73	-13.2%	0.000	0.607
Severity	2011	5.43	+/- 8.53	31.5%	0.000	0.143
Severity	2012	5.40	+/- 14.96	9.1%	0.001	0.322
Frequency	2004	-2.38	+/- 1.59	47.2%	0.000	0.008
Frequency	2005	-2.35	+/- 1.93	39.1%	0.000	0.023
Frequency	2006	-1.77	+/- 2.22	20.3%	0.000	0.107
Frequency	2007	-0.65	+/- 2.23	-7.0%	0.000	0.512
Frequency	2008	0.24	+/- 2.69	-15.8%	0.000	0.835
Frequency	2010	1.28	+/- 3.76	-3.9%	0.006	0.419
Frequency	2011	0.89	+/- 5.65	-19.2%	0.028	0.683
Frequency	2012	3.17	+/- 7.80	15.4%	0.170	0.280

BI

Coverage = BI
End Trend Period = 2017
Excluded Points = 2009

Fit	Start Date	Trend	Conf Int.	Adj R²	P-Value: (Intercept)	P-Value: Time
Loss Cost	2004	1.32	+/- 2.45	3.5%	0.000	0.257
Loss Cost	2005	2.26	+/- 2.57	21.1%	0.000	0.075
Loss Cost	2006	3.22	+/- 2.79	37.6%	0.000	0.026
Loss Cost	2007	3.11	+/- 3.51	26.8%	0.000	0.072
Loss Cost	2008	3.32	+/- 4.64	19.7%	0.000	0.129
Loss Cost	2010	5.12	+/- 6.10	33.0%	0.000	0.079
Loss Cost	2011	8.27	+/- 6.16	66.5%	0.000	0.016
Loss Cost	2012	10.52	+/- 8.09	72.9%	0.001	0.019
Loss Cost	2013	13.16	+/- 12.44	74.8%	0.015	0.037
Severity	2004	3.24	+/- 2.39	40.5%	0.000	0.011
Severity	2005	4.09	+/- 2.57	52.4%	0.000	0.005
Severity	2006	4.43	+/- 3.11	49.6%	0.000	0.009
Severity	2007	3.22	+/- 3.38	30.7%	0.000	0.056
Severity	2008	2.55	+/- 4.30	11.2%	0.000	0.199
Severity	2010	3.34	+/- 6.08	11.0%	0.000	0.221
Severity	2011	6.59	+/- 5.90	56.5%	0.000	0.031
Severity	2012	6.96	+/- 9.01	44.0%	0.000	0.091
Severity	2013	8.65	+/- 15.32	38.7%	0.001	0.157
Frequency	2004	-1.86	+/- 1.52	34.0%	0.000	0.021
Frequency	2005	-1.76	+/- 1.81	24.8%	0.000	0.057
Frequency	2006	-1.16	+/- 2.01	6.3%	0.000	0.228
Frequency	2007	-0.11	+/- 1.95	-12.3%	0.000	0.903
Frequency	2008	0.76	+/- 2.19	-4.3%	0.000	0.440
Frequency	2010	1.73	+/- 2.75	16.7%	0.002	0.172
Frequency	2011	1.58	+/- 3.86	2.0%	0.010	0.338
Frequency	2012	3.34	+/- 4.47	40.8%	0.063	0.103
Frequency	2013	4.15	+/- 7.55	35.4%	0.271	0.172

BI

Coverage = BI
End Trend Period = 2018
Excluded Points = 2009

Fit	Start Date	Trend	Conf Int.	Adj R²	P-Value: (Intercept)	P-Value: Time
Loss Cost	2004	1.25	+/- 2.09	5.2%	0.000	0.215
Loss Cost	2005	2.05	+/- 2.18	21.9%	0.000	0.061
Loss Cost	2006	2.83	+/- 2.37	36.3%	0.000	0.022
Loss Cost	2007	2.66	+/- 2.91	25.4%	0.000	0.065
Loss Cost	2008	2.72	+/- 3.73	17.6%	0.000	0.126
Loss Cost	2010	3.88	+/- 4.81	25.8%	0.000	0.093
Loss Cost	2011	5.89	+/- 5.41	48.2%	0.000	0.034
Loss Cost	2012	6.78	+/- 7.49	44.4%	0.000	0.061
Loss Cost	2013	7.23	+/- 11.45	31.6%	0.005	0.143
Loss Cost	2014	4.25	+/- 17.71	-10.6%	0.020	0.490
Severity	2004	3.49	+/- 2.08	49.7%	0.000	0.003
Severity	2005	4.26	+/- 2.19	60.3%	0.000	0.001
Severity	2006	4.58	+/- 2.59	57.9%	0.000	0.002
Severity	2007	3.59	+/- 2.80	43.5%	0.000	0.016
Severity	2008	3.14	+/- 3.51	27.4%	0.000	0.069
Severity	2010	3.95	+/- 4.65	28.5%	0.000	0.080
Severity	2011	6.55	+/- 4.18	67.6%	0.000	0.008
Severity	2012	6.80	+/- 5.89	58.4%	0.000	0.028
Severity	2013	7.87	+/- 8.76	53.4%	0.000	0.060
Severity	2014	4.81	+/- 12.26	13.8%	0.001	0.291
Frequency	2004	-2.17	+/- 1.36	45.5%	0.000	0.005
Frequency	2005	-2.12	+/- 1.60	38.0%	0.000	0.015
Frequency	2006	-1.67	+/- 1.81	22.4%	0.000	0.068
Frequency	2007	-0.90	+/- 1.91	1.2%	0.000	0.317
Frequency	2008	-0.40	+/- 2.35	-10.3%	0.000	0.703
Frequency	2010	-0.06	+/- 3.16	-14.3%	0.001	0.964
Frequency	2011	-0.62	+/- 4.08	-14.1%	0.004	0.725
Frequency	2012	-0.02	+/- 5.66	-20.0%	0.026	0.994
Frequency	2013	-0.59	+/- 8.50	-23.8%	0.076	0.856
Frequency	2014	-0.53	+/- 14.92	-32.8%	0.231	0.918

BI

Coverage = BI
 End Trend Period = 2018
 Scalar Level Change Start Date = 2010-04-01
 Excluded Points = 2009

Fit	Start Date	Trend	Conf Int.	Level Change Value	Adj R ²	P-Value: (Intercept)	P-Value: Scalar Level	P-Value: Time
Loss Cost	2004	3.24	+/- 4.71	0.813	6.1%	0.000	0.313	0.152
Loss Cost	2005	4.34	+/- 4.47	0.794	26.9%	0.000	0.215	0.052
Loss Cost	2006	4.98	+/- 4.37	0.803	41.0%	0.000	0.213	0.027
Loss Cost	2007	4.83	+/- 4.68	0.787	32.1%	0.000	0.207	0.041
Loss Cost	2008	4.78	+/- 5.00	0.745	27.4%	0.000	0.192	0.054
Loss Cost	2010	5.89	+/- 5.41	0.313	41.0%	0.000	0.145	0.034
Loss Cost	2011	5.89	+/- 5.41	NA	48.2%	0.000		0.034
Loss Cost	2012	6.78	+/- 7.49	NA	44.4%	0.000		0.061
Loss Cost	2013	7.23	+/- 11.45	NA	31.6%	0.005		0.143
Loss Cost	2014	4.25	+/- 17.71	NA	-10.6%	0.020		0.490
Severity	2004	4.26	+/- 4.82	0.924	45.9%	0.000	0.699	0.072
Severity	2005	5.27	+/- 4.72	0.904	57.6%	0.000	0.594	0.029
Severity	2006	5.53	+/- 5.11	0.908	54.5%	0.000	0.626	0.033
Severity	2007	5.04	+/- 4.74	0.853	42.4%	0.000	0.393	0.036
Severity	2008	4.96	+/- 4.78	0.772	33.7%	0.000	0.225	0.040
Severity	2010	6.55	+/- 4.18	0.223	64.0%	0.000	0.031	0.008
Severity	2011	6.55	+/- 4.18	NA	67.6%	0.000		0.008
Severity	2012	6.80	+/- 5.89	NA	58.4%	0.000		0.028
Severity	2013	7.87	+/- 8.76	NA	53.4%	0.000		0.060
Severity	2014	4.81	+/- 12.26	NA	13.8%	0.001		0.291
Frequency	2004	-0.97	+/- 3.05	0.880	45.3%	0.000	0.352	0.498
Frequency	2005	-0.89	+/- 3.36	0.878	37.4%	0.000	0.369	0.571
Frequency	2006	-0.52	+/- 3.46	0.884	21.0%	0.000	0.391	0.744
Frequency	2007	-0.20	+/- 3.30	0.923	-6.0%	0.000	0.550	0.891
Frequency	2008	-0.17	+/- 3.51	0.965	-25.1%	0.000	0.821	0.914
Frequency	2010	-0.62	+/- 4.08	1.401	-25.6%	0.082	0.567	0.725
Frequency	2011	-0.62	+/- 4.08	NA	-14.1%	0.004		0.725
Frequency	2012	-0.02	+/- 5.66	NA	-20.0%	0.026		0.994
Frequency	2013	-0.59	+/- 8.50	NA	-23.8%	0.076		0.856
Frequency	2014	-0.53	+/- 14.92	NA	-32.8%	0.231		0.918

Total PD

Coverage = Total PD
End Trend Period = 2018
Excluded Points = NA

Fit	Start Date	Trend	Conf Int.	Adj R ²	P-Value: (Intercept)	P-Value: Time
Loss Cost	2004	0.36	+/- 1.69	-6.0%	0.000	0.654
Loss Cost	2005	0.48	+/- 1.96	-5.8%	0.000	0.601
Loss Cost	2006	0.81	+/- 2.27	-3.2%	0.000	0.445
Loss Cost	2007	1.49	+/- 2.53	6.3%	0.000	0.216
Loss Cost	2008	2.06	+/- 2.98	13.0%	0.000	0.148
Loss Cost	2009	2.65	+/- 3.61	17.8%	0.000	0.124
Loss Cost	2010	2.80	+/- 4.64	12.1%	0.000	0.191
Loss Cost	2011	2.95	+/- 6.20	5.4%	0.000	0.282
Loss Cost	2012	3.64	+/- 8.69	3.3%	0.001	0.322
Loss Cost	2013	5.96	+/- 12.51	14.7%	0.009	0.244
Loss Cost	2014	6.99	+/- 22.03	2.6%	0.060	0.370
Severity	2004	3.50	+/- 2.53	37.1%	0.000	0.009
Severity	2005	4.09	+/- 2.84	41.4%	0.000	0.008
Severity	2006	5.26	+/- 2.90	56.7%	0.000	0.002
Severity	2007	6.78	+/- 2.65	75.5%	0.000	0.000
Severity	2008	7.91	+/- 2.73	81.9%	0.000	0.000
Severity	2009	9.23	+/- 2.69	88.2%	0.000	0.000
Severity	2010	9.77	+/- 3.35	86.5%	0.000	0.000
Severity	2011	10.36	+/- 4.37	83.8%	0.000	0.001
Severity	2012	9.48	+/- 5.85	75.0%	0.000	0.007
Severity	2013	8.75	+/- 8.73	59.8%	0.000	0.044
Severity	2014	8.09	+/- 15.11	35.1%	0.002	0.173
Frequency	2004	-3.04	+/- 1.65	50.6%	0.000	0.002
Frequency	2005	-3.46	+/- 1.81	54.7%	0.000	0.002
Frequency	2006	-4.22	+/- 1.80	67.3%	0.000	0.000
Frequency	2007	-4.96	+/- 1.82	75.5%	0.000	0.000
Frequency	2008	-5.42	+/- 2.09	76.0%	0.000	0.000
Frequency	2009	-6.02	+/- 2.40	77.2%	0.000	0.001
Frequency	2010	-6.35	+/- 3.03	73.4%	0.000	0.002
Frequency	2011	-6.72	+/- 3.97	68.1%	0.000	0.007
Frequency	2012	-5.33	+/- 4.96	51.0%	0.000	0.043
Frequency	2013	-2.57	+/- 4.51	22.4%	0.001	0.193
Frequency	2014	-1.02	+/- 6.72	-23.8%	0.006	0.663

Total PD

Coverage = Total PD
End Trend Period = 2018
Excluded Points = 2015

Fit	Start Date	Trend	Conf Int.	Adj R ²	P-Value: (Intercept)	P-Value: Time
Loss Cost	2004	0.10	+/- 1.70	-8.2%	0.000	0.901
Loss Cost	2005	0.21	+/- 1.98	-8.6%	0.000	0.824
Loss Cost	2006	0.52	+/- 2.30	-7.3%	0.000	0.625
Loss Cost	2007	1.19	+/- 2.56	1.1%	0.000	0.320
Loss Cost	2008	1.75	+/- 3.02	8.3%	0.000	0.215
Loss Cost	2009	2.34	+/- 3.66	14.3%	0.000	0.171
Loss Cost	2010	2.51	+/- 4.77	9.1%	0.000	0.240
Loss Cost	2011	2.74	+/- 6.52	3.2%	0.000	0.323
Loss Cost	2012	3.64	+/- 9.45	3.7%	0.002	0.336
Loss Cost	2013	6.64	+/- 13.75	27.7%	0.017	0.210
Loss Cost	2014	10.11	+/- 29.42	32.8%	0.127	0.257
Severity	2004	3.21	+/- 2.63	32.6%	0.000	0.019
Severity	2005	3.78	+/- 2.96	37.4%	0.000	0.016
Severity	2006	4.95	+/- 3.02	54.2%	0.000	0.004
Severity	2007	6.47	+/- 2.68	75.4%	0.000	0.000
Severity	2008	7.59	+/- 2.70	83.1%	0.000	0.000
Severity	2009	8.90	+/- 2.47	90.7%	0.000	0.000
Severity	2010	9.47	+/- 3.04	89.9%	0.000	0.000
Severity	2011	10.14	+/- 3.93	88.8%	0.000	0.001
Severity	2012	9.48	+/- 5.53	82.7%	0.000	0.008
Severity	2013	9.26	+/- 9.30	71.4%	0.001	0.045
Severity	2014	10.00	+/- 21.61	53.2%	0.013	0.170
Frequency	2004	-3.01	+/- 1.79	48.2%	0.000	0.004
Frequency	2005	-3.44	+/- 1.97	52.5%	0.000	0.003
Frequency	2006	-4.22	+/- 1.96	65.6%	0.000	0.001
Frequency	2007	-4.96	+/- 2.00	74.3%	0.000	0.000
Frequency	2008	-5.43	+/- 2.31	74.9%	0.000	0.001
Frequency	2009	-6.03	+/- 2.67	76.3%	0.000	0.001
Frequency	2010	-6.35	+/- 3.42	72.4%	0.000	0.005
Frequency	2011	-6.72	+/- 4.59	67.1%	0.000	0.015
Frequency	2012	-5.33	+/- 5.97	49.1%	0.001	0.073
Frequency	2013	-2.39	+/- 5.49	18.0%	0.003	0.264
Frequency	2014	0.10	+/- 7.12	-49.7%	0.015	0.957

Total PD

Coverage = Total PD
End Trend Period = 2017
Excluded Points = 2015

Fit	Start Date	Trend	Conf Int.	Adj R ²	P-Value: (Intercept)	P-Value: Time
Loss Cost	2004	-1.20	+/- 0.81	44.2%	0.000	0.008
Loss Cost	2005	-1.29	+/- 0.95	42.2%	0.000	0.013
Loss Cost	2006	-1.18	+/- 1.13	31.0%	0.000	0.044
Loss Cost	2007	-0.70	+/- 1.14	10.2%	0.000	0.193
Loss Cost	2008	-0.41	+/- 1.34	-6.2%	0.000	0.489
Loss Cost	2009	-0.18	+/- 1.69	-15.4%	0.000	0.805
Loss Cost	2010	-0.61	+/- 2.11	-8.1%	0.000	0.491
Loss Cost	2011	-1.23	+/- 2.66	11.0%	0.000	0.272
Loss Cost	2012	-1.39	+/- 4.37	0.1%	0.000	0.390
Loss Cost	2013	0.54	+/- 3.21	-19.1%	0.001	0.546
Loss Cost	2014	1.54	+/- 9.18	64.5%	0.019	0.277
Severity	2004	1.89	+/- 2.47	13.5%	0.000	0.118
Severity	2005	2.34	+/- 2.86	18.0%	0.000	0.095
Severity	2006	3.49	+/- 2.94	39.3%	0.000	0.023
Severity	2007	5.05	+/- 2.49	71.0%	0.000	0.001
Severity	2008	6.14	+/- 2.48	81.6%	0.000	0.001
Severity	2009	7.47	+/- 2.00	92.7%	0.000	0.000
Severity	2010	7.82	+/- 2.64	91.1%	0.000	0.001
Severity	2011	8.22	+/- 3.75	88.6%	0.000	0.003
Severity	2012	6.67	+/- 3.90	88.4%	0.000	0.011
Severity	2013	5.16	+/- 4.50	89.2%	0.000	0.037
Severity	2014	3.60	+/- 1.85	99.7%	0.002	0.025
Frequency	2004	-3.03	+/- 2.13	41.4%	0.000	0.010
Frequency	2005	-3.55	+/- 2.38	46.7%	0.000	0.009
Frequency	2006	-4.51	+/- 2.37	62.5%	0.000	0.002
Frequency	2007	-5.48	+/- 2.37	74.2%	0.000	0.001
Frequency	2008	-6.18	+/- 2.69	76.9%	0.000	0.001
Frequency	2009	-7.11	+/- 2.97	81.6%	0.000	0.001
Frequency	2010	-7.82	+/- 3.73	81.1%	0.000	0.004
Frequency	2011	-8.73	+/- 4.93	80.8%	0.000	0.009
Frequency	2012	-7.55	+/- 7.41	68.6%	0.003	0.052
Frequency	2013	-4.40	+/- 6.99	66.7%	0.008	0.118
Frequency	2014	-1.99	+/- 10.62	69.5%	0.034	0.255

Total PD

Coverage = Total PD
 End Trend Period = 2018
 Scalar Level Change Start Date = 2013-04-01
 Excluded Points = NA

Fit	Start Date	Trend	Conf Int.	Level Change Value	Adj R ²	P-Value: (Intercept)	P-Value: Scalar Level	P-Value: Time
Loss Cost	2004	0.02	+/- 3.50	1.036	-14.2%	0.000	0.813	0.990
Loss Cost	2005	0.25	+/- 4.27	1.022	-15.2%	0.000	0.895	0.898
Loss Cost	2006	1.06	+/- 5.19	0.979	-13.4%	0.000	0.908	0.658
Loss Cost	2007	2.89	+/- 5.96	0.896	-0.1%	0.000	0.564	0.295
Loss Cost	2008	4.62	+/- 6.98	0.834	12.3%	0.000	0.366	0.157
Loss Cost	2009	6.32	+/- 8.10	0.788	22.7%	0.000	0.260	0.099
Loss Cost	2010	6.83	+/- 9.80	0.779	16.8%	0.000	0.282	0.128
Loss Cost	2011	6.91	+/- 11.75	0.780	7.8%	0.001	0.331	0.178
Loss Cost	2012	6.91	+/- 14.29	0.780	-0.6%	0.005	0.421	0.236
Loss Cost	2013	6.99	+/- 22.03	0.760	-11.8%	0.030	0.832	0.370
Loss Cost	2014	6.99	+/- 22.03	NA	2.6%	0.060		0.370
Severity	2004	-1.31	+/- 3.70	1.653	63.2%	0.000	0.008	0.459
Severity	2005	-1.06	+/- 4.51	1.630	62.7%	0.000	0.017	0.616
Severity	2006	0.57	+/- 5.17	1.492	68.2%	0.000	0.050	0.812
Severity	2007	3.20	+/- 5.28	1.313	79.3%	0.000	0.125	0.196
Severity	2008	5.09	+/- 5.91	1.214	82.8%	0.000	0.259	0.076
Severity	2009	7.32	+/- 6.02	1.127	87.8%	0.000	0.431	0.020
Severity	2010	7.99	+/- 7.15	1.112	85.4%	0.000	0.512	0.029
Severity	2011	8.53	+/- 8.31	1.117	82.2%	0.000	0.525	0.040
Severity	2012	8.37	+/- 9.87	1.085	70.2%	0.000	0.688	0.070
Severity	2013	8.09	+/- 15.11	1.187	47.2%	0.001	0.846	0.173
Severity	2014	8.09	+/- 15.11	NA	35.1%	0.002		0.173
Frequency	2004	1.35	+/- 1.51	0.627	90.5%	0.000	0.000	0.075
Frequency	2005	1.33	+/- 1.84	0.627	90.3%	0.000	0.000	0.138
Frequency	2006	0.49	+/- 1.93	0.656	92.7%	0.000	0.000	0.585
Frequency	2007	-0.31	+/- 2.07	0.682	94.3%	0.000	0.000	0.746
Frequency	2008	-0.45	+/- 2.56	0.687	93.7%	0.000	0.001	0.697
Frequency	2009	-0.94	+/- 3.00	0.699	93.6%	0.000	0.002	0.486
Frequency	2010	-1.08	+/- 3.62	0.701	92.2%	0.000	0.006	0.497
Frequency	2011	-1.50	+/- 3.95	0.698	91.7%	0.000	0.008	0.378
Frequency	2012	-1.35	+/- 4.43	0.719	85.2%	0.000	0.024	0.449
Frequency	2013	-1.02	+/- 6.72	0.640	27.4%	0.002	0.340	0.663
Frequency	2014	-1.02	+/- 6.72	NA	-23.8%	0.006		0.663

Total PD

Coverage = Total PD
 End Trend Period = 2018
 Scalar Level Change Start Date = 2013-04-01
 Excluded Points = 2015

Fit	Start Date	Trend	Conf Int.	Level Change Value	Adj R ²	P-Value: (Intercept)	P-Value: Scalar Level	P-Value: Time
Loss Cost	2004	0.25	+/- 3.48	0.984	-17.9%	0.000	0.915	0.878
Loss Cost	2005	0.56	+/- 4.27	0.966	-18.9%	0.000	0.838	0.777
Loss Cost	2006	1.48	+/- 5.19	0.917	-16.3%	0.000	0.646	0.533
Loss Cost	2007	3.51	+/- 5.83	0.829	2.1%	0.000	0.326	0.195
Loss Cost	2008	5.51	+/- 6.61	0.760	21.6%	0.000	0.169	0.083
Loss Cost	2009	7.52	+/- 7.32	0.707	39.9%	0.000	0.093	0.040
Loss Cost	2010	8.26	+/- 8.98	0.695	37.8%	0.000	0.110	0.057
Loss Cost	2011	8.44	+/- 11.29	0.696	31.0%	0.002	0.158	0.096
Loss Cost	2012	8.44	+/- 15.06	0.696	22.8%	0.010	0.253	0.159
Loss Cost	2013	10.11	+/- 29.42	0.425	15.1%	0.048	0.534	0.257
Loss Cost	2014	10.11	+/- 29.42	NA	32.8%	0.127		0.257
Severity	2004	-1.22	+/- 3.90	1.621	57.7%	0.000	0.016	0.507
Severity	2005	-0.95	+/- 4.79	1.594	57.2%	0.000	0.033	0.670
Severity	2006	0.75	+/- 5.52	1.449	63.8%	0.000	0.088	0.763
Severity	2007	3.53	+/- 5.57	1.260	77.5%	0.000	0.215	0.175
Severity	2008	5.60	+/- 6.17	1.152	82.4%	0.000	0.426	0.063
Severity	2009	8.06	+/- 5.93	1.056	89.5%	0.000	0.711	0.013
Severity	2010	8.89	+/- 7.09	1.036	88.1%	0.000	0.820	0.020
Severity	2011	9.52	+/- 8.41	1.039	86.2%	0.000	0.817	0.030
Severity	2012	9.35	+/- 10.83	1.010	76.9%	0.000	0.962	0.064
Severity	2013	10.00	+/- 21.61	0.833	58.0%	0.007	0.850	0.170
Severity	2014	10.00	+/- 21.61	NA	53.2%	0.013		0.170
Frequency	2004	1.49	+/- 1.37	0.607	92.7%	0.000	0.000	0.035
Frequency	2005	1.52	+/- 1.69	0.606	92.5%	0.000	0.000	0.071
Frequency	2006	0.72	+/- 1.72	0.633	94.8%	0.000	0.000	0.369
Frequency	2007	-0.02	+/- 1.81	0.658	96.2%	0.000	0.000	0.976
Frequency	2008	-0.09	+/- 2.28	0.660	95.8%	0.000	0.000	0.932
Frequency	2009	-0.50	+/- 2.73	0.670	95.7%	0.000	0.001	0.668
Frequency	2010	-0.58	+/- 3.41	0.671	94.7%	0.000	0.004	0.683
Frequency	2011	-0.99	+/- 3.77	0.670	94.8%	0.000	0.006	0.510
Frequency	2012	-0.83	+/- 4.33	0.689	91.5%	0.001	0.019	0.585
Frequency	2013	0.10	+/- 7.12	0.510	63.5%	0.005	0.161	0.957
Frequency	2014	0.10	+/- 7.12	NA	-49.7%	0.015		0.957

AB Total

Coverage = AB Total
End Trend Period = 2018
Excluded Points = NA

Fit	Start Date	Trend	Conf Int.	Adj R²	P-Value: (Intercept)	P-Value: Time
Loss Cost	2004	7.72	+/- 5.88	35.4%	0.001	0.011
Loss Cost	2005	7.99	+/- 6.85	31.5%	0.004	0.022
Loss Cost	2006	10.13	+/- 7.59	41.5%	0.027	0.010
Loss Cost	2007	14.44	+/- 6.67	70.0%	0.204	0.000
Loss Cost	2008	14.97	+/- 8.13	65.4%	0.369	0.002
Loss Cost	2009	11.77	+/- 8.43	54.1%	0.108	0.009
Loss Cost	2010	10.54	+/- 10.51	39.5%	0.128	0.041
Loss Cost	2011	4.43	+/- 7.65	13.6%	0.005	0.197
Loss Cost	2012	5.92	+/- 10.53	16.9%	0.036	0.197
Loss Cost	2013	1.29	+/- 11.44	-22.0%	0.020	0.769
Loss Cost	2014	3.11	+/- 19.80	-22.7%	0.117	0.645
Severity	2004	6.59	+/- 4.70	38.6%	0.000	0.008
Severity	2005	6.49	+/- 5.46	32.1%	0.000	0.020
Severity	2006	8.01	+/- 6.14	39.7%	0.000	0.012
Severity	2007	10.33	+/- 6.60	53.0%	0.000	0.004
Severity	2008	9.55	+/- 7.91	41.8%	0.000	0.019
Severity	2009	6.50	+/- 8.25	21.9%	0.000	0.098
Severity	2010	5.37	+/- 10.33	7.0%	0.000	0.247
Severity	2011	-1.10	+/- 6.05	-13.0%	0.000	0.674
Severity	2012	0.26	+/- 8.21	-19.8%	0.000	0.938
Severity	2013	0.74	+/- 12.57	-24.2%	0.000	0.877
Severity	2014	3.82	+/- 20.98	-19.3%	0.005	0.594
Frequency	2004	1.06	+/- 2.37	-0.4%	0.078	0.348
Frequency	2005	1.40	+/- 2.72	2.1%	0.207	0.280
Frequency	2006	1.97	+/- 3.12	7.5%	0.493	0.188
Frequency	2007	3.73	+/- 2.66	45.3%	0.442	0.010
Frequency	2008	4.95	+/- 2.67	63.6%	0.086	0.002
Frequency	2009	4.95	+/- 3.33	55.6%	0.165	0.008
Frequency	2010	4.90	+/- 4.28	45.5%	0.285	0.028
Frequency	2011	5.59	+/- 5.62	42.9%	0.270	0.046
Frequency	2012	5.64	+/- 7.93	29.8%	0.410	0.118
Frequency	2013	0.54	+/- 2.30	-12.8%	0.034	0.547
Frequency	2014	-0.68	+/- 2.05	2.7%	0.010	0.370

AB Total

Coverage = AB Total
 End Trend Period = 2018
 Scalar Level Change Start Date = 2012-04-01
 Excluded Points = NA

Fit	Start Date	Trend	Conf Int.	Level Change Value	Adj R ²	P-Value: (Intercept)	P-Value: Scalar Level	P-Value: Time
Loss Cost	2004	0.19	+/- 11.11	2.077	42.5%	0.001	0.132	0.971
Loss Cost	2005	-0.65	+/- 13.13	2.177	38.9%	0.004	0.145	0.915
Loss Cost	2006	2.51	+/- 15.45	1.862	43.7%	0.029	0.259	0.721
Loss Cost	2007	9.94	+/- 14.34	1.385	68.8%	0.183	0.451	0.134
Loss Cost	2008	10.40	+/- 16.87	1.367	63.4%	0.292	0.502	0.172
Loss Cost	2009	6.72	+/- 15.70	1.419	52.8%	0.103	0.407	0.329
Loss Cost	2010	6.11	+/- 17.62	1.387	35.7%	0.124	0.473	0.414
Loss Cost	2011	5.08	+/- 12.10	0.939	-2.8%	0.017	0.848	0.318
Loss Cost	2012	1.29	+/- 11.44	5.331	42.6%	0.233	0.146	0.769
Loss Cost	2013	1.29	+/- 11.44	NA	-22.0%	0.020		0.769
Loss Cost	2014	3.11	+/- 19.80	NA	-22.7%	0.117		0.645
Severity	2004	2.15	+/- 9.60	1.535	39.7%	0.000	0.286	0.630
Severity	2005	1.05	+/- 11.26	1.631	34.1%	0.000	0.268	0.839
Severity	2006	3.49	+/- 13.27	1.448	38.1%	0.000	0.422	0.564
Severity	2007	7.53	+/- 14.72	1.231	49.1%	0.000	0.643	0.259
Severity	2008	6.03	+/- 16.73	1.287	36.9%	0.000	0.598	0.415
Severity	2009	2.51	+/- 15.80	1.336	16.5%	0.000	0.509	0.714
Severity	2010	1.92	+/- 17.77	1.305	-2.5%	0.000	0.574	0.798
Severity	2011	0.76	+/- 9.19	0.827	-21.2%	0.000	0.476	0.839
Severity	2012	0.74	+/- 12.57	0.836	-48.7%	0.000	0.870	0.877
Severity	2013	0.74	+/- 12.57	NA	-24.2%	0.000		0.877
Severity	2014	3.82	+/- 20.98	NA	-19.3%	0.005		0.594
Frequency	2004	-1.92	+/- 4.70	1.353	9.3%	0.029	0.149	0.395
Frequency	2005	-1.69	+/- 5.63	1.335	8.2%	0.083	0.207	0.527
Frequency	2006	-0.95	+/- 6.68	1.286	8.8%	0.227	0.307	0.760
Frequency	2007	2.24	+/- 5.94	1.124	41.8%	0.983	0.541	0.410
Frequency	2008	4.13	+/- 5.83	1.062	59.7%	0.400	0.722	0.134
Frequency	2009	4.11	+/- 6.73	1.062	50.2%	0.479	0.740	0.184
Frequency	2010	4.11	+/- 7.70	1.062	37.5%	0.541	0.762	0.230
Frequency	2011	4.28	+/- 8.47	1.135	35.8%	0.454	0.589	0.241
Frequency	2012	0.54	+/- 2.30	6.377	96.5%	0.001	0.001	0.547
Frequency	2013	0.54	+/- 2.30	NA	-12.8%	0.034		0.547
Frequency	2014	-0.68	+/- 2.05	NA	2.7%	0.010		0.370

CL

Coverage = CL
End Trend Period = 2017
Excluded Points = NA

Fit	Start Date	Trend	Conf Int.	Adj R ²	P-Value: (Intercept)	P-Value: Time
Loss Cost	2004	1.30	+/- 2.14	5.7%	0.000	0.207
Loss Cost	2005	0.72	+/- 2.36	-4.7%	0.000	0.513
Loss Cost	2006	-0.04	+/- 2.55	-10.0%	0.000	0.973
Loss Cost	2007	0.47	+/- 3.03	-9.6%	0.000	0.735
Loss Cost	2008	1.56	+/- 3.38	1.6%	0.000	0.315
Loss Cost	2009	2.99	+/- 3.64	26.5%	0.000	0.089
Loss Cost	2010	4.70	+/- 3.83	54.7%	0.000	0.022
Loss Cost	2011	6.43	+/- 4.24	71.7%	0.000	0.010
Loss Cost	2012	8.48	+/- 4.64	84.3%	0.000	0.006
Loss Cost	2013	9.28	+/- 7.88	78.2%	0.003	0.030
Loss Cost	2014	12.07	+/- 14.51	81.7%	0.028	0.063
Severity	2004	3.89	+/- 2.73	41.1%	0.000	0.008
Severity	2005	4.65	+/- 3.04	47.5%	0.000	0.005
Severity	2006	5.03	+/- 3.61	45.4%	0.000	0.010
Severity	2007	6.55	+/- 3.77	60.7%	0.000	0.003
Severity	2008	8.31	+/- 3.80	74.7%	0.000	0.001
Severity	2009	10.37	+/- 3.49	87.0%	0.000	0.000
Severity	2010	12.09	+/- 3.51	91.8%	0.000	0.000
Severity	2011	13.81	+/- 3.66	94.6%	0.000	0.000
Severity	2012	14.58	+/- 5.35	92.8%	0.000	0.001
Severity	2013	13.98	+/- 9.18	86.6%	0.001	0.014
Severity	2014	11.80	+/- 18.97	70.2%	0.009	0.105
Frequency	2004	-2.50	+/- 2.32	25.0%	0.000	0.039
Frequency	2005	-3.75	+/- 1.97	57.0%	0.000	0.002
Frequency	2006	-4.83	+/- 1.68	77.7%	0.000	0.000
Frequency	2007	-5.71	+/- 1.49	87.4%	0.000	0.000
Frequency	2008	-6.24	+/- 1.64	88.8%	0.000	0.000
Frequency	2009	-6.69	+/- 1.95	88.3%	0.000	0.000
Frequency	2010	-6.60	+/- 2.60	83.3%	0.000	0.001
Frequency	2011	-6.48	+/- 3.67	75.3%	0.000	0.007
Frequency	2012	-5.33	+/- 5.02	59.1%	0.000	0.046
Frequency	2013	-4.13	+/- 8.24	26.5%	0.004	0.216
Frequency	2014	0.24	+/- 5.97	-47.7%	0.007	0.876

CL

Coverage = CL
 End Trend Period = 2018
 Excluded Points = NA

Fit	Start Date	Trend	Conf Int.	Adj R ²	P-Value: (Intercept)	P-Value: Time
Loss Cost	2004	1.57	+/- 1.87	14.2%	0.000	0.091
Loss Cost	2005	1.11	+/- 2.06	2.8%	0.000	0.263
Loss Cost	2006	0.52	+/- 2.26	-6.6%	0.000	0.623
Loss Cost	2007	1.04	+/- 2.60	-1.9%	0.000	0.394
Loss Cost	2008	2.04	+/- 2.79	15.1%	0.000	0.130
Loss Cost	2009	3.29	+/- 2.87	40.8%	0.000	0.028
Loss Cost	2010	4.68	+/- 2.86	64.7%	0.000	0.005
Loss Cost	2011	5.97	+/- 3.06	76.8%	0.000	0.003
Loss Cost	2012	7.29	+/- 3.48	83.4%	0.000	0.003
Loss Cost	2013	7.43	+/- 5.31	75.3%	0.000	0.016
Loss Cost	2014	8.33	+/- 9.03	67.6%	0.004	0.055
Severity	2004	4.26	+/- 2.39	50.7%	0.000	0.002
Severity	2005	4.96	+/- 2.61	56.6%	0.000	0.001
Severity	2006	5.33	+/- 3.04	55.0%	0.000	0.002
Severity	2007	6.65	+/- 3.10	68.0%	0.000	0.001
Severity	2008	8.11	+/- 3.05	79.2%	0.000	0.000
Severity	2009	9.71	+/- 2.83	88.2%	0.000	0.000
Severity	2010	10.90	+/- 3.07	90.6%	0.000	0.000
Severity	2011	11.86	+/- 3.74	90.5%	0.000	0.000
Severity	2012	11.86	+/- 5.27	85.9%	0.000	0.002
Severity	2013	10.57	+/- 7.41	76.6%	0.000	0.014
Severity	2014	7.97	+/- 10.42	57.5%	0.001	0.085
Frequency	2004	-2.58	+/- 2.00	32.1%	0.000	0.016
Frequency	2005	-3.67	+/- 1.68	61.7%	0.000	0.001
Frequency	2006	-4.57	+/- 1.44	79.2%	0.000	0.000
Frequency	2007	-5.26	+/- 1.35	86.4%	0.000	0.000
Frequency	2008	-5.62	+/- 1.55	86.2%	0.000	0.000
Frequency	2009	-5.86	+/- 1.89	84.0%	0.000	0.000
Frequency	2010	-5.60	+/- 2.40	77.7%	0.000	0.001
Frequency	2011	-5.26	+/- 3.15	67.9%	0.000	0.007
Frequency	2012	-4.08	+/- 3.82	50.9%	0.000	0.043
Frequency	2013	-2.84	+/- 5.20	19.9%	0.001	0.208
Frequency	2014	0.33	+/- 2.55	-26.4%	0.000	0.712

CL

Coverage = CL
End Trend Period = 2017
Excluded Points = 2006,2007,2008,2009

Fit	Start Date	Trend	Conf Int.	Adj R²	P-Value: (Intercept)	P-Value: Time
Loss Cost	2004	2.93	+/- 1.72	62.3%	0.000	0.004
Loss Cost	2005	3.22	+/- 2.37	54.5%	0.000	0.014
Loss Cost	2010	4.70	+/- 3.83	54.7%	0.000	0.022
Loss Cost	2011	6.43	+/- 4.24	71.7%	0.000	0.010
Loss Cost	2012	8.48	+/- 4.64	84.3%	0.000	0.006
Loss Cost	2013	9.28	+/- 7.88	78.2%	0.003	0.030
Loss Cost	2014	12.07	+/- 14.51	81.7%	0.028	0.063
Severity	2004	4.51	+/- 3.71	44.6%	0.000	0.021
Severity	2005	6.59	+/- 4.31	61.8%	0.000	0.007
Severity	2010	12.09	+/- 3.51	91.8%	0.000	0.000
Severity	2011	13.81	+/- 3.66	94.6%	0.000	0.000
Severity	2012	14.58	+/- 5.35	92.8%	0.000	0.001
Severity	2013	13.98	+/- 9.18	86.6%	0.001	0.014
Severity	2014	11.80	+/- 18.97	70.2%	0.009	0.105
Frequency	2004	-1.51	+/- 2.76	5.9%	0.000	0.247
Frequency	2005	-3.17	+/- 2.95	39.6%	0.000	0.041
Frequency	2010	-6.60	+/- 2.60	83.3%	0.000	0.001
Frequency	2011	-6.48	+/- 3.67	75.3%	0.000	0.007
Frequency	2012	-5.33	+/- 5.02	59.1%	0.000	0.046
Frequency	2013	-4.13	+/- 8.24	26.5%	0.004	0.216
Frequency	2014	0.24	+/- 5.97	-47.7%	0.007	0.876

CL

Coverage = CL
 End Trend Period = 2018
 Excluded Points = 2006,2007,2008,2009

Fit	Start Date	Trend	Conf Int.	Adj R ²	P-Value: (Intercept)	P-Value: Time
Loss Cost	2004	3.12	+/- 1.48	69.1%	0.000	0.001
Loss Cost	2005	3.42	+/- 1.97	63.4%	0.000	0.004
Loss Cost	2010	4.68	+/- 2.86	64.7%	0.000	0.005
Loss Cost	2011	5.97	+/- 3.06	76.8%	0.000	0.003
Loss Cost	2012	7.29	+/- 3.48	83.4%	0.000	0.003
Loss Cost	2013	7.43	+/- 5.31	75.3%	0.000	0.016
Loss Cost	2014	8.33	+/- 9.03	67.6%	0.004	0.055
Severity	2004	4.84	+/- 3.17	53.4%	0.000	0.006
Severity	2005	6.72	+/- 3.53	68.6%	0.000	0.002
Severity	2010	10.90	+/- 3.07	90.6%	0.000	0.000
Severity	2011	11.86	+/- 3.74	90.5%	0.000	0.000
Severity	2012	11.86	+/- 5.27	85.9%	0.000	0.002
Severity	2013	10.57	+/- 7.41	76.6%	0.000	0.014
Severity	2014	7.97	+/- 10.42	57.5%	0.001	0.085
Frequency	2004	-1.64	+/- 2.33	13.1%	0.000	0.148
Frequency	2005	-3.10	+/- 2.41	45.5%	0.000	0.019
Frequency	2010	-5.60	+/- 2.40	77.7%	0.000	0.001
Frequency	2011	-5.26	+/- 3.15	67.9%	0.000	0.007
Frequency	2012	-4.08	+/- 3.82	50.9%	0.000	0.043
Frequency	2013	-2.84	+/- 5.20	19.9%	0.001	0.208
Frequency	2014	0.33	+/- 2.55	-26.4%	0.000	0.712

CL

Coverage = CL
 End Trend Period = 2017
 Excluded Points = 2015

Fit	Start Date	Trend	Conf Int.	Adj R ²	P-Value: (Intercept)	P-Value: Time
Loss Cost	2004	1.44	+/- 2.36	6.4%	0.000	0.204
Loss Cost	2005	0.84	+/- 2.62	-4.6%	0.000	0.489
Loss Cost	2006	0.06	+/- 2.86	-11.1%	0.000	0.966
Loss Cost	2007	0.60	+/- 3.42	-10.3%	0.000	0.698
Loss Cost	2008	1.74	+/- 3.83	2.2%	0.000	0.314
Loss Cost	2009	3.24	+/- 4.15	28.4%	0.000	0.100
Loss Cost	2010	4.99	+/- 4.35	57.6%	0.000	0.029
Loss Cost	2011	6.73	+/- 4.83	75.0%	0.000	0.016
Loss Cost	2012	8.70	+/- 5.38	87.4%	0.001	0.013
Loss Cost	2013	9.28	+/- 11.44	80.5%	0.013	0.067
Severity	2004	3.82	+/- 3.02	37.0%	0.000	0.016
Severity	2005	4.61	+/- 3.39	43.9%	0.000	0.011
Severity	2006	5.00	+/- 4.05	41.8%	0.000	0.019
Severity	2007	6.58	+/- 4.27	58.0%	0.000	0.006
Severity	2008	8.42	+/- 4.35	73.1%	0.000	0.002
Severity	2009	10.54	+/- 4.01	86.5%	0.000	0.001
Severity	2010	12.31	+/- 4.06	91.8%	0.000	0.000
Severity	2011	14.02	+/- 4.29	94.9%	0.000	0.001
Severity	2012	14.75	+/- 6.77	93.1%	0.000	0.005
Severity	2013	13.98	+/- 14.19	86.7%	0.005	0.045
Frequency	2004	-2.30	+/- 2.55	19.2%	0.000	0.076
Frequency	2005	-3.60	+/- 2.18	52.4%	0.000	0.005
Frequency	2006	-4.71	+/- 1.86	75.1%	0.000	0.000
Frequency	2007	-5.61	+/- 1.67	86.0%	0.000	0.000
Frequency	2008	-6.16	+/- 1.86	87.6%	0.000	0.000
Frequency	2009	-6.61	+/- 2.25	87.1%	0.000	0.000
Frequency	2010	-6.51	+/- 3.07	81.7%	0.000	0.003
Frequency	2011	-6.40	+/- 4.49	73.2%	0.000	0.019
Frequency	2012	-5.27	+/- 6.66	55.6%	0.002	0.091
Frequency	2013	-4.13	+/- 13.64	17.5%	0.023	0.329

CL

Coverage = CL
 End Trend Period = 2018
 Excluded Points = 2015

Fit	Start Date	Trend	Conf Int.	Adj R ²	P-Value: (Intercept)	P-Value: Time
Loss Cost	2004	1.69	+/- 2.01	15.7%	0.000	0.089
Loss Cost	2005	1.23	+/- 2.22	4.0%	0.000	0.247
Loss Cost	2006	0.64	+/- 2.44	-6.4%	0.000	0.573
Loss Cost	2007	1.17	+/- 2.82	-1.1%	0.000	0.371
Loss Cost	2008	2.18	+/- 3.03	16.9%	0.000	0.131
Loss Cost	2009	3.44	+/- 3.11	43.1%	0.000	0.033
Loss Cost	2010	4.81	+/- 3.10	66.9%	0.000	0.008
Loss Cost	2011	6.06	+/- 3.35	78.5%	0.000	0.005
Loss Cost	2012	7.29	+/- 3.98	84.3%	0.000	0.006
Severity	2004	4.25	+/- 2.59	48.6%	0.000	0.003
Severity	2005	4.97	+/- 2.84	54.8%	0.000	0.002
Severity	2006	5.35	+/- 3.32	53.3%	0.000	0.004
Severity	2007	6.68	+/- 3.39	66.8%	0.000	0.001
Severity	2008	8.16	+/- 3.36	78.5%	0.000	0.000
Severity	2009	9.75	+/- 3.15	87.9%	0.000	0.000
Severity	2010	10.93	+/- 3.46	90.3%	0.000	0.000
Severity	2011	11.88	+/- 4.31	90.2%	0.000	0.001
Severity	2012	11.86	+/- 6.35	85.3%	0.000	0.005
Frequency	2004	-2.45	+/- 2.14	28.1%	0.000	0.030
Frequency	2005	-3.56	+/- 1.80	59.1%	0.000	0.001
Frequency	2006	-4.47	+/- 1.54	77.9%	0.000	0.000
Frequency	2007	-5.16	+/- 1.45	85.9%	0.000	0.000
Frequency	2008	-5.52	+/- 1.66	85.8%	0.000	0.000
Frequency	2009	-5.76	+/- 2.04	83.6%	0.000	0.000
Frequency	2010	-5.51	+/- 2.63	77.4%	0.000	0.002
Frequency	2011	-5.20	+/- 3.54	67.6%	0.000	0.014
Frequency	2012	-4.08	+/- 4.51	50.2%	0.000	0.070

CM

Coverage = CM
End Trend Period = 2018
Excluded Points = NA

Fit	Start Date	Trend	Conf Int.	Adj R ²	P-Value: (Intercept)	P-Value: Time
Loss Cost	2004	0.77	+/- 1.64	0.3%	0.000	0.327
Loss Cost	2005	0.84	+/- 1.91	-0.6%	0.000	0.355
Loss Cost	2006	1.13	+/- 2.21	2.3%	0.000	0.281
Loss Cost	2007	0.62	+/- 2.52	-6.7%	0.000	0.593
Loss Cost	2008	2.05	+/- 2.15	27.2%	0.000	0.058
Loss Cost	2009	3.36	+/- 1.67	70.2%	0.000	0.002
Loss Cost	2010	3.71	+/- 2.07	68.7%	0.000	0.004
Loss Cost	2011	2.72	+/- 2.06	58.0%	0.000	0.017
Loss Cost	2012	3.26	+/- 2.71	59.7%	0.000	0.026
Severity	2004	0.73	+/- 1.65	-0.5%	0.000	0.352
Severity	2005	1.29	+/- 1.75	10.9%	0.000	0.134
Severity	2006	1.73	+/- 1.97	18.8%	0.000	0.078
Severity	2007	1.51	+/- 2.33	9.1%	0.000	0.177
Severity	2008	2.77	+/- 2.08	45.4%	0.000	0.014
Severity	2009	4.21	+/- 1.15	89.1%	0.000	0.000
Severity	2010	3.90	+/- 1.37	85.2%	0.000	0.000
Severity	2011	4.22	+/- 1.74	83.6%	0.000	0.001
Severity	2012	4.07	+/- 2.43	75.2%	0.000	0.007
Frequency	2004	0.04	+/- 0.98	-7.6%	0.000	0.938
Frequency	2005	-0.44	+/- 0.90	1.1%	0.000	0.305
Frequency	2006	-0.58	+/- 1.04	4.2%	0.000	0.242
Frequency	2007	-0.87	+/- 1.16	14.0%	0.000	0.126
Frequency	2008	-0.70	+/- 1.39	2.8%	0.000	0.286
Frequency	2009	-0.82	+/- 1.72	2.1%	0.000	0.306
Frequency	2010	-0.18	+/- 1.94	-13.5%	0.000	0.829
Frequency	2011	-1.45	+/- 1.15	54.3%	0.000	0.022
Frequency	2012	-0.78	+/- 0.93	36.9%	0.000	0.087

CM

Coverage = CM
End Trend Period = 2018
Excluded Points = 2007

Fit	Start Date	Trend	Conf Int.	Adj R ²	P-Value: (Intercept)	P-Value: Time
Loss Cost	2004	1.22	+/- 1.38	17.4%	0.000	0.077
Loss Cost	2005	1.49	+/- 1.60	21.6%	0.000	0.062
Loss Cost	2006	2.18	+/- 1.71	40.0%	0.000	0.016
Loss Cost	2008	2.05	+/- 2.15	27.2%	0.000	0.058
Loss Cost	2009	3.36	+/- 1.67	70.2%	0.000	0.002
Loss Cost	2010	3.71	+/- 2.07	68.7%	0.000	0.004
Loss Cost	2011	2.72	+/- 2.06	58.0%	0.000	0.017
Loss Cost	2012	3.26	+/- 2.71	59.7%	0.000	0.026
Severity	2004	1.02	+/- 1.63	6.3%	0.000	0.196
Severity	2005	1.79	+/- 1.62	29.4%	0.000	0.032
Severity	2006	2.59	+/- 1.65	51.4%	0.000	0.005
Severity	2008	2.77	+/- 2.08	45.4%	0.000	0.014
Severity	2009	4.21	+/- 1.15	89.1%	0.000	0.000
Severity	2010	3.90	+/- 1.37	85.2%	0.000	0.000
Severity	2011	4.22	+/- 1.74	83.6%	0.000	0.001
Severity	2012	4.07	+/- 2.43	75.2%	0.000	0.007
Frequency	2004	0.19	+/- 0.99	-6.7%	0.000	0.679
Frequency	2005	-0.29	+/- 0.94	-4.6%	0.000	0.508
Frequency	2006	-0.40	+/- 1.15	-3.8%	0.000	0.456
Frequency	2008	-0.70	+/- 1.39	2.8%	0.000	0.286
Frequency	2009	-0.82	+/- 1.72	2.1%	0.000	0.306
Frequency	2010	-0.18	+/- 1.94	-13.5%	0.000	0.829
Frequency	2011	-1.45	+/- 1.15	54.3%	0.000	0.022
Frequency	2012	-0.78	+/- 0.93	36.9%	0.000	0.087

CM

Coverage = CM
End Trend Period = 2018
Excluded Points = 2010

Fit	Start Date	Trend	Conf Int.	Adj R ²	P-Value: (Intercept)	P-Value: Time
Loss Cost	2004	0.68	+/- 1.47	0.2%	0.000	0.330
Loss Cost	2005	0.67	+/- 1.72	-2.2%	0.000	0.406
Loss Cost	2006	0.87	+/- 2.04	-0.9%	0.000	0.364
Loss Cost	2007	0.15	+/- 2.21	-10.8%	0.000	0.885
Loss Cost	2008	1.47	+/- 1.86	21.1%	0.000	0.102
Loss Cost	2009	2.73	+/- 1.44	71.1%	0.000	0.003
Loss Cost	2011	2.72	+/- 2.06	58.0%	0.000	0.017
Loss Cost	2012	3.26	+/- 2.71	59.7%	0.000	0.026
Severity	2004	0.69	+/- 1.68	-1.5%	0.000	0.386
Severity	2005	1.22	+/- 1.81	9.3%	0.000	0.164
Severity	2006	1.64	+/- 2.08	16.3%	0.000	0.107
Severity	2007	1.34	+/- 2.49	4.8%	0.000	0.251
Severity	2008	2.68	+/- 2.35	40.6%	0.000	0.028
Severity	2009	4.48	+/- 1.25	90.2%	0.000	0.000
Severity	2011	4.22	+/- 1.74	83.6%	0.000	0.001
Severity	2012	4.07	+/- 2.43	75.2%	0.000	0.007
Frequency	2004	-0.01	+/- 0.92	-8.3%	0.000	0.982
Frequency	2005	-0.54	+/- 0.71	12.7%	0.000	0.126
Frequency	2006	-0.76	+/- 0.78	24.5%	0.000	0.058
Frequency	2007	-1.18	+/- 0.69	57.6%	0.000	0.004
Frequency	2008	-1.18	+/- 0.87	48.7%	0.000	0.015
Frequency	2009	-1.67	+/- 0.84	72.2%	0.000	0.002
Frequency	2011	-1.45	+/- 1.15	54.3%	0.000	0.022
Frequency	2012	-0.78	+/- 0.93	36.9%	0.000	0.087