

# **SEMI-ANNUAL REVIEW OF INDUSTRY EXPERIENCE – FINAL REPORT AS OF JUNE 30, 2022**

PRIVATE PASSENGER VEHICLES

ALBERTA AUTOMOBILE INSURANCE RATE BOARD

March 8, 2023

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# 1. Executive Summary

## 1.1. Purpose and Scope

Oliver, Wyman Limited (Oliver Wyman), actuarial consultants to the Alberta Automobile Insurance Rate Board (AIRB or the Board), prepared this report as part of the Board’s “2023 Semi-Annual Review” of insurance industry loss experience. The purpose of this report is to support the determination of Benchmarks for rate filings submitted between April 1, 2023 and September 30, 2023.

This report presents the results of our analysis of insurance industry private passenger vehicles loss and expense experience in Alberta reported as of June 30, 2022 for the 2023 Semi-Annual Review.

The scope of our analysis includes all coverages:

- Basic Coverage: Third Party Liability (TPL)<sup>1</sup> and Accident Benefits (AB)
- Additional Coverage: Collision, Comprehensive, All Perils, Specified Perils, and Underinsured Motorist

## 1.2. Summary of Key Findings

In this report we present:

- assumptions, factors, and provisions we recommend serve as Benchmarks for rate filings submitted between April 1, 2023 and September 30, 2023, and
- other assumptions, factors, and provisions for the Board’s consideration as it reviews rate filings submitted between April 1, 2023 and September 30, 2023.

In Table 1, we present a summary of our selected benchmarks<sup>2</sup> for the current and prior reviews:

**Table 1: Estimated Annual Past Loss Cost (Up to April 1, 2022) Trend Rates**

|                         | 2022 Annual Review:<br>Data as of December 31, 2021 | 2023 Semi-Annual Review:<br>Data as of June 30, 2022 |
|-------------------------|---|--|
| <b>Trend Benchmarks</b> |   |  |
| TPL-Bodily Injury       | +7.0%/5.0% <sup>3</sup>                             | +7.0%/5.0% <sup>4</sup>                              |
| TPL-Property Damage     | +1.5%   | +1.5%  |
| DCPD <sup>5</sup>       | +1.5%   | +1.5%  |
| AB – Total              | +1.0%/+12.0% <sup>6</sup>                           | +1.0%/+12.0% <sup>7</sup>                            |

<sup>1</sup> Effective January 1, 2022, TPL was split into bodily injury, property damage and direct compensation property damage (DCPD).

<sup>2</sup> We refer to these as “selections” in this report.

<sup>3</sup> +5.0% trend rate begins November 1, 2020, consistent with the recent reform.

<sup>4</sup> +5.0% trend rate begins November 1, 2020, consistent with the recent reform.

<sup>5</sup> The DCPD and TPL-PD trend selections are based on the combined experience, as DCPD was introduced January 2022.

<sup>6</sup> Trend rate of +12.0% begins January 1, 2015; most rate applications will only consider data from 2015 and onward.

<sup>7</sup> Trend rate of +12.0% begins January 1, 2015; most rate applications will only consider data from 2015 and onward.

|                         | 2022 Annual Review:<br>Data as of December 31, 2021 | 2023 Semi-Annual Review:<br>Data as of June 30, 2022 |
|-------------------------|---|--|
| Collision               | +2.5%   | +3.0%  |
| Comprehensive           | +4.0%   | +4.0%  |
| All Perils              | +2.5%   | +2.5%  |
| Specified Perils        | +3.0%   | +3.0%  |
| Underinsured Motorist   | +2.0%   | +1.5%  |
| <b>Other Benchmarks</b> |   |  |
| Health Cost Recovery    | 3.55% of TPL Premiums                               | 2.86% of TPL Premiums                                |
| Operating Expenses      | 27.1% of Premiums                                   | 27.1% of Premiums                                    |
| Profit Provision        | 7% of Premiums                                      | 7% of Premiums                                       |

### 1.3. Relevant Comments

#### Data

The data utilized in this study and presented in this report is based on information published by the General Insurance Statistical Agency (GISA) that has been compiled by GISA's service provider, the Insurance Bureau of Canada (IBC) through to June 30, 2022.

Our analysis reflects the aggregated experience of the insurance industry including the Facility Association (FA)<sup>8</sup> and the two Risk Sharing Pools (RSPs), and may not be appropriate for an individual insurance company whose portfolio of risks, rates, expenses, and operating characteristics may differ from the insurance industry averages that underlie our findings.

We refer to the insurance companies operating in Alberta, including the Facility Association and the two RSPs, as the "Industry"; and we refer to the aggregate claim or expense experience as "Industry experience."

#### Loss Trend Benchmarks

Loss trend rates are factors that are used in the determination of rate change need. They are applied to the historical experience period ultimate incurred losses to adjust those losses to the cost levels that are anticipated during the policy period covered under the proposed rate program.

The application of trend rates is a two-step process. The data in the experience period under consideration is adjusted to reflect observed changes in cost conditions that have taken place (i.e., "past trend"), and then the data is further adjusted to reflect future changes in cost conditions that are expected to occur between the end of the experience period and the period the new premiums will be in effect (i.e., "future trend").

Therefore, past trend rates should reflect the cost level changes that occurred during the experience period. Future trend rates should consider those changes as well as the likelihood that those patterns may change.

<sup>8</sup> Due to the low volume of FA risks, we find the inclusion or exclusion of the FA data does not materially affect our calculated loss trend rates, although the FA experience does have a higher average loss cost per vehicle than the industry.

## Heightened Uncertainty – COVID 19, Bill 41 Reforms, and Rising Inflation

Our analyses of past trend rates consider the impact of the various reforms and government actions occurring during the experience period. The 2020 and 2021 claim experience is exceptional due to the COVID-19 pandemic and the introduction of reforms in the last quarter of 2020. The recent rise in inflation, and uncertainty surrounding future inflation, also adds uncertainty around selecting an appropriate future trend rate.

- The COVID-19 pandemic affected loss costs for 2020, 2021, and 2022-1 mainly driven by a decline in the claims frequency rate. As return to a “new” normal in 2022 unfolds, there is uncertainty as to the lasting impacts of the pandemic with respect to future claim frequency rates. Will the increase of remote and hybrid work result in a sustained lower frequency level? Or will increased use of private vehicles with reduced use of public transit offset effects of remote and hybrid work?

Current projections of mileage and mobility (cell phone data) indicate a return to pre-pandemic mobility levels in the second half of 2022. Our loss trend selections are based on a frequency level without the influence of COVID-19. Insurers may find it appropriate to include an adjustment to the frequency level assumed in the rate application to reflect the new normal in the post pandemic era.

- Bill 41, effective November 2020, expanded accident benefits limits and those claimants subject to the bodily injury minor injury cap. The timing of the reform introduction occurring during the pandemic creates additional challenges to isolating early estimates of the actual claims cost impact of the reforms. Several insurers suggested the anticipated claims cost reduction from Bill 41 may not materialize. Until sufficient data emerges to evaluate the impact on claims costs, we continue to assume the *a priori* claims cost savings of the reforms will be realized.
- The reported CPI rise associated with categories that directly impact physical damage claim costs (vehicle parts, replacement vehicles, rental fees, maintenance and repair costs) began to rise in late 2021, and has continued to rise into 2022. We expect this partially influences the claims cost data (through to June 30, 2022) we analyze in this review.<sup>9</sup> As a result, particularly for physical damage coverages, our measure of the past loss trend rates may not be an accurate indication of future trend rates.

The Federal Government’s steps to curb inflation through higher interest rates will likely temper the rate of annual inflation in the near future. The rapid rise in claims cost due to the inflation surge may begin to diminish if those efforts are successful, resulting in a more moderate pace of year-over-year change in the CPI as observed prior to the pandemic. The challenge for government, as well as the insurance industry, is the simultaneous monitoring of inflation and identification of the necessary peak and then decline of interest rates to drive down inflation.

A surge in gas prices may lead drivers to reduce their vehicle usage. General inflation and/or a recession may cause consumer to “do less” leading to a reduction in vehicle usage. This possible vehicle usage reduction may lead to a reduction in the future claims frequency rate.

For this reason, when selecting the future trend rate, we suggest consideration of:

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<sup>9</sup> As discussed more fully in Section 5.4, we observe a limited impact to the industry-wide severity in 2022-1.



- The correlation of the historical CPI index with historical claim cost changes; and the recent rise in the CPI.
- The actual change in claim costs data that has emerged during the recent high inflationary period.
- The anticipated future CPI during the rating program period given the Federal Government's actions to curb inflation through higher interest rates.
- The impact of higher gas prices and general high inflation on vehicle usage.

We discuss this further in Section 5.4.

## Profit Levels

As discussed in our 2022 annual review, the COVID-19 pandemic impact on driver behaviour and resulting reduction in claims costs produced windfall profit in 2020 and 2021. Any reasonable expectation of vehicle usage in the post-pandemic era anticipates profit levels to reduce from the high 2020 and 2021 levels. While the industry experienced unusually high profit levels in 2020 and 2021, well beyond the Board's 7% of premium profit provision, the industry experienced profit levels well below the 7% of premium level since 2013.

Rate setting is a prospective analysis of future costs without carry-forward of past profits (or losses). The recent unprecedented profit levels during 2020 and 2021 is not a consideration in setting loss trend rate benchmarks<sup>10</sup> for this report.

As directed by the Board, we will continue to monitor profit levels on an annual basis.

## Experience Period

Our analyses of past trend rates consider the impact of the various reforms and government actions occurring during the experience period. The 2020, 2021, and the first half of 2022 claim experience is exceptional due to the COVID-19 pandemic, the introduction of bodily injury and accident benefit reforms in the last quarter of 2020 and the introduction of DCPD on January 1, 2022.

There are several adjustments that can be applied to rate filings to consider the impact from the COVID-19 pandemic. The options include applying adjustments factors to unwind the COVID-19 impact and/or reduce the weight assigned to the COVID-19 periods. Each method has shortcomings:

- **Exclude Affected Years:** The removal of COVID-19 affected periods would eliminate any influence from the COVID-19 pandemic, however, the rate change indication would be dependent on older accident year experience that may not be representative of portfolio changes occurring during the pandemic (i.e., a change in the mix of business).
- **Apply COVID-19 Unwinding Factors:** Applying an adjustment to unwind the impact of COVID-19 would allow inclusion of the most recent data; however, the estimation of those factors adds to the uncertainty of the indication.

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<sup>10</sup> Past profits are not considered in any selection of assumptions or benchmarks in this report.

- **Temper the Accident Year Weights:** This lessens the use of the COVID-19 period but determining appropriate weights for each accident year and the COVID-19 unwinding factors adjustments for those years adds to the uncertainty of the indication.

### **Applicability of Benchmarks**

In this report we present our findings as respect to the assumptions, factors, and provisions for the Board's consideration in its review of individual rate filings. The projection of future rate needs is subject to considerable uncertainty. For this reason, we provide rationale for the assumptions, factors, and provisions we present, as well as information to help the Board evaluate their reasonableness.

We suggest the Board consider the reasonableness of additional information provided by interested parties as it may be more current or may provide more insight into the Industry private passenger vehicle claim experience (particularly as respects the bodily injury coverage and inflation) that has emerged or is expected to emerge. However, in doing so we suggest the Board also consider that the experience of one insurer may not be representative of the experience of the Industry.

We also suggest the Board recognize that while it may be that, alone, an alternate assumption, factor, or provision may be reasonable, it may not be reasonable to combine alternate assumptions, factors, or provisions.

## **1.4. Report Organization**

In Section 2, we present the most recent 10-years of industry private passenger vehicle (PPV) premium and loss experience in Alberta.

In Section 3, we present the background of automobile insurance regulation in Alberta, including the historical legislative reforms and government actions taken since the creation of the AIRB.

In Section 4, we discuss our selected cumulative development factors, used to estimate the ultimate frequency, severity, and loss costs underlying our trend.

In Sections 5 and 6, we discuss our loss trend methodology and various considerations in selecting loss trend rates for each coverage.

In Section 7, we present our trend analysis for each major coverage.

In Section 8, we present Board's current benchmarks and information regarding the additional provisions that insurers must consider in their rate filings, including: Loss Adjustment Expenses, Catastrophe Provision, Investment Income on Cash Flow, Health Cost Recovery, Operating Expenses, and Profit.

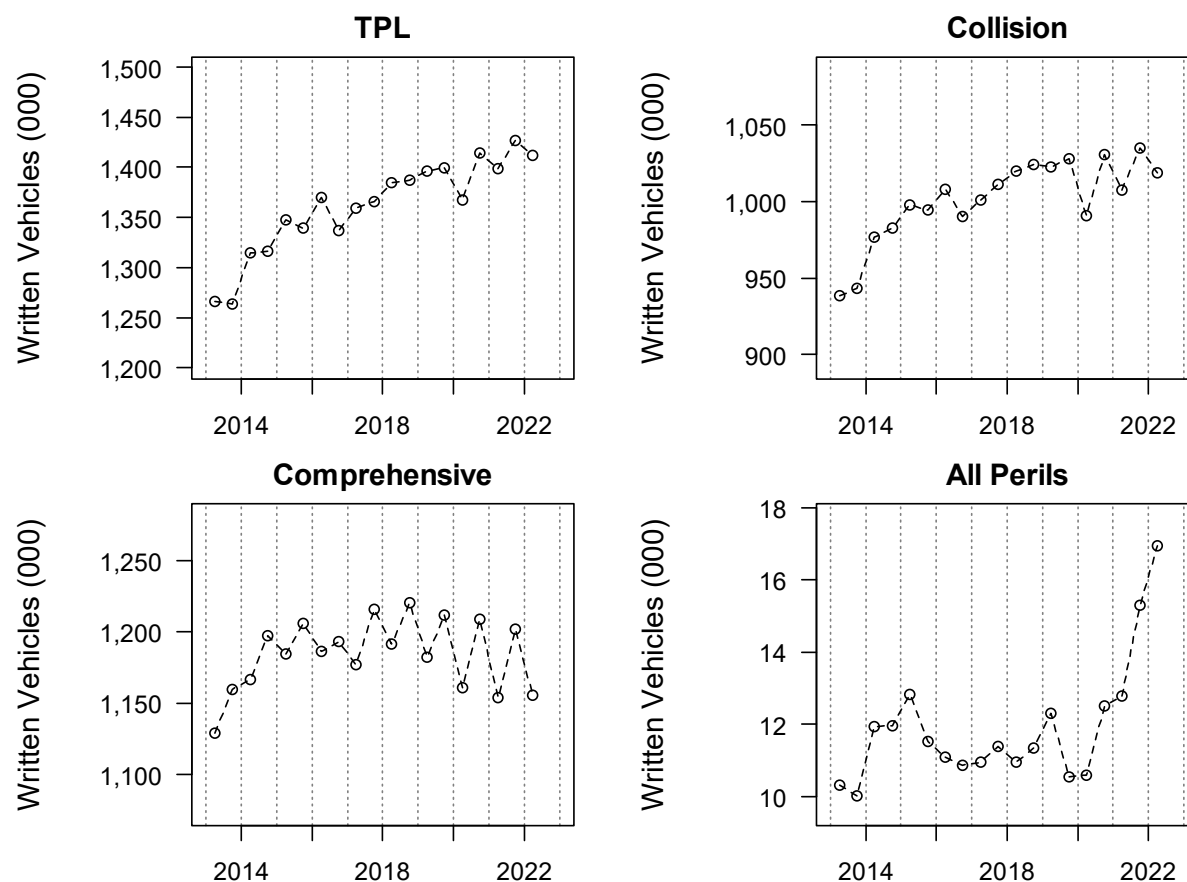
In Section 9, we discuss our methodology for estimating the historical impact of the COVID-19 pandemic using models similar to those underlying our loss trend selections.

## 2. Summary of Alberta Private Passenger Vehicle 2013 to 2022 Experience

### 2.1. Growth of Insured Vehicles

Since 2013, the number of private passenger vehicles in Alberta has generally increased, except for a decrease in 2020-1, likely due to the COVID-19 pandemic. Figure 1 presents the number of written vehicles insured by half-year increments over the last ten years for third party liability<sup>11</sup>, collision, comprehensive and all perils coverages. The number of insured vehicles rose from approximately 1.27 million in 2013-1 to 1.41 million in 2022-1.

**Figure 1: Written Vehicles**



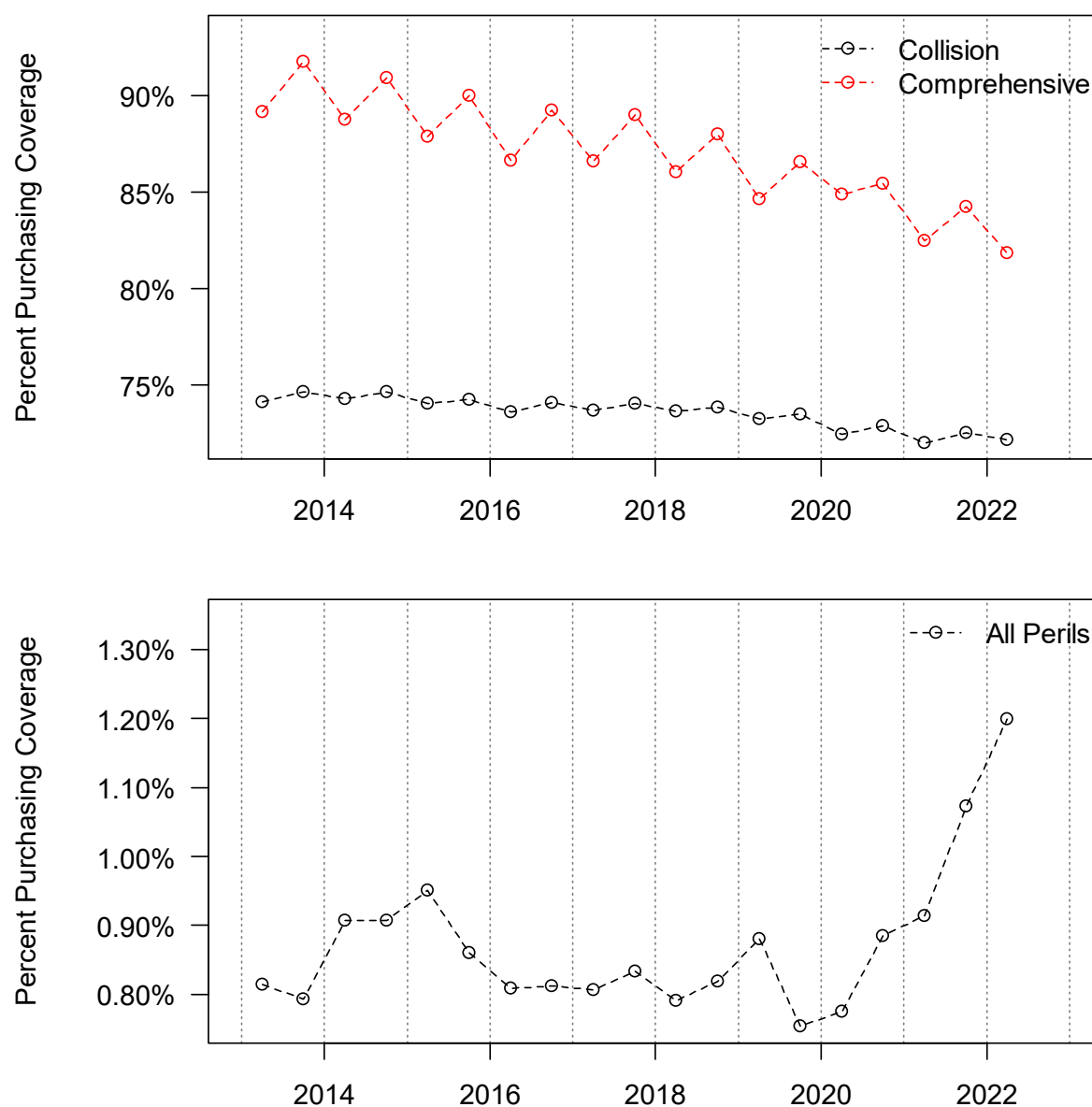
In contrast to TPL, comprehensive had a flatter growth pattern, with a slightly declining pattern beginning in 2018. The steep rise shown in the lower right panel of Figure 1 during 2021-2 and 2022-1

<sup>11</sup> The growth in TPL is representative of all mandatory coverages which includes accident benefits.

for all perils is due to an additional 2,500 and 4,100 risks on a small volume, increasing from approximately 12,800 in 2021-1 to 16,900 in 2022-1.

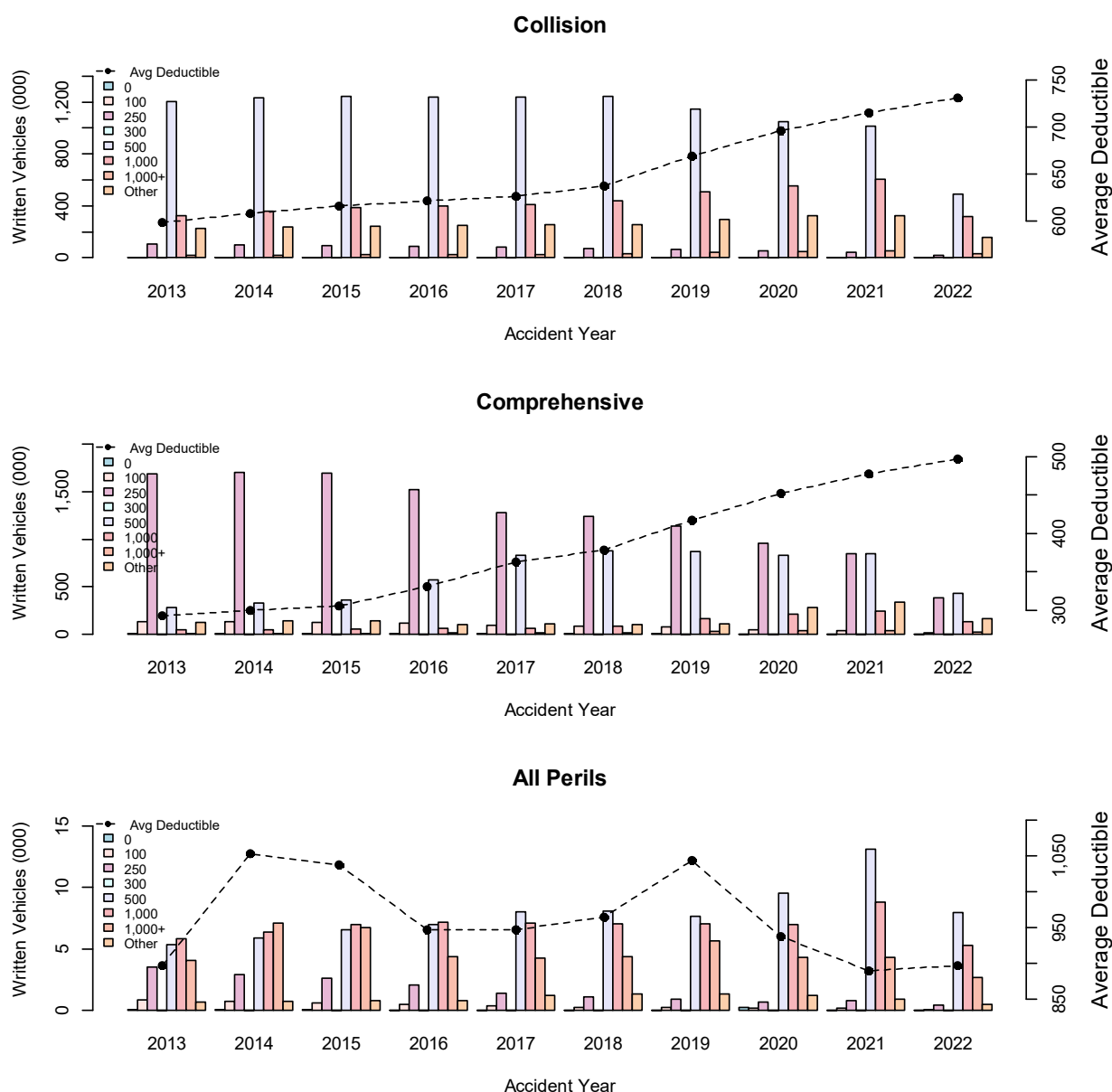
In Figure 2 we present the percentage of risks purchasing the optional physical damage coverages. The number of vehicles is on a semi-annual basis to highlight the seasonal pattern for comprehensive coverage due to the temporary removal of coverage during the first half of the year. Over the last ten years there is a decreasing percentage of risks with comprehensive coverage and a modest decrease in the percentage of risks with collision coverage.

**Figure 2: Percent Purchasing Collision and Comprehensive Optional Coverages**



In Figure 3 we plot the number of written vehicles at various deductible levels against time and include a line plot representing the average deductible for each accident year. We observe a consistent shift toward larger deductibles for collisions and comprehensive over the last ten years, with the shift more noticeable in recent years. Note that the 2022 accident year only reflects the first half of the year.

**Figure 3: Average Deductible Summary**



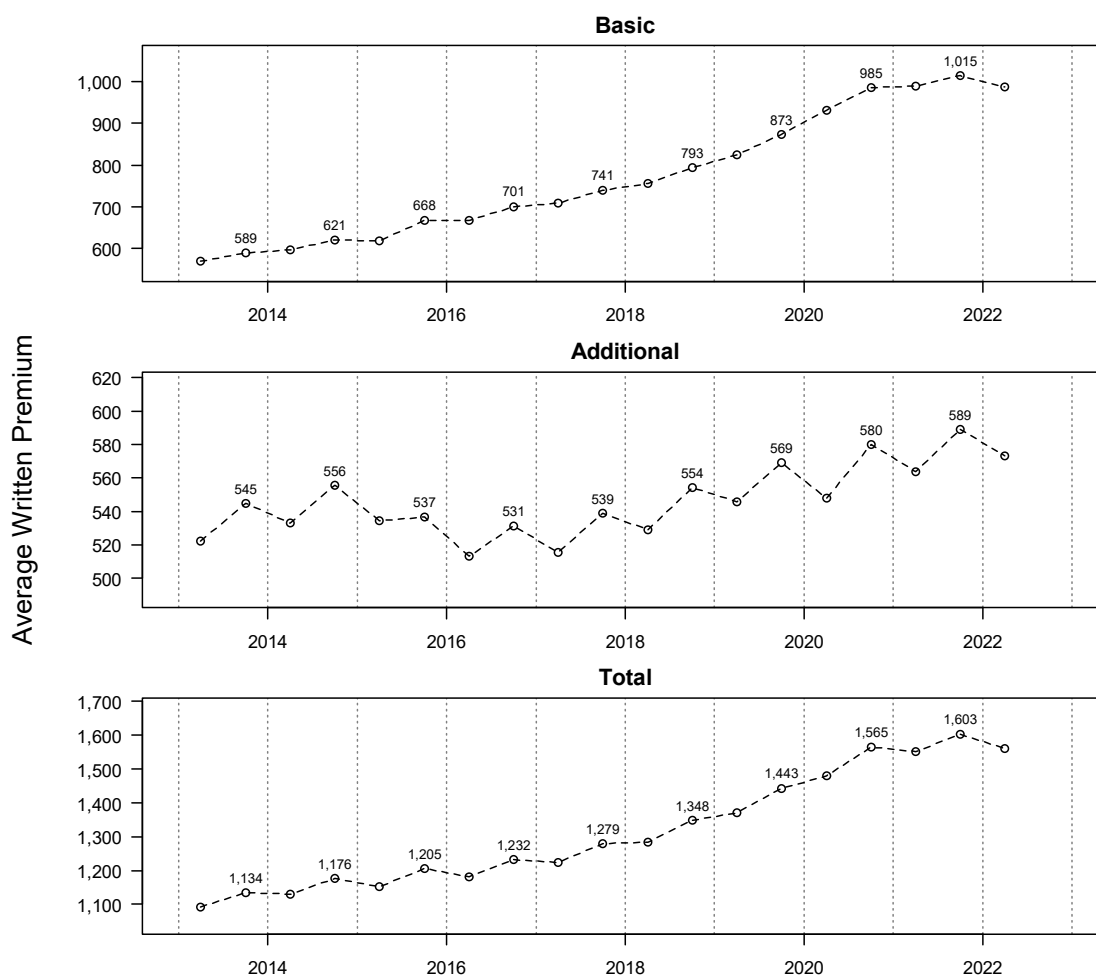
## 2.2. Change in Average Premiums

In Alberta, there are specific coverages that are mandatory (TPL and accident benefits), while the remainder are optional. The mandatory coverages in Alberta are referred to as Basic Coverages, and the

optional coverages as Additional Coverages. In Figure 4, we present the average written premiums for the Basic, Additional, and the total for all coverages, respectively, over the ten-year period, 2013 to 2022, in half-year increments.

The Basic Coverages average premium has gradually increased since 2013, however has been relatively flat over the last 2 years. The average premiums for Additional Coverages were relatively flat until changing to an increasing pattern beginning in 2016, subject to seasonal variability. This increase in Additional Coverages may be partially attributable to higher average repair costs on the growing proportion of vehicles with advanced technology.

**Figure 4: Average Written Premium – Summary**



## 2.3. Change in Average Claims Costs

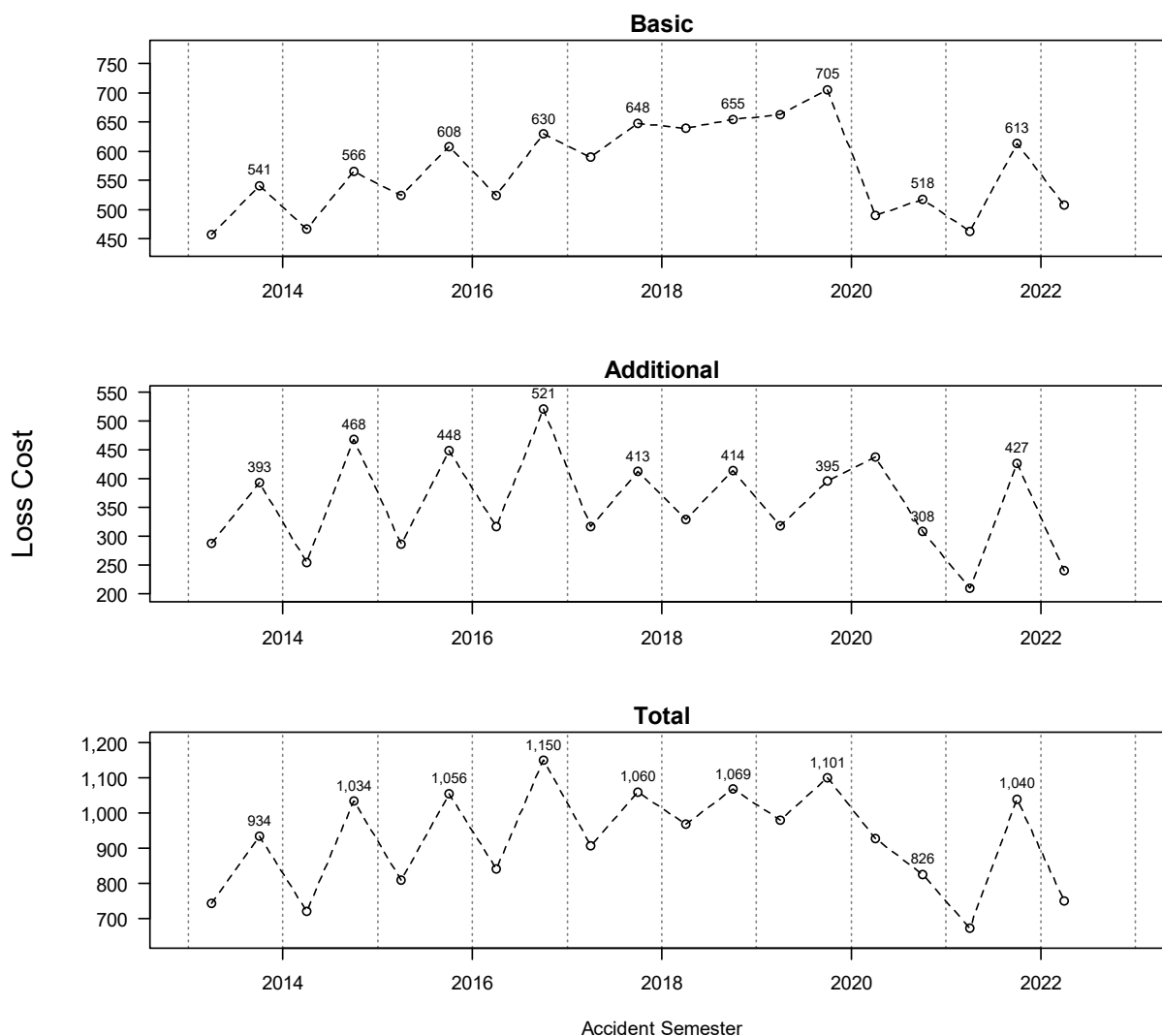
Claims costs comprise the largest component of premiums. In Figure 5 we present the estimated ultimate average claims cost per earned vehicle for the Basic Coverages, Additional Coverages and for all coverages combined by half-year increments for the ten-year period ending June 30, 2022. This claims data presented for each half-year represents amounts for claims where the event that gave rise to the

Summary of Alberta Private Passenger Vehicle 2013 to 2022 Experience

claim occurred in that time period, January 1 to June 30 or July 1 to December 31; and is referred to as accident-half year experience. In the average claim cost estimate we include:

- indemnity amounts to fully settle and close the claim<sup>12</sup>, and
- all internal and external claims settlement costs<sup>13</sup> (e.g., legal fees and claim adjuster costs).<sup>14</sup>

**Figure 5: Claim Costs - Summary**



The COVID-19 pandemic resulted in a decline in vehicle usage and accident events in 2020, 2021 and 2022-1. However, hailstorms in 2020 and 2021 had an offsetting effect from the low claim frequency during the pandemic on the comprehensive coverage included with Additional Coverages.

<sup>12</sup> The claims costs presented are on an ultimate basis. See Section **Error! Reference source not found.** for more details.

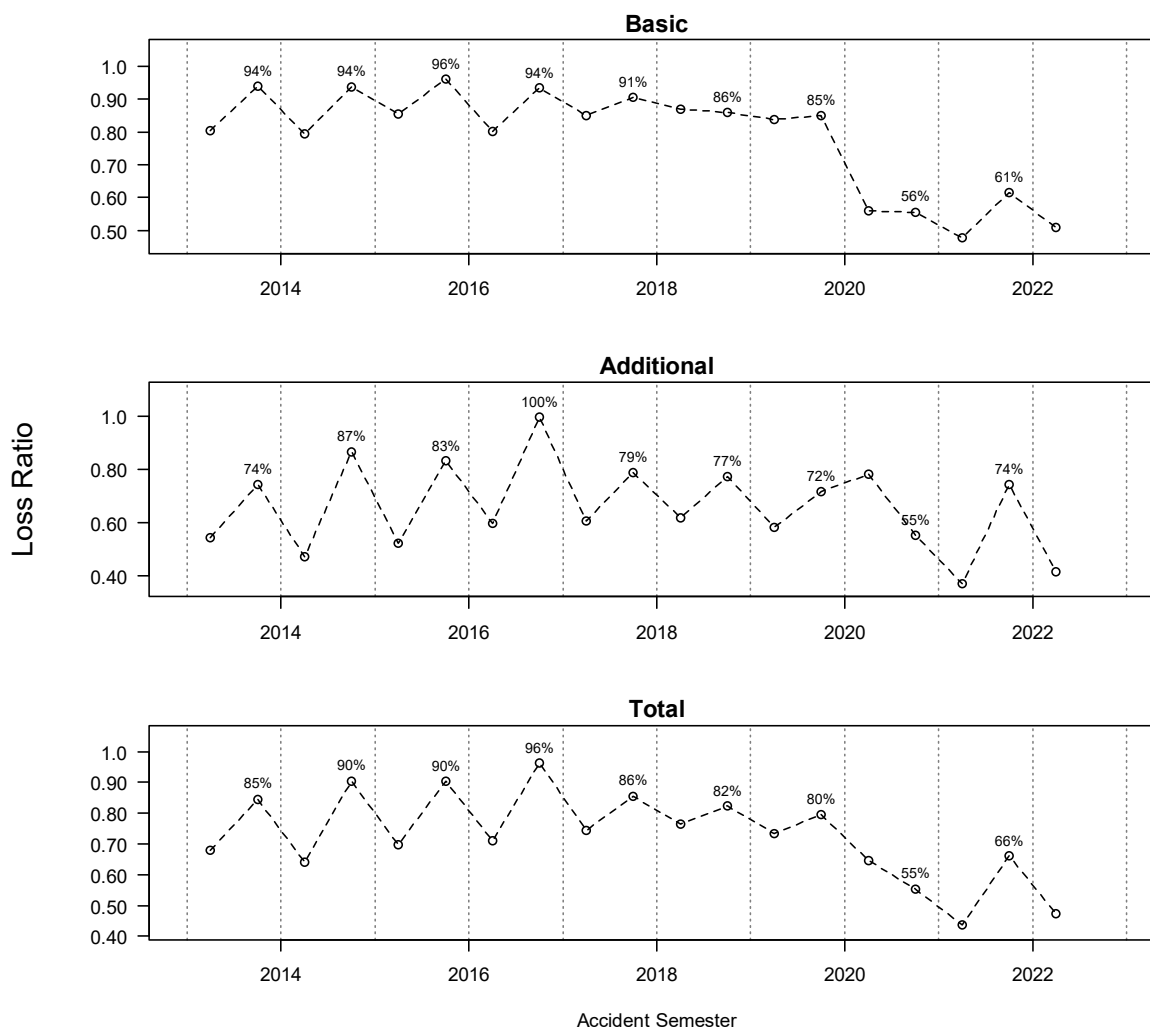
<sup>13</sup> External claim settlement costs are reported by insurers for each individual claim to GISA, referred to as allocated loss adjustment expenses. Internal claim expense factors estimate by GISA are based on aggregated costs reported to GISA.

<sup>14</sup> The Health Levy is not included in the noted average claim costs.

Summary of Alberta Private Passenger Vehicle 2013 to 2022 Experience

In Figure 6 we present the ratio of the loss and loss adjustment expense amount to the earned premiums to provide an indication of the relative change in the loss ratio over time.

**Figure 6: Loss Ratio - Summary<sup>15</sup>**



Claims costs are a combination of the claims frequency rate (i.e., the average number of claims per 100 insured vehicles) and the average cost of each claim (referred to as the claim severity, measured as the total claims cost as a ratio to the total number of claims). We discuss the historical claims frequency and severity for each coverage more fully in Section 6.

<sup>15</sup> For visual clarity, the accident half-year loss ratio numerical values are only presented for the second half of each year.



## 3. Legislative Reforms and Government Actions

### 3.1. History of Rate Regulation

On October 5, 2004 the AIRB was established to regulate automobile insurance premiums for Basic Coverage and to monitor premiums for Additional Coverage for private passenger vehicles in the Province of Alberta.

Between 2004 and 2013, the Board was required under Section 602 of the Insurance Act and Section 4 of the Automobile Insurance Premiums Regulation to conduct an annual adjustment process that used the Industry-wide experience to determine whether premiums for Basic Coverage on private passenger vehicles should be adjusted. As part of this process the Board would annually request its actuary, Oliver Wyman, to complete an analysis of the Industry-wide experience. Interested parties including the Consumer Representative were given the opportunity to respond to this analysis at an Open Meeting held in June in either Calgary or Edmonton.

The purpose of the Open Meeting was to review past data related to the frequency and severity of claims, expected rate of return on investment, the economy, operating expenses, and other factors to determine a reasonable estimate of the average premium required to compensate claimants and provide companies with a fair profit after operating expenses. The Board considered its actuary's analysis, submissions by stakeholders, the information presented at the Open Meeting, as well as estimates of the average street premium to establish an Industry-wide Adjustment. In the case of an increase, all insurers were permitted to increase rates up to the amount of the Board approved Industry-wide Adjustment; in the case of a decrease, all insurers were required to fully implement the Board approved Industry-wide Adjustment by November 1st.

On November 27, 2013, the *Enhancing Consumer Protection in Auto Insurance Act* was passed. The associated changes to the Insurance Act and a new, supporting, Automobile Insurance Premiums Regulation came into force effective July 1, 2014. With the changes in the Act and Automobile Insurance Premiums Regulation:

- the Board's mandate was expanded to also regulate Additional Coverage.
- the Industry-wide Adjustment process was discontinued; and
- Alberta moved to a "file-and-approve" model whereby insurers must file on an individual company basis for revisions to their rating programs.

The Automobile Insurance Premiums Regulation requires the Board to conduct an Annual Review (AR) and a Semi-Annual Review (SAR) for private passenger vehicles. A component of these Reviews is to analyze Industry experience and develop benchmarks for individual rate filings. The Board considers all input in developing its benchmarks. The benchmarks are posted on the Board's website at <https://albertaaarb.ca/> and include information that insurers should consider in preparing their rate filings.

### 3.2. 2020 Reforms

On October 30, 2020 the Government announced reforms to the province's automobile insurance framework. Bill 41 amended the Insurance Act and includes several changes that should be reflected in any future filings.

Bill 41 included changes related to prejudgment interest, minor injury regulation, diagnostic and treatment protocols regulation, automobile accident benefits regulation, and the property damage coverage. Bill 41 received Royal Assent on December 9, 2020.

We summarize the amendments below, noting the different effective dates applicable to claims occurring on or after the specified date.

**Insurance Act – Prejudgment Interest** (Effective upon Royal Assent): Prejudgment interest paid on non-pecuniary damages will now fluctuate with current interest rates, as it currently does with pecuniary damages.

**Minor Injury Regulation** (Effective for accidents occurring on or after November 1, 2020): See Section 3.3 for details.

**Diagnostic and Treatment Protocols Regulation** (Effective October 29, 2020): Dentists, psychologists and occupational therapists are now considered adjunct therapists and the new maximum benefit for treatment by any combination of these adjunct therapists is \$1,000.

**Automobile Accident Insurance Benefits Regulation** (Effective October 29, 2020, applicable to both new and existing claims): See Section 3.5 for details.

**Introduction of Direct Compensation Property Damage** (Effective January 1, 2022): Insurers are required to provide DCPD premiums separated from third party liability premiums.

**File and Use:** Insurers will be permitted to use a File and Use filing in accordance with the AIRB's File and Use Filing Guidelines.

Reports on the cost impact of Bill 41 can be found on the AIRB's website. The Industry data that this Annual Review report is based upon, as of June 30, 2022, does not include sufficient claims experience to update the expected cost impact of Bill 41. Due to the impact of COVID-19, we expect an additional time lag before the effect of the reforms can be accurately measured using the Industry claims experience.

### 3.3. Minor Injury Reforms

In 2003 the Alberta Government enacted Bill 53, which provided for:

An inflation adjusted cap on pain and suffering for minor injuries at \$4,000. We summarize the maximum minor injury amounts by effective date in Table 2 below

the consideration of collateral sources;

the determination of wage loss based on net, rather than gross, wages;

an increase in the limit for medical/rehabilitation benefits under accident benefits to \$50,000; and

maximum diagnosis and treatment protocol fees for medical/rehabilitation benefits under accident benefits.

**Table 2: Historical Minor Injury Cap Amounts**

| Effective Date Range                | Minor Injury Amount |
|-------------------------------------|---------------------|
| October 1, 2004 – December 31, 2006 | \$4,000             |
| January 1, 2007 – December 31, 2007 | \$4,144             |
| January 1, 2008 – December 31, 2008 | \$4,339             |
| January 1, 2009 – December 31, 2009 | \$4,504             |
| January 1, 2010 – December 31, 2010 | \$4,518             |
| January 1, 2011 – December 31, 2011 | \$4,559             |
| January 1, 2012 – December 31, 2012 | \$4,641             |
| January 1, 2013 – December 31, 2013 | \$4,725             |
| January 1, 2014 – December 31, 2014 | \$4,777             |
| January 1, 2015 – December 31, 2015 | \$4,892             |
| January 1, 2016 – December 31, 2016 | \$4,956             |
| January 1, 2017 – December 31, 2017 | \$5,020             |
| January 1, 2018 – December 31, 2018 | \$5,080             |
| January 1, 2019 – December 31, 2019 | \$5,202             |
| January 1, 2020 – December 31, 2020 | \$5,296             |
| January 1, 2021 – December 31, 2021 | \$5,365             |
| January 1, 2022 – December 31, 2022 | \$5,488             |
| January 1, 2023 – December 31, 2023 | \$5,817             |

These reforms became effective October 1, 2004, except for the consideration of collateral sources and the determination of wage loss based on net rather than gross wages, which became effective January 26, 2004.

On February 8, 2008 the Alberta Court of Queen’s Bench ruled that the Minor Injury Regulation be struck down. In June 2009 the Alberta Court of Appeal overturned the February 2008 decision of the Alberta Court of Queen’s Bench. In December 2009 the Supreme Court of Canada denied the request for leave to appeal, thereby affirming the cap on minor injuries.

On March 17, 2011 the Government extended the Minor Injury Regulation to September 30, 2016. It was later further extended to September 30, 2018.

Maximum fees for certain diagnosis and treatment protocols have been updated since introduced in 2005, with the most recent increases effective in June 2013 for physical therapy and February 2016 for chiropractic services.

A renewed Diagnostic and Treatment Protocols Regulation came into force on July 1, 2014.<sup>16</sup>

On May 17, 2018 the Government removed the expiry date for the Minor Injury Regulation and Automobile Accident Insurance Benefits Regulation. In addition, the Government amended the Minor

<sup>16</sup> It is our understanding that the changes were administrative in nature (clarifications).

Injury Regulations to clarify<sup>17</sup> that some temporomandibular joint injuries, as well as physical or psychological conditions or symptoms arising from sprains, strains and whiplash injuries and that resolve with those injuries, are considered minor injuries under the Minor Injury Regulation and should be treated as such. These changes may contribute to the decline of bodily injury frequency observed in Section 6.1.

Effective for accidents occurring on or after November 1, 2020, the MIR was amended as follows:

The definition of a “minor injury” was updated to include clinically associated sequelae of sprains, strains or whiplash-associated disorder injuries, whether physical or psychological in nature, that do not result in a serious impairment; and

Dentists were added as eligible health professionals able to act as certified examiners under the MIR, with their scope limited to temporomandibular joint injuries.

### **3.4. Grid Rate System**

On October 1, 2004, the Government introduced the Grid Rate System, which set maximum premiums to be charged for Basic Coverage, and established two Risk Sharing Pools under a “take all comers” underwriting system.

With the introduction of DCPD effective January 1, 2022, the AIRB Grid rate excludes DCPD. As is the case for coverages such as collision and comprehensive, the DCPD premium will not be used to determine if a risk’s premium is capped by the Grid.

### **3.5. Automobile Accidents Benefits Revisions**

Effective March 1, 2007, the Government revised the accident benefits coverage limits as follows:

(1) increased the funeral benefits from \$2,000 to \$5,000 and (2) increased the maximum weekly disability income limit from \$300 to \$400 for employed individuals and from \$100 to \$135 for other individuals.

Effective October 29, 2020, the Government made the following revisions to the Automobile Accident Insurance Benefits Regulation:

Clarified that Section B - Accident Benefits can be used for any medically necessary equipment, vehicle modifications and home modifications; and

Increased benefit amounts:

- chiropractic services from \$750 to \$1,000;
- massage therapy and acupuncture from \$250 to \$350;
- funeral expenses from \$5,000 to \$6,150;
- grief counselling from \$400 to \$500;
- employed disability income benefits from \$400 to \$600 per week;
- non-earner disability income benefits from the current \$135 for 26 weeks, to \$200 for 104 weeks; and psychological, physical therapy, and occupational therapy services from \$600 to \$750.

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<sup>17</sup> Insufficient data is available at this time to assess if this clarification will affect claims costs.

### **3.6. Legalization of Cannabis**

Effective October 17, 2018, the Federal Government legalized the use of cannabis. No Alberta-specific information is available on how this change may have affected claims costs and it is assumed any impact of this change will be implicit within the claims experience data.

## 4. Analysis – General Discussion

### 4.1. Data

The source for the claim data that we analyze is the 2022-1 AUTO7501 Automobile Industry Exhibit (as of June 30, 2022) provided by GISA, and it includes the experience of all drivers in Alberta, including drivers insured by the Facility Association and the two RSPs (from the time they were formed). We refer to this information as the AIX report.

The claim data that is available through the Industry AIX report includes:

Paid Claim Amounts – claim payments made by an insurance company; includes payments that were made on claims that are now closed, as well as payments made on claims that are still open (referred to as partial payments).

Case Reserves – the insurance company’s estimate of the amount of future claim cost payments to be made on individual claims; a case reserve is assigned to each individual open claim.

The total of the paid claim amounts made on each closed or open claim and the case reserve carried on each open claim is referred to as the reported incurred claim amount.

The case reserves (and hence the reported incurred claim amounts) reflect the views and opinions of the respective insurance company claim adjusters that handle the individual claims and are based on the information available to the claim adjusters as of a particular point in time. Over time, the case reserves are revised by the claim adjusters to more accurately reflect the payments that are made or that are expected to be made based on additional information that becomes available to the claim adjusters.

It is important to note two points about case reserves:

1. How insurance companies determine case reserves varies from company to company: For example, it is typical for insurance companies to instruct their claim adjusters to post a pre-set amount (e.g., \$10,000 for bodily injury claims) as the case reserve when a claim is first reported and before any investigation is performed. This is referred to as the “initial claim reserve.” In a sense, the initial claim reserve serves as a placeholder until investigation is conducted and a more accurate estimate can be established by the claim adjusters. For those companies that follow this approach, the amount of the initial case reserve and the length of time the initial claim reserve remains posted varies by company and, for a particular company, could change over time.
2. The case reserves do not reflect the “actuarial reserve” (also referred to as the bulk reserve or the IBNR reserve) that insurance companies record in their financial statements: This actuarial reserve, which is estimated by the insurance company actuaries, is an aggregate amount that is intended to provide for (i) any overall inadequacies or redundancies in the case reserves that are established on individual claims, and (ii) claims (accidents) that occurred but have not yet been reported to the insurance company as of the time of the financial statement. How insurance companies (their actuaries) determine the “actuarial reserve,” while subject to the common standards of the Canadian Institute of Actuaries, varies from company to company.

## 4.2. Data Exclusions

As part of our review process, we consider the individual data of the largest ten insurers/groups in the province for any anomalies in the data that we find may inadvertently lead to an erroneous selected loss trend rate. Only in those situations that we consider the data to be both highly unusual and impactful do we remove the individual insurer/group data from our analysis.

In our 2022 annual report we identified a major insurer/group with erroneous data and the physical damage<sup>18</sup> data of this one insurer/group was excluded from our analysis. As previously noted in our prior 2022 annual report, GISA confirmed that they were working with the insurer/group to correct this over-reporting error.

For this 2023 semi-annual report, the erroneous data reported by one major insurer/group has been resolved and therefore, is included in our analysis.

## 4.3. Estimating Ultimate Claim Counts and Ultimate Claim Amounts by Accident Half-Year – General Approach

We estimate the final (ultimate) number of claims and cost<sup>19</sup> of all claims that arise from events that occur in the first and second half of the year, separately, through to June 30, 2022 (referred to as “accident half-years”<sup>20</sup>). These estimates are used to measure and select the benchmark loss trend rates that we recommend to the Board.

We estimate the final/ultimate claim cost by accident half-year by developing our own estimate of the needed actuarial reserve for all insurance companies in aggregate (i.e., the Industry), and adding that amount to the reported incurred claim amounts as published by GISA<sup>21</sup>. In doing so, we consider the Industry’s reported claim amounts (the aggregate paid claim amounts and individual claim case reserves), but we do not consider the actuarial reserves established by each insurance company as those reserves are not reported to GISA.

We estimate the Industry actuarial reserve by applying what are referred to as “loss development factors” to the aggregated incurred claim amounts that are reported to GISA.<sup>22</sup> The selection of loss development factors that we apply is based on an analysis that we perform to determine how adequate the individual claim case reserves established by insurance companies (in aggregate) have been historically. We refer to the historical emergence of aggregate claim values as loss development patterns.

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<sup>18</sup> In this instance, we define physical damage coverages to include property damage, collision, comprehensive, all perils, and specified perils.

<sup>19</sup> By “final” or “ultimate” cost we mean the amount paid by insurance companies at the time that all claims that occur in a particular year have been reported and settled.

<sup>20</sup> Accident half-year refers to either the period January 1 through June 30, or July 1 through December 31 of the indicated year. 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. We also refer to accident half-years or semesters as XXXX-1 or XXXX-2, or XXXX.1 or XXXX.2 where “XXXX” refers to the indicated year.

<sup>21</sup> GISA edits and compiles the data reported by individual insurers.

<sup>22</sup> Our selections are based on the Incurred Development Method.

We select loss<sup>23</sup> development factors to estimate the actuarial reserve need, hence the final claim cost, for each accident half-year through June 30, 2022 (we group claims by the accident half-year that the events that give rise to the claims occur), separately for each of the coverages.

We follow a similar approach (using what are referred to as claim count development factors) to estimate the final number of claims that will arise from events that have occurred by accident half-year through June 30, 2022, separately for each of the coverages.

#### **4.4. Selection of Claim Count and Claim Amount Development Factors**

Our selected cumulative factors and basis for selection (e.g., weighted average of the last six development factors) are presented in Appendix A. The summary of our selected factors, estimated ultimate losses and claim counts, as well as a comparison to the selections made in our prior review are presented in Appendices C and D.

In Section 4.5 we present a comparison of our current and prior estimates of the ultimate loss cost, frequency and severity for each of the last five years for each coverage.

Due to the COVID-19 pandemic, there is additional uncertainty associated with the estimates for the 2020, 2021, and 2022-1 accident year periods.

#### **4.5. Selection of Ultimate Loss Costs, Frequencies, and Severities**

We note that the selection of development factors influences the selected loss trend rates.<sup>24</sup> As a result of a data correction for the physical damage coverages from one major writer,<sup>25</sup> the emerged claim experience and the development factors we select, our estimates of ultimate loss costs, frequencies,<sup>26</sup> and severities by accident year have changed from those we presented for the prior review. We present those changes in the following tables.

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<sup>23</sup> We use the terms “loss,” “claim amount,” and “claim cost” interchangeably in this report. In this report, all these terms include a provision for allocated loss adjustment expenses (ALAE).

<sup>24</sup> A summary of our selected ultimate loss costs, severity amounts and frequency by accident half-year are presented in Appendix B.

<sup>25</sup> Our prior analysis excluded one major writer’s physical damage data due to a reporting error. As this insurer’s corrected data is now included in our analysis, this is not a direct comparison as the underlying exposure is not the same.

<sup>26</sup> Number of claims per 1,000 insured vehicles.



**Table 3: Changes in Estimated Loss Costs, Frequency and Severity - Bodily Injury**

| AY   | 2022 AR<br>(as of December 31, 2021) |          |           | 2023 SAR<br>(as of June 30, 2022) |          |           |
|------|--------------------------------------|----------|-----------|-----------------------------------|----------|-----------|
|      | Loss Cost                            | Severity | Frequency | Loss Cost                         | Severity | Frequency |
| 2018 | \$440.90                             | \$68,920 | 6.40      | \$422.68                          | \$66,832 | 6.32      |
| 2019 | \$466.67                             | \$71,586 | 6.52      | \$462.29                          | \$71,814 | 6.44      |
| 2020 | \$340.28                             | \$76,857 | 4.43      | \$343.27                          | \$78,907 | 4.35      |
| 2021 | \$328.96                             | \$71,208 | 4.62      | \$340.98                          | \$71,507 | 4.77      |
| 2022 |                                      |          |           | \$277.18                          | \$72,785 | 3.81      |

Overall, for the four-year period 2018 to 2021, our estimates of the average annual ultimate loss costs have decreased by 0.5%.<sup>27</sup>

**Table 4: Changes in Estimated Loss Costs, Frequency and Severity -Property Damage**

| AY   | 2022 AR<br>(as of December 31, 2021) |          |           | 2023 SAR<br>(as of June 30, 2022) |          |           |
|------|--------------------------------------|----------|-----------|-----------------------------------|----------|-----------|
|      | Loss Cost                            | Severity | Frequency | Loss Cost                         | Severity | Frequency |
| 2018 | \$174.19                             | \$5,903  | 29.51     | \$175.50                          | \$5,801  | 30.25     |
| 2019 | \$167.00                             | \$6,010  | 27.79     | \$169.66                          | \$5,912  | 28.70     |
| 2020 | \$111.90                             | \$6,039  | 18.53     | \$115.56                          | \$5,950  | 19.42     |
| 2021 | \$129.83                             | \$6,604  | 19.66     | \$136.72                          | \$6,622  | 20.65     |
| 2022 |                                      |          |           | \$166.31                          | \$7,555  | 22.01     |

Overall, for the four-year period 2018 to 2021, our estimates of the average annual ultimate loss costs have increased by 2.5%. Most of the change from the prior review is due to the inclusion of the corrected data by one insurer/group in this review whose erroneous data was excluded in the prior review, as discussed in Section 4.2.

<sup>27</sup> We have adjusted our selection basis for bodily injury incurred loss amounts due to unusual (favorable) development along the most recent diagonal. More specifically, our selected age-to-age factors for maturities between 48 and 108 months are based on the 6- semester weighted average (excluding high/low) rather than a 4-semester weighted average.

**Table 5: Changes in Estimated Loss Costs, Frequency and Severity: Accident Benefits–Total**

| AY   | 2022 AR<br>(as of December 31, 2021) |          |           | 2023 SAR<br>(as of June 30, 2022) |          |           |
|------|--------------------------------------|----------|-----------|-----------------------------------|----------|-----------|
|      | Loss Cost                            | Severity | Frequency | Loss Cost                         | Severity | Frequency |
| 2018 | \$66.90                              | \$5,829  | 11.48     | \$66.48                           | \$5,792  | 11.48     |
| 2019 | \$72.84                              | \$6,331  | 11.50     | \$72.13                           | \$6,270  | 11.50     |
| 2020 | \$62.35                              | \$8,166  | 7.64      | \$59.90                           | \$7,850  | 7.63      |
| 2021 | \$74.97                              | \$8,662  | 8.65      | \$76.37                           | \$8,736  | 8.74      |
| 2022 |                                      |          |           | \$76.77                           | \$9,217  | 8.33      |

Overall, for the four-year period 2018 to 2021, our estimates of the average annual ultimate loss costs have decreased by 0.8%.

**Table 6: Changes in Estimated Loss Costs, Frequency and Severity: Collision**

| AY   | 2022 AR<br>(as of December 31, 2021) |          |           | 2023 SAR<br>(as of June 30, 2022) |          |           |
|------|--------------------------------------|----------|-----------|-----------------------------------|----------|-----------|
|      | Loss Cost                            | Severity | Frequency | Loss Cost                         | Severity | Frequency |
| 2018 | \$262.21                             | \$6,626  | 39.57     | \$282.98                          | \$6,556  | 43.17     |
| 2019 | \$250.98                             | \$6,363  | 39.45     | \$273.33                          | \$6,464  | 42.29     |
| 2020 | \$171.07                             | \$6,639  | 25.77     | \$186.78                          | \$6,737  | 27.72     |
| 2021 | \$182.36                             | \$7,430  | 24.54     | \$211.93                          | \$7,757  | 27.32     |
| 2022 |                                      |          |           | \$162.37                          | \$8,475  | 19.16     |

Overall, for the four-year period 2018 to 2021, our estimates of the average annual ultimate loss costs have increased by 10.2%. Most of the change from the prior review is due to the inclusion of the corrected data by one insurer/group in this review whose erroneous data was excluded in the prior review, as discussed in Section 4.2.

**Table 7: Changes in Estimated Loss Costs, Frequency and Severity: Comprehensive**

| AY   | 2022 AR<br>(as of December 31, 2021) |          |           | 2023 SAR<br>(as of June 30, 2022) |          |           |
|------|--------------------------------------|----------|-----------|-----------------------------------|----------|-----------|
|      | Loss Cost                            | Severity | Frequency | Loss Cost                         | Severity | Frequency |
| 2018 | \$177.23                             | \$6,581  | 26.93     | \$174.93                          | \$6,326  | 27.65     |
| 2019 | \$174.16                             | \$6,568  | 26.52     | \$170.25                          | \$6,283  | 27.10     |
| 2020 | \$244.88                             | \$7,831  | 31.27     | \$264.66                          | \$7,960  | 33.25     |
| 2021 | \$185.65                             | \$6,971  | 26.63     | \$189.45                          | \$6,721  | 28.19     |
| 2022 |                                      |          |           | \$136.25                          | \$6,362  | 21.42     |

Overall, for the four-year period 2018 to 2021, our estimates of the average annual ultimate loss costs have increased by 2.2%. Most of the change from the prior review is due to the inclusion of the

corrected data by one insurer/group in this review whose erroneous data was excluded in the prior review, as discussed in Section 4.2.

## 5. Loss Trend Methodology

### 5.1. Introduction

Loss trend rates are factors that are used in the determination of rate level indications. They are applied to the experience period ultimate incurred losses to adjust those 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 is adjusted to reflect observed changes in cost conditions that have taken place (i.e., “past trend”), and then the data is further adjusted to reflect future changes in cost conditions that are expected to occur between the end of the experience period and the period the new premiums will be in effect (i.e., “future trend”).

Therefore, past trend rates should reflect the cost level changes that occurred during the experience period. Future trend rates should consider those changes as well as the likelihood that those patterns may change.

To derive estimates of appropriate loss trend rates, we consider the observed trend patterns based on our estimates of the Industry Alberta ultimate claim frequency, claim severity and loss cost<sup>28</sup> by accident half-year that we derive (as we discuss in Section 4.4) and the results of regression analyses we perform. In doing so, we reflect parameters that could have an impact on the trends, such as time, seasonality, and, as appropriate, “level changes” and coverage reforms.

We also consider the results of statistical tests that we apply.

- With respect to the Adjusted R-squared, we generally refer to values of 80% and greater as “high,” values between 40% and 80% as “moderate,” and values less than 40% as “low.”
- We consider *p*-values less than 5% to be “significant.”
- The confidence interval presented corresponds to a 95% probability level range.

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:

with and without certain data points to improve our understanding of the sensitivity of the calculated loss trend rates to the inclusion or exclusion of those points; and

over time periods that are longer than the experience period as a means of increasing the stability/reliability of the data being analyzed and to assess changes in trend patterns that may have occurred.

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<sup>28</sup> Our severity and loss cost estimates include allocated loss adjustment expenses and a provision for the unallocated loss adjustment expenses (ULAE) based on ULAE factors provided by GISA.

In selecting future trend rates, if appropriate, we adjust our selected past trend rates considering the changes that have occurred over the recent past if there is evidence of new patterns emerging.

## **5.2. Model Considerations**

### **Time Period**

In this review, we present and consider the claim experience by accident half-year, spanning the twenty-year period from 2002-2 to 2022-1.

While we provide this older experience data for information purposes, we continue to select trend rates generally considering the claim experience since 2005 (following the Bill 53 reforms introduced in 2004).

### **Seasonality**

Some coverages exhibit “seasonality” – where the number of claims or claim amounts incurred during the first half of a year are generally higher/lower than claim costs incurred during the second half of a year. In the coverage-by-coverage discussion that follows, we state whether seasonality is statistically significant based on the measured  $p$ -values and, if appropriate, include seasonality in our regression model used as the basis for our trend selection.

### **Other Variables**

We have considered the possible impact of economic conditions (as measured by the unemployment rate) and weather (such as recorded snowfall levels) on claim frequency in our prior studies. However, for a variety of reasons, which include the difficulty of forecasting the parameter’s future level for the trend model, we do not explicitly consider unemployment or weather as a parameter in our trend analysis.

### **Reforms and Level Changes**

The purpose of the reform or level change parameter is to isolate and remove the impact that reform or other event had on the level of claim costs so that the underlying claim cost trend can be identified.

As we consider the bodily injury claim experience that emerged following the 2004 Bill 53 reforms, we do not include a reform parameter in our regression models for Bill 53.

As we consider the accident benefits claim experience that emerged following the 2007 reforms, we do not include a reform parameter in our regression models for the 2007 reforms.

As discussed more fully below, the COVID-19 pandemic has impacted claims costs during 2020, 2021, and 2022-1. As result of this, combined with the limited Bill 41 experience since November 2020, we are not yet able to assess the impact of Bill 41 in our regression models.

### **Other Considerations**

In selecting past loss trend rates, we also consider:

- variance in results (i.e., changes in trends) based on different historical time periods;
- relationship of frequency and severity trend patterns; and
- uncertainty in the estimated values.

In selecting future trend rates, we adjust our selected past trend rates if there is evidence of new patterns emerging. The recent rise in inflation is likely to affect future trend rates and should be considered for the future trend period, which is the mid-point of the latest accident half-year (April 1, 2022 in this review) to the average accident date of the proposed rate program. We discuss the issue of inflation in the context of the future trend rate below.

A discussion of our selected past and future trend rates for each coverage follows in Section 6.

## 5.3. COVID-19

### Introduction

COVID-19 “stay-at-home” orders and other directives during the pandemic resulted in a dramatic decline in traffic. While there has been increased traffic levels since the early days of the pandemic, there remains uncertainty as to the new normal traffic patterns and claims frequency levels during the time periods during which rate programs that use these benchmarks may be in effect.

The trend rates that we present in this report are intended to measure the rate of change in loss cost experience **without influence** of the COVID-19 pandemic.

Therefore, we exclude the 2020, 2021, and 2022-1 observations from our selected models for the coverages that have seen a significant change in claim costs as a result of the COVID-19 pandemic. We find severity has been unaffected by the COVID-19 pandemic. In the case of frequency, we observe a significant decrease for all coverages except comprehensive, specified perils and all perils. In the case of these three coverages, the June 2020 hailstorm and other July and August weather storms in central and southern Alberta may be masking any decrease coincident with the COVID-19 pandemic.

### Rate Level Considerations

For those rating programs intended to be effective once the COVID-19 pandemic is not expected to have an impact on future claims costs, the historical loss cost data (to which these trend rates will apply to) should be adjusted to remove any impact of the pandemic.<sup>29</sup>

For those rating programs intended to be in effect while the COVID-19 pandemic continues to impact claims costs, the historical loss cost data (to which these trend rates will apply to) should be (i) adjusted to fully remove any impact of the COVID-19 pandemic and (ii) then adjusted to the degree the pandemic is expected to impact claims costs during<sup>30</sup> the proposed rating program.

When considering the degree to which the pandemic is expected to impact claims cost during the proposed rate program, consideration should be given to the most recent experience available at the time of filing. For example, monthly frequency data may give insight into consumer driving habits.

## 5.4. Other Economic Considerations

### Recent Inflation

Supply chain issues and pent-up consumer demand has resulted in a recent increase in inflation which may lead to increased claim costs during the prospective period. In the following figures we present the

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<sup>29</sup> An alternative is to assign zero weight to the accident year/period data distorted by COVID-19.

<sup>30</sup> This adjustment should consider what proportion of the policy year loss experience will be impacted by the COVID-19 pandemic.

consumer price index (left panel) and year-over year percentage change (right panel)<sup>31</sup> over the last 20 years in Alberta, separately, for:

All-Items

Transportation

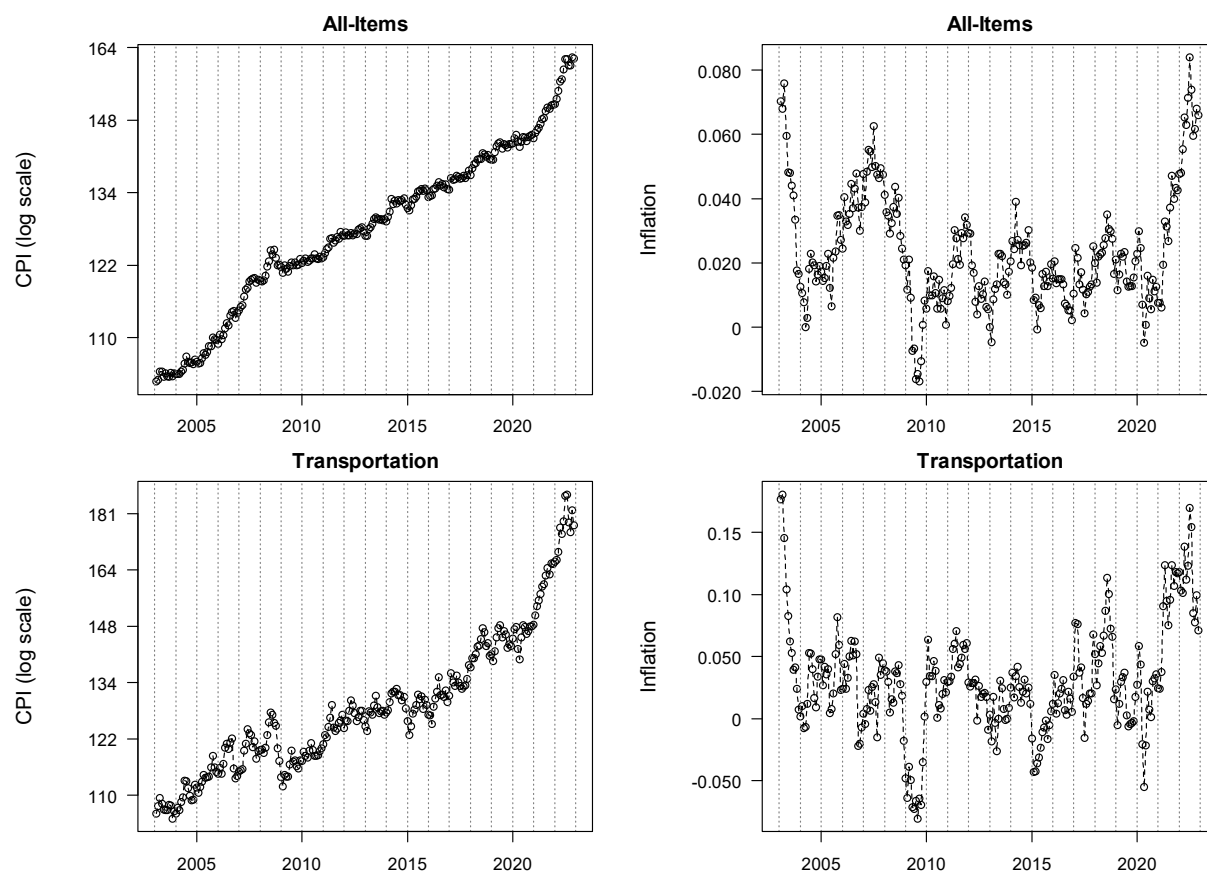
Purchase of passenger vehicles

Rental of passenger vehicles

Passenger vehicle parts, maintenance, and repair

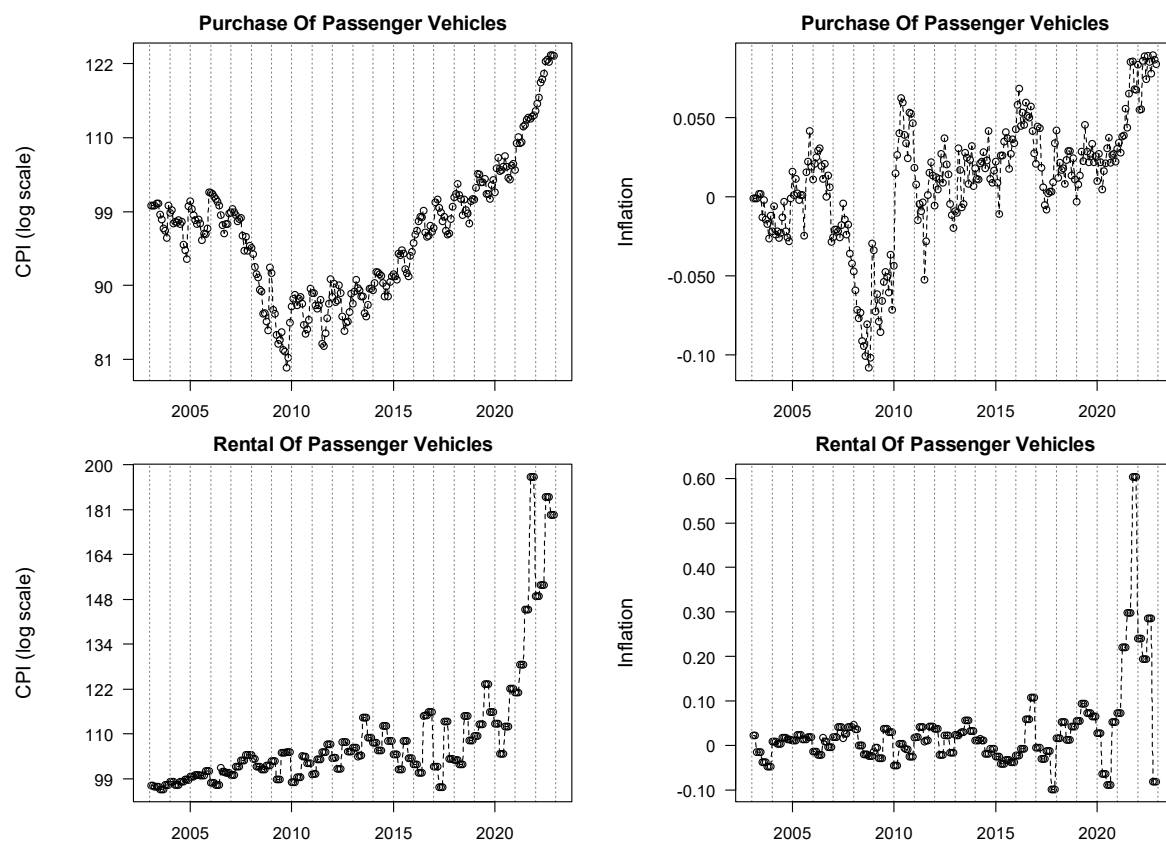
Health Care

**Figure 7: Consumer Price Index – All Items & Transportation**



<sup>31</sup> As measured by the 12-month change in CPI.

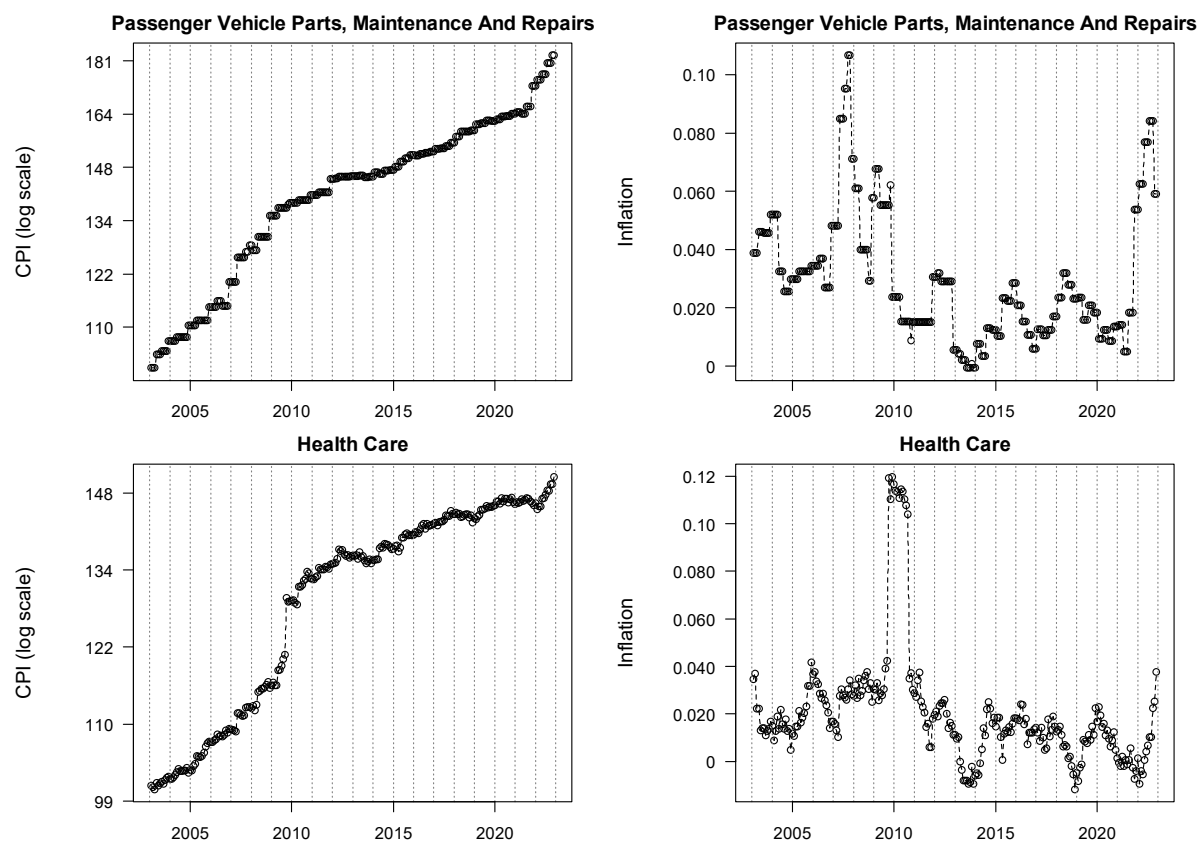
**Figure 8<sup>32</sup>: Consumer Price Index – Purchase & Rental of Passenger Vehicle**



<sup>32</sup> Rental of passenger vehicles data is Canada-wide data, not Alberta-only data.



**Figure 9: Consumer Price Index – Passenger Vehicle Parts, Maintenance, and Repair & Healthcare**



A review of the historical data points (as presented in the figures above) shows that subject to variability:

- Inflationary pressures on physical damage coverages (such as vehicle purchase, rentals and passenger vehicle parts, maintenance and repair costs) have resulted in the highest inflation levels in the last 20 years, with the exception of a spike in inflation during 2010 for passenger vehicle parts, maintenance and repairs.
- Health Care costs, considering the high amount of variability, appear significantly less affected by the recent inflationary trends.<sup>33</sup>

As discussed in our prior report, we expect the recent higher inflation for vehicle parts, maintenance and repair costs to affect claim costs for physical damage coverages<sup>34</sup> since more costly repairs will increase the total amount needed to settle claims. The increase in inflation is not limited to vehicle parts, maintenance and repair costs. While vehicle parts and repair costs are a large proportion of the claim settlement, other components of claim costs, such as new or used vehicles (for total loss claims),

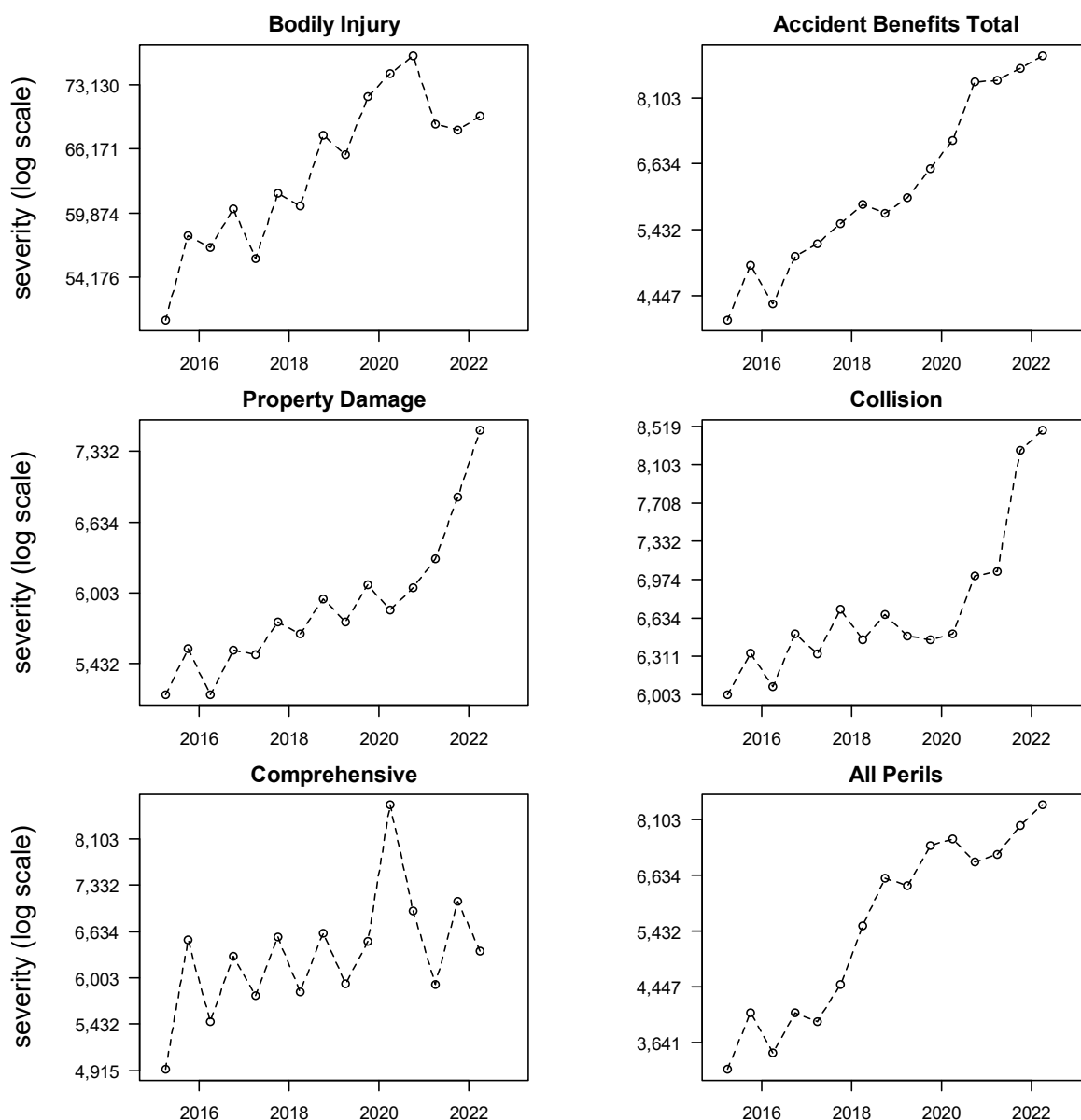
<sup>33</sup> We acknowledge the impact of inflation on health care costs (affecting bodily injury and accident benefits) may change in the future as inflation ripples through the economy.

<sup>34</sup> We define physical damage coverages as those that pertain to property physical damage. This includes property damage tort, DCPD, collision, comprehensive, all perils, and specified perils. We do not include specified perils in Figure 10 due to additional volatility associated with these coverages.

labour rates, as well as vehicle rental rates, could be considered. The amount by which claim costs will increase is highly uncertain as the persistence of the higher inflation levels, which may vary in degree amongst the various components of claims costs, is difficult to predict.

We present a summary of the most recent five years of severity estimates for all major coverages in Figure 10. We observe the 2021-2 and 2022-1 property damage and collision severity has risen steeply, deviating from historical patterns. The change to a steep rise is not as evident for comprehensive and all perils. Recent inflationary impact, if any, for bodily injury and accident benefits severity are comingled with the reform impact and can't be separately identified.

**Figure 10: Historical Severity by Coverage**



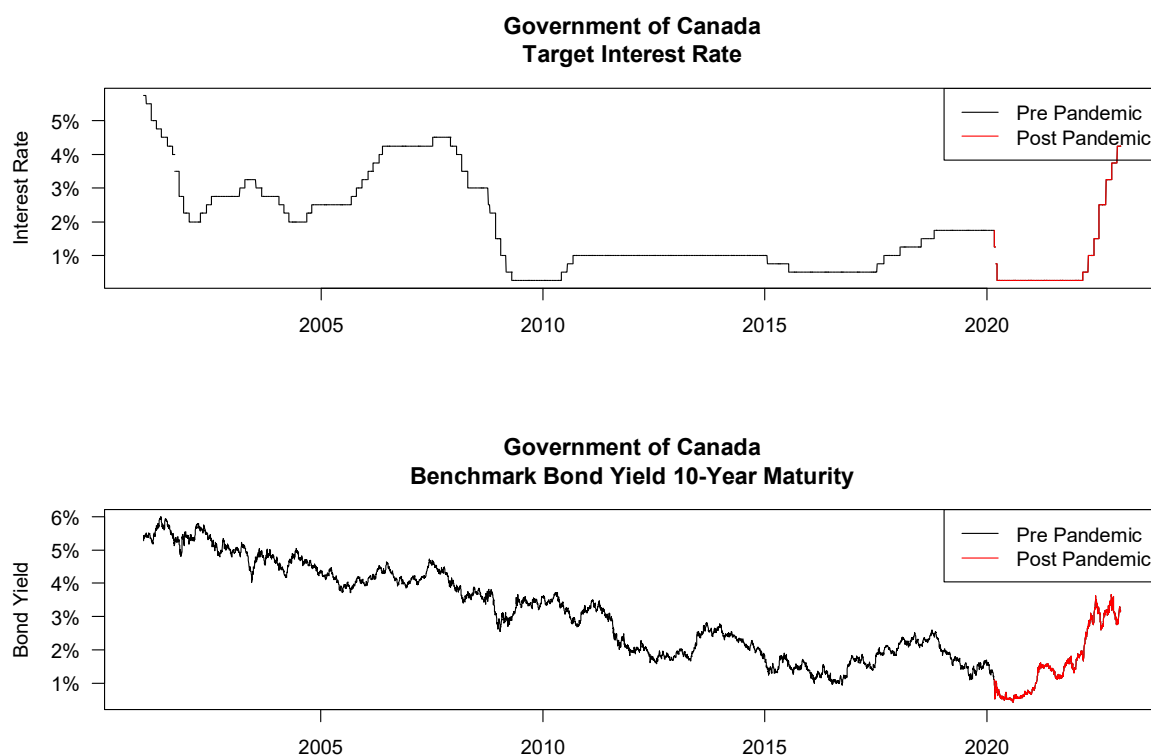
## Future Inflation

The Government of Canada is raising interest rates to curb the inflation surge and reduce inflation to pre-pandemic levels. The timing of the interest rates peak and subsequent decline will affect the timing of a return to lower inflation levels. Managing the relationship of the interest rate changes over time to curb inflation is a challenge for the government; and as a result, a challenge for the insurance industry.

At some point in the near future, assuming the higher interest rates cause the inflation surge to subside, then higher loss trend rates should also subside. Inflation forecasts (see Figure 12 below) that align with the rating program period could be considered when selecting future trend rates.

In Figure 11 we present the historical Government of Canada's target interest rate and benchmark 10-year bond yield.<sup>35</sup> There was a large decrease in 2020 to stimulate the economy during the COVID-19 pandemic. The Government of Canada has increased the target interest rate 6 times in late 2021 and 2022 in an attempt to curb the dramatic rise in inflation. It is generally expected that the Government will continue to increase rates until total CPI is within the target range of 1 to 3 percent.

**Figure 11: Government of Canada Target Interest Rate**

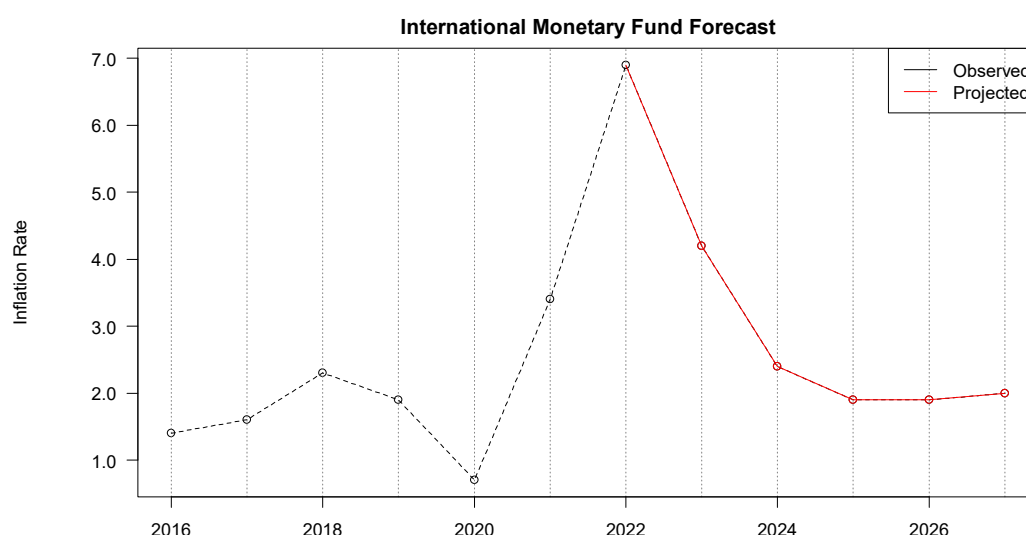


<sup>35</sup> Bond yields and interest rates are positively correlated. Increased interest rates, results in decrease to the cost of the bond (present value of future payments) and higher yields.

Insurer rate applications should consider the impact of the changing interest rate environment on (i) the insurer's expectation of inflation and loss trend through the future rating period and (ii) the additional investment income resulting from higher bond yields.

In Figure 12 we present the International Monetary Fund's (IMF) forecast of future inflation, as measured by all items CPI in Canada. As shown in Figure 12, the IMF expects inflation to decrease in 2023 but remain above the Government's target range, followed by a further decrease in 2024.

**Figure 12: IMF Forecasted Inflation**



### Additional Economic Factors

The loss cost trend rate is not equal to the CPI, but instead correlated with it, as other social and economic factors influence the difference between the measured loss cost trend rate and the CPI. In addition to the impact of high inflation, the following economic factors may affect claims costs:

- **Surging Gas Prices** - the surge in gas prices, along with high general inflation, can affect consumer behaviour regarding vehicle usage. A decline in vehicle usage due to surging gas prices and high overall inflation may be correlated with a decline in frequency.
- **Interest Rates /economic downturn** – increased interest rates or a potential economic downturn may result in a decline in the consumer propensity to buy new vehicles. As new cars typically cost more to repair, this would temper the severity trend.

### Application

Our trend selections are based on models that do not directly consider additional economic parameters, such as CPI, due to the difficulty of forecasting future inflation rates. However, we believe explicit recognition of the current economic environment may be warranted in this case.

In our prior analysis, we proposed the observed change in inflation, as measured by the annual change in CPI for vehicle maintenance and repair costs in Alberta,<sup>36</sup> may be a temporary indicator of the expected change in future severity trend for physical damage coverages. Although we still find this approach reasonable, insurers proposing an inflation adjustment to the future trend rate should consider:

- Economic changes (e.g., CPI) that consider both recent observations and forecasts over the rating program period; and
- How recent inflation has actually affected recent claims costs for the company and industry.

The proposed approach of selecting a future loss cost trend based on the most recent increase in CPI, internal company data, and other economic changes should be viewed as a temporary solution until inflation stabilizes. It is expected that these adjustments would no longer be necessary once inflation has returned to historical levels and the economic environment has stabilized.

## 5.5. Bill 41

As discussed in Section 3, Bill 41 included a suite of product reforms impacting bodily injury and accident benefits effective November 1, 2020. In addition, DCPD was introduced to the Province on January 1, 2022.

### Bodily Injury and Accident Benefits

In our August 25, 2020, and November 20, 2020 reports for the Board, we estimated preliminary reform impacts for bodily injury and accident benefits of -18% and +8%, respectively. In this review, we consider the early emerged data on the impact of these reforms. In Figure 13 below, we present bodily injury and accident benefits severity regression models consistent with the regression models underlying our selected severity trend rates presented in Section 6 of this report. Unlike the models in Section 6, the models in Figure 13 also measure the impact of the reform via an additional scalar parameter. Although the post-reform data is still limited and immature, these models provide an early assessment and insight to the reform's *actual* impact on bodily injury and accident benefits severity. Consistent with our expectation, bodily injury severity has decrease and the accident benefits severity has increased. In addition, the magnitudes of these changes are relatively consistent with our initial expectation.<sup>37 38</sup>

As discussed more fully in our 2020 reform reports, Bill 41 may also influence frequency as a policyholder may be more/less likely to pursue a claim under the higher/lower benefits available. At this time we are unable to determine a reform impact on bodily injury or accident benefits frequency due to the co-mingled effect of the COVID-19 pandemic. Therefore, we have yet to update our reform estimates and continue to adjust the historical bodily injury and accident benefits data underlying our

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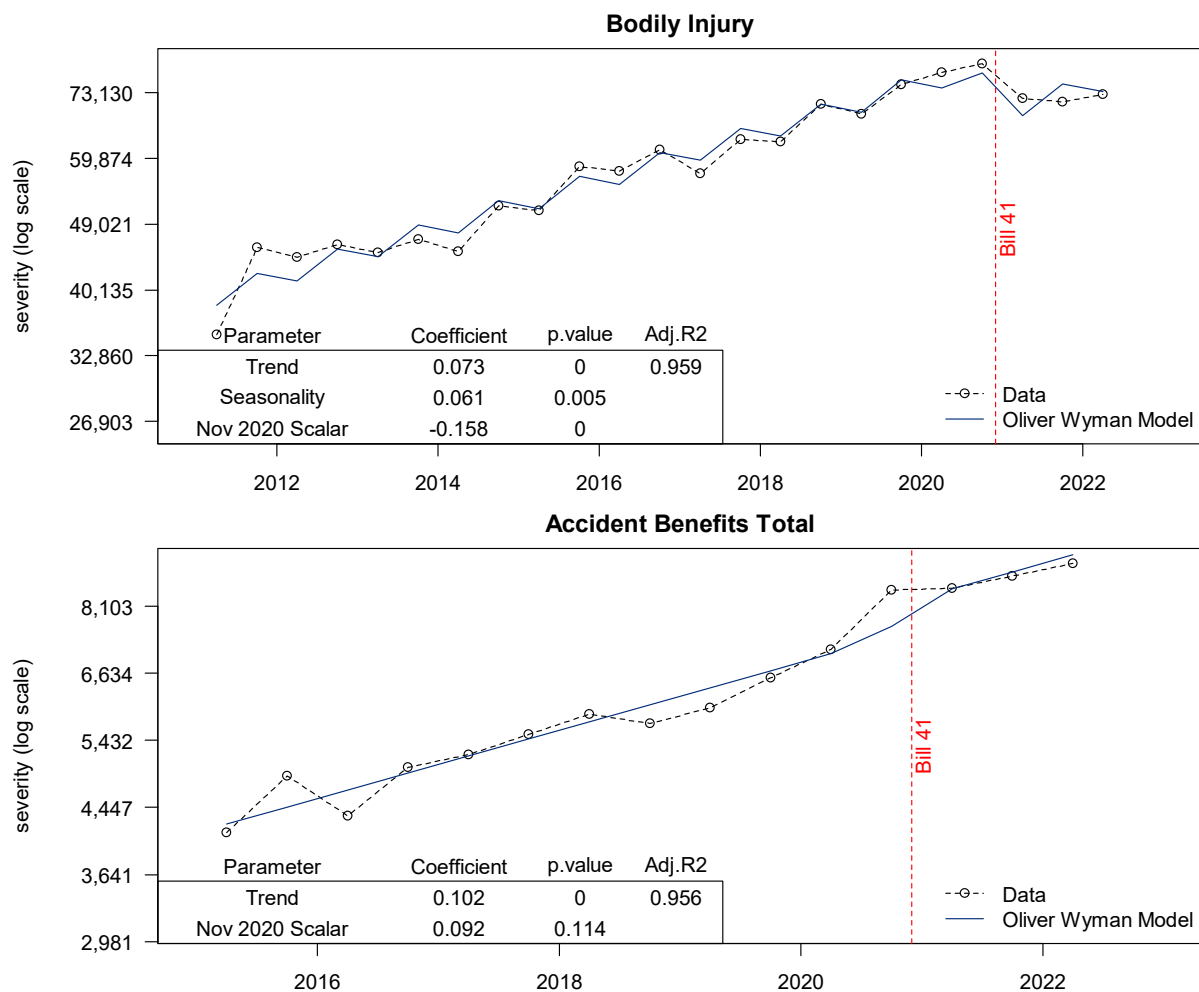
<sup>36</sup> We also noted insurers could consider using a more refined approach by considering a broader measure of CPI on claims costs by weighting the CPI of each component of an average claim; e.g., car rental rates, new and used car prices, vehicle parts, repair wage rates, etc.

<sup>37</sup> The indicated bodily injury severity impact of -14.6% is significant based on the *p-value* and slightly greater (less negative) than our *a-priori* assumption. We are unable to measure the impact on frequency due to the pandemic.

<sup>38</sup> Although the indicated accident benefits severity impact of +9.6% is slightly greater than our *a priori* assumption, this is not considered statistically significant based on the *p-value* test.

loss trend models in Section 6 of this report by  $-18\%$  and  $+8\%$  for the November 2020 reforms. This estimate will be updated as experience data under the November 2020 reforms continues to emerge.

**Figure 13: BI and AB Severity Bill 41 Impact**



## DCPD

The introduction of DCPD may have resulted in a shifting of claims from collision to DCPD.<sup>39</sup> Due to the lack of post-reform data, we rely on pre-2022 experience in selecting our collision and total property damage trend rates.

<sup>39</sup> We have observed a decline in the collision claim frequency level in 2022-1.

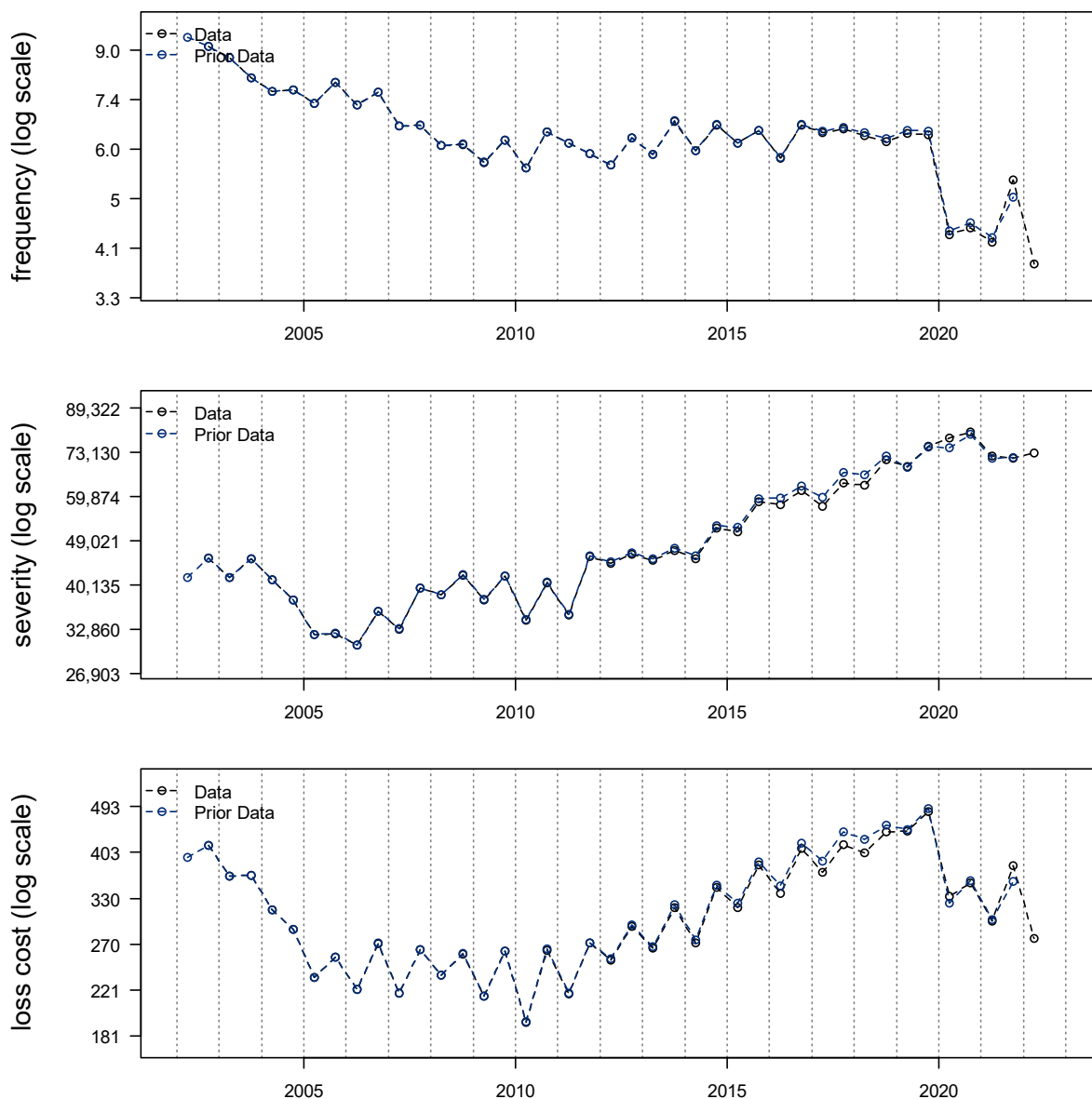
## 6. Selected Loss Trend Rates

### 6.1. Bodily Injury

For the prior review, we selected a past loss cost trend rate of +7.0% and a future loss cost trend rate of +5.0% beginning November 1, 2020.

In Figure 14, we present our estimate of the estimated loss cost (average claim cost per vehicle), average severity (average claim cost per claim), and frequency rate (average claim incidence rate) over the period 2002-2 through 2022-1. We include a comparison to the estimated values used in our prior report and observe the 2016-1 through 2019-1 severity and loss cost estimates have decreased slightly.

**Figure 14: Observed Bodily Injury Loss Cost Experience**



A review of the historical data points (as presented in Figure 14) shows that subject to variability:

- Loss Cost exhibited a relatively flat trend following Bill 53 (effective October 2004), followed by a large positive trend between 2010 and 2017. Since 2017 we observe early signs of flattening and a large decrease during 2020, 2021, and the first half of 2022 coincident with the COVID-19 pandemic.
- Severity has exhibited a generally upward trend since Bill 53 but includes a relatively flat to declining trend from 2009 through the first half of 2011. Severity begins to increase in 2011-2 which turns to a steeper increase beginning in 2014. In 2021 we observe a decrease coincident with the reforms effective November 2020.



As described in our prior reports, the sharp rise in severity in the second half of 2011 and first half of 2012 may, in part, be attributed to the January 2012 Sparrowhawk Decision.<sup>40</sup>

- Frequency exhibited a downward trend through 2010, followed by a slight increased trend between 2010 to 2016. More recently we observe early signs of a flattening pattern since 2016 and a large decrease during 2020, 2021, and the first half of 2022 coincident with the COVID-19 pandemic.

The estimated 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 seasonality parameter, are presented in Appendix C. We begin our review at 2005-1, following the Bill 53 reforms introduced in 2004.

In Figure 15 we present a heatmap of indicated severity trends beginning 2006-1 through 2017-1, ending 2022-1, 2021-2 and 2021-1 with time, seasonality. As discussed in more detail in Section 5.5, the historical data is adjusted by –18% for the November 2020 reform.<sup>41,42</sup>

**Figure 15: Bodily Injury Severity Heatmap (Time and Seasonality)**



<sup>40</sup> In Sparrowhawk V. Zapoltinsky the Court of Queen's Bench of Alberta found the claimant with temporomandibular (TMJ) not to be subject to the MIR cap.

<sup>41</sup> The initial estimate of the impact of the November 2020 reforms is an 18% reduction in claims costs. This estimate will be updated as data under the November 2020 reforms emerges.

<sup>42</sup> We have tested the significance of a scalar parameter coincident with the MIR reform. We observe the severity impact is significant and generally consistent with our *a-priori* assumption. We are unable to measure the impact the reform has had on frequency due to the co-mingled effect of the COVID-19 pandemic.

For bodily injury severity, we observe that:

We observe the models with experience periods beginning 2006-1 to 2014-2 ending 2022-1 have indicated severity trend rates that range from approximately +6.5% to +8.5%, and have high Adjusted R-squared values and significant  $p$ -values for time and seasonality.

The models with experience periods ending 2021-2 and 2021-1 have indicated trend rates that are similar to those ending 2022-1.

In Figure 16 we present a heatmap of indicated frequency trends beginning 2007-1 through 2016-1, ending 2019-2 and 2019-1 with time and seasonality parameters included in the model. We exclude the unusually low 2020, 2021, and 2022-1 observations that are coincident with the COVID-19 pandemic.

**Figure 16: Bodily Injury Frequency Heatmap (Time and Seasonality)**



For bodily injury frequency, we observe that:

- The implied frequency trends from the models beginning 2012-1 to 2014-2 are generally flat and have  $p$ -values for time that are insignificant. The models fit to longer experience periods have  $p$ -values that are significant for time and a small positive trend.
- All models have low to moderate Adjusted R-squared values and, except for the periods starting 2014-1 and subsequent,  $p$ -values that are significant for seasonality.

Therefore, while there is a flat to slightly increasing frequency pattern, these frequency trend rates have relatively weak statistical support.

In the AUTO 7501 Exhibit introduction, GISA describes the following bodily injury claim amount and claim count reporting issues that may be affecting the bodily injury loss development data.

“A large writer has changed its case reserving protocol for Bodily Injury Kind of Loss as of Accident Year 2015-1 and is now reporting lower incurred claim counts and lower incurred claim amounts at earlier age of development. Another large writer has strengthened their reserving practice for Accident Year 2013 and onwards, starting during the second half of calendar year 2015. Users should exercise caution when using this data.”

“An unusual significant increase in claim counts for a major writer was noted for Bodily Injury Kind of Loss for Accident Half-Years 2016-1, 2016-2 and 2017-1 at the 6-month development stage. This has been confirmed as a result of a temporary change in its claims handling, which created significant claims backlog. Users should exercise caution when using this data.

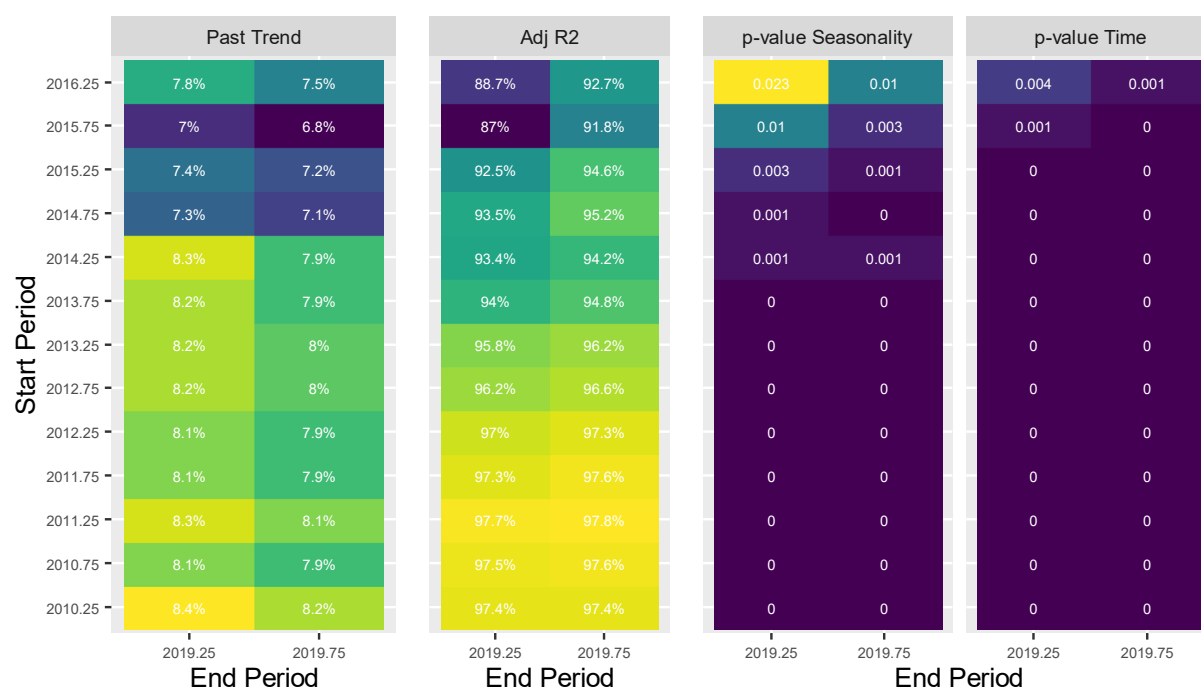
A large writer has confirmed its change in claims handling practice for Bodily Injury claims, which results in larger than historical claims closure across the 2017-1 and later diagonals of the Bodily Injury claim count and amount triangles. Users should exercise caution when using this data.

A large writer has strengthened their case reserving practice for Bodily Injury Kind of Loss as of Accident Year 2017-2, resulting in larger than usual case reserve amounts across the 2017-2 and later diagonals of the Bodily Injury amount triangle. Users should exercise caution when using this data.”

These reporting issues serve to increase the uncertainty associated with our selected ultimate claim amounts and claim counts. Given this uncertainty which impact the estimated frequency and severity trends, as well as the high  $p$ -values for our frequency trend models, we also consider the estimated loss cost trends.

In Figure 17, we present a heatmap of indicated loss cost trends beginning 2010-1 through 2016-1, ending 2019-2 and 2019-1 with time and seasonality parameters included in the model. We exclude the unusually low 2020, 2021, and 2022-1 observations that are coincident with the COVID-19 pandemic.

**Figure 17: Bodily Injury Loss Cost Heatmap (Time and Seasonality)**



For bodily injury loss costs, we observe that:

- The estimated loss cost trends range from approximately +7.0% to 8.5% with high Adjusted R-squared values, and  $p$ -values that are significant for time and seasonality.
- The same estimated loss cost trends ending 2019-1 are slightly higher than those ending 2019-2.

Based on these findings, we select a past loss cost trend rate of +7.0% up to October 31, 2020, the approximate trend rate over the models beginning 2011-2 to 2014-1 and ending 2019-2, the same as our prior selection.

The uncertainties related to ultimate claim amounts - particularly for the more recent accident years - make the selection of the loss trend rate beginning November 1, 2020 more challenging. Specifically, the time span since November 1, 2020 is too limited to separately identify the trend rate, the impact of the pandemic and the impact of Bill 41 simultaneously. We expect Bill 41 will likely increase the number of claimants subject to the cap and therefore temper the loss cost trend beginning November 1, 2020.

For these reasons we recommend a future loss cost trend of +5.0% beginning November 1, 2020; the same as our prior selection.

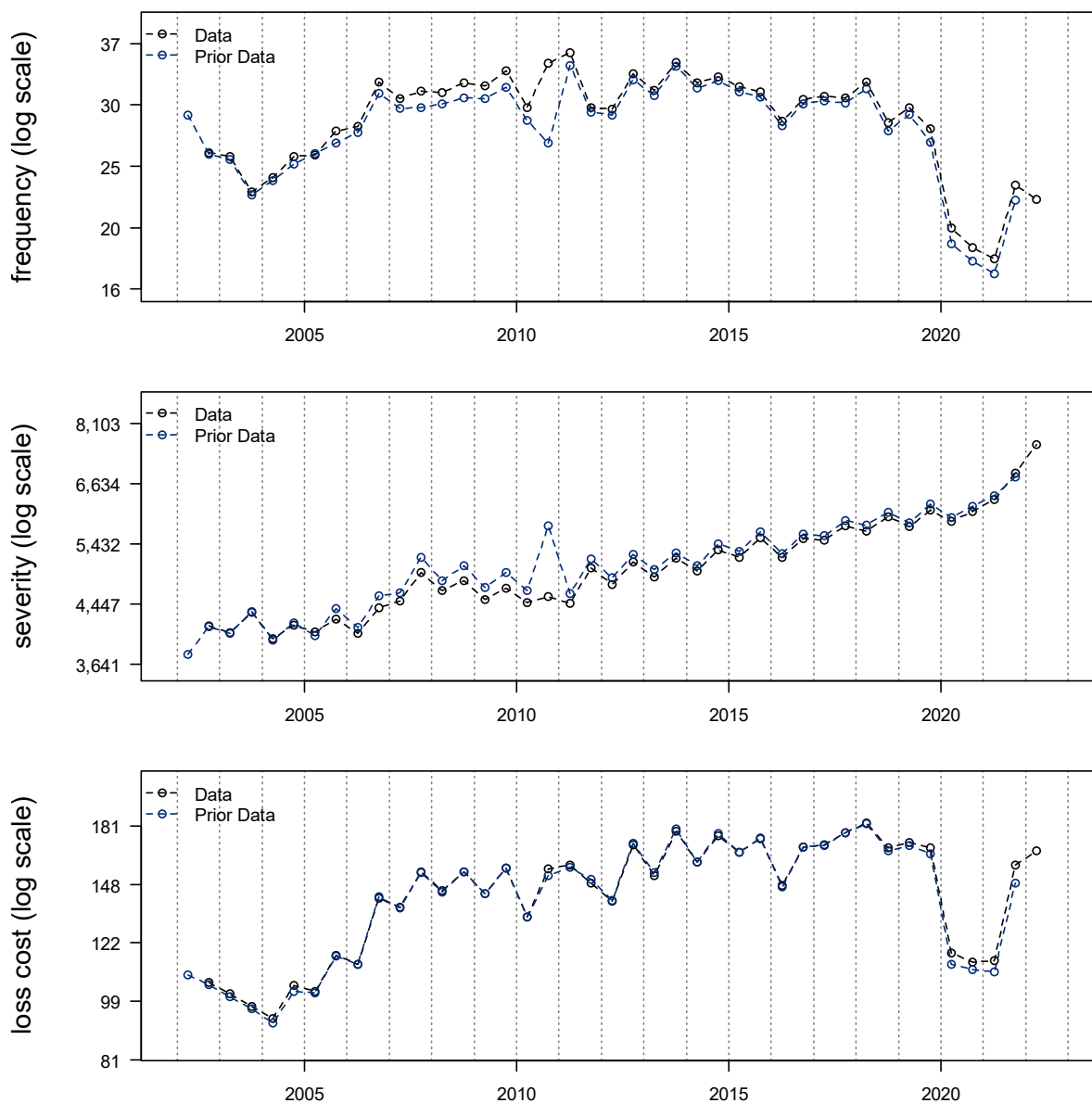
At this time, our selected future loss cost trend is +5.0%. However, given the dynamic nature of the changes in inflation, please refer to Section 5.4 for more details regarding considerations when selecting the future loss cost trend.

## 6.2. Property Damage

For the prior review we selected a past and future loss cost trend rate of +1.5%.

In Figure 18, we present our estimate of the actual loss cost, average severity, and frequency rate over the period 2002-2 through 2022-1. We include a comparison to the estimated values used in our prior report and observe that the frequency and loss cost estimates have increased slightly in the 2020 and 2021 accident semesters. The majority of this change is due to the reporting issue and exclusion of one insurer/group in the prior review, which has subsequently been corrected by GISA and the data included in this review, as discussed in Section 4.2.

**Figure 18: Observed Property Damage Loss Cost Experience**



A review of the historical data points (as presented in Figure 18) shows that subject to variability:

- Loss cost has experienced a modest upward loss cost trend beginning 2007, then changing to a flatter trend beginning 2013 until a large decrease during 2020 and 2021-1 coincident with the COVID-19 pandemic.

- Severity generally exhibited an upward trend over the last twenty years, except for some isolated periods of a flatter or declining pattern. We observe a steeper increase beginning in 2021-2 which is likely related to the high inflationary environment observed during this period.<sup>43</sup>
- Frequency contributed to the rise in the loss cost level over 2003 to 2006, followed by a somewhat volatile but flat pattern, which appears to have turned downward since its peak in 2011. We observe a large decrease during 2020, 2021, and the first half of 2022 coincident with the COVID-19 pandemic. Due to the decline in the collision claim frequency rate in 2022-1, the introduction of DCPD may have resulted in a shift of claims from collision to DCPD.

The estimated 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 seasonality parameter, are presented in Appendix C.

In Figure 19, we present a heatmap of indicated severity trends beginning 2009-2 through 2017-1, ending 2021-2 and 2021-1 with time and seasonality parameters included in the model. As discussed in more detail in Section 5.5, we exclude the 2022-1 observation as it is the sole data point since introducing DCPD.

**Figure 19: Property Damage Severity Heatmap (Time and Seasonality)**



<sup>43</sup> The shifting of claims from collision to DCPD may be influencing the increase in severity between 2021-2 and 2022-1. We are unable to separately identify the portion of this increase attributable to the introduction of DCPD and the unusually high inflationary environment observed during the period.

For property damage severity, we observe that:

- The models ending 2021-2 generally have implied severity trends that fall in the range of +3.0% to +3.5% with high Adjusted R-squared values, and  $p$ -values that are significant for time and, except for the shortest experience periods, seasonality.
- The estimated trends ending 2021-1 are slightly lower than those ending 2021-2.

In Figure 20, we present a heatmap of indicated frequency trends beginning 2008-2 through 2016-1, ending 2019-1 and 2019-2 with only a time parameter included in the model, as seasonality is not significant. We exclude the unusually low 2020, 2021, and 2022-1 observations that are coincident with the COVID-19 pandemic.

**Figure 20: Property Damage Frequency Heatmap (Time)**



For property damage frequency, we observe that:

- The models beginning 2011-1 through 2014-2 ending 2019-2 generally have implied frequency trends that fall in the range of -1.0% to -2.5% with low to moderate Adjusted R-squared values, and  $p$ -values that are significant for time.
- The estimated trends ending 2019-1 are slightly higher than those ending 2019-2.

Given the weak frequency Adjusted R-squared values, we also considered the loss cost trends rates. In Figure 21, we present a heatmap of indicated loss cost trends beginning 2008-2 through 2016-1, ending 2019-1 and 2019-2 with time and seasonality parameters included in the model. We exclude the unusually low 2020, 2021, and 2022-1 observations coincident with the COVID-19 pandemic.

**Figure 21: Property Damage Loss Cost Heatmap (Time and Seasonality)**



For property damage loss costs, we observe that:

- The models beginning 2008-2 through 2011-2 ending 2019-2 generally have implied loss cost trends that cluster around 1.5%, with moderate to low Adjusted R-squared values, and  $p$ -values that are significant for time and, for the longer periods, seasonality.
- The estimated trends ending 2019-1 are slightly higher than those ending 2019-2.

As a result, we select a past loss cost trend rate of +1.5% - the same as our prior selected trend.

Please refer to Section 5.4 for more details regarding considerations when selecting the future loss cost trend.

Effective January 1, 2022, premiums for Third Party Liability are split into three separate coverages: Bodily Injury, Property Damage -Tort and DCPD. Until sufficient separate Property Damage-Tort and DCPD data is available from GISA, the loss cost trend rate that we select for Property Damage is intended to apply to both sub-coverages.

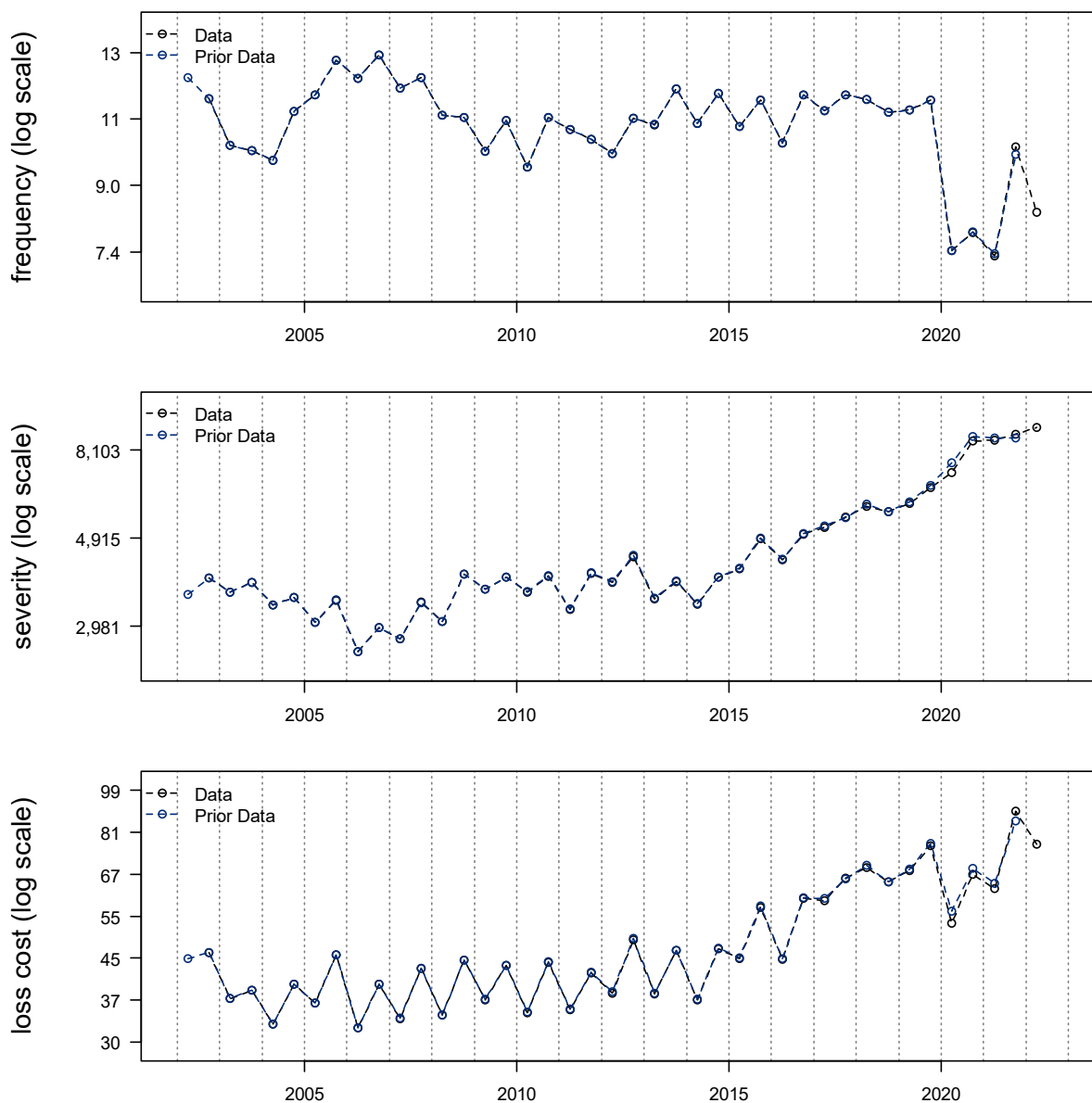
### 6.3. Accident Benefits

For the prior review, we selected a past lost cost trend rate of +1.0% and a future loss cost trend rate of +12.0% beginning January 1, 2015. We note most rate applications will consider data more recent than 2015 in the experience period to which the trend rates apply.

In Figure 22, we present our estimate of the actual loss cost, average severity, and frequency rate over the period 2002-2 through 2022-1. We include a comparison to the estimated values used in our prior report and observe our estimates have not changed significantly.



**Figure 22: Observed Accident Benefits Loss Cost Experience**



A review of the historical data points (as presented in Figure 22) shows that subject to variability:

- Loss cost experienced a small positive trend since 2003, changing to a steeper increase beginning in 2015. We observe a significant decrease during 2020 and 2021-1 coincident with the COVID-19 pandemic.
- Severity increased with the reforms in April 2007, followed by a flat pattern between 2008-2 and 2015-1, which changed to a steeper increasing pattern since 2015.<sup>44</sup> The large rise in 2020-2 is

<sup>44</sup> We note bodily injury severity also exhibited a steeper increasing pattern beginning 2015.

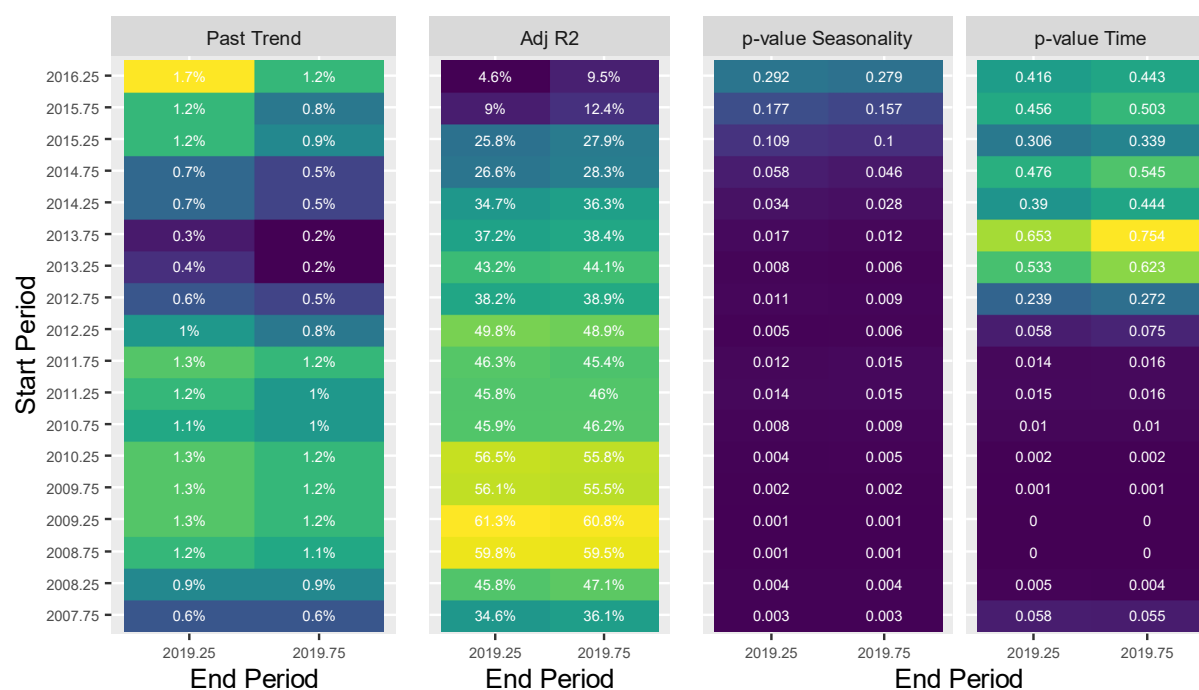
coincident with the reform changes effective November 2020. There are early signs of flattening in the trend pattern following the reform implementation.

Frequency has changing patterns, but generally exhibiting a flat pattern since 2012. We observe a large decrease during 2020, 2021, and the first half of 2022 coincident with the COVID-19 pandemic.

The estimated 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 seasonality parameter, and with and without a change in level and/or a change in trend rate during 2015, are presented in Appendix C. We begin our review at 2007-2, following the 2007 accident benefit reforms.

In Figure 23, we present a heatmap of indicated frequency trends beginning 2007-2 through 2016-1, ending 2019-2 and 2019-1 with time and seasonality parameters included in the model. We exclude the unusually low 2020, 2021, and 2022-1 observations that are coincident with COVID-19 pandemic.

**Figure 23: Accident Benefits Frequency Heatmap (Time and Seasonality)**



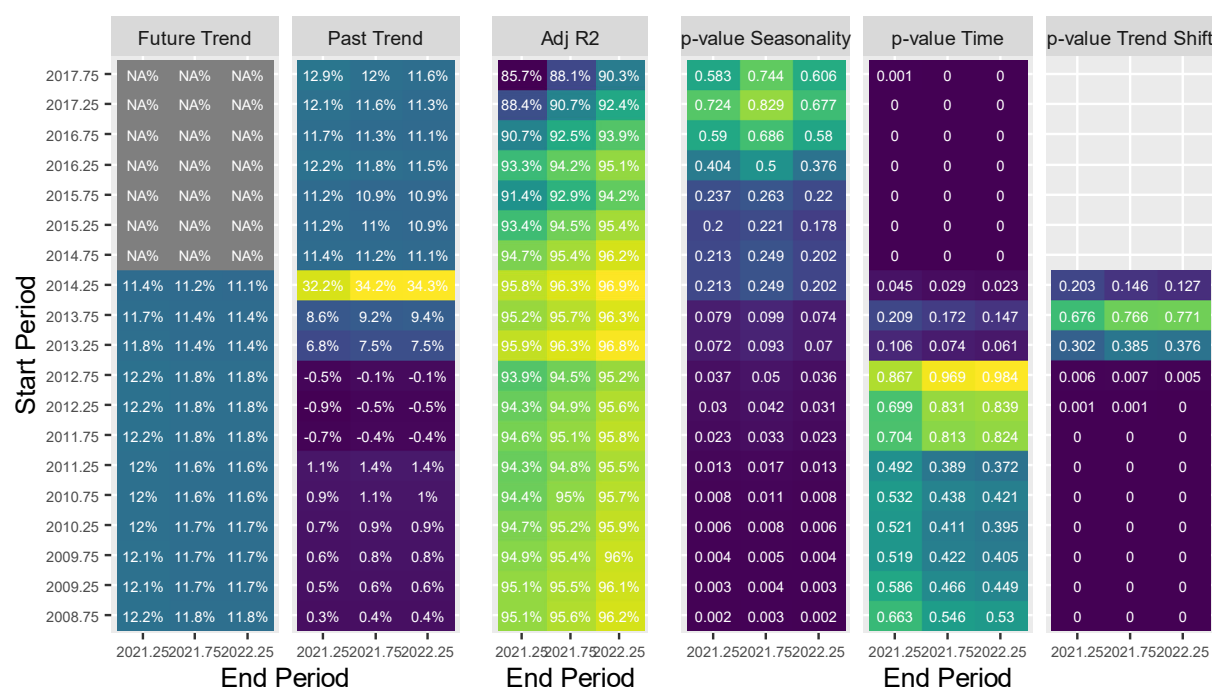
We observe the following for accident benefits frequency:

- The models beginning 2007-2 through 2011-2 ending 2019-2 generally have implied frequency trends that cluster around 1.0%, with moderate Adjusted R-squared values, and  $p$ -values that are significant for time and seasonality.
- The time parameter is generally insignificant for models with shorter experience periods, and the Adjusted R-squared values are lower.
- The estimated trends ending 2019-1 are slightly higher than those ending 2019-2.

We select a past frequency trend rate of +1.0% based on the models with longer experience periods and higher (but still moderate) Adjusted R-squared values.

In Figure 24, we present a heatmap of indicated severity trends beginning 2008-2 through 2017-2, ending 2022-1, 2021-2 and 2021-1 with time, seasonality, and a 2015-1 change in trend parameter included in the model. As discussed in more detail in Section 5.5, the historical data is adjusted by +8% for the November 2020 reforms.<sup>45 46</sup>

**Figure 24: Accident Benefits Severity Heatmap (Time, Seasonality, 2015-1 Change in Trend)**



We observe the following for accident benefits severity:

- The models with experience periods beginning 2008-2 through 2012-2 and ending 2022-1 have implied trend rates that range from -0.5% to +1.5% prior to January 1, 2015 and +11.5% to +12.0% beginning thereafter. These models have high Adjusted R-squared values, and *p*-values that are significant for a change in trend rate beginning January 2015 and generally for seasonality, but not for time. We therefore find there is no discernable trend (i.e., +0.0%) for time periods prior to January 1, 2015.
- The models with experience periods beginning 2014-2 and subsequent and ending 2022-1 have implied trend rates ranging from +11.0% to +11.5%.<sup>47</sup> These models have high Adjusted R-squared

<sup>45</sup> The initial estimate of the impact of the November 2020 reforms is a +8% increase in claims costs. This estimate will be updated as data under the November 2020 reforms emerges.

<sup>46</sup> We have tested the significance of a scalar parameter coincident with the reform. We observe the severity impact is not significant, although generally consistent with our *a priori* assumption. We are unable to measure the impact the reform has had on frequency due to the co-mingled effect of the COVID-19 pandemic.

<sup>47</sup> See Appendix C for additional details.

values and  $p$ -values that are significant for time (during the period of higher trend), but not seasonality (also during the period of higher trend).

- The estimated trends ending 2021-1 are slightly higher than those ending 2021-2 and 2022-1.

Giving greater weight to the models ending 2020-1, we select a severity trend rate for periods prior to January 1, 2015 of +0.0%, and a severity trend rate for periods after January 1, 2015 of +11.0%.<sup>48</sup>

As a result, we select a past loss cost trend based on our selected frequency and severity trends. We select a loss cost trend of +1.0% up to January 1, 2015 and +12.0% thereafter.

Please refer to Section 5.4 for more details regarding considerations when selecting the future loss cost trend.

## 6.4. Collision

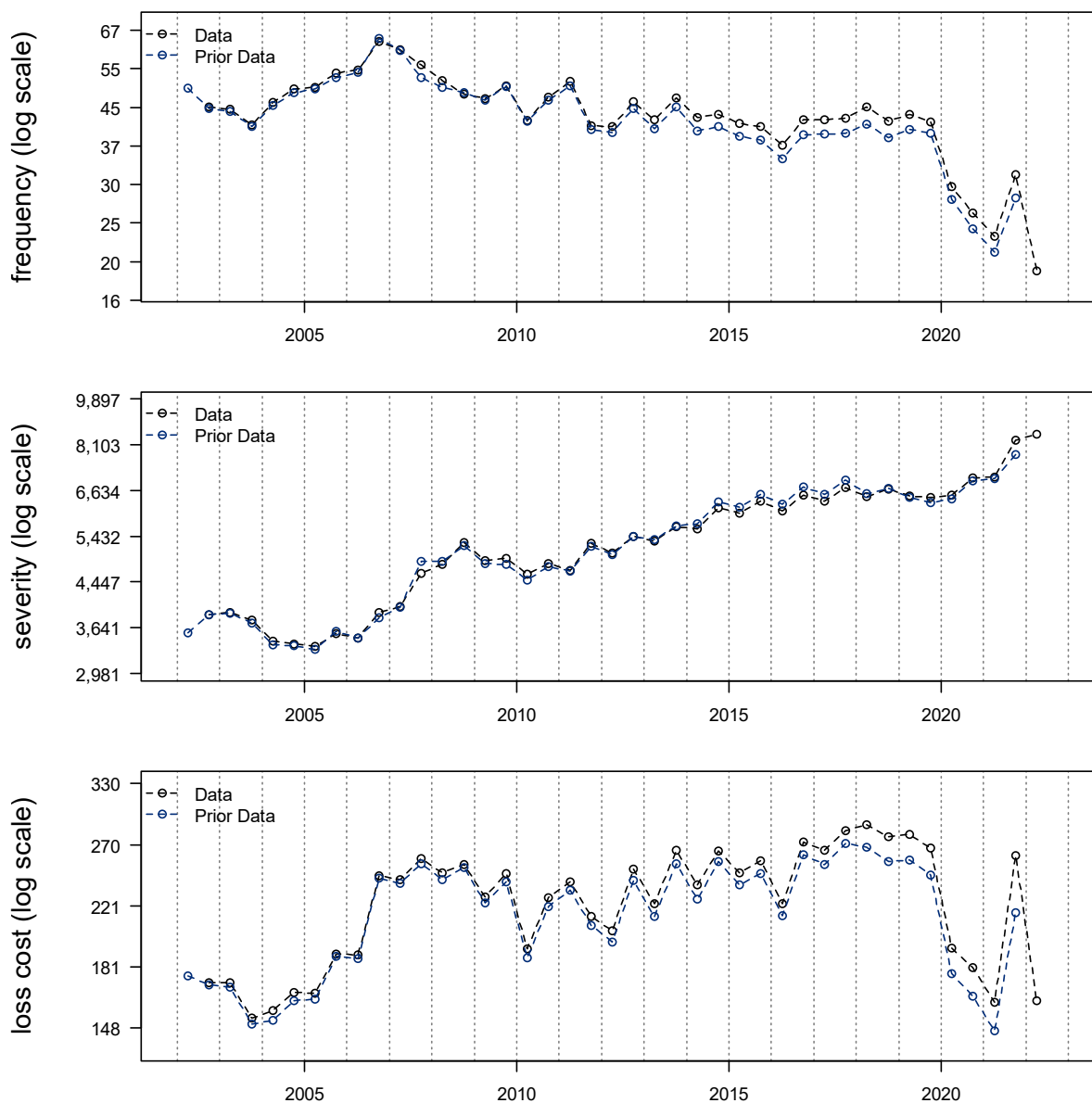
For the prior review, we selected a past and future loss cost trend rate of +2.5%.

In Figure 25, we present our estimate of the actual loss cost, average severity, and frequency rate over the period 2002-2 through 2022-1. We include a comparison to the estimated values used in our prior report and observe our frequency and loss cost estimates increased slightly. The majority of this change is due to the data issue and exclusion of one insurer/group in the prior review, which has subsequently been corrected by GISA and the data included in this review, as discussed in Section 4.2.

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<sup>48</sup> We give greater weight to the models ending 2020-1, presented in Appendix C, as these models would have limited impact from the reforms effective November 2020, and insurers would separately adjust the historical loss experience in their rate application to a cost level reflective of the new reforms.

**Figure 25: Observed Collision Loss Cost Experience**



A review of the historical data points (as presented in Figure 25) shows that subject to variability:

- Loss costs has experienced a small positive trend since 2010, which appeared to be flattening out (and possibly declining) over 2018 and 2019, then large decreases during 2020, 2021, and the first half of 2022 coincident with the COVID-19 pandemic.

- Severity has exhibited an upward trend that is fairly consistent from 2010 to 2016 which then levelled out during 2017 to 2019, followed by a continued upward trend. We observe a steeper increase beginning in 2021.<sup>49</sup>
- Frequency has been relatively flat since 2010. We observe large decreases during 2020, 2021, and the first half of 2022 coincident with the COVID-19 pandemic. The decrease in 2022-1 may, in part, be associated with the introduction of DCPD.

The estimated 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 seasonality parameter, are presented in Appendix C.

In Figure 26, we present a heatmap of indicated severity trends beginning 2010-1 through 2018-1, ending 2021-2 and 2021-1 with a time parameter included in the model. As discussed in more detail in Section 5.5, we exclude the 2022-1 observation as that represents a single data point since the introduction of DCPD and the possibility that collision has been affected by the introduction of DCPD.

**Figure 26: Collision Severity Heatmap (Time)**



For collision severity, we observe that:

- The models with experience periods ending 2021-2 generally have implied severity trend rates that range from approximately +3.0% to +5.5%.

<sup>49</sup> The shifting of claims from collision to DCPD may be influencing the increase in severity between 2021-2 and 2022-1. We are unable to separately identify the portion of this increase attributable to the introduction of DCPD and the unusually high inflationary environment observed during the period.

- The longer trend periods (beginning 2010-1 through 2012-1) range from about +3.5% to +4.0%, have high Adjusted R-squared values and significant  $p$ -values for time.

In Figure 27, we present a heatmap of indicated frequency trends beginning 2009-1 through 2014-2, ending 2019-2 and 2019-1 with only a time parameter included in the model. We exclude the unusually low 2020, 2021, and 2022-1 observations that are coincident with the COVID-19 pandemic.

**Figure 27: Collision Frequency Heatmap (Time)**



The estimated frequency trends generally range from approximately -1.0% to +1.0%, with very low to moderate Adjusted R-squared values and  $p$ -values (for time) that are only significant for longer periods.

Given the weak frequency Adjusted R-squared values, we also considered the loss cost trends rates. In Figure 28, we present a heatmap of indicated loss cost trends beginning 2009-1 through 2014-2, ending 2019-2 and 2019-1 with time and seasonality parameters included in the model. We exclude the unusually low 2020, 2021, and 2022-1 observations that are coincident with the COVID-19 pandemic.

**Figure 28: Collision Loss Cost Heatmap (Time and Seasonality)**



We observe the following for collision loss costs:

The models with experience periods ending 2019-2, have indicated loss cost trend rates that range from approximately +2.0% to +3.0%, low to moderate Adjusted R-squared values and, except for the shortest trend period, significant  $p$ -values for time.

- The estimated trends ending 2019-1 have indicated trend rates that are generally one-half to one percentage point higher than those ending 2019-2 as a result of the observed flattening in recent years.
- We note seasonality is generally significant for models ending 2019-1, however insignificant for many models ending 2019-2.

Given the higher Adjusted R-squared values of our direct loss cost models, we select a past loss cost trend rate of +3.0%, one-half percentage point higher than our prior selection.

Please refer to Section 5.4 for more details regarding considerations when selecting the future loss cost trend.

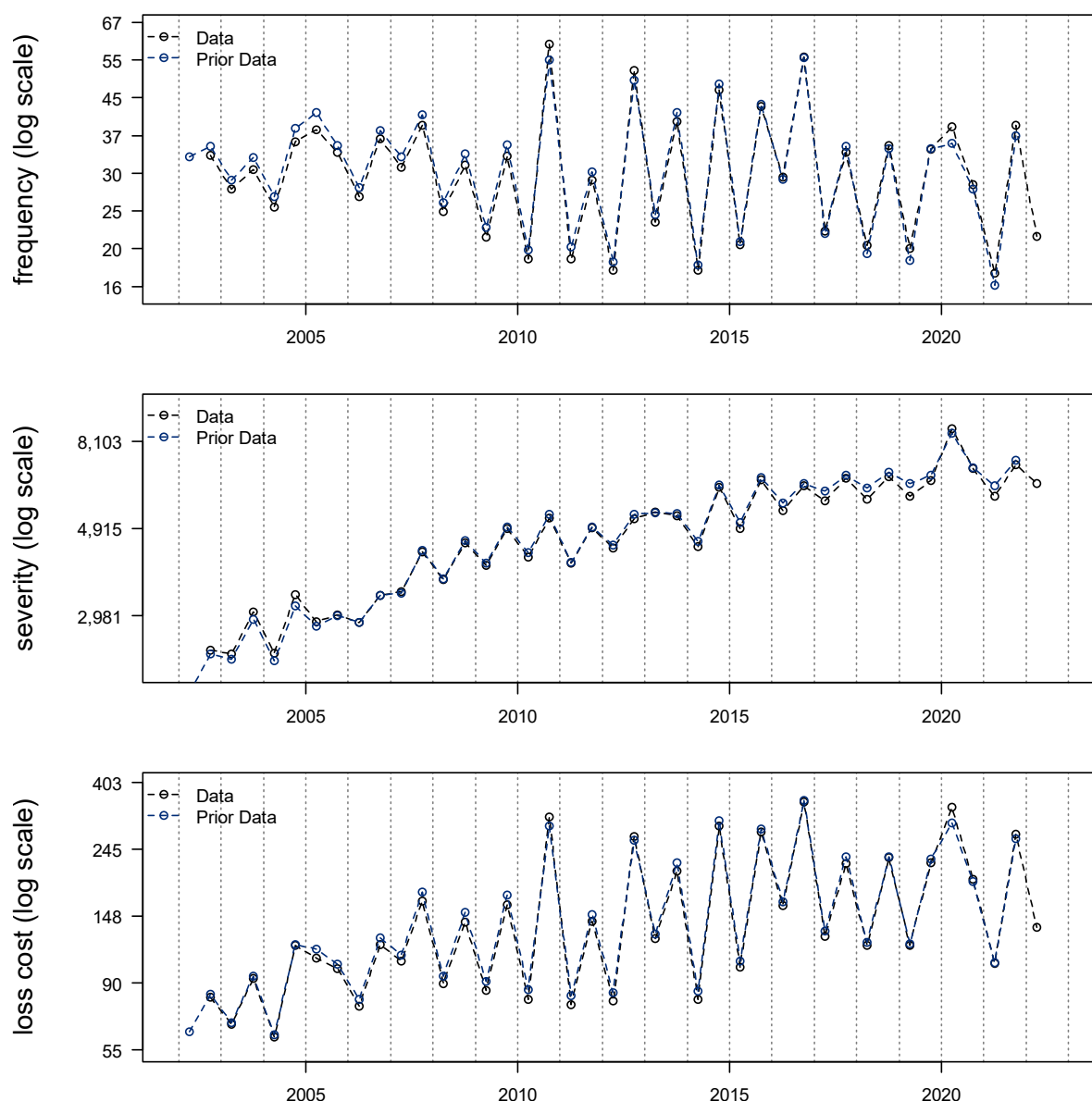
## 6.5. Comprehensive

For the prior review we selected a past and future loss cost trend rate of +4.0%, respectively.

In Figure 29, we present our estimate of the actual loss cost, average severity, and frequency rate over the period 2002-2 through 2022-1. We include a comparison to the estimated values used in our prior report and observe our estimates have not changed significantly.



**Figure 29: Observed Comprehensive Loss Cost Experience**



As observed from the charts, the comprehensive coverage claim experience has been quite volatile (particularly for frequency and, therefore, loss cost). This is largely due to the exposure to catastrophes, and other significant events such as the wildfires in Slave Lake (May 2011) and Fort McMurray (May 2016) which are not considered catastrophes by GISA.

We assume the June 2020 hailstorm in southern Alberta contributes to the unusual rise in frequency and loss cost in 2020-1.

As GISA's 2022 Catastrophe Report was not available at the time of this review, we present the same Excluding Catastrophe charts and discussion that we had presented in our 2022 annual report based on

the GISA Catastrophe data through December 2021 and make no change to our prior selected trend rate.

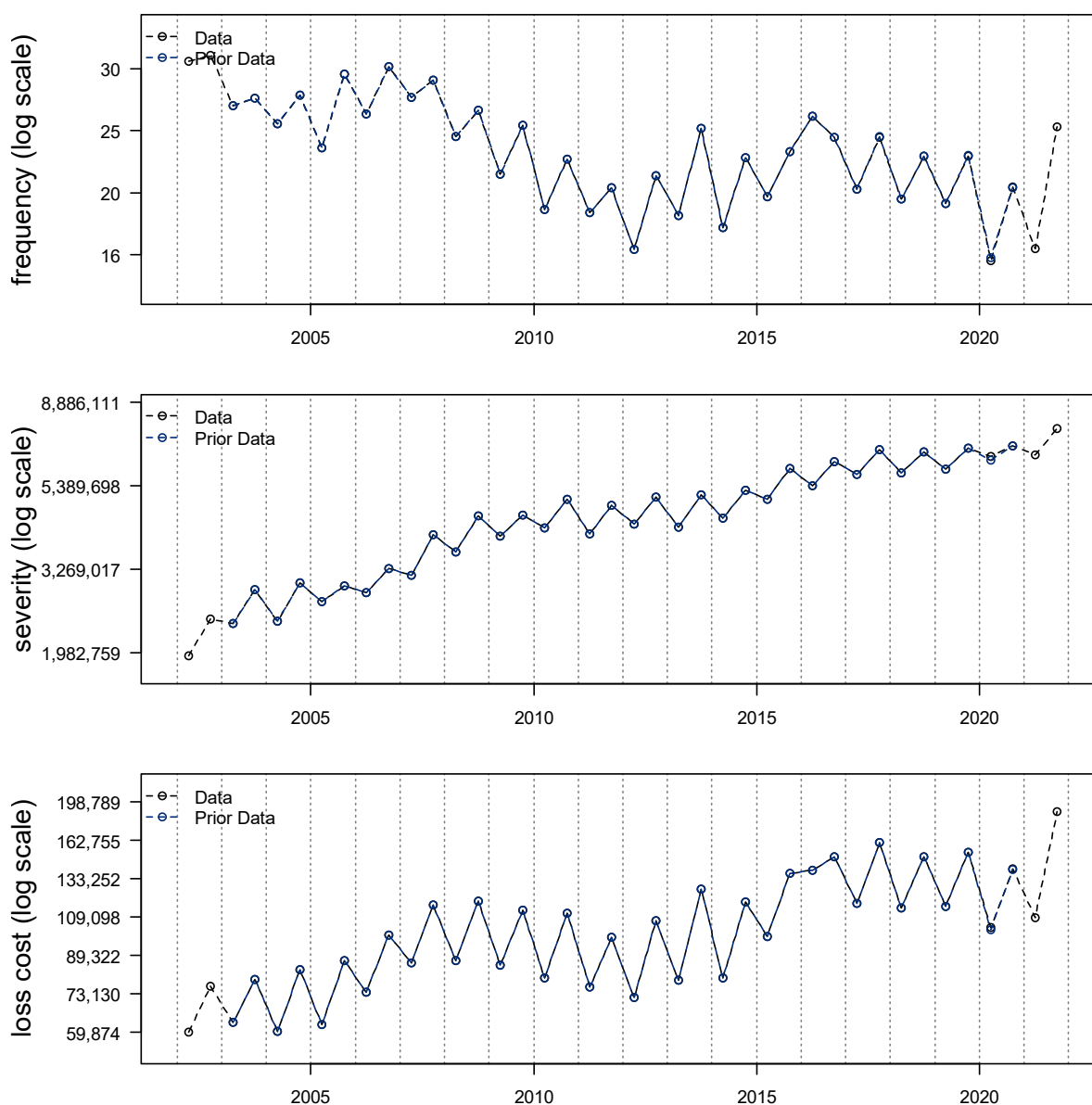
Three sets of graphs are presented:

Total Comprehensive Excluding Catastrophes,

Comprehensive Excluding both Catastrophes and Theft Claims, and

Theft-only claims. (Updated with June 30, 2022 data)

**Figure 30: Comprehensive – Total Excluding Catastrophes – As of December 31, 2021**

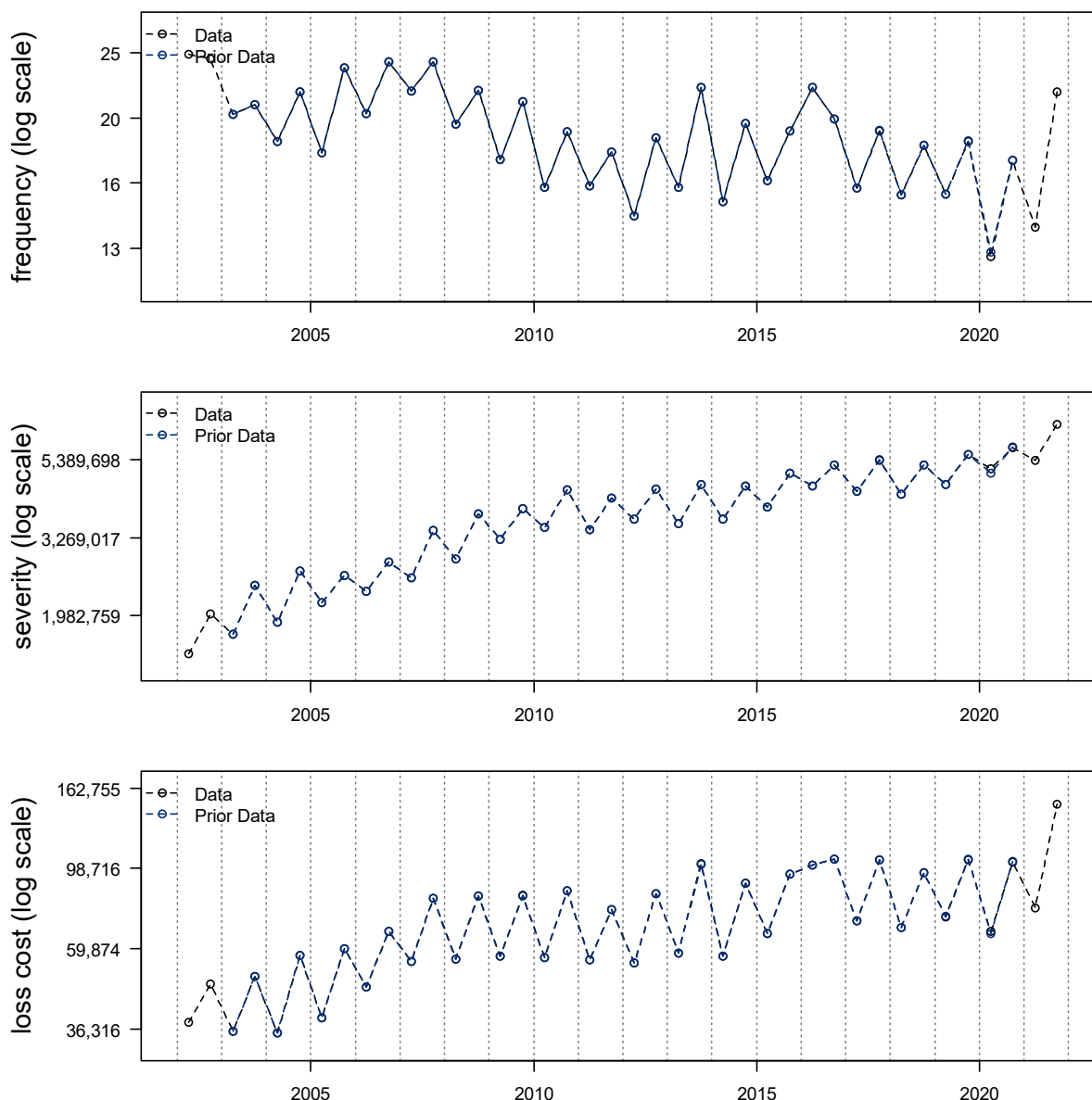


*With the removal of catastrophe-related claims the comprehensive coverage claim experience is significantly less variable. Subject to this removal, the historical data points show:*

Severity has consistently trended upward during the experience period.

- *Frequency declined through 2012, followed by an increasing trend through 2016 and a decline since. We observe a modest decrease at 2020-1 and 2021-1 which may be attributable, in part, to the impact of the COVID-19 pandemic on frequency; however, we do not observe a decrease at 2020-2 or 2021-2.*
- *Loss cost has exhibited an upward trend, including a period of increasing loss cost through 2008, a decline in loss cost from 2008 through 2011, a sharper increase since 2014, and a small decline since 2016. We observe large increase at 2021-2.*

**Figure 31: Comprehensive – Excluding Theft & Excluding Catastrophes – As of December 31, 2021**



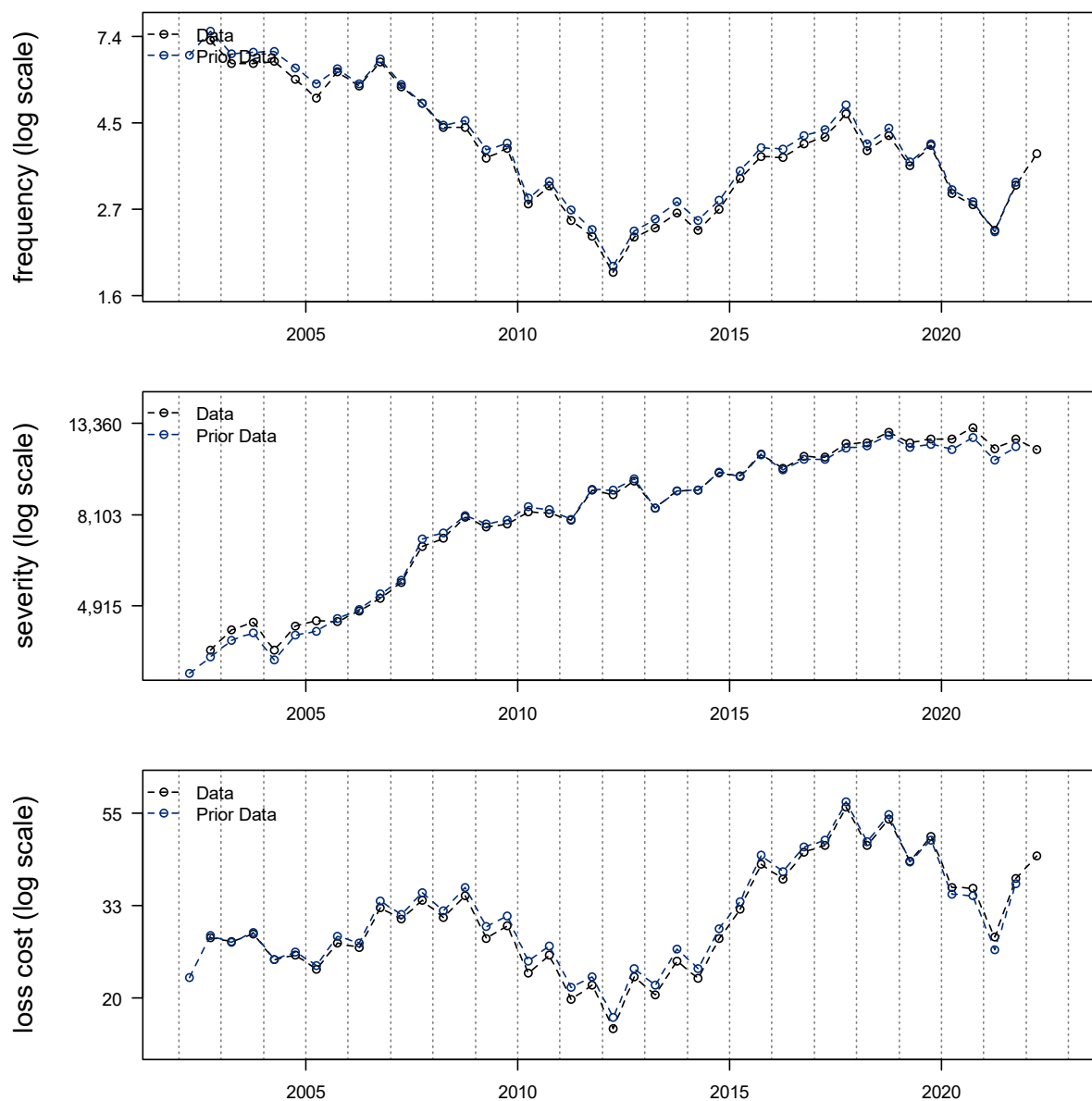
*With the removal of both catastrophe and theft related claims the comprehensive coverage claim experience is significantly less variable. Subject to this removal, the historical data points show:*

Severity has consistently trended upward during the experience period.

- *Frequency has exhibited a relatively flat pattern since 2011, excluding a spike in 2016-1 that is likely due to the Fort McMurray event (which is not considered a catastrophe by GISA). We observe a decrease at 2020-1 and 2021-1 which may be attributable, in part, to the impact of the COVID-19 pandemic on frequency; however, we do not observe a decrease for 2020-2 or 2021-2.*

- Loss cost has exhibited an upward trend, including a sharp increase in 2016, followed by a relatively flat trend. We observe a small decrease at 2020-1 coincident to the COVID-19 pandemic as well as a spike at 2021-2.<sup>50</sup>

**Figure 32: Comprehensive – Theft Only – As of June 30, 2022 (Updated)**



Subject to variability, the historical data points show:

- Severity has been generally increasing but may be flattening more recently.

<sup>50</sup> Since we are unable to exclude the data of the one insurer with the material reporting error, the spike is 2021-2 may, in part, be due to this problematic data.

- Frequency was increasing rapidly between 2012-2018 followed by a decreasing trend. We observe lower levels during the pandemic, but with a rise in the recent 2021-2 and 2022-1 observation.
- Loss cost increased rapidly beginning in 2014, however has begun to decrease since 2018.

*The measured severity, frequency, and loss cost trend, associated Adjusted R-square values, p-values, and confidence intervals over various trend measurement periods, with and without theft and catastrophe claims and for theft only are presented in Appendix C.*

*Given the variability in the data points and the relative flatness of frequency (except for theft), we base our selected trends on the loss cost experience directly.*

*Based on similar reviews conducted in other provinces, we find the impact of COVID-19 on comprehensive loss cost to be less severe than other coverages and is generally concentrated in the first half of 2020, while the second half is less affected, if at all. Alberta's comprehensive loss cost experience also appears to follow this pattern. Therefore, we consider models ending 2020-2, 2021-1, and 2021-2.*

*In Figure 33, we present a heatmap of indicated loss cost trends beginning 2003-2 through 2016-1, ending 2021-2, 2021-1, and 2020-2, including both theft and catastrophe claims, with time and seasonality parameters included in the model.*

**Figure 33: Comprehensive Including Theft and CATs: Loss Cost Heatmap (Time, Seasonality) – As of December 31, 2021**

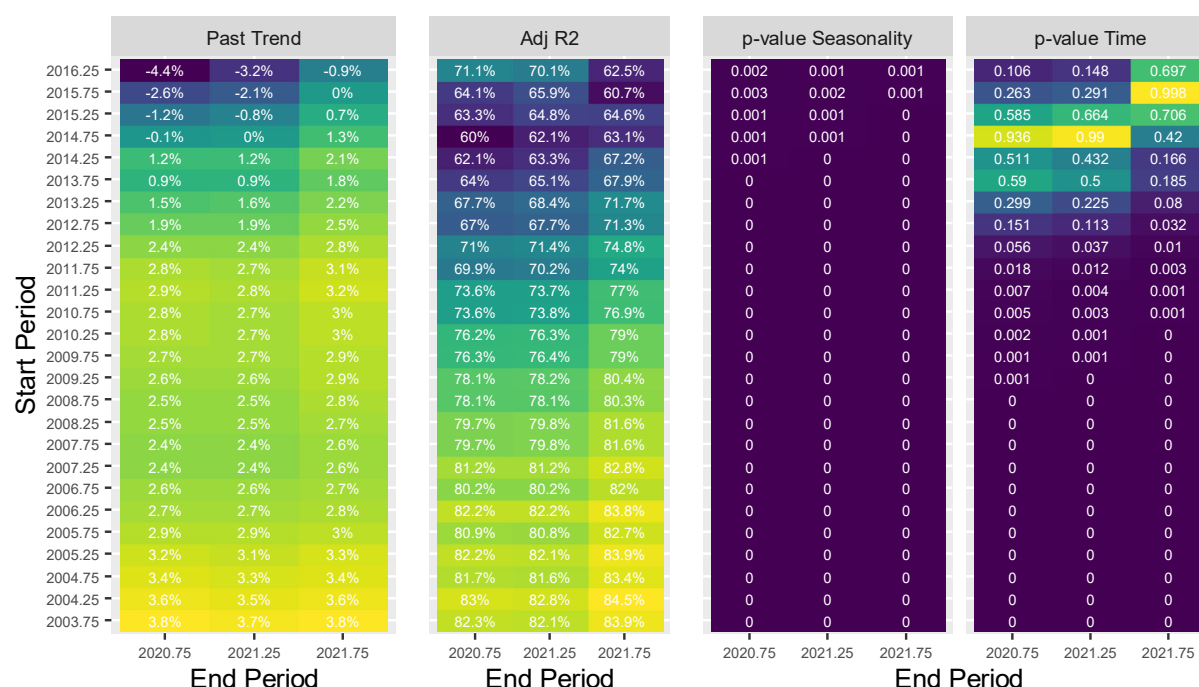


- The models beginning 2003-2 through 2009-2 ending 2021-2 generally have implied loss cost trend rates ranging from approximately +3.5% to +4.5%, with moderate Adjusted R-squared values, and p-values that are significant for time and seasonality.

- The estimated trends ending 2020-2 are generally larger than those ending 2021-1 and 2021-2 due to the spike in loss costs coincident with the June 2020 hailstorm in southern Alberta.
- The indicated trend rates are lower and time parameter is insignificant for shorter experience periods due the recent flattening observable in the data.

To consider the underlying comprehensive trend without the impact of catastrophes and theft claims, in Figure 34, we present a heatmap of indicated annual loss cost trends beginning 2003-2 through 2016-1, ending 2020-2, 2021-1, and 2021-2, excluding both theft and catastrophe claims, with time and seasonality parameters included in the model.

**Figure 34: Comprehensive Excluding Theft and CATs: Loss Cost Heatmap (Time, Seasonality) – As of December 31, 2021**

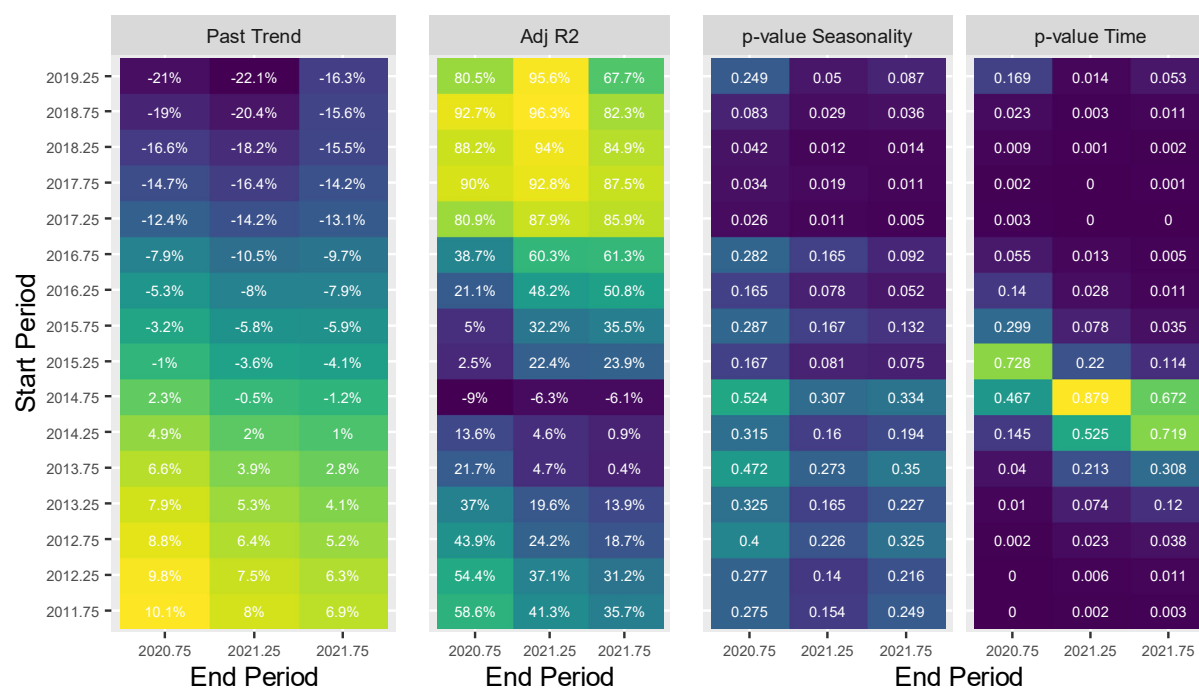


- The models beginning 2003-2 through 2012-2 ending 2021-2 generally have implied loss cost trend rates ranging from approximately +2.5% to +4.0%, with moderate-high Adjusted R-squared values, and p-values that are significant for time and seasonality.
- The models with longer experience periods have higher Adjusted R-squared values, and trend rates that are on the higher end of the observed range. The Fort McMurray event in 2016-1 has a proportionally greater impact on the shorter periods resulting in lower Adjusted R-squared and higher p-values.
- The estimated trends ending 2020-2 and 2021-1 which excludes the spike at 2021-2 are modestly lower those ending 2021-2, due to the unusually high 2021-2 observation.

A key driver of the higher trend rates presented in Figure 29 (including catastrophe and theft claims) relative to Figure 31 (excluding catastrophe and theft claims) is the inclusion of theft claims. We note

*theft claims began to increase significantly beginning in 2011. In Figure 35, we present a heatmap of indicated loss cost trends beginning 2011-2 through 2019-1, ending 2021-2, 2021-1 and 2020-2, for comprehensive theft claims, with a time and seasonality parameter included in the model.*

**Figure 35: Comprehensive Theft: Loss Cost Heatmap (Time, Seasonality) – As of December 31, 2021**



- The models beginning 2011-2 through 2013-2 ending 2021-2 generally have implied loss cost trend rates ranging from +3.0% to +7.0%<sup>51</sup>, with low Adjusted R-squared values, and p-values that are significant for time for the longer experience periods.
- Due to the recent change in trend pattern of the observed theft claims over the most recent four years, the models with shorter experience periods have significant negative implied trend rates with high Adjusted R-squared values and p-values that are significant for time and seasonality.
- The estimated trend rates ending 2020-2 and 2021-1 are generally two to four percentage-point higher than those ending 2021-2. This is a result of the high 2021-2 observation.

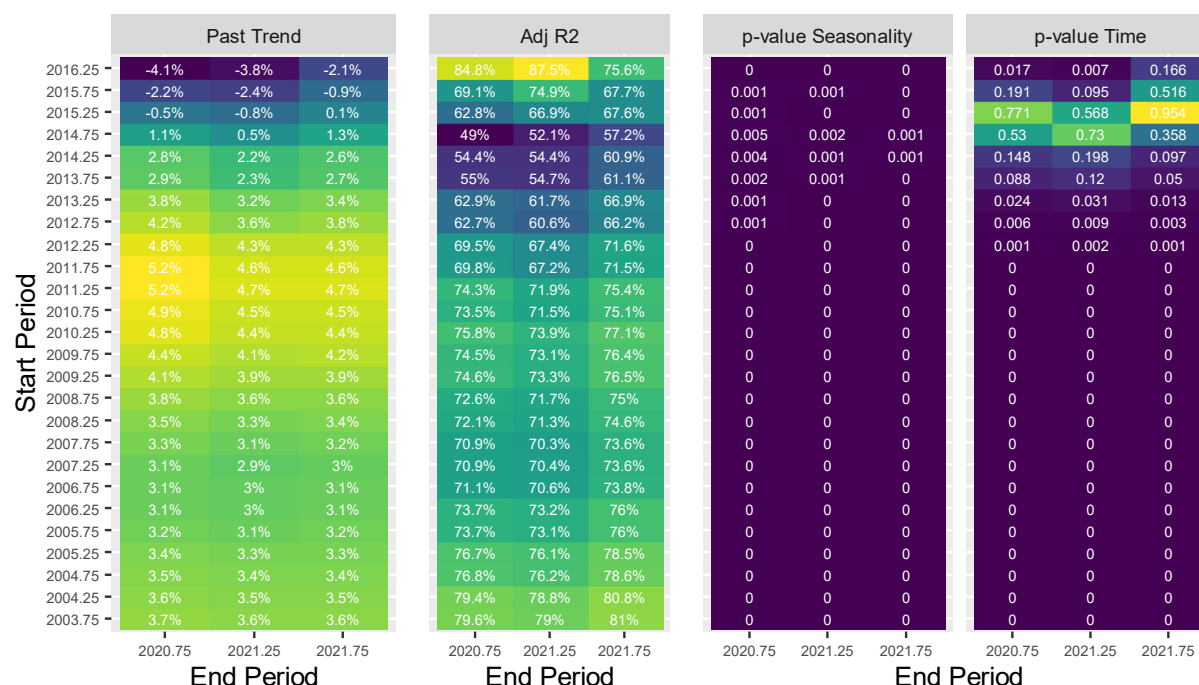
The large increase in the number of theft claims since 2011 contributes to the higher comprehensive loss costs. We select our loss cost trend rate based on the total comprehensive experience, excluding catastrophes, but including theft claims. This approach implicitly includes the effect of the sharp increase to theft claims, however, excludes the additional variability caused by the catastrophe experience.

<sup>51</sup> The estimated trend rates ending 2021-2 and 2021-1 are lower than those ending 2020-2, due to the continued decline observed with the 2021-2 and 2021-1 observations.



In Figure 36, we present a heatmap of indicated loss cost trends beginning 2003-2 through 2016-1, ending 2021-2, 2021-1 and 2020-2, for comprehensive excluding catastrophe claims, with time and seasonality parameters included in the model.

**Figure 36: Comprehensive Excluding CATs: Loss Cost Heatmap (Time, Seasonality) – As of December 31, 2021**



- The models beginning 2003-2 through 2014-1 ending 2021-2 generally have implied loss cost trend rates ranging from approximately +3.0% to +5.0%, with moderate-high Adjusted R-squared values, and p-values that are significant for time and seasonality.
- The peak is for the models beginning 2010-1 through 2012-1 (when thefts began to increase) and ending 2021-2 that generally have implied loss cost trend rates clustering around +4.5% and have moderate Adjusted R-squared values.
- Due to the flattening of the observations over the most recent three years, the models with shorter experience periods have lower implied trend rates slightly Adjusted R-squared values and p-values that are generally not significant for time.
- The estimated trends ending 2020-2 and 2021-1 which excludes the spike at 2021-2, are modestly lower than those ending 2021-2.

Considering results since 2011, as well as the more recent flattening, with some consideration to the variability in the claim experience, we select a past loss cost trend of +4.0%.

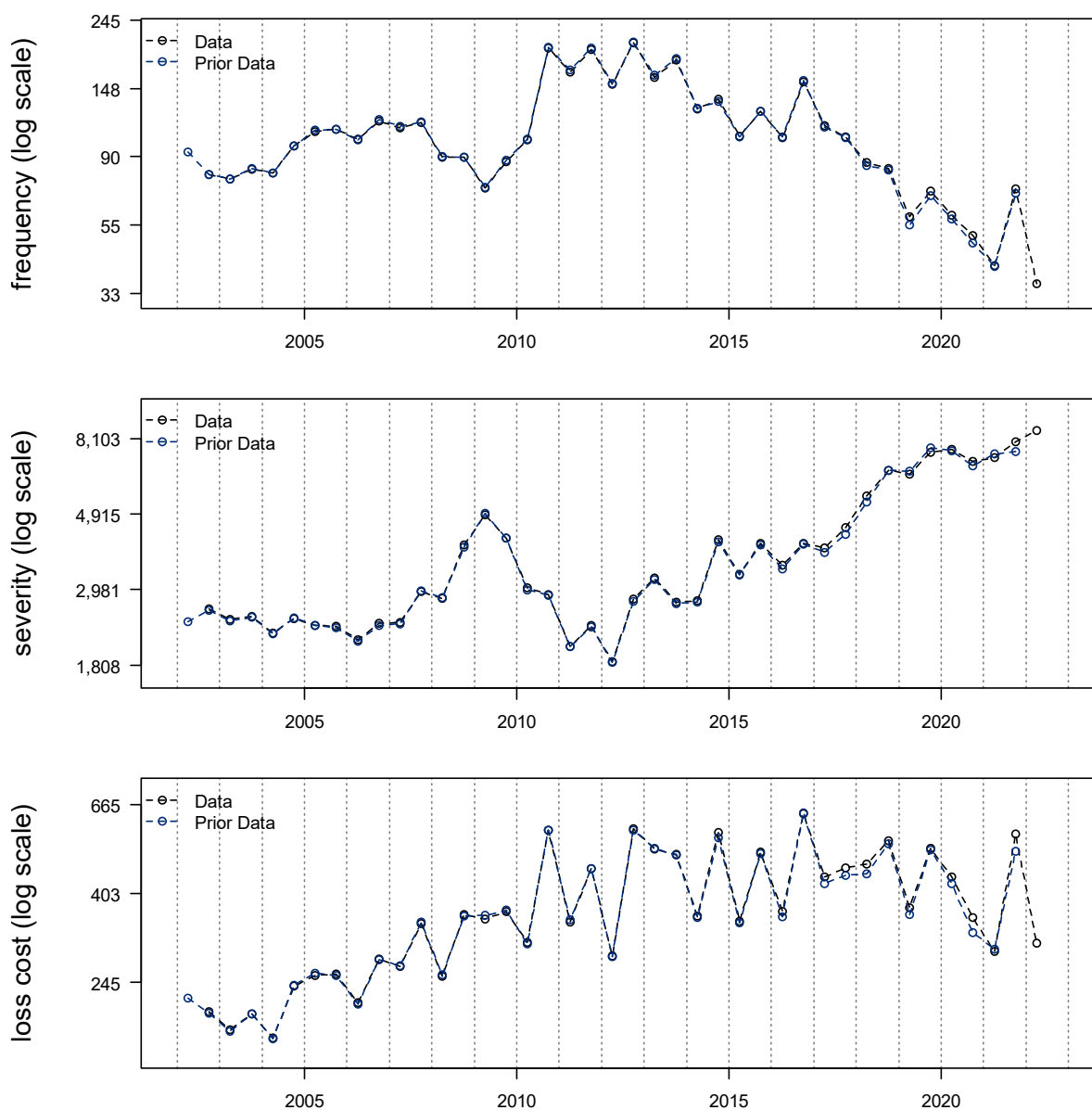
Please refer to Section 5.4 for more details regarding considerations when selecting the future loss cost trend.

## 6.6. All Perils

For the prior review we selected a past and future loss cost trend rate of +2.5%.

In Figure 37, we present our estimate of the actual loss cost, average severity, and frequency rate over the period 2002-2 through 2022-1. We include a comparison to the estimated values used in our prior report and observe our estimates have not changed significantly.

**Figure 37: Observed All Perils Loss Cost Experience**



A review of the historical data points (as presented in Figure 37) shows that subject to variability:

- Loss cost exhibited a long-term upward trend since 2004, then more volatility since 2010 where the trend turns somewhat flat. We observe a decrease at 2020-2, 2021-1, and 2022-1 that may or may not, in part, be attributed to the COVID-19 pandemic.
- Severity generally exhibited an upward trend since 2006 with an upward spike in 2008/2009 that dropped off sharply with a consistent upward trend following the drop.
- Frequency exhibited a somewhat flat trend before spiking upward starting in 2009 (coincident with the drop on severity in that same period), but a declining trend in recent years with the exception of a spike in 2016-2. We observe a large decrease at 2020-2, 2021-1, and 2022-1 that may or may not, in part, be attributed to the COVID-19 pandemic.

The estimated 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 seasonality parameter, are presented in Appendix C. We observe the following about these measured trends.

An apparent shift towards higher deductibles in the recent past may be contributing to the decline in frequency and rise in severity. Given the data variability, we base our selected loss cost trend on the loss cost experience directly.

In Figure 38, we present a heatmap of indicated loss cost trends beginning 2002-2 through 2012-1, ending 2019-2 and 2019-1 with time and seasonality parameters included in the model. Although it is unclear if the low 2020, 2021, and 2022-1 observations are (in part) due to the COVID-19 pandemic, we chose to exclude these low observations so as to not understate the trend rate.

**Figure 38: All Perils Loss Cost Heatmap (Time and Seasonality)**



For all peril loss cost, we observe the following:

- Only the (longer term) loss cost trends beginning 2002-2 through 2008-2, ending 2019-2 have significant  $p$ -values for time *and* seasonality.
- The trend rates, all with moderate to high Adjusted R-squared values, range from approximately +1.0% to +6.0%, with the lower trend rates for the more recent (shorter) time frames.
- The trends ending 2019-1 are modestly higher than those ending 2019-2.

In Figure 39, we present the same models as above, however excluding the 2010-2, 2012-2 and 2016-2 “spike” points that are likely associated with catastrophes (as per GISA’s AUTO 6001 Exhibit).

**Figure 39: All Perils Loss Cost Heatmap (Time and Seasonality, Excluding 2010-2, 2012-2, 2016-2)**



We observe the estimated trend rates excluding these three data points are slightly higher than those including the data points.

Considering the declining trend rate pattern, we select a past loss cost trend of +2.5%, the same as our prior review selection.

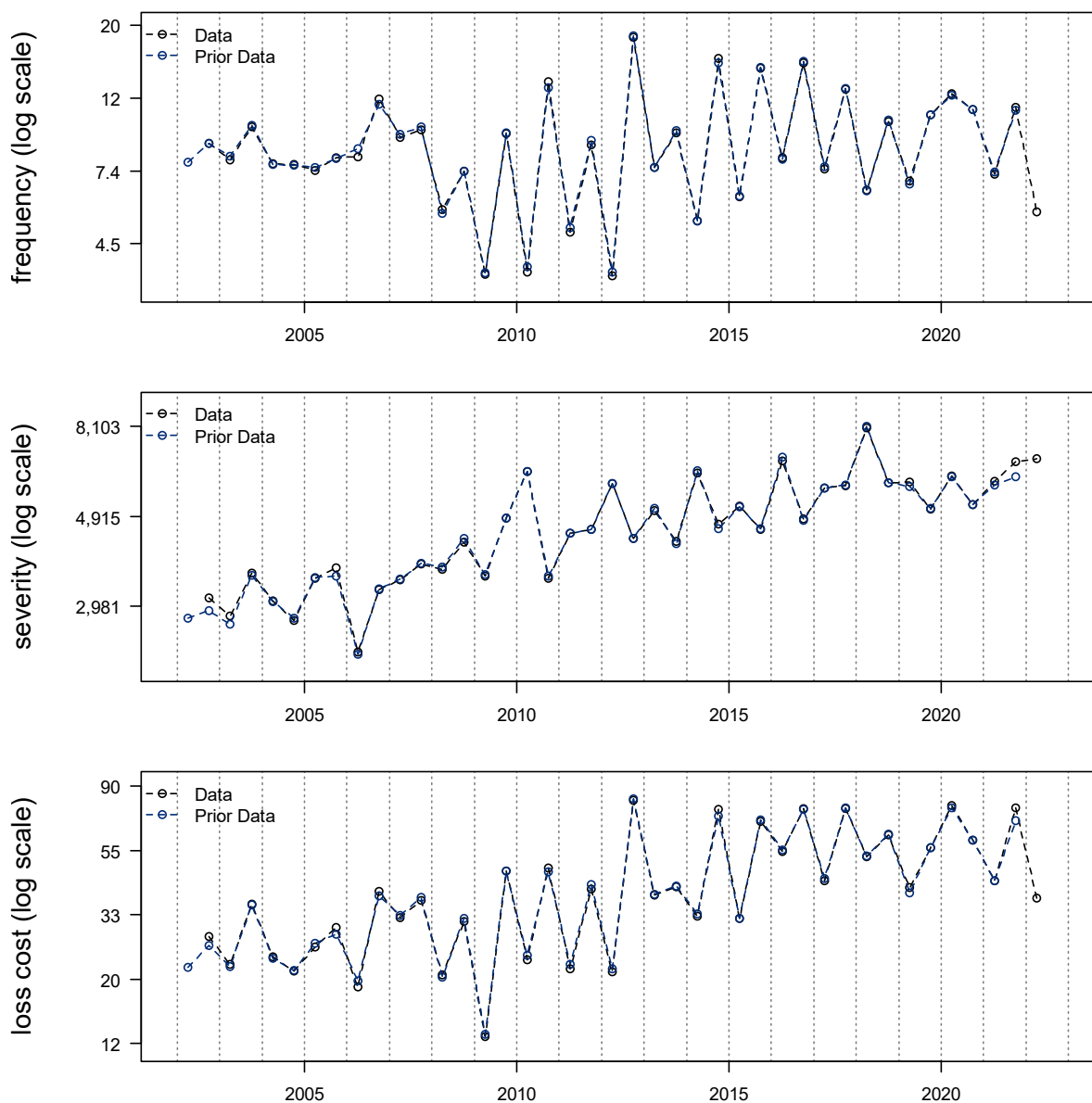
Please refer to Section 5.4 for more details regarding considerations when selecting the future loss cost trend.

## 6.7. Specified Perils

For the prior review we selected a past and future loss cost trend rate of +3.0%.

In Figure 40, we present our estimate of the actual loss cost, average severity, and frequency rate over the period 2002-2 through 2022-1. We include a comparison to the estimated values used in our prior report and observe that the estimates have not changed significantly.

**Figure 40: Observed Specified Perils Loss Cost Experience**



A review of the historical data points (as presented in Figure 40) shows that subject to variability:

Loss costs which have generally experienced a positive trend, however, are relatively flat following a rise in 2012.

Severity has generally been increasing for most of the experience period.

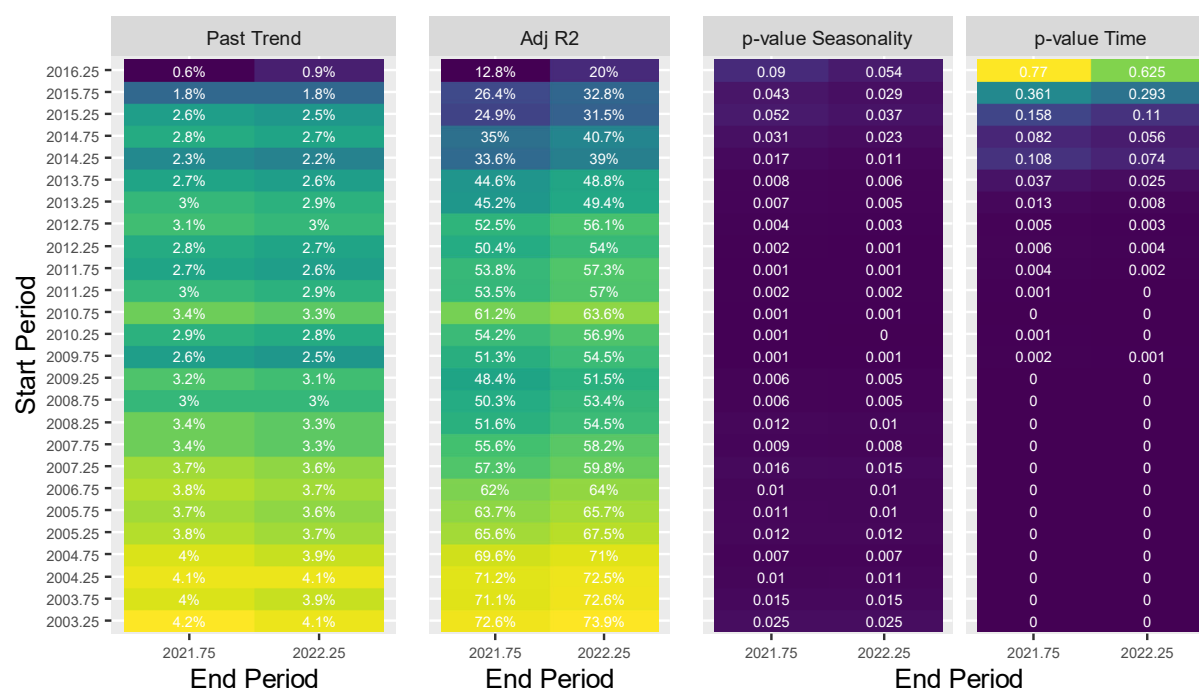
Frequency is subject to considerable volatility and an upward trend since about 2009, with some flattening since 2014.

The estimated 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 seasonality parameter, are presented in Appendix C. We make the following observations about these measured trends.

As the vast majority of the frequency and loss cost trends estimated are not statistically significant, we consider the severity trends and assume no frequency trend rate is discernable.

In Figure 41, we present a heatmap of indicated severity trends beginning 2003-1 through 2016-1, ending 2022-1 and 2021-2, excluding the unusually low 2006-1 observation, with time and seasonality parameters included in the model.

**Figure 41: Specified Perils Severity Heatmap (Time and Seasonality, excluding 2006-1)**



For specified perils severity, we observe the following:

- The models with experience periods beginning 2003-1 through 2013-2 and ending 2022-1 generally have implied severity trend rates ranging from +2.5% to +4.0%, with moderate Adjusted R-squared values, and  $p$ -values that are significant for time and seasonality.

The trend rates are generally higher for the models with longer experience periods.

The models with experience periods ending 2021-2 have indicated trend rates that are similar to those ending 2022-1.

Considering the long-term trend rates over the last ten years, we select a severity trend of +3.0%.

As a result, we select a past loss cost trend rate of +3.0%, the same as our prior selection.

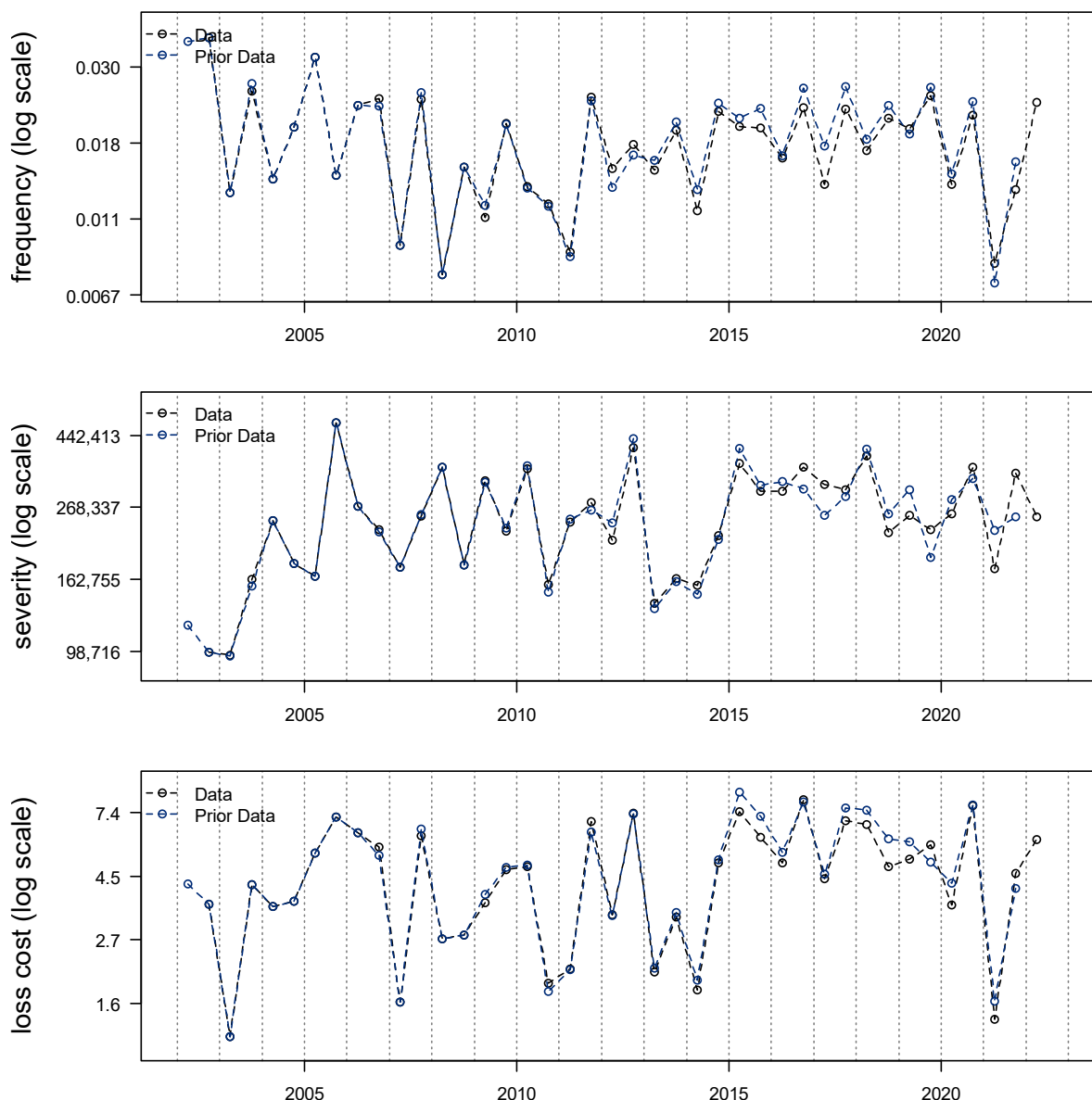
Please refer to Section 5.4 for more details regarding considerations when selecting the future loss cost trend.

## **6.8. Underinsured Motorists**

For the prior review we selected a past and future loss cost trend rate of +2.0%.

In Figure 42, we present our estimate of the actual loss cost, average severity, and frequency rate over the period 2002-2 through 2022-1. We include a comparison to the estimated values used in our prior report and observe generally similar estimates.

**Figure 42: Observed Underinsured Motorists Loss Cost Experience**



The historical data points indicate a considerable amount of variability (which is as expected given the small number of claims per year, averaging close to 50), with severity generally exhibiting a highly variable upward or flat trend (but lower than for bodily injury), and frequency exhibiting a downward trend that flattened until changing to an upward pattern in recent years. We observe a large decrease in frequency at 2021-1 which may, in part, be attributed to the COVID-19 pandemic. Interestingly, there is no apparent impact on the 2020, 2021-2 and 2022-1 observations.

The estimated 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 seasonality parameter, are presented in Appendix C.



As the vast majority of the frequency and loss cost trends estimated are not statistically significant, we consider the severity trends and assume no frequency trend rate is discernable.

In Figure 43, we present a heatmap of indicated severity trends beginning 2002-2 through 2012-2, ending 2022-1 and 2021-2 with only a time parameter included in the model.

**Figure 43: Underinsured Motorist Severity Heatmap (Time)**



For underinsured motorist severity, we observe the following:

- The models ending 2022-1 have implied severity trend rates ranging between +0.5% and +2.5%, with low Adjusted R-squared values, but *p*-values that are generally insignificant for time.

Models ending 2021-2 have implied trends similar to those ending 2022-1.

We generally find the bodily injury severity trend rate as a reasonable estimate of the underinsured motorist severity trend rate (and assume a 0% frequency trend rate). However, as some portion of the bodily injury severity trend may be driven by an erosion of the Minor Injury Cap, we find the use of the underinsured motorist coverage data to be more appropriate at this time.

Due to the limited and volatile claims data, we give consideration to the range of longer- term trend rates, and select a past loss cost trend of +1.5%; one half percentage point less than our prior review.

Please refer to Section 5.4 for more details regarding considerations when selecting the future loss cost trend.

## 6.9. Summary of Selections

The following table summarizes our selected loss trend rates by sub-coverage compared to the loss trend rates we selected in those that we selected in our prior review.

**Table 8: Estimated Annual Past Loss Cost Trend Rates**

| <b>Coverages</b>      | <b>2022 Annual Review<br/>Data as of December 31, 2021</b> | <b>2023 Semi-Annual Review<br/>Data as of June 30, 2022</b> |
|-----------------------|--|---|
| TPL-Bodily Injury     | +7.0%/5.0% <sup>52</sup>                                   | +7.0%/5.0% <sup>53</sup>                                    |
| TPL-Property Damage   | +1.5%  | +1.5%   |
| DCPD <sup>54</sup>    | +1.5%  | +1.5%   |
| AB – Total            | +1.0%/+12.0% <sup>55</sup>                                 | +1.0%/+12.0% <sup>56</sup>                                  |
| Collision             | +2.5%  | +3.0%   |
| Comprehensive         | +4.0%  | +4.0%   |
| All Perils            | +2.5%  | +2.5%   |
| Specified Perils      | +3.0%  | +3.0%   |
| Underinsured Motorist | +2.0%  | +1.5%   |

<sup>52</sup> +5.0% trend rate begins November 1, 2020, consistent with the recent reform.

<sup>53</sup> +5.0% trend rate begins November 1, 2020, consistent with the recent reform.

<sup>54</sup> The DCPD and TPL-PD trend selections are equivalent and based on the combined experience due to insufficient data given the introduction of DCPD January 2022.

<sup>55</sup> +12.0% trend rate begins January 1, 2015; most rate applications will only consider data from 2015 and onward.

<sup>56</sup> +12.0% trend rate begins January 1, 2015; most rate applications will only consider data from 2015 and onward.

## 7. Additional Considerations

### 7.1. Loss Adjustment Expenses

In determining their rate level needs, insurers should include provisions in their claim costs for allocated loss adjustment expenses (such as the legal expenses associated with claim settlement) and for unallocated loss adjustment expenses (the claim and settlement related expense that cannot be associated directly with individual claims) that are based on their experience.

For the analysis we perform of loss development factors, allocated loss adjustment expenses are included with the reported Industry loss data. For the analysis we perform of trends, we provide for unallocated loss adjustment expenses (ULAE) through the application of calendar year factors that are published by GISA<sup>57</sup> to the accident year loss experience. These factors are applied uniformly to the claim and ALAE amounts of each coverage.

As points of reference for the Board as it reviews individual insurer rate filings, we provide the Board with the Industry average ULAE<sup>58</sup> expense provisions published by GISA that are applied to the loss and allocated loss adjustment estimates.

**Table 9: Unallocated Loss Adjustment Expenses<sup>59</sup>**

| Year | ULAE % | Year | ULAE % |
|------|--------|------|--------|
| 2006 | 8.7%   | 2014 | 9.3%   |
| 2007 | 8.9%   | 2015 | 10.3%  |
| 2008 | 8.4%   | 2016 | 8.5%   |
| 2009 | 10.5%  | 2017 | 9.2%   |
| 2010 | 10.2%  | 2018 | 10.1%  |
| 2011 | 9.5%   | 2019 | 10.8%  |
| 2012 | 9.1%   | 2020 | 10.3%  |
| 2013 | 9.9%   | 2021 | 12.6%  |

### 7.2. Catastrophe Provision

As GISA has not updated its annual Catastrophe report through June 30, 2022, we repeat the discussion and recommendation we presented in our 2022 AR report.

*The AIRB is no longer approving a benchmark for catastrophe loading. As the impact of catastrophic events can vary greatly amongst insurers due to differences in distribution of risks, insurers are expected*

<sup>57</sup> The reader is directed to GISA for full description on the data collected and how these total auto ULAE factors are determined by GISA.

<sup>58</sup> ULAE factors prior to 2005 are presented in Appendix B.

<sup>59</sup> As GISA only publishes these factors annually, we assume the most recent full year factor is a reasonable provision for the subsequent accident half year.

*to consider their own claim experience. We continue to provide a review of the industry data for insurers who may need to supplement their own data with industry data for credibility reasons.*

*It is our understanding that the losses arising from the 2016 Fort McMurray wildfires are not considered catastrophe losses by GISA and, therefore, not included in our summary table below. Nevertheless, we believe that the fortuitous nature of these losses should be considered by insurers in calculating their rate level needs. Treating these losses as catastrophe-related losses is one approach for insurers to consider in their individual rate applications.*

*Comprehensive coverage claim costs are affected by the occurrence (or non-occurrence) of catastrophes. GISA defines catastrophes as “weather-related events such as windstorms, hail, and flooding that caused multiple losses to the insurance industry.” Since catastrophic losses result from highly random events, in determining rate level indications insurers should remove actual comprehensive coverage claim costs attributed to catastrophes that occurred in the experience period and include a provision for the amount of catastrophe losses that would be expected on average in any given year.*

### **Total Comprehensive (including thefts)**

*As noted above, the Board is no longer approving a benchmark catastrophe provision. Under this approach, each insurer would calculate a specific catastrophe provision for its own portfolio in reviewing rate level indications for the comprehensive coverage.*

*We continue to provide the Board with the historical industry average catastrophe impact by year of occurrence. This industry data may be useful for insurers who may need to supplement industry data with their own for credibility reasons. We summarize the catastrophe losses that have occurred in Alberta over the years 2002 – 2021 for private passenger vehicle comprehensive coverage as reported in GISA’s 2021 Catastrophe Report for Alberta. These data show, among other things, the relationship (presented as factors) between catastrophe losses and non-catastrophe losses. For example, over the last ten years approximately \$1.6 billion of catastrophe losses have been reported as compared to approximately \$2.6 billion of non-catastrophe losses - a ratio of 60%. Over the last five years approximately \$700 million of catastrophe losses have been reported as compared to approximately \$1.4 billion of non-catastrophe losses - a ratio of 47%. We observe relatively low levels of catastrophe claims between 2017 and 2021, except in 2020 due to the large hailstorm near Calgary.<sup>60</sup>*

*In Table 10 and Table 11, we present the insurance industry catastrophe data as provided by GISA. The catastrophe factors in Table 10 apply to comprehensive losses that exclude catastrophes claims and include theft claims. The catastrophe factors in Table 11 apply to comprehensive losses that exclude both catastrophes and theft claims.*

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<sup>60</sup> Several insurers noted recent catastrophic events in 2021 such as the Calgary hailstorm on July 2, 2021.

**Table 10: Insurance Industry Catastrophe Data - Comprehensive including Theft**

| <b>Accident Year</b> | <b>Number of Total Claims</b> | <b>Number of Cat Claims</b> | <b>Catastrophe Claim %</b> | <b>Total Loss and Expense</b> | <b>Cat Loss and Expense</b> | <b>Catastrophe Factor</b> |
|----------------------|-------------------------------|-----------------------------|----------------------------|-------------------------------|-----------------------------|---------------------------|
| 2002                 | 46,052                        | 1,933                       | 4%                         | 93,461,243                    | 4,388,752                   | 1.049                     |
| 2003                 | 43,059                        | 3,154                       | 7%                         | 108,027,281                   | 11,697,960                  | 1.121                     |
| 2004                 | 46,325                        | 6,137                       | 13%                        | 125,206,132                   | 25,614,074                  | 1.257                     |
| 2005                 | 57,486                        | 14,713                      | 26%                        | 153,664,381                   | 42,833,271                  | 1.386                     |
| 2006                 | 54,272                        | 5,547                       | 10%                        | 157,173,221                   | 18,597,791                  | 1.134                     |
| 2007                 | 64,921                        | 12,555                      | 19%                        | 234,084,298                   | 60,651,950                  | 1.350                     |
| 2008                 | 55,203                        | 5,478                       | 10%                        | 212,191,629                   | 24,386,347                  | 1.130                     |
| 2009                 | 55,110                        | 8,003                       | 15%                        | 227,182,461                   | 44,782,888                  | 1.246                     |
| 2010                 | 81,702                        | 38,853                      | 48%                        | 369,418,894                   | 189,947,165                 | 2.058                     |
| 2011                 | 50,814                        | 9,339                       | 18%                        | 212,643,381                   | 44,486,301                  | 1.265                     |
| 2012                 | 76,277                        | 34,856                      | 46%                        | 349,606,544                   | 170,622,185                 | 1.953                     |
| 2013                 | 70,662                        | 21,759                      | 31%                        | 342,761,639                   | 132,608,897                 | 1.631                     |
| 2014                 | 75,608                        | 28,558                      | 38%                        | 397,900,957                   | 187,382,925                 | 1.890                     |
| 2015                 | 75,213                        | 24,464                      | 33%                        | 409,922,421                   | 156,425,560                 | 1.617                     |
| 2016                 | 100,411                       | 41,621                      | 41%                        | 555,702,410                   | 241,840,300                 | 1.771                     |
| 2017                 | 65,931                        | 13,351                      | 20%                        | 377,693,963                   | 75,810,067                  | 1.251                     |
| 2018                 | 66,474                        | 15,603                      | 23%                        | 382,451,559                   | 94,230,312                  | 1.327                     |
| 2019                 | 65,026                        | 14,640                      | 23%                        | 369,381,787                   | 79,070,636                  | 1.272                     |
| 2020                 | 78,808                        | 35,627                      | 45%                        | 578,558,314                   | 316,446,863                 | 2.207                     |
| 2021                 | 64,273                        | 17,606                      | 27%                        | 421,682,550                   | 119,637,328                 | 1.396                     |
| All Years            | 1,293,627                     | 353,798                     | 27%                        | 6,078,715,065                 | 2,041,461,572               | 1.506                     |
| Last 10 Years        | 738,683                       | 248,085                     | 34%                        | 4,185,662,144                 | 1,574,075,073               | 1.603                     |
| Last 5 Years         | 340,512                       | 96,827                      | 28%                        | 2,129,768,173                 | 685,195,206                 | 1.474                     |

**Table 11: Insurance Industry Catastrophe Data - Comprehensive excluding Theft**

| <b>Accident Year</b> | <b>Number of Total Claims Excluding Theft</b> | <b>Number of Cat Claims</b> | <b>Catastrophe Claim %</b> | <b>Total Loss and Expense</b> | <b>Cat Loss and Expense</b> | <b>Catastrophe Factor</b> |
|----------------------|---|-----------------------------|----------------------------|-------------------------------|-----------------------------|---------------------------|
| 2002                 | 36,326  | 1,933                       | 5%                         | 60,506,527                    | 4,388,752                   | 1.078                     |
| 2003                 | 33,694  | 3,154                       | 9%                         | 70,281,433                    | 11,697,960                  | 1.200                     |
| 2004                 | 37,010  | 6,137                       | 17%                        | 90,427,249                    | 25,614,074                  | 1.395                     |
| 2005                 | 48,415  | 14,713                      | 30%                        | 116,302,636                   | 42,833,271                  | 1.583                     |
| 2006                 | 43,933  | 5,547                       | 13%                        | 109,874,473                   | 18,597,791                  | 1.204                     |
| 2007                 | 55,117  | 12,555                      | 23%                        | 178,453,746                   | 60,651,950                  | 1.515                     |
| 2008                 | 46,571  | 5,478                       | 12%                        | 151,911,614                   | 24,386,347                  | 1.191                     |
| 2009                 | 47,480  | 8,003                       | 17%                        | 174,380,805                   | 44,782,888                  | 1.346                     |
| 2010                 | 75,590  | 38,853                      | 51%                        | 324,036,604                   | 189,947,165                 | 2.417                     |
| 2011                 | 45,688  | 9,339                       | 20%                        | 172,627,557                   | 44,486,301                  | 1.347                     |
| 2012                 | 71,706  | 34,856                      | 49%                        | 310,088,398                   | 170,622,185                 | 2.223                     |
| 2013                 | 64,931  | 21,759                      | 34%                        | 296,689,557                   | 132,608,897                 | 1.808                     |
| 2014                 | 69,642  | 28,558                      | 41%                        | 344,573,489                   | 187,382,925                 | 2.192                     |
| 2015                 | 66,996  | 24,464                      | 37%                        | 330,143,914                   | 156,425,560                 | 1.900                     |
| 2016                 | 91,389  | 41,621                      | 46%                        | 465,698,564                   | 241,840,300                 | 2.080                     |
| 2017                 | 55,448  | 13,351                      | 24%                        | 266,395,133                   | 75,810,067                  | 1.398                     |
| 2018                 | 56,889  | 15,603                      | 27%                        | 274,425,676                   | 94,230,312                  | 1.523                     |
| 2019                 | 56,111  | 14,640                      | 26%                        | 271,358,359                   | 79,070,636                  | 1.411                     |
| 2020                 | 71,932  | 35,627                      | 50%                        | 498,718,679                   | 316,446,863                 | 2.736                     |
| 2021                 | 57,751  | 17,606                      | 30%                        | 343,124,707                   | 119,637,328                 | 1.535                     |
| All Years            | 1,132,620                                     | 353,798                     | 31%                        | 4,850,019,120                 | 2,041,461,572               | 1.727                     |
| Last 10 Years        | 662,795                                       | 248,085                     | 37%                        | 3,401,216,476                 | 1,574,075,073               | 1.861                     |
| Last 5 Years         | 298,131                                       | 96,827                      | 32%                        | 1,654,022,554                 | 685,195,206                 | 1.707                     |

### 7.3. Investment Income on Cash Flow

The Board Guidelines direct insurers to use their own expected return on investment rate in their rate applications.

To provide a perspective on the investment income rate of individual insurers, we provide a weighted average of the OSFI P&C-1 reported return on investment rates of all insurers based on each insurers' written automobile premiums in Alberta as weights.

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**Table 12: Industry Average Investment Income Rate**

| <b>Calendar Year</b> | <b>Industry Average<br/>Investment Income Rate</b> |
|----------------------|--|
| 2015                 | 3.31%  |
| 2016                 | 2.78%  |
| 2017                 | 3.69%  |
| 2018                 | 2.24%  |
| 2019                 | 4.23%  |
| 2020                 | 4.17%  |
| 2021                 | 2.71%  |

## **7.4. Health Cost Recovery**

The Alberta Treasury Board and Finance announced the 2023 Health Cost Recovery assessment factor (percentage) at 2.86% of third party liability premiums.<sup>61</sup> Consistent with the position the Board has taken with respect to the Health Cost Recovery assessment, we recommend 2.86% as the Benchmark.

## **7.5. Operating Expenses**

In determining their rate level needs, insurers include a provision for operating expenses that is based on their experience and expected future expense costs. As a perspective on the expense provisions of individual insurers, we provide the Board with the Industry average expense provisions.

The GISA Automobile Insurance Financial Information Report includes an “Industry Expense Report” for private passenger vehicles, by province. The 2021 Expense Report was released by GISA in August 2022. The 2021 Industry Expense Report was the basis for the 2022 AR Benchmark.

As no new additional expense information is available, we recommend the current Benchmark remain unchanged until the 2022 Expense Report is released by GISA.

We present the previously recommended and approved Benchmark based on the 2021 Expense Report:

Direct Commissions, Contingent Commissions, Fire and Premium Taxes, and Other Acquisition Expenses be based on direct written premium; and

General Expenses be based on direct earned premium.

The resulting recommended Benchmark based on the 2021 Expense Report data and the limitation on contingent commissions and general expenses is 27.1%.

The components of the current and recommended Benchmark are as follows.

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<sup>61</sup> The 2023 assessment factor was announced after the publication date of our preliminary report.

**Table 13: Summary of Indicated Operating Expense Ratios**

| <b>Component</b>           | <b>Current Benchmark<br/>(2022 AR)</b> | <b>Recommended Benchmark<br/>(2023 SAR)</b> |
|----------------------------|--|---|
| Direct Commissions         | 11.5%                                  | Unchanged                                   |
| Contingent Commissions     | 1.4%                                   | Unchanged                                   |
| <i>Total Commissions</i>   | 12.9%                                  | Unchanged                                   |
| Premium and Fire Taxes     | 3.8%                                   | Unchanged                                   |
| Other Acquisition Expenses | 2.9%                                   | Unchanged                                   |
| General Expenses           | 7.5%                                   | Unchanged                                   |
| Total Expenses             | 27.1%                                  | Unchanged                                   |

## 7.6. Profit

The Board's current position is to allow a profit provision of 7% of premium.



## 8. Summary of Benchmarks

In Table 14 we present a summary of our selected benchmarks for the 2022 Annual Review

**Table 14: Estimated Annual Past Loss Cost Trend Rates**

|                         | <b>2022 Annual Review<br/>Data as of December 31, 2021</b> | <b>2023 Semi Annual Review<br/>Data as of June 30, 2022</b> |
|-------------------------|--|---|
| <b>Trend Benchmarks</b> |  |   |
| TPL-Bodily Injury       | +7.0%/5.0% <sup>62</sup>                                   | +7.0%/5.0% <sup>63</sup>                                    |
| TPL-Property Damage     | +1.5%  | +1.5%   |
| DCPD <sup>64</sup>      | +1.5%  | +1.5%   |
| AB – Total              | +1.0%/+12.0% <sup>65</sup>                                 | +1.0%/+12.0% <sup>66</sup>                                  |
| Collision               | +2.5%  | +3.0%   |
| Comprehensive           | +4.0%  | +4.0%   |
| All Perils              | +2.5%  | +2.5%   |
| Specified Perils        | +3.0%  | +3.0%   |
| Underinsured Motorist   | +2.0%  | +1.5%   |
| <b>Other Benchmarks</b> |  |   |
| Health Cost Recovery    | 3.55% of TPL Premiums                                      | 2.86% of TPL Premiums                                       |
| Operating Expenses      | 27.1%  | 27.1%   |
| Profit Provision        | 7%   | 7%  |

<sup>62</sup> +5.0% trend rate begins November 1, 2020, consistent with the recent reform.

<sup>63</sup> +5.0% trend rate begins November 1, 2020, consistent with the recent reform.

<sup>64</sup> The DCPD and TPL-PD trend selections are equivalent and based on the combined experience due to insufficient data given the introduction of DCPD January 2022.

<sup>65</sup> +12.0% trend rate begins January 1, 2015; most rate applications will only consider data from 2015 and onward.

<sup>66</sup> Trend rate of +12.0% begins January 1, 2015; most rate applications will only consider data from 2015 and onward.

## 9. Historical Impact of COVID-19

As discussed in Section 5.3, to isolate the impact of COVID-19 from the loss trend rate, we excluded the 2020-1, 2020-2, 2021-1, 2021-2, and 2022-1 observations from the models where a significant decrease in frequency was present. This approach does not quantify the impact of COVID-19; instead, it excludes the impact from consideration.

In order to quantify this impact, we consider models that are analogous to those underlying our selected trend rate with the following adjustments:

2020-1, 2020-2, 2021-1, 2021-2, and 2022-1 observations are included and, if significant<sup>67</sup> an additional (mobility) parameter which measures the relationship between the decline in mobility to the change in claims experience during the pandemic.

The resulting model has similar coefficients<sup>68</sup> (and trend rates) as the models we presented in Section 6 but quantifies the difference between the frequency observed during the pandemic and what may have been expected without the pandemic. We present these models in Appendix F.

In order to measure the affect the pandemic has had, we consider the use of the mobility composite metric published by the IHME.<sup>69</sup> We assume this mobility metric, which represents the decline from typical mobility levels, is correlated with the decline in traffic and claims frequency caused by the COVID-19 pandemic. In Figure 44, we present the IHME observed and predicted Alberta mobility composite metric.<sup>70</sup>

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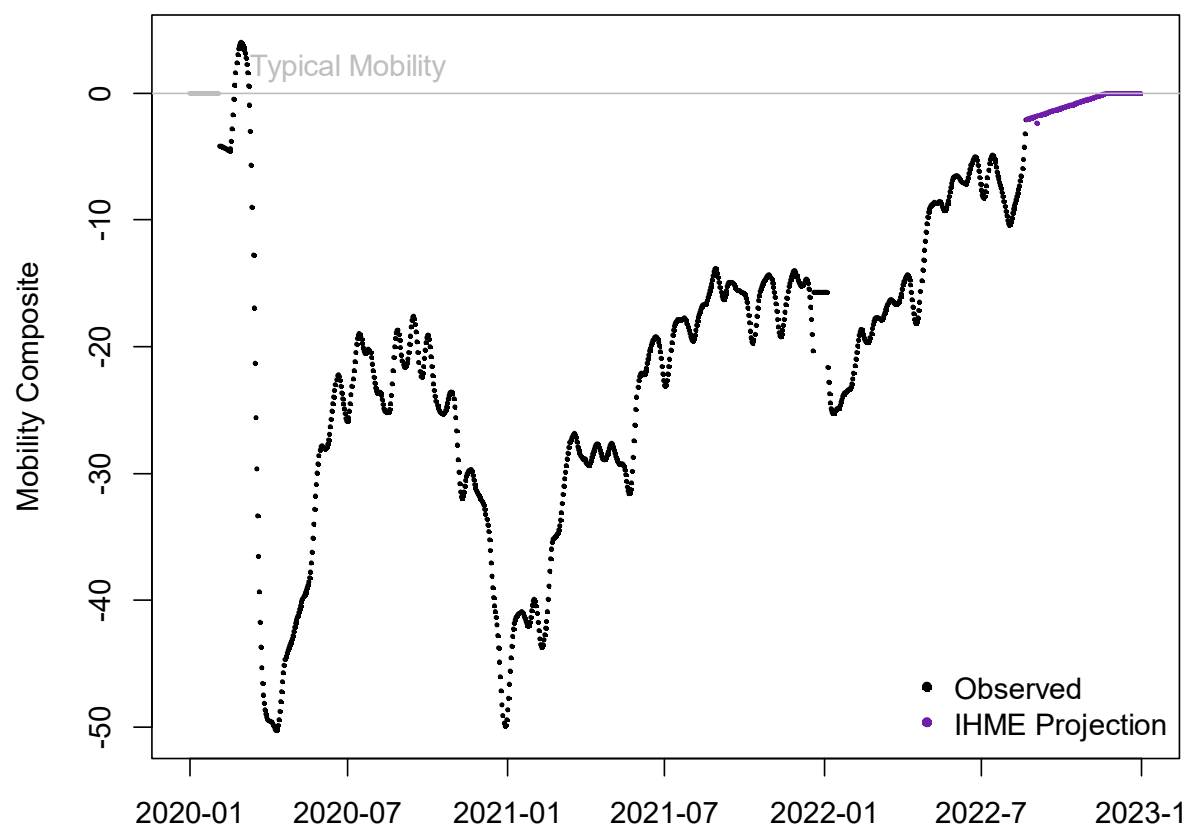
<sup>67</sup> Before inclusion of the mobility parameter in our loss trend model, we first test the statistical significance for each of the separate frequency, severity and loss cost models. Parameters with  $p$ -value less than 5% are considered statistically significant.

<sup>68</sup> The fitted coefficients (and trend rates) are similar to an analogous model with an experience period ending 2019-2 and excluding the mobility parameters. The additional mobility parameter explains a large portion of the variance observed in the pandemic-impacted data points and limits their influence on the indicated trend rates.

<sup>69</sup> <http://www.healthdata.org/>

<sup>70</sup> We use IHME's data and forecast published September 12, 2022. We note IHME did not provide a mobility projection in their most recent data release.

**Figure 44: Mobility Composite Data**



As presented in Figure 44, the mobility composite metric is forecasted through to December 31, 2022. Although we are not experts in the IHME model, we observe IHME estimates mobility will continue to increase and return to pre-pandemic levels in the second half of 2022.

The rate at which mobility returns to the pre-pandemic normal is uncertain and may be influenced by such reasons as potential future new variants of COVID-19 and broad acceptance of hybrid work models, amongst other reasons. Due to this increased level of uncertainty, our methodology is unable to quantify the post pandemic's expected impact on claim costs for 2023 and beyond.

Our approach to determine COVID-19 pandemic adjustment factors is to consider the average mobility during an accident semester as an additional predictor in our trend model. For all accident periods prior to 2020-1, we use an average mobility composite score of zero to represent "typical mobility." For each of the accident periods 2020-1, 2020-2, 2021-1, 2021-2, 2022-1, and 2022-2 we select an average mobility change value based on the mobility projection data available to us.

In Table 15, we present the IHME's Alberta average mobility as measured by the mobility composite metric across accident semester.

**Table 15: Average Mobility Composite**

| Scenario   | Average Mobility |        |        |        |        |        |
|------------|------------------|--------|--------|--------|--------|--------|
|            | 2020-1           | 2020-2 | 2021-1 | 2021-2 | 2022-1 | 2022-2 |
| Projection | -22.2            | -26.3  | -31.5  | -16.6  | -14.9  | -2.6   |

We estimate the relationship between the change in claims experience due to the COVID-19 pandemic and mobility through inclusion of the “mobility parameter” in the loss trend models presented in Appendix F. By applying the mobility parameter’s coefficient to the mobility, we are able to estimate the effect of the COVID-19 pandemic on claims experience.

In Table 16 we summarize our projected COVID-19 industry adjustment factors for each coverage based on IHME’s projection scenario.<sup>71</sup> These estimates are highly dependent upon:

the assumption that mobility is correlated with a decline in traffic and change in claims experience, the assumption that this relationship is measurable and meaningful given limited data observations, and the accuracy of the selected average mobility values.

With these caveats, the estimates presented in Table 16 are based on the measured relationship between the decline in mobility and claims frequency, and implicitly assume that the COVID-19 pandemic has not materially impacted severity. Individual insurers may have experienced different COVID-19 pandemic impacts on frequency and severity than the industry. An additional adjustment may be required to unwind the historical effect of COVID-19 on an insurer’s severity estimates if they are materially impacted by the pandemic.

We provide an example of how these factors should be applied in an industry rate indication model and interpreted. Our factor of 1.364 implies that the 2020-1 bodily injury loss experience was 26.7%<sup>72</sup> lower in 2020-1, than it otherwise would be, due to the COVID-19 pandemic.

<sup>71</sup> These COVID-19 adjustment factors are only applicable to private passenger vehicles. COVID-19 adjustment factors for other lines of business are likely material different than those for private passenger.

<sup>72</sup> -26.7% = (1/1.364)-1 is derived from the bodily injury trend model.

**Table 16: COVID-19 Adjustment Factors**

| Coverage              | 2020-1 | 2020-2 | 2021-1 | 2021-2 | 2022-1 |
|-----------------------|--------|--------|--------|--------|--------|
| TPL-Bodily Injury     | 1.364  | 1.446  | 1.554  | 1.262  | 1.232  |
| TPL-Property Damage   | 1.426  | 1.524  | 1.655  | 1.305  | 1.269  |
| DCPD <sup>73</sup>    | 1.426  | 1.524  | 1.655  | 1.305  | 1.269  |
| AB – Total            | 1.490  | 1.606  | 1.763  | 1.349  | 1.308  |
| Collision             | 1.000  | 1.000  | 1.000  | 1.000  | 1.000  |
| Comprehensive         | 1.000  | 1.000  | 1.000  | 1.000  | 1.000  |
| All Perils            | 1.000  | 1.000  | 1.000  | 1.000  | 1.000  |
| Specified Perils      | 1.000  | 1.000  | 1.000  | 1.000  | 1.000  |
| Underinsured Motorist | 1.364  | 1.446  | 1.554  | 1.262  | 1.232  |

<sup>73</sup> The DCPD and TPL-PD trend selections are equivalent and based on the combined experience due to insufficient data given the introduction of DCPD January 2022.

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## 11. Consideration and Limitations

**Data Verification** – For our analysis, we relied on data and information provided by the AIRB and GISA without independent audit. Though we have reviewed the data for reasonableness and consistency, we have not audited or otherwise verified this data. 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 might therefore be unreliable.

**Rounding and Accuracy** – Our models may retain more digits than those displayed. Also, the results of certain calculations may be presented in the exhibits with more or fewer digits than would be considered significant. As a result, there may be rounding differences between the results of calculations presented in the exhibits and replications of those calculations based on displayed underlying amounts. Also, calculation results may not have been adjusted to reflect the precision of the calculation.

**Unanticipated Changes** – We developed our conclusions based on an analysis of the data provided by AIRB and GISA and on the estimation of the outcome of many contingent events. We developed our estimates from the historical claim experience and covered exposure, with adjustments for anticipated changes. Our estimates make no provision for extraordinary future emergence of new types of losses not sufficiently represented in historical databases or which are not yet quantifiable. Also, we assumed that the client named herein will remain a going concern, and we have not anticipated any impacts of potential insolvency, bankruptcy, or any similar event.

**Internal / External Changes** – The sources of uncertainty affecting our estimates are numerous and include factors internal and external to insurers writing business in Alberta. Internal factors include items such as changes in claim reserving or settlement practices. The most significant external influences include, but are not limited to, changes in the legal, social, or regulatory environment surrounding the claims process. Uncontrollable factors such as general economic conditions also contribute to the variability.

**Uncertainty Inherent in Projections** – While this analysis complies with applicable Actuarial Standards of Practice, 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, we do not guarantee that the emergence of actual losses will correspond to the projections in this analysis.

## 12. Definition of Key Terms

To assist the reader in understanding our report, in this section we define and explain several insurance terms.

### 12.1. Insurance Coverages

We begin with a general description of the insurance coverages. We note that throughout this discussion of the insurance coverages, the term “insured” is generally used to mean the owner, and family of the owner of the policy, as well as any passengers or other drivers using the car with the owner’s permission.

#### Third Party Liability (TPL)

There are three parts to this Basic Coverage:

- Bodily Injury (BI) coverage protects the insured against liability arising from an accident that causes bodily injury to another person. Coverage amounts available in Alberta range from the legal minimum of \$200,000 per claim to well over \$2,000,000 per claim.
- Property Damage-tort (PD-tort) coverage protects the insured against liability arising from an accident that causes damage to the property of another person.
- Direct Compensation Property Damage (DCPD) coverage from own insurer for damage to own vehicle caused by a third party due to a collision.

All drivers must purchase at least the legally required minimum amount of TPL coverage available in Alberta.

#### Accident Benefits (AB)

This Basic Coverage provides for such items as reimbursement of lost income, medical care costs, and funeral costs; it also provides benefits to the dependents of a deceased insured.

#### Underinsured Motorist (UIM)

This Additional Coverage protects the insured if he or she is caused bodily injury by an at-fault driver who is insured, but who does not have sufficient insurance to cover the liability. In this case the insured collects, from his or her own insurer, the amount of the damage that is in excess of the at-fault driver’s liability coverage and up to the limit of UIM coverage purchased.

#### Collision

This Additional Coverage generally provides coverage (subject to a deductible) for damage to the insured’s vehicle arising out of a collision.

#### Comprehensive

This Additional Coverage generally provides coverage (subject to a deductible) for damage to the insured’s vehicle arising out of a peril other than collision (e.g., theft, vandalism, flood, hail, fire, etc.).

#### All Perils

This Additional Coverage combines the coverages for both collision and comprehensive into one coverage, subject to a common deductible level.



### Specified Perils

This Additional Coverage, like collision and comprehensive, provides coverage (subject to a deductible) for specific perils to the insured's vehicle.

## **12.2. Other Terms**

### Accident Year

Accident year is the year in which an incident that gives rise to a claim occurred, regardless of when the claim is actually reported to an insurance company. For example, a claim reported on January 15, 2016 for injuries suffered in an automobile accident that occurred on December 15, 2015, is considered to be an accident year 2015 claim.

### Allocated Loss Adjustment Expense (ALAE)

ALAE is the claim and settlement expense that can be associated directly with individual claims (e.g., legal expenses). (See ULAE).

### Base Rate and Rate Differentials

Insurers generally determine the premium for a particular insured by multiplying a base rate by a series of rate differentials (or rate factors, or rate relativities) that reflect the particular characteristics of the insured. The terms rate differentials, rate factors and rate relativities are used interchangeably. Typically, there is one base rate for each combination of coverage and rating territory. For example, assume a base rate for the TPL coverage of \$200 in Territory #1 and a base rate for the TPL coverage of \$300 in Territory #2. Also, assume the rate differential for a married male driver, age 40, is 1.25. The TPL premium for this driver would be \$250 in Territory #1 (\$200 times 1.25) and \$375 in Territory #2 (\$300 times 1.25).

### Case Reserve

The Case Reserve is the provision established by insurance companies for the payment of future losses and claim related expenses associated with a particular claim.

### Claim Frequency

Claim Frequency is the average number of claims that occur in a year, per insured vehicle. Claim frequency is a measure of the incidence of automobile claims. For example, if an insurance company provided insurance on 100 vehicles in year 2015 and 5 TPL claims occurred during 2015, the company's TPL claim frequency for 2015 would be 5 percent.

### Claim Severity

Claim Severity is the average reported incurred loss and ALAE per claim. Claim severity is a measure of the average cost of automobile claims. For example, if the 5 claims in the previous example resulted in a total incurred loss and ALAE of \$100,000, the claim severity would be \$20,000.

### Claim Count Development

Claim Count Development refers to the change in the number of reported claims for a particular accident year over time. (See Loss Development).

### CLEAR

CLEAR refers to Canadian Loss Experience Automobile Rating, a system of categorizing Private Passenger vehicles, by make and model-year, for physical damage coverage rating purposes. CLEAR was developed

by the Vehicle Information Centre of Canada (VICC), a part of the Insurance Bureau of Canada. CLEAR considers such elements as the reparability and damageability of the make and model-year. (See MSRP).

#### Combined Ratio

Combined Ratio is a common measure of premium adequacy. This is the sum of the loss ratio plus the expense ratio (operating expenses divided by written premium). A combined ratio in excess of 100 percent is an indication of premium inadequacy, before consideration of profit and investment income.

#### Earned Premium

Earned Premium is the amount of written premium that is associated with the portion of the policy term that has expired. For example, assume an automobile policy with a 12-month term is sold on January 1 for \$1,000. The amount of earned premium would be \$500 on June 30.

#### Exposure Unit

Exposure unit is a measure of loss potential. In Private Passenger vehicle insurance, the exposure unit that is commonly used is the number of insured vehicles. For example, all else being equal, it would be expected that the cost to an insurance company to insure 50 cars would be twice the cost to insure 25 cars.

#### Health Cost Recovery Assessment

As per Provincial legislation, each insurer is assessed to achieve a target amount set by Government. The Minister of Finance publishes the assessment percentage applied to Third Party Liability written premiums every year. GISA calculates and provides the assessment as a percentage of earned third party liability premiums. Under the legislation, the Government has no subrogation rights against the at-fault parties who are insured by policies of TPL insurance; but instead, collects the assessment.

#### Loss Cost (Pure Premium)

Loss Cost is the average incurred loss and ALAE per insured vehicle. The loss cost is the product of claim frequency and claim severity. Using the above example, a claim frequency of 5 percent, multiplied by a claim severity of \$20,000, produces a TPL loss cost of \$1,000.

#### Loss Development

Loss Development is the amount by which reported incurred losses and ALAE for a particular accident year change over time. The two main reasons why reported incurred losses and ALAE amounts change (or develop) over time are:

Reported incurred losses and ALAE only include case reserve estimates on claims for which the claim adjuster has knowledge, i.e., case reserves are only established on the claims that have been reported to the insurance company. Since typically some period of time elapses between the time of the incident and when it is reported as a claim, the number of reported claims for an accident year would be expected to increase over time. Claims that are reported after the close of an accident year are referred to as “late-reported” claims; and

Reported incurred losses and ALAE also develop because, for a number of reasons, the initial case reserves established by claims adjusters, cannot fully and accurately reflect the amount the claim will ultimately settle at. We further note that, over time, the percentage by which reported incurred losses and ALAE develop for a given accident year should decline. This is because as accident years become more mature (i.e., become older), fewer reserve estimates are adjusted to reflect newly reported late claims, actual payments, and additional information that becomes available to the claims adjuster.

### Loss Ratio

Loss ratio is the common measure of premium adequacy. Loss ratio is usually defined as estimated ultimate incurred losses and ALAE, divided by earned premium. But the ultimate incurred losses and ALAE may also include provisions for ULAE and the Health Cost Recovery assessment. A loss ratio that exceeds a company's break-even loss ratio (100 percent less budgeted expenses) would suggest premium inadequacy.

### Loss Reserving Methods: Incurred Loss Method and Paid Loss Method

Loss reserving methods are often based on historical data grouped into a triangle format. A common approach is to have the rows represent the accident years, and the columns representing the value of the loss at specific dates, such as 12 months, 24 months, 36 months etc., from the beginning of the accident year. The historical changes in the loss data from period to period is reviewed to estimate a pattern to predict how current accident years losses will change over time as claims are settled and closed. The Incurred Loss Method refers to the triangle method of analysis, based on reported incurred losses. The Paid Loss Method refers to the triangle method of analysis, based on paid losses.

### MSRP

MSRP refers to the Manufacturer's Suggested Retail Price, and is a system of categorizing Private Passenger vehicles, by make and model-year, for rating purposes for physical damage coverages, according to the original price of the vehicle. (See CLEAR).

### Operating Expenses

Insurance company expenses, other than ALAE and ULAE, are typically categorized as Commissions, Other Acquisition, General, Taxes, Licenses, and Fees.

### Paid Losses

The total aggregate dollar amount of losses paid on all reported claims as of a certain date.

### Premium Drift

Premium Drift is a more general term, and refers to the changes in the amount of premium collected by insurance companies that are attributed to the purchase of newer and more expensive cars (i.e., rate group drift) as well as to changes in the amount of insurance coverage that is purchased (e.g., the purchase of higher limits of liability coverage would increase the amount of premium collected by insurance companies, while the purchase of higher physical damage deductibles would reduce the amount of premium collected by insurance companies). (See Rate Group Drift).

### Rate Group Drift

Rate Group Drift refers to the amount of additional premium collected by insurance companies that is attributed to the purchase of newer and more expensive cars by insureds. The premiums charged by insurance companies are higher for newer and more expensive cars. Therefore, as insureds purchase newer and more expensive cars, the amount of premium collected by insurance companies increases. (See Premium Drift).

### Ratemaking Methods: Pure Premium Method and Loss Ratio Method

The Pure Premium Method of ratemaking develops indicated rates that are expected to provide for the expected losses and expenses, and provide for the expected profit. The Loss Ratio Method of ratemaking develops indicated rate changes rather than indicated rates.

### Rating Territory

Automobile premiums vary by the principal garaging location of the vehicle. Based on Insurance Bureau of Canada's automobile statistical plan, Alberta is currently divided into three areas, or rating territories, of principal garaging location; and, therefore, has three separate sets of rates depending upon which of the three territories the vehicle is principally garaged. (See Statistical Territory)

### Reported Incurred Loss

The sum of:

the total aggregate dollar amount of losses paid on all reported claims as of a certain date (referred to as the valuation date), and

the total aggregate dollar amount of losses set in reserve by the claim adjusters on each open claim (referred to as "case reserves") as of a certain date (the same evaluation date as for the paid claim amounts).

For example, if two claims were filed against an insurance company, one that settled for \$50,000 and the other that was open with a paid amount of \$25,000 and a "case reserve" (i.e., the claim adjuster's estimate of the dollars still to be paid on the claim) of \$30,000, then the total reported incurred loss on the two claims would be \$105,000 (the sum of \$50,000, \$25,000, and \$30,000).

### Reserve

A Reserve is the aggregate provision identified by an insurance company for the payment of future losses and claim related expenses associated with claims that have been incurred.

### Surplus

Surplus is the amount of assets of an insurance company in excess of its liabilities.

### Statistical Territory

Automobile premiums vary by the principal garaging location of the vehicle. Alberta is divided into four statistical territories, of principal garaging location. Specific statistical territories are grouped together to represent a specific rating territory. In some cases there is one statistical territory in a rating territory, in other cases the rating territory comprises two or more statistical territories. (See Rating Territory).

### Total Return on Equity

Total Return on Equity (ROE) refers to an insurer's profit as a percentage of its surplus, where profit is the sum of (i) underwriting profit, and (ii) investment income earned on both the underwriting operations of the company and on the surplus carried by the company.

### Unallocated Loss Adjustment Expense (ULAE)

ULAE is the claim and settlement related expense that cannot be associated directly with individual claims (e.g., claim adjuster salaries). (See ALAE).

### Underwriting Profit

Underwriting Profit is defined as earned premium, less reported incurred losses and ALAE, less ULAE, less operational expenses.

### Underwriting Profit Margin

Underwriting Profit Margin is the provision that is included in the insurance premium for underwriting profit to be earned by the company.

Ultimate Incurred Loss

Ultimate Incurred Loss is an estimate of the total amount of loss dollars that will ultimately be paid to settle all claims that occur during a particular accident year.

Written Premium

Written Premium represents the total amount of premium charged by an insurance company for the insurance policies it has sold. It is generally compiled over a one-year period.

## 13. Closing

This report was prepared by Paula Elliott, FCAS, FCIA, Rajesh Sahasrabuddhe, FCAS, ACIA, and Chris Schneider FCAS, ACIA of Oliver Wyman

We are available to answer any questions the Board may have on our report.

Sincerely,



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## 14. Appendices

**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 by accident half-year.

**Appendix D:** Reported incurred claim count, estimated ultimate claim count by accident half-year.

**Appendix E:** Summary of loss trend regression analysis which includes estimated 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 11

Property Damage: Pages 12 to 19

Accident Benefits: Pages 20 to 34

Collision: Pages 35 to 42

All Perils: Pages 43 to 50

Specified Perils: Pages 51 to 55

Underinsured Motorists (UM): Pages 56 to 58

**Appendix F:** Summary of loss trend regression analysis which presents loss trend models analogous to those underlying our selected trend rates except that the models include the 2020-1 through 2022-1 accident half years and the mobility parameter.

Province of Alberta  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

Claim Count Development Summary  
Data as of 30 Jun 2022

|          | (2)  | (3)                                     | (4)                       | (5)       | (6)                   | (7)                   | (8)        | (9)              | (10)                  |
|----------|--|---|---------------------------|-----------|-----------------------|-----------------------|------------|------------------|-----------------------|
|          | Selected Age-to-Ultimate Development Factors |   |                           |           |                       |                       |            |                  |                       |
| Maturity | Third Party Liability - Bodily Injury        | Third Party Liability - Property Damage | Accident Benefits - Total | Collision | Comprehensive - Total | Comprehensive - Theft | All Perils | Specified Perils | Underinsured Motorist |
| 6        | 1.163  | 1.081                                   | 0.978                     | 0.747     | 1.118                 | 1.003                 | 0.875      | 1.042            | 1.406                 |
| 12       | 1.074  | 1.006                                   | 0.994                     | 0.934     | 1.018                 | 0.999                 | 0.971      | 1.003            | 1.037                 |
| 18       | 1.066  | 1.004                                   | 0.999                     | 0.989     | 1.007                 | 1.000                 | 0.996      | 1.003            | 0.856                 |
| 24       | 1.026  | 0.997                                   | 0.999                     | 0.996     | 1.003                 | 1.000                 | 1.000      | 1.000            | 0.737                 |
| 30       | 0.988  | 1.000                                   | 1.000                     | 0.998     | 1.000                 | 1.000                 | 1.000      | 1.001            | 0.518                 |
| 36       | 0.986  | 1.000                                   | 1.000                     | 0.999     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.459                 |
| 42       | 0.982  | 1.000                                   | 1.000                     | 0.999     | 1.000                 | 1.000                 | 1.000      | 0.999            | 0.451                 |
| 48       | 0.986  | 1.000                                   | 1.000                     | 0.999     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.476                 |
| 54       | 0.990  | 1.000                                   | 1.000                     | 0.999     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.504                 |
| 60       | 0.993  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.532                 |
| 66       | 0.995  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.570                 |
| 72       | 0.997  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.604                 |
| 78       | 0.997  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.656                 |
| 84       | 0.998  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.708                 |
| 90       | 0.999  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.752                 |
| 96       | 0.999  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.776                 |
| 102      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.812                 |
| 108      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.838                 |
| 114      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.878                 |
| 120      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.918                 |
| 126      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.928                 |
| 132      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.961                 |
| 138      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.971                 |
| 144      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.977                 |
| 150      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.984                 |
| 156      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.996                 |
| 162      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 168      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 174      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 180      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 186      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 192      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 198      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 204      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 210      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 216      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 222      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 228      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 234      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 240      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |





Province of Alberta  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)  
Reported Incurred Claim Amount and ALAE Development Summary  
Data as of 30 Jun 2022

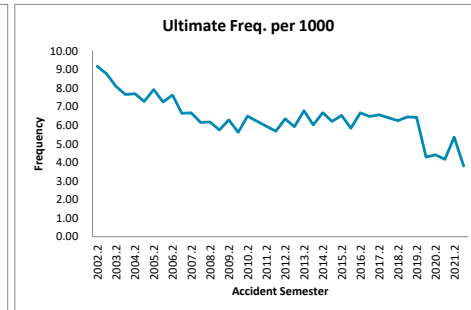
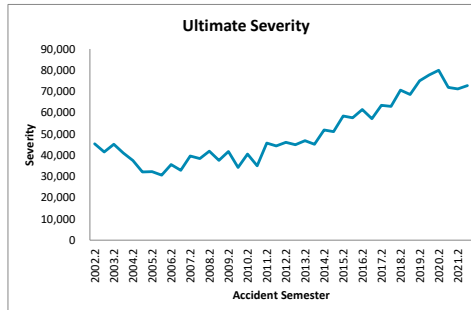
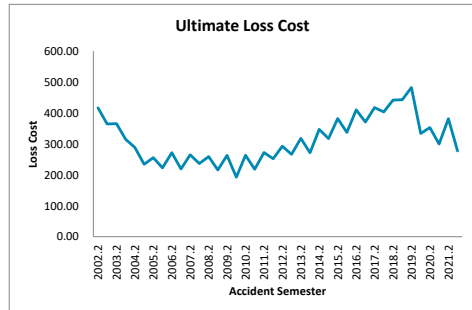
|          | (2)  | (3)                                     | (4)                       | (5)       | (6)                   | (7)                   | (8)        | (9)              | (10)                  |
|----------|--|---|---------------------------|-----------|-----------------------|-----------------------|------------|------------------|-----------------------|
|          | Selected Age-to-Ultimate Development Factors |   |                           |           |                       |                       |            |                  |                       |
| Maturity | Third Party Liability - Bodily Injury        | Third Party Liability - Property Damage | Accident Benefits - Total | Collision | Comprehensive - Total | Comprehensive - Theft | All Perils | Specified Perils | Underinsured Motorist |
| 6        | 2.907  | 1.153                                   | 1.186                     | 0.686     | 1.018                 | 0.948                 | 0.844      | 0.915            | 7.828                 |
| 12       | 2.112  | 1.046                                   | 1.097                     | 0.903     | 0.998                 | 0.979                 | 0.921      | 0.984            | 2.875                 |
| 18       | 1.783  | 1.017                                   | 1.051                     | 0.974     | 0.999                 | 0.994                 | 0.975      | 0.994            | 2.152                 |
| 24       | 1.533  | 1.002                                   | 0.994                     | 0.990     | 1.000                 | 0.997                 | 0.990      | 0.997            | 1.818                 |
| 30       | 1.332  | 1.000                                   | 1.031                     | 0.997     | 0.999                 | 0.997                 | 0.998      | 0.999            | 1.394                 |
| 36       | 1.208  | 1.000                                   | 1.026                     | 0.999     | 0.999                 | 0.998                 | 0.998      | 0.999            | 1.167                 |
| 42       | 1.124  | 0.999                                   | 1.019                     | 0.999     | 0.999                 | 0.998                 | 0.998      | 1.000            | 1.059                 |
| 48       | 1.077  | 0.999                                   | 1.015                     | 0.999     | 0.999                 | 0.998                 | 0.998      | 1.001            | 1.026                 |
| 54       | 1.051  | 0.999                                   | 1.013                     | 0.999     | 1.000                 | 0.999                 | 0.999      | 1.001            | 1.019                 |
| 60       | 1.030  | 0.999                                   | 1.008                     | 0.999     | 1.000                 | 0.999                 | 1.000      | 1.001            | 0.983                 |
| 66       | 1.018  | 1.000                                   | 1.004                     | 1.000     | 1.000                 | 0.999                 | 1.000      | 1.001            | 0.978                 |
| 72       | 1.010  | 1.000                                   | 1.005                     | 1.000     | 1.000                 | 0.999                 | 1.000      | 1.000            | 0.955                 |
| 78       | 1.003  | 1.000                                   | 1.007                     | 1.000     | 1.000                 | 0.999                 | 1.000      | 1.000            | 0.968                 |
| 84       | 1.005  | 1.000                                   | 1.008                     | 1.000     | 1.000                 | 0.999                 | 1.000      | 1.000            | 0.971                 |
| 90       | 1.001  | 1.000                                   | 1.009                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.976                 |
| 96       | 1.001  | 1.000                                   | 1.009                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.974                 |
| 102      | 1.001  | 1.000                                   | 1.008                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.989                 |
| 108      | 1.000  | 1.000                                   | 1.008                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.978                 |
| 114      | 0.999  | 1.000                                   | 1.005                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.980                 |
| 120      | 0.999  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.988                 |
| 126      | 1.001  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.995                 |
| 132      | 0.999  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.987                 |
| 138      | 0.998  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.993                 |
| 144      | 0.999  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.996                 |
| 150      | 0.999  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 0.999                 |
| 156      | 0.999  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 162      | 0.999  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 168      | 0.999  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 174      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 180      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 186      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 192      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 198      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 204      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 210      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 216      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 222      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 228      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 234      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |
| 240      | 1.000  | 1.000                                   | 1.000                     | 1.000     | 1.000                 | 1.000                 | 1.000      | 1.000            | 1.000                 |



Province of Alberta  
Third Party Liability - Bodily Injury  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

Loss Cost Summary  
Data as of 30 Jun 2022

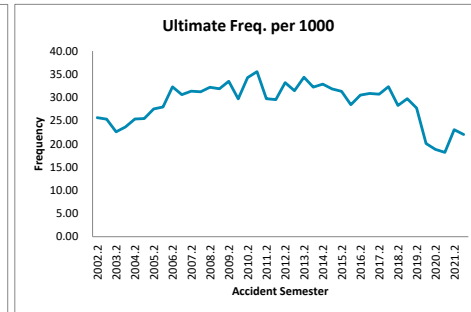
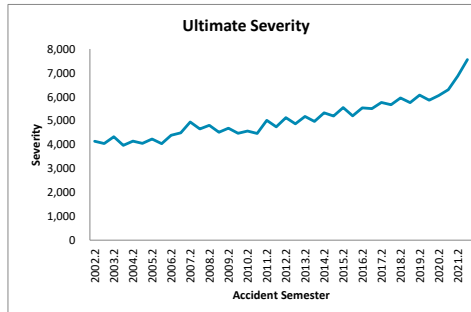
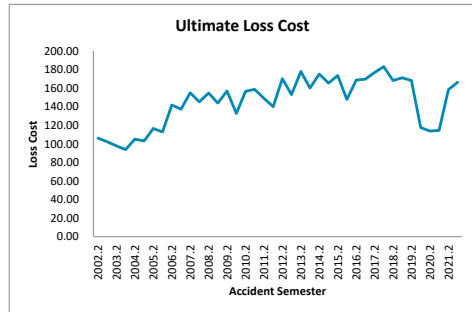
| (1)               | (2)                  | (3)              | (4)                   | (5)                                  | (6)             | (7)                               | (8)                | (9)                                   | (10)              | (11)                                  | (12)                    | (13)                                  | (14)                   | (15)                    |
|-------------------|----------------------|------------------|-----------------------|--------------------------------------|-----------------|-----------------------------------|--------------------|---------------------------------------|-------------------|---------------------------------------|-------------------------|---------------------------------------|------------------------|-------------------------|
| Accident Semester | Maturity (in Months) | Earned Car Years | Ultimate Claim Counts | Ultimate Claim Amount and ALAE (000) | ULAE Adjustment | Ultimate Claim Amount & LAE (000) | Ultimate Loss Cost | % Change Seasonal Accident Half Years | Ultimate Severity | % Change Seasonal Accident Half Years | Ultimate Freq. per 1000 | % Change Seasonal Accident Half Years | Annual Loss Cost & LAE | % Change Accident Years |
| 2002.2            | 240                  | 869,888          | 7,981                 | 332,222                              | 1,089           | 361,790                           | 415.90             |                                       | 45,331            |                                       | 9.17                    |                                       |                        |                         |
| 2003.1            | 234                  | 853,491          | 7,484                 | 284,490                              | 1,093           | 310,948                           | 364.33             |                                       | 41,548            |                                       | 8.77                    |                                       | 390.36                 |                         |
| 2003.2            | 228                  | 874,530          | 7,073                 | 292,026                              | 1,093           | 319,185                           | 364.98             | -12.2%                                | 45,127            | -0.5%                                 | 8.09                    | -11.8%                                |                        |                         |
| 2004.1            | 222                  | 861,318          | 6,596                 | 245,554                              | 1,103           | 270,847                           | 314.46             | -13.7%                                | 41,062            | -1.2%                                 | 7.66                    | -12.7%                                | 339.91                 | -12.9%                  |
| 2004.2            | 216                  | 888,607          | 6,836                 | 232,381                              | 1,103           | 256,316                           | 288.45             | -21.0%                                | 37,495            | -16.9%                                | 7.69                    | -4.9%                                 |                        |                         |
| 2005.1            | 210                  | 884,433          | 6,442                 | 188,356                              | 1,097           | 206,702                           | 233.71             | -25.7%                                | 32,087            | -21.9%                                | 7.28                    | -4.9%                                 | 261.14                 | -23.2%                  |
| 2005.2            | 204                  | 939,935          | 7,446                 | 218,754                              | 1,097           | 240,061                           | 255.40             | -11.5%                                | 32,241            | -14.0%                                | 7.92                    | 3.0%                                  |                        |                         |
| 2006.1            | 198                  | 945,687          | 6,859                 | 193,291                              | 1,087           | 210,011                           | 222.07             | -5.0%                                 | 30,619            | -4.6%                                 | 7.25                    | -0.4%                                 | 238.69                 | -8.6%                   |
| 2006.2            | 192                  | 1,001,659        | 7,636                 | 250,239                              | 1,087           | 271,884                           | 271.43             | 6.3%                                  | 35,606            | 10.4%                                 | 7.62                    | -3.8%                                 |                        |                         |
| 2007.1            | 186                  | 1,002,163        | 6,661                 | 201,325                              | 1,089           | 219,203                           | 218.73             | -1.5%                                 | 32,909            | 7.5%                                  | 6.65                    | -8.4%                                 | 245.08                 | 2.7%                    |
| 2007.2            | 180                  | 1,056,585        | 7,050                 | 256,490                              | 1,089           | 279,267                           | 264.31             | -2.6%                                 | 39,613            | 11.3%                                 | 6.67                    | -12.5%                                |                        |                         |
| 2008.1            | 174                  | 1,052,596        | 6,471                 | 229,425                              | 1,084           | 248,605                           | 236.18             | 8.0%                                  | 38,419            | 16.7%                                 | 6.15                    | -7.5%                                 | 250.27                 | 2.1%                    |
| 2008.2            | 168                  | 1,097,151        | 6,777                 | 262,022                              | 1,084           | 283,927                           | 258.79             | -2.1%                                 | 41,898            | 5.8%                                  | 6.18                    | -7.4%                                 |                        |                         |
| 2009.1            | 162                  | 1,079,662        | 6,201                 | 210,711                              | 1,105           | 232,857                           | 215.68             | -8.7%                                 | 37,553            | -2.3%                                 | 5.74                    | -6.6%                                 | 237.40                 | -5.1%                   |
| 2009.2            | 156                  | 1,119,138        | 7,035                 | 265,713                              | 1,105           | 293,639                           | 262.38             | 1.4%                                  | 41,737            | -0.4%                                 | 6.29                    | 1.8%                                  |                        |                         |
| 2010.1            | 150                  | 1,100,167        | 6,184                 | 191,978                              | 1,102           | 211,502                           | 192.25             | -10.9%                                | 34,204            | -8.9%                                 | 5.62                    | -2.1%                                 | 227.61                 | -4.1%                   |
| 2010.2            | 144                  | 1,147,127        | 7,448                 | 274,150                              | 1,102           | 302,031                           | 263.29             | 0.3%                                  | 40,550            | -2.8%                                 | 6.49                    | 3.3%                                  |                        |                         |
| 2011.1            | 138                  | 1,128,675        | 7,014                 | 224,571                              | 1,095           | 245,793                           | 217.77             | 13.3%                                 | 35,045            | 2.5%                                  | 6.21                    | 10.6%                                 | 240.72                 | 5.8%                    |
| 2011.2            | 132                  | 1,178,554        | 7,010                 | 292,696                              | 1,095           | 320,356                           | 271.82             | 3.2%                                  | 45,701            | 12.7%                                 | 5.95                    | -8.4%                                 |                        |                         |
| 2012.1            | 126                  | 1,171,059        | 6,656                 | 270,427                              | 1,091           | 295,090                           | 251.99             | 15.7%                                 | 44,333            | 26.5%                                 | 5.68                    | -8.5%                                 | 261.93                 | 8.8%                    |
| 2012.2            | 120                  | 1,220,907        | 7,742                 | 326,732                              | 1,091           | 356,530                           | 292.02             | 7.4%                                  | 46,052            | 0.8%                                  | 6.34                    | 6.6%                                  |                        |                         |
| 2013.1            | 114                  | 1,210,576        | 7,170                 | 293,078                              | 1,099           | 322,229                           | 266.16             | 5.6%                                  | 44,941            | 1.4%                                  | 5.92                    | 4.2%                                  | 279.15                 | 6.6%                    |
| 2013.2            | 108                  | 1,269,781        | 8,614                 | 366,811                              | 1,099           | 403,296                           | 317.61             | 8.8%                                  | 46,817            | 1.7%                                  | 6.78                    | 7.0%                                  |                        |                         |
| 2014.1            | 102                  | 1,257,016        | 7,564                 | 312,260                              | 1,093           | 341,331                           | 271.54             | 2.0%                                  | 45,129            | 0.4%                                  | 6.02                    | 1.6%                                  | 294.69                 | 5.6%                    |
| 2014.2            | 96                   | 1,319,708        | 8,816                 | 418,393                              | 1,093           | 457,345                           | 346.55             | 9.1%                                  | 51,879            | 10.8%                                 | 6.68                    | -1.5%                                 |                        |                         |
| 2015.1            | 90                   | 1,302,828        | 8,085                 | 374,720                              | 1,103           | 413,278                           | 317.22             | 16.8%                                 | 51,114            | 13.3%                                 | 6.21                    | 3.1%                                  | 331.98                 | 12.7%                   |
| 2015.2            | 84                   | 1,349,391        | 8,814                 | 467,189                              | 1,103           | 515,263                           | 381.85             | 10.2%                                 | 58,461            | 12.7%                                 | 6.53                    | -2.2%                                 |                        |                         |
| 2016.1            | 78                   | 1,324,195        | 7,741                 | 411,237                              | 1,085           | 446,151                           | 336.92             | 6.2%                                  | 57,631            | 12.8%                                 | 5.85                    | -5.8%                                 | 359.60                 | 8.3%                    |
| 2016.2            | 72                   | 1,354,520        | 9,029                 | 511,806                              | 1,085           | 555,259                           | 409.93             | 7.4%                                  | 61,501            | 5.2%                                  | 6.67                    | 2.0%                                  |                        |                         |
| 2017.1            | 66                   | 1,323,275        | 8,571                 | 448,943                              | 1,092           | 490,022                           | 370.31             | 9.9%                                  | 57,174            | -0.8%                                 | 6.48                    | 10.8%                                 | 390.35                 | 8.6%                    |
| 2017.2            | 60                   | 1,369,366        | 8,991                 | 522,990                              | 1,092           | 570,844                           | 416.87             | 1.7%                                  | 63,491            | 3.2%                                  | 6.57                    | -1.5%                                 |                        |                         |
| 2018.1            | 54                   | 1,348,593        | 8,634                 | 493,995                              | 1,101           | 543,740                           | 403.19             | 8.9%                                  | 62,977            | 10.1%                                 | 6.40                    | -1.2%                                 | 410.08                 | 5.1%                    |
| 2018.2            | 48                   | 1,399,113        | 8,744                 | 561,140                              | 1,101           | 617,647                           | 441.46             | 5.9%                                  | 70,638            | 11.3%                                 | 6.25                    | -4.8%                                 |                        |                         |
| 2019.1            | 42                   | 1,372,089        | 8,853                 | 547,692                              | 1,108           | 606,843                           | 442.28             | 9.7%                                  | 68,545            | 8.8%                                  | 6.45                    | 0.8%                                  | 441.86                 | 7.7%                    |
| 2019.2            | 36                   | 1,410,707        | 9,061                 | 613,371                              | 1,108           | 679,615                           | 481.75             | 9.1%                                  | 75,008            | 6.2%                                  | 6.42                    | 2.8%                                  |                        |                         |
| 2020.1            | 30                   | 1,371,335        | 5,881                 | 414,853                              | 1,103           | 457,451                           | 333.58             | -24.6%                                | 77,779            | 13.5%                                 | 4.29                    | -33.5%                                | 408.72                 | -7.5%                   |
| 2020.2            | 24                   | 1,408,911        | 6,214                 | 450,651                              | 1,103           | 496,925                           | 352.70             | -26.8%                                | 79,974            | 6.6%                                  | 4.41                    | -31.3%                                |                        |                         |
| 2021.1            | 18                   | 1,380,710        | 5,748                 | 366,990                              | 1,126           | 413,320                           | 299.35             | -10.3%                                | 71,904            | -7.6%                                 | 4.16                    | -2.9%                                 | 326.30                 | -20.2%                  |
| 2021.2            | 12                   | 1,426,285        | 7,637                 | 482,864                              | 1,126           | 543,822                           | 381.29             | 8.1%                                  | 71,209            | -11.0%                                | 5.35                    | 21.4%                                 |                        |                         |
| 2022.1            | 6                    | 1,395,873        | 5,316                 | 343,535                              | 1,126           | 386,905                           | 277.18             | -7.4%                                 | 72,785            | 1.2%                                  | 3.81                    | -8.5%                                 | 329.79                 | 1.1%                    |
| Total             |                      | 47,067,604       | 296,082               | 13,846,071                           |                 | 14,997,827                        |                    |                                       |                   |                                       |                         |                                       |                        |                         |



Province of Alberta  
Third Party Liability - Property Damage  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

Loss Cost Summary  
Data as of 30 Jun 2022

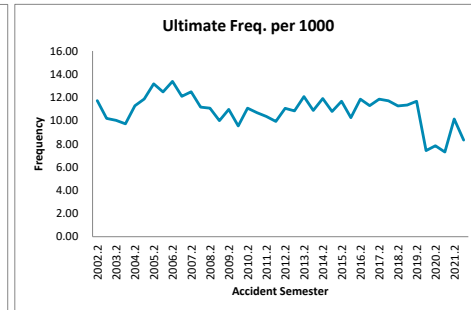
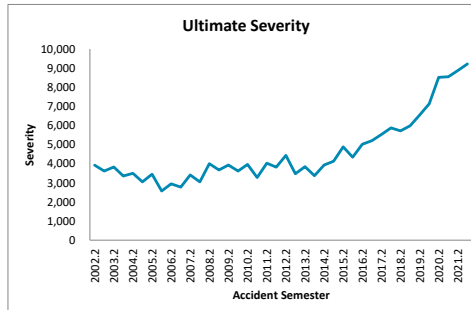
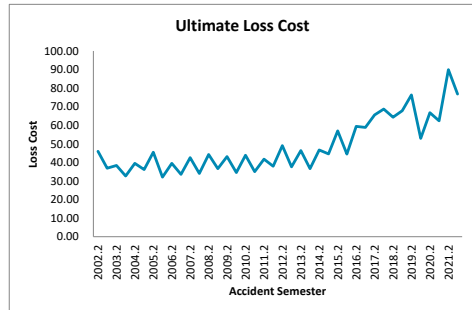
| (1)               | (2)                  | (3)              | (4)                   | (5)                                  | (6)             | (7)                               | (8)                | (9)                                   | (10)              | (11)                                  | (12)                    | (13)                                  | (14)                   | (15)                    |
|-------------------|----------------------|------------------|-----------------------|--------------------------------------|-----------------|-----------------------------------|--------------------|---------------------------------------|-------------------|---------------------------------------|-------------------------|---------------------------------------|------------------------|-------------------------|
| Accident Semester | Maturity (in Months) | Earned Car Years | Ultimate Claim Counts | Ultimate Claim Amount and ALAE (000) | ULAE Adjustment | Ultimate Claim Amount & LAE (000) | Ultimate Loss Cost | % Change Seasonal Accident Half Years | Ultimate Severity | % Change Seasonal Accident Half Years | Ultimate Freq. per 1000 | % Change Seasonal Accident Half Years | Annual Loss Cost & LAE | % Change Accident Years |
| 2002.2            | 240                  | 869,888          | 22,311                | 84,764                               | 1.089           | 92,308                            | 106.11             |                                       | 4,137             |                                       | 25.65                   |                                       |                        |                         |
| 2003.1            | 234                  | 853,491          | 21,591                | 79,853                               | 1.093           | 87,279                            | 102.26             |                                       | 4,042             |                                       | 25.30                   |                                       | 104.21                 |                         |
| 2003.2            | 228                  | 874,530          | 19,748                | 78,167                               | 1.093           | 85,437                            | 97.69              | -7.9%                                 | 4,326             | 4.6%                                  | 22.58                   | -12.0%                                |                        |                         |
| 2004.1            | 222                  | 861,318          | 20,359                | 73,246                               | 1.103           | 80,790                            | 93.80              | -8.3%                                 | 3,968             | -1.8%                                 | 23.64                   | -6.6%                                 | 95.76                  | -8.1%                   |
| 2004.2            | 216                  | 888,607          | 22,514                | 84,640                               | 1.103           | 93,358                            | 105.06             | 7.5%                                  | 4,147             | -4.2%                                 | 25.34                   | 12.2%                                 |                        |                         |
| 2005.1            | 210                  | 884,433          | 22,494                | 83,059                               | 1.097           | 91,149                            | 103.06             | 9.9%                                  | 4,052             | 2.1%                                  | 25.43                   | 7.6%                                  | 104.06                 | 8.7%                    |
| 2005.2            | 204                  | 939,935          | 25,852                | 99,750                               | 1.097           | 109,466                           | 116.46             | 10.9%                                 | 4,234             | 2.1%                                  | 27.50                   | 8.6%                                  |                        |                         |
| 2006.1            | 198                  | 945,687          | 26,425                | 98,202                               | 1.087           | 106,697                           | 112.82             | 9.5%                                  | 4,038             | -0.4%                                 | 27.94                   | 9.9%                                  | 114.64                 | 10.2%                   |
| 2006.2            | 192                  | 1,001,659        | 32,321                | 130,655                              | 1.087           | 141,957                           | 141.72             | 21.7%                                 | 4,392             | 3.7%                                  | 32.27                   | 17.3%                                 |                        |                         |
| 2007.1            | 186                  | 1,002,163        | 30,643                | 126,376                              | 1.089           | 137,599                           | 137.30             | 21.7%                                 | 4,490             | 11.2%                                 | 30.58                   | 9.4%                                  | 139.51                 | 21.7%                   |
| 2007.2            | 180                  | 1,056,585        | 33,104                | 150,265                              | 1.089           | 163,608                           | 154.85             | 9.3%                                  | 4,942             | 12.5%                                 | 31.33                   | -2.9%                                 |                        |                         |
| 2008.1            | 174                  | 1,052,596        | 32,851                | 141,016                              | 1.084           | 152,805                           | 145.17             | 5.7%                                  | 4,651             | 3.6%                                  | 31.21                   | 2.1%                                  | 150.02                 | 7.5%                    |
| 2008.2            | 168                  | 1,097,151        | 35,309                | 156,642                              | 1.084           | 169,738                           | 154.71             | -0.1%                                 | 4,807             | -2.7%                                 | 32.18                   | 2.7%                                  |                        |                         |
| 2009.1            | 162                  | 1,079,662        | 34,399                | 140,589                              | 1.105           | 155,365                           | 143.90             | -0.9%                                 | 4,517             | -2.9%                                 | 31.86                   | 2.1%                                  | 149.35                 | -0.4%                   |
| 2009.2            | 156                  | 1,119,138        | 37,467                | 158,899                              | 1.105           | 175,599                           | 156.91             | 1.4%                                  | 4,687             | -2.5%                                 | 33.48                   | 4.0%                                  |                        |                         |
| 2010.1            | 150                  | 1,100,167        | 32,648                | 132,574                              | 1.102           | 146,056                           | 132.76             | -7.7%                                 | 4,474             | -1.0%                                 | 29.68                   | -6.9%                                 | 144.94                 | -3.0%                   |
| 2010.2            | 144                  | 1,147,127        | 39,310                | 162,926                              | 1.102           | 179,496                           | 156.47             | -0.3%                                 | 4,566             | -2.6%                                 | 34.27                   | 2.4%                                  |                        |                         |
| 2011.1            | 138                  | 1,128,675        | 40,119                | 163,580                              | 1.095           | 179,038                           | 158.63             | 19.5%                                 | 4,463             | -0.2%                                 | 35.55                   | 19.8%                                 | 157.54                 | 8.7%                    |
| 2011.2            | 132                  | 1,178,554        | 35,009                | 160,424                              | 1.095           | 175,584                           | 148.98             | -4.8%                                 | 5,015             | 9.8%                                  | 29.71                   | -13.3%                                |                        |                         |
| 2012.1            | 126                  | 1,171,059        | 34,574                | 150,263                              | 1.091           | 163,967                           | 140.02             | -11.7%                                | 4,742             | 6.3%                                  | 29.52                   | -16.9%                                | 144.51                 | -8.3%                   |
| 2012.2            | 120                  | 1,220,907        | 40,522                | 190,263                              | 1.091           | 207,615                           | 170.05             | 14.1%                                 | 5,124             | 2.2%                                  | 33.19                   | 11.7%                                 |                        |                         |
| 2013.1            | 114                  | 1,210,576        | 38,044                | 186,505                              | 1.099           | 185,265                           | 153.04             | 9.3%                                  | 4,870             | 2.7%                                  | 31.43                   | 6.4%                                  | 161.58                 | 11.8%                   |
| 2013.2            | 108                  | 1,269,781        | 43,628                | 205,422                              | 1.099           | 225,854                           | 177.87             | 4.6%                                  | 5,177             | 1.0%                                  | 34.36                   | 3.5%                                  |                        |                         |
| 2014.1            | 102                  | 1,257,016        | 40,473                | 184,006                              | 1.093           | 201,137                           | 160.01             | 4.6%                                  | 4,970             | 2.1%                                  | 32.20                   | 2.5%                                  | 168.99                 | 4.6%                    |
| 2014.2            | 96                   | 1,319,708        | 43,370                | 211,470                              | 1.093           | 231,157                           | 175.16             | -1.5%                                 | 5,330             | 3.0%                                  | 32.86                   | -4.4%                                 |                        |                         |
| 2015.1            | 90                   | 1,302,828        | 41,468                | 195,382                              | 1.103           | 215,487                           | 165.40             | 3.4%                                  | 5,196             | 4.6%                                  | 31.83                   | -1.1%                                 | 170.31                 | 0.8%                    |
| 2015.2            | 84                   | 1,349,391        | 42,229                | 212,358                              | 1.103           | 234,210                           | 173.57             | -0.9%                                 | 5,546             | 4.1%                                  | 31.29                   | -4.8%                                 |                        |                         |
| 2016.1            | 78                   | 1,324,195        | 37,627                | 180,311                              | 1.085           | 195,619                           | 147.73             | -10.7%                                | 5,199             | 0.0%                                  | 28.41                   | -10.7%                                | 160.77                 | -5.6%                   |
| 2016.2            | 72                   | 1,354,520        | 41,291                | 210,599                              | 1.085           | 228,479                           | 168.68             | -2.8%                                 | 5,533             | -0.2%                                 | 30.48                   | -2.6%                                 |                        |                         |
| 2017.1            | 66                   | 1,323,275        | 40,805                | 205,684                              | 1.092           | 224,504                           | 169.66             | 14.8%                                 | 5,502             | 5.8%                                  | 30.84                   | 8.5%                                  | 169.16                 | 5.2%                    |
| 2017.2            | 60                   | 1,369,366        | 42,015                | 221,822                              | 1.092           | 242,119                           | 176.81             | 4.8%                                  | 5,763             | 4.1%                                  | 30.68                   | 0.6%                                  |                        |                         |
| 2018.1            | 54                   | 1,348,593        | 43,569                | 224,326                              | 1.101           | 246,916                           | 183.09             | 7.9%                                  | 5,667             | 3.0%                                  | 32.31                   | 4.8%                                  | 179.93                 | 6.4%                    |
| 2018.2            | 48                   | 1,399,113        | 39,560                | 213,788                              | 1.101           | 235,316                           | 168.19             | -4.9%                                 | 5,948             | 3.2%                                  | 28.27                   | -7.8%                                 |                        |                         |
| 2019.1            | 42                   | 1,372,089        | 40,786                | 211,965                              | 1.108           | 234,857                           | 171.17             | -6.5%                                 | 5,758             | 1.6%                                  | 29.73                   | -8.0%                                 | 169.66                 | -5.7%                   |
| 2019.2            | 36                   | 1,410,707        | 39,075                | 214,141                              | 1.108           | 237,268                           | 168.19             | 0.0%                                  | 6,072             | 2.1%                                  | 27.70                   | -2.0%                                 |                        |                         |
| 2020.1            | 30                   | 1,371,335        | 27,499                | 146,027                              | 1.103           | 161,021                           | 117.42             | -31.4%                                | 5,856             | 1.7%                                  | 20.05                   | -32.5%                                | 143.16                 | -15.6%                  |
| 2020.2            | 24                   | 1,408,911        | 26,496                | 145,344                              | 1.103           | 160,268                           | 113.75             | -32.4%                                | 6,049             | -0.4%                                 | 18.81                   | -32.1%                                |                        |                         |
| 2021.1            | 18                   | 1,380,710        | 25,069                | 140,186                              | 1.126           | 157,883                           | 114.35             | -2.6%                                 | 6,298             | 7.6%                                  | 18.16                   | -9.5%                                 | 114.05                 | -20.3%                  |
| 2021.2            | 12                   | 1,426,285        | 32,884                | 200,564                              | 1.126           | 225,884                           | 158.37             | 39.2%                                 | 6,869             | 13.6%                                 | 23.06                   | 22.6%                                 |                        |                         |
| 2022.1            | 6                    | 1,395,873        | 30,729                | 206,128                              | 1.126           | 232,151                           | 166.31             |                                       | 7,555             | 20.0%                                 | 22.01                   | 21.2%                                 | 162.30                 | 42.3%                   |
| Total             |                      | 47,067,604       | 1,356,187             | 6,344,180                            |                 | 6,970,306                         |                    |                                       |                   |                                       |                         |                                       |                        |                         |



Province of Alberta  
Accident Benefits - Total  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

Loss Cost Summary  
Data as of 30 Jun 2022

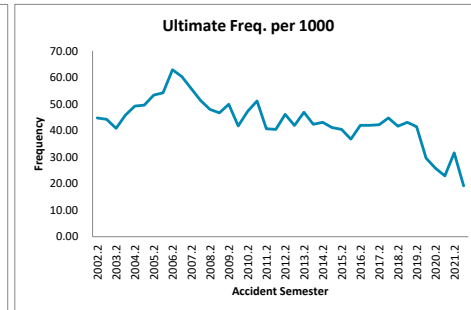
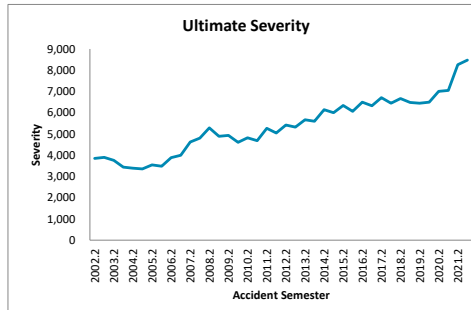
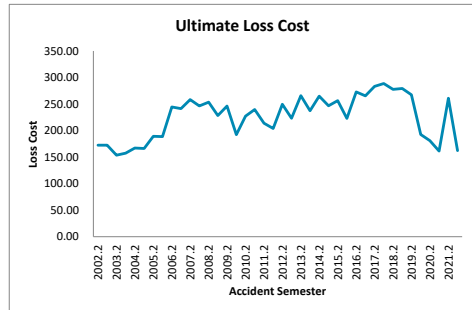
| (1)               | (2)                  | (3)              | (4)                   | (5)                                  | (6)             | (7)                               | (8)                | (9)                                   | (10)              | (11)                                  | (12)                    | (13)                                  | (14)                   | (15)                    |
|-------------------|----------------------|------------------|-----------------------|--------------------------------------|-----------------|-----------------------------------|--------------------|---------------------------------------|-------------------|---------------------------------------|-------------------------|---------------------------------------|------------------------|-------------------------|
| Accident Semester | Maturity (in Months) | Earned Car Years | Ultimate Claim Counts | Ultimate Claim Amount and ALAE (000) | ULAE Adjustment | Ultimate Claim Amount & LAE (000) | Ultimate Loss Cost | % Change Seasonal Accident Half Years | Ultimate Severity | % Change Seasonal Accident Half Years | Ultimate Freq. per 1000 | % Change Seasonal Accident Half Years | Annual Loss Cost & LAE | % Change Accident Years |
| 2002.2            | 240                  | 869,521          | 10,187                | 36,695                               | 1.089           | 39,961                            | 45.96              |                                       | 3,923             |                                       | 11.72                   |                                       |                        |                         |
| 2003.1            | 234                  | 853,159          | 8,697                 | 28,761                               | 1.093           | 31,436                            | 36.85              |                                       | 3,615             |                                       | 10.19                   |                                       | 41.45                  |                         |
| 2003.2            | 228                  | 875,870          | 8,776                 | 30,707                               | 1.093           | 33,563                            | 38.32              | -16.6%                                | 3,824             | -2.5%                                 | 10.02                   | -14.5%                                |                        |                         |
| 2004.1            | 222                  | 864,304          | 8,406                 | 25,600                               | 1.103           | 28,236                            | 32.67              | -11.3%                                | 3,359             | -7.1%                                 | 9.73                    | -4.6%                                 | 35.51                  | -14.3%                  |
| 2004.2            | 216                  | 893,639          | 10,077                | 31,950                               | 1.103           | 35,241                            | 39.44              | 2.9%                                  | 3,497             | -8.6%                                 | 11.28                   | 12.5%                                 |                        |                         |
| 2005.1            | 210                  | 888,576          | 10,544                | 29,260                               | 1.097           | 32,110                            | 36.14              | 10.6%                                 | 3,045             | -9.3%                                 | 11.87                   | 22.0%                                 | 37.79                  | 6.4%                    |
| 2005.2            | 204                  | 941,651          | 12,400                | 38,993                               | 1.097           | 42,790                            | 45.44              | 15.2%                                 | 3,451             | -1.3%                                 | 13.17                   | 16.8%                                 |                        |                         |
| 2006.1            | 198                  | 945,399          | 11,793                | 27,918                               | 1.087           | 30,333                            | 32.08              | -11.2%                                | 2,572             | -15.5%                                | 12.47                   | 5.1%                                  | 38.75                  | 2.5%                    |
| 2006.2            | 192                  | 1,000,816        | 13,388                | 36,355                               | 1.087           | 39,500                            | 39.47              | -13.1%                                | 2,950             | -14.5%                                | 13.38                   | 1.6%                                  |                        |                         |
| 2007.1            | 186                  | 1,001,482        | 12,116                | 30,836                               | 1.089           | 33,574                            | 33.52              | 4.5%                                  | 2,771             | 7.7%                                  | 12.10                   | -3.0%                                 | 36.50                  | -5.8%                   |
| 2007.2            | 180                  | 1,056,480        | 13,185                | 41,280                               | 1.089           | 44,945                            | 42.54              | 7.8%                                  | 3,409             | 15.5%                                 | 12.48                   | -6.7%                                 |                        |                         |
| 2008.1            | 174                  | 1,053,269        | 11,753                | 33,097                               | 1.084           | 35,864                            | 34.05              | 1.6%                                  | 3,051             | 10.1%                                 | 11.16                   | -7.8%                                 | 38.30                  | 5.0%                    |
| 2008.2            | 168                  | 1,098,120        | 12,152                | 44,826                               | 1.084           | 48,574                            | 44.23              | 4.0%                                  | 3,997             | 17.3%                                 | 11.07                   | -11.3%                                |                        |                         |
| 2009.1            | 162                  | 1,080,605        | 10,798                | 35,857                               | 1.105           | 39,625                            | 36.67              | 7.7%                                  | 3,670             | 20.3%                                 | 9.99                    | -10.4%                                | 40.48                  | 5.7%                    |
| 2009.2            | 156                  | 1,119,821        | 12,288                | 43,716                               | 1.105           | 48,311                            | 43.14              | -2.5%                                 | 3,932             | -1.6%                                 | 10.97                   | -0.8%                                 |                        |                         |
| 2010.1            | 150                  | 1,100,484        | 10,503                | 34,467                               | 1.102           | 37,973                            | 34.51              | -5.9%                                 | 3,615             | -1.5%                                 | 9.54                    | -4.5%                                 | 38.86                  | -4.0%                   |
| 2010.2            | 144                  | 1,147,365        | 12,705                | 45,647                               | 1.102           | 50,290                            | 43.83              | 1.6%                                  | 3,958             | 0.7%                                  | 11.07                   | 0.9%                                  |                        |                         |
| 2011.1            | 138                  | 1,128,483        | 12,055                | 36,098                               | 1.095           | 39,509                            | 35.01              | 1.5%                                  | 3,277             | -9.3%                                 | 10.68                   | 11.9%                                 | 39.46                  | 1.5%                    |
| 2011.2            | 132                  | 1,178,585        | 12,214                | 44,920                               | 1.095           | 49,165                            | 41.72              | -4.8%                                 | 4,025             | 1.7%                                  | 10.36                   | -6.4%                                 |                        |                         |
| 2012.1            | 126                  | 1,171,425        | 11,638                | 40,708                               | 1.091           | 44,421                            | 37.92              | 8.3%                                  | 3,817             | 16.5%                                 | 9.93                    | -7.0%                                 | 39.82                  | 0.9%                    |
| 2012.2            | 120                  | 1,221,821        | 13,507                | 54,854                               | 1.091           | 59,857                            | 48.99              | 17.4%                                 | 4,431             | 10.1%                                 | 11.05                   | 6.7%                                  |                        |                         |
| 2013.1            | 114                  | 1,211,526        | 13,132                | 41,484                               | 1.099           | 45,611                            | 37.65              | -0.7%                                 | 3,473             | -9.0%                                 | 10.84                   | 9.1%                                  | 43.34                  | 8.8%                    |
| 2013.2            | 108                  | 1,270,776        | 15,333                | 53,569                               | 1.099           | 58,898                            | 46.35              | -5.4%                                 | 3,841             | -13.3%                                | 12.07                   | 9.1%                                  |                        |                         |
| 2014.1            | 102                  | 1,257,885        | 13,675                | 42,158                               | 1.093           | 46,083                            | 36.64              | -2.7%                                 | 3,370             | -3.0%                                 | 10.87                   | 0.3%                                  | 41.52                  | -4.2%                   |
| 2014.2            | 96                   | 1,319,427        | 15,696                | 56,391                               | 1.093           | 61,641                            | 46.72              | 0.8%                                  | 3,927             | 2.2%                                  | 11.90                   | -1.4%                                 |                        |                         |
| 2015.1            | 90                   | 1,301,686        | 14,044                | 52,581                               | 1.103           | 57,992                            | 44.55              | 21.6%                                 | 4,129             | 22.5%                                 | 10.79                   | -0.8%                                 | 45.64                  | 9.9%                    |
| 2015.2            | 84                   | 1,347,550        | 15,723                | 69,581                               | 1.103           | 76,741                            | 56.95              | 21.9%                                 | 4,881             | 24.3%                                 | 11.67                   | -1.9%                                 |                        |                         |
| 2016.1            | 78                   | 1,322,772        | 13,569                | 54,283                               | 1.085           | 58,891                            | 44.52              | -0.1%                                 | 4,340             | 5.1%                                  | 10.26                   | -4.9%                                 | 50.79                  | 11.3%                   |
| 2016.2            | 72                   | 1,354,711        | 16,057                | 74,190                               | 1.085           | 80,489                            | 59.41              | 4.3%                                  | 5,013             | 2.7%                                  | 11.85                   | 1.6%                                  |                        |                         |
| 2017.1            | 66                   | 1,324,301        | 14,961                | 71,337                               | 1.092           | 77,864                            | 58.80              | 32.1%                                 | 5,204             | 19.9%                                 | 11.30                   | 10.1%                                 | 59.11                  | 16.4%                   |
| 2017.2            | 60                   | 1,370,730        | 16,247                | 82,326                               | 1.092           | 89,859                            | 65.56              | 10.3%                                 | 5,531             | 10.3%                                 | 11.85                   | 0.0%                                  |                        |                         |
| 2018.1            | 54                   | 1,350,069        | 15,800                | 84,273                               | 1.101           | 92,759                            | 68.71              | 16.9%                                 | 5,871             | 12.8%                                 | 11.70                   | 3.6%                                  | 67.12                  | 13.6%                   |
| 2018.2            | 48                   | 1,400,293        | 15,769                | 81,839                               | 1.101           | 90,080                            | 64.33              | -1.9%                                 | 5,712             | 3.3%                                  | 11.26                   | -5.0%                                 |                        |                         |
| 2019.1            | 42                   | 1,372,000        | 15,561                | 84,020                               | 1.108           | 93,094                            | 67.85              | -1.2%                                 | 5,982             | 1.9%                                  | 11.34                   | -3.1%                                 | 66.07                  | -1.6%                   |
| 2019.2            | 36                   | 1,411,043        | 16,455                | 97,156                               | 1.108           | 107,648                           | 76.29              | 18.6%                                 | 6,542             | 14.5%                                 | 11.66                   | 3.6%                                  |                        |                         |
| 2020.1            | 30                   | 1,371,628        | 10,175                | 65,775                               | 1.103           | 72,529                            | 52.88              | -22.1%                                | 7,128             | 19.2%                                 | 7.42                    | -34.6%                                | 64.75                  | -2.0%                   |
| 2020.2            | 24                   | 1,408,969        | 11,044                | 85,274                               | 1.103           | 94,030                            | 66.74              | -12.5%                                | 8,514             | 30.2%                                 | 7.84                    | -32.8%                                |                        |                         |
| 2021.1            | 18                   | 1,381,076        | 10,077                | 76,460                               | 1.126           | 86,112                            | 62.35              | 17.9%                                 | 8,546             | 19.9%                                 | 7.30                    | -1.6%                                 | 64.57                  | -0.3%                   |
| 2021.2            | 12                   | 1,427,056        | 14,470                | 113,951                              | 1.126           | 128,337                           | 89.93              | 34.8%                                 | 8,869             | 4.2%                                  | 10.14                   | 29.4%                                 |                        |                         |
| 2022.1            | 6                    | 1,395,564        | 11,624                | 95,127                               | 1.126           | 107,137                           | 76.77              | 23.1%                                 | 9,217             | 7.9%                                  | 8.33                    | 14.2%                                 | 83.42                  | 29.2%                   |
| Total             |                      | 47,089,935       | 508,596               | 2,154,321                            |                 | 2,371,073                         |                    |                                       |                   |                                       |                         |                                       |                        |                         |



Province of Alberta  
Collision  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

Loss Cost Summary  
Data as of 30 Jun 2022

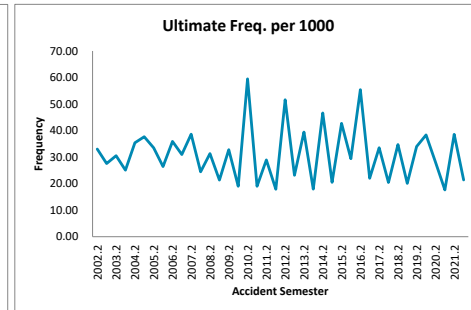
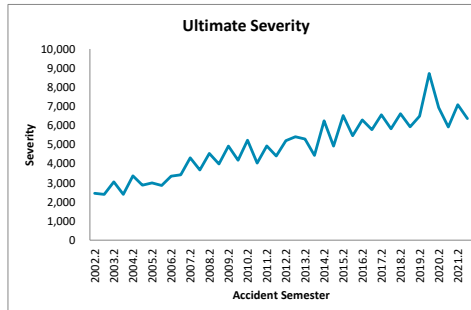
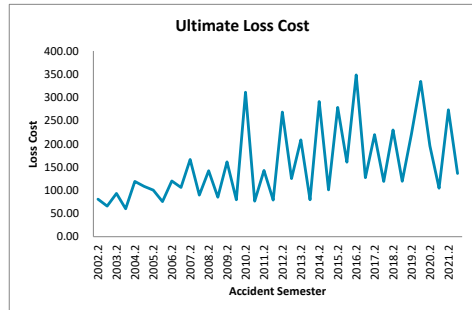
| (1)               | (2)                  | (3)              | (4)                   | (5)                                  | (6)             | (7)                               | (8)                | (9)                                   | (10)              | (11)                                  | (12)                    | (13)                                  | (14)                   | (15)                    |
|-------------------|----------------------|------------------|-----------------------|--------------------------------------|-----------------|-----------------------------------|--------------------|---------------------------------------|-------------------|---------------------------------------|-------------------------|---------------------------------------|------------------------|-------------------------|
| Accident Semester | Maturity (in Months) | Earned Car Years | Ultimate Claim Counts | Ultimate Claim Amount and ALAE (000) | ULAE Adjustment | Ultimate Claim Amount & LAE (000) | Ultimate Loss Cost | % Change Seasonal Accident Half Years | Ultimate Severity | % Change Seasonal Accident Half Years | Ultimate Freq. per 1000 | % Change Seasonal Accident Half Years | Annual Loss Cost & LAE | % Change Accident Years |
| 2002.2            | 240                  | 608,784          | 27,239                | 96,345                               | 1.089           | 104,920                           | 172.34             |                                       | 3,852             |                                       | 44.74                   |                                       |                        |                         |
| 2003.1            | 234                  | 601,882          | 26,632                | 94,905                               | 1.093           | 103,731                           | 172.34             |                                       | 3,895             |                                       | 44.25                   |                                       | 172.34                 |                         |
| 2003.2            | 228                  | 621,939          | 25,412                | 87,392                               | 1.093           | 95,520                            | 153.58             | -10.9%                                | 3,759             | -2.4%                                 | 40.86                   | -8.7%                                 |                        |                         |
| 2004.1            | 222                  | 618,616          | 28,349                | 88,273                               | 1.103           | 97,365                            | 157.39             | -8.7%                                 | 3,435             | -11.8%                                | 45.83                   | 3.6%                                  | 155.48                 | -9.8%                   |
| 2004.2            | 216                  | 642,167          | 31,610                | 97,192                               | 1.103           | 107,203                           | 166.94             | 8.7%                                  | 3,391             | -9.8%                                 | 49.22                   | 20.5%                                 |                        |                         |
| 2005.1            | 210                  | 647,383          | 32,092                | 98,079                               | 1.097           | 107,632                           | 166.26             | 5.6%                                  | 3,354             | -2.3%                                 | 49.57                   | 8.2%                                  | 166.60                 | 7.1%                    |
| 2005.2            | 204                  | 687,146          | 36,677                | 118,375                              | 1.097           | 129,905                           | 189.05             | 13.2%                                 | 3,542             | 4.4%                                  | 53.38                   | 8.4%                                  |                        |                         |
| 2006.1            | 198                  | 696,013          | 37,741                | 120,847                              | 1.087           | 131,300                           | 188.65             | 13.5%                                 | 3,479             | 3.7%                                  | 54.23                   | 9.4%                                  | 188.85                 | 13.4%                   |
| 2006.2            | 192                  | 741,282          | 46,632                | 166,712                              | 1.087           | 181,133                           | 244.35             | 29.3%                                 | 3,884             | 9.7%                                  | 62.91                   | 17.9%                                 |                        |                         |
| 2007.1            | 186                  | 750,060          | 45,254                | 166,219                              | 1.089           | 180,979                           | 241.29             | 27.9%                                 | 3,999             | 15.0%                                 | 60.33                   | 11.3%                                 | 242.81                 | 28.6%                   |
| 2007.2            | 180                  | 792,471          | 44,265                | 187,943                              | 1.089           | 204,633                           | 258.22             | 5.7%                                  | 4,623             | 19.0%                                 | 55.86                   | -11.2%                                |                        |                         |
| 2008.1            | 174                  | 798,345          | 40,953                | 181,609                              | 1.084           | 196,792                           | 246.50             | 2.2%                                  | 4,805             | 20.2%                                 | 51.30                   | -15.0%                                | 252.34                 | 3.9%                    |
| 2008.2            | 168                  | 834,468          | 40,019                | 195,129                              | 1.084           | 211,442                           | 253.38             | -1.9%                                 | 5,284             | 14.3%                                 | 47.96                   | -14.1%                                |                        |                         |
| 2009.1            | 162                  | 823,603          | 38,448                | 170,086                              | 1.105           | 187,962                           | 228.22             | -7.4%                                 | 4,889             | 1.7%                                  | 46.68                   | -9.0%                                 | 240.88                 | -4.5%                   |
| 2009.2            | 156                  | 845,121          | 42,191                | 188,211                              | 1.105           | 207,992                           | 246.11             | -2.9%                                 | 4,930             | -6.7%                                 | 49.92                   | 4.1%                                  |                        |                         |
| 2010.1            | 150                  | 828,624          | 34,580                | 144,608                              | 1.102           | 159,315                           | 192.26             | -15.8%                                | 4,607             | -5.8%                                 | 41.73                   | -10.6%                                | 219.45                 | -8.9%                   |
| 2010.2            | 144                  | 854,563          | 40,323                | 176,246                              | 1.102           | 194,170                           | 227.22             | -7.7%                                 | 4,815             | -2.3%                                 | 47.18                   | -5.5%                                 |                        |                         |
| 2011.1            | 138                  | 841,045          | 43,034                | 184,205                              | 1.095           | 201,612                           | 239.72             | 24.7%                                 | 4,685             | 1.7%                                  | 51.17                   | 22.6%                                 | 233.42                 | 6.4%                    |
| 2011.2            | 132                  | 872,428          | 35,466                | 170,544                              | 1.095           | 186,660                           | 213.95             | -5.8%                                 | 5,263             | 9.3%                                  | 40.65                   | -13.8%                                |                        |                         |
| 2012.1            | 126                  | 868,928          | 35,137                | 162,396                              | 1.091           | 177,206                           | 203.94             | -14.9%                                | 5,043             | 7.6%                                  | 40.44                   | -21.0%                                | 208.96                 | -10.5%                  |
| 2012.2            | 120                  | 903,590          | 41,645                | 206,743                              | 1.091           | 225,598                           | 249.67             | 18.7%                                 | 5,417             | 2.9%                                  | 46.09                   | 13.4%                                 |                        |                         |
| 2013.1            | 114                  | 900,197          | 37,732                | 182,695                              | 1.099           | 200,866                           | 223.14             | 9.4%                                  | 5,323             | 5.6%                                  | 41.92                   | 3.7%                                  | 236.43                 | 13.1%                   |
| 2013.2            | 108                  | 942,653          | 44,195                | 227,861                              | 1.099           | 250,525                           | 265.77             | 6.4%                                  | 5,669             | 4.6%                                  | 46.88                   | 1.7%                                  |                        |                         |
| 2014.1            | 102                  | 937,673          | 39,751                | 203,614                              | 1.093           | 222,570                           | 237.36             | 6.4%                                  | 5,599             | 5.2%                                  | 42.39                   | 1.1%                                  | 251.60                 | 6.4%                    |
| 2014.2            | 96                   | 981,092          | 42,315                | 237,791                              | 1.093           | 259,929                           | 264.94             | -0.3%                                 | 6,143             | 8.4%                                  | 43.13                   | -8.0%                                 |                        |                         |
| 2015.1            | 90                   | 970,725          | 39,926                | 217,230                              | 1.103           | 239,583                           | 246.81             | 4.0%                                  | 6,001             | 7.2%                                  | 41.13                   | -3.0%                                 | 255.92                 | 1.7%                    |
| 2015.2            | 84                   | 1,000,566        | 40,455                | 232,461                              | 1.103           | 256,381                           | 256.24             | -3.3%                                 | 6,337             | 3.2%                                  | 40.43                   | -6.3%                                 |                        |                         |
| 2016.1            | 78                   | 981,074          | 36,075                | 201,682                              | 1.085           | 218,805                           | 223.03             | -9.6%                                 | 6,065             | 1.1%                                  | 36.77                   | -10.6%                                | 239.79                 | -6.3%                   |
| 2016.2            | 72                   | 999,695          | 41,959                | 251,307                              | 1.085           | 272,643                           | 272.73             | 6.4%                                  | 6,498             | 2.5%                                  | 41.97                   | 3.8%                                  |                        |                         |
| 2017.1            | 66                   | 979,321          | 41,079                | 238,179                              | 1.092           | 259,972                           | 265.46             | 19.0%                                 | 6,329             | 4.3%                                  | 41.95                   | 14.1%                                 | 269.13                 | 12.2%                   |
| 2017.2            | 60                   | 1,010,501        | 42,658                | 262,247                              | 1.092           | 286,243                           | 283.27             | 3.9%                                  | 6,710             | 3.3%                                  | 42.22                   | 0.6%                                  |                        |                         |
| 2018.1            | 54                   | 998,169          | 44,670                | 261,743                              | 1.101           | 288,100                           | 288.63             | 8.7%                                  | 6,449             | 1.9%                                  | 44.75                   | 6.7%                                  | 285.93                 | 6.2%                    |
| 2018.2            | 48                   | 1,031,268        | 42,934                | 260,013                              | 1.101           | 286,196                           | 277.52             | -2.0%                                 | 6,666             | -0.7%                                 | 41.63                   | -1.4%                                 |                        |                         |
| 2019.1            | 42                   | 1,011,468        | 43,602                | 255,040                              | 1.108           | 282,585                           | 279.38             | -3.2%                                 | 6,481             | 0.5%                                  | 43.11                   | -3.7%                                 | 278.44                 | -2.6%                   |
| 2019.2            | 36                   | 1,034,718        | 42,927                | 249,726                              | 1.108           | 276,696                           | 267.41             | -3.6%                                 | 6,446             | -3.3%                                 | 41.49                   | -0.4%                                 |                        |                         |
| 2020.1            | 30                   | 1,004,939        | 29,787                | 175,543                              | 1.103           | 193,569                           | 192.62             | -31.1%                                | 6,498             | 0.3%                                  | 29.64                   | -31.2%                                | 230.56                 | -17.2%                  |
| 2020.2            | 24                   | 1,024,042        | 26,464                | 168,141                              | 1.103           | 185,406                           | 181.05             | -32.3%                                | 7,006             | 8.7%                                  | 25.84                   | -37.7%                                |                        |                         |
| 2021.1            | 18                   | 1,002,401        | 22,978                | 143,747                              | 1.126           | 161,894                           | 161.51             | -16.2%                                | 7,046             | 8.4%                                  | 22.92                   | -22.7%                                | 171.38                 | -25.7%                  |
| 2021.2            | 12                   | 1,030,906        | 32,571                | 238,865                              | 1.126           | 269,020                           | 260.96             | 44.1%                                 | 8,260             | 17.9%                                 | 31.59                   | 22.3%                                 |                        |                         |
| 2022.1            | 6                    | 1,010,510        | 19,360                | 145,687                              | 1.126           | 164,079                           | 162.37             | 0.5%                                  | 8,475             | 20.3%                                 | 19.16                   | -16.4%                                | 212.16                 | 23.8%                   |
| Total             |                      | 34,730,378       | 1,485,138             | 7,255,630                            |                 | 7,968,132                         |                    |                                       |                   |                                       |                         |                                       |                        |                         |



Province of Alberta  
Comprehensive - Total  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

Loss Cost Summary  
Data as of 30 Jun 2022

| (1)               | (2)                  | (3)              | (4)                   | (5)                                  | (6)             | (7)                               | (8)                | (9)                                   | (10)              | (11)                                  | (12)                    | (13)                                  | (14)                   | (15)                    |
|-------------------|----------------------|------------------|-----------------------|--------------------------------------|-----------------|-----------------------------------|--------------------|---------------------------------------|-------------------|---------------------------------------|-------------------------|---------------------------------------|------------------------|-------------------------|
| Accident Semester | Maturity (in Months) | Earned Car Years | Ultimate Claim Counts | Ultimate Claim Amount and ALAE (000) | ULAE Adjustment | Ultimate Claim Amount & LAE (000) | Ultimate Loss Cost | % Change Seasonal Accident Half Years | Ultimate Severity | % Change Seasonal Accident Half Years | Ultimate Freq. per 1000 | % Change Seasonal Accident Half Years | Annual Loss Cost & LAE | % Change Accident Years |
| 2002.2            | 240                  | 731,460          | 24,135                | 54,246                               | 1.089           | 59,074                            | 80.76              |                                       | 2,448             |                                       | 33.00                   |                                       |                        |                         |
| 2003.1            | 234                  | 729,421          | 20,110                | 44,058                               | 1.093           | 48,156                            | 66.02              |                                       | 2,395             |                                       | 27.57                   |                                       | 73.40                  |                         |
| 2003.2            | 228                  | 751,857          | 22,949                | 63,967                               | 1.093           | 69,916                            | 92.99              | 15.1%                                 | 3,047             | 24.5%                                 | 30.52                   | -7.5%                                 |                        |                         |
| 2004.1            | 222                  | 753,862          | 18,912                | 41,135                               | 1.103           | 45,372                            | 60.19              | -8.8%                                 | 2,399             | 0.2%                                  | 25.09                   | -9.0%                                 | 76.57                  | 4.3%                    |
| 2004.2            | 216                  | 778,049          | 27,538                | 84,072                               | 1.103           | 92,731                            | 119.18             | 28.2%                                 | 3,367             | 10.5%                                 | 35.39                   | 16.0%                                 |                        |                         |
| 2005.1            | 210                  | 785,901          | 29,597                | 77,572                               | 1.097           | 85,127                            | 108.32             | 80.0%                                 | 2,876             | 19.9%                                 | 37.66                   | 50.1%                                 | 113.72                 | 48.5%                   |
| 2005.2            | 204                  | 832,748          | 27,889                | 76,089                               | 1.097           | 83,500                            | 100.27             | -15.9%                                | 2,994             | -11.1%                                | 33.49                   | -5.4%                                 |                        |                         |
| 2006.1            | 198                  | 842,892          | 22,280                | 58,706                               | 1.087           | 63,784                            | 75.67              | -30.1%                                | 2,863             | -0.5%                                 | 26.43                   | -29.8%                                | 87.90                  | -22.7%                  |
| 2006.2            | 192                  | 890,498          | 31,991                | 98,465                               | 1.087           | 106,983                           | 120.14             | 19.8%                                 | 3,344             | 11.7%                                 | 35.93                   | 7.3%                                  |                        |                         |
| 2007.1            | 186                  | 905,984          | 28,051                | 88,133                               | 1.089           | 95,960                            | 105.92             | 40.0%                                 | 3,421             | 19.5%                                 | 30.96                   | 17.1%                                 | 112.97                 | 28.5%                   |
| 2007.2            | 180                  | 955,162          | 36,870                | 145,947                              | 1.089           | 158,907                           | 166.37             | 38.5%                                 | 4,310             | 28.9%                                 | 38.60                   | 7.4%                                  |                        |                         |
| 2008.1            | 174                  | 967,929          | 23,659                | 80,136                               | 1.084           | 86,835                            | 89.71              | -15.3%                                | 3,670             | 7.3%                                  | 24.44                   | -21.1%                                | 127.79                 | 13.1%                   |
| 2008.2            | 168                  | 1,007,535        | 31,544                | 132,050                              | 1.084           | 143,090                           | 142.02             | -14.6%                                | 4,536             | 5.2%                                  | 31.31                   | -18.9%                                |                        |                         |
| 2009.1            | 162                  | 1,003,882        | 21,405                | 77,127                               | 1.105           | 85,233                            | 84.90              | -5.4%                                 | 3,982             | 8.5%                                  | 21.32                   | -12.8%                                | 113.51                 | -11.2%                  |
| 2009.2            | 156                  | 1,028,558        | 33,705                | 150,048                              | 1.105           | 165,818                           | 161.21             | 13.5%                                 | 4,920             | 8.5%                                  | 32.77                   | 4.7%                                  |                        |                         |
| 2010.1            | 150                  | 1,018,732        | 19,397                | 73,625                               | 1.102           | 81,113                            | 79.62              | -6.2%                                 | 4,182             | 5.0%                                  | 19.04                   | -10.7%                                | 120.61                 | 6.3%                    |
| 2010.2            | 144                  | 1,047,655        | 62,306                | 295,775                              | 1.102           | 325,855                           | 311.03             | 92.9%                                 | 5,230             | 6.3%                                  | 59.47                   | 81.5%                                 |                        |                         |
| 2011.1            | 138                  | 1,040,159        | 19,785                | 72,840                               | 1.095           | 79,723                            | 76.65              | -3.7%                                 | 4,029             | -3.6%                                 | 19.02                   | -0.1%                                 | 194.26                 | 61.1%                   |
| 2011.2            | 132                  | 1,071,639        | 31,030                | 139,777                              | 1.095           | 152,986                           | 142.76             | -54.1%                                | 4,930             | -5.7%                                 | 28.96                   | -51.3%                                |                        |                         |
| 2012.1            | 126                  | 1,073,024        | 19,217                | 77,489                               | 1.091           | 84,556                            | 78.80              | 2.8%                                  | 4,400             | 9.2%                                  | 17.91                   | -5.8%                                 | 110.76                 | -43.0%                  |
| 2012.2            | 120                  | 1,105,693        | 57,061                | 272,065                              | 1.091           | 296,877                           | 268.50             | 88.1%                                 | 5,203             | 5.5%                                  | 51.61                   | 78.2%                                 |                        |                         |
| 2013.1            | 114                  | 1,104,775        | 25,559                | 125,784                              | 1.099           | 138,295                           | 125.18             | 58.9%                                 | 5,411             | 23.0%                                 | 23.14                   | 29.2%                                 | 196.87                 | 77.7%                   |
| 2013.2            | 108                  | 1,144,154        | 45,103                | 216,909                              | 1.099           | 238,484                           | 208.44             | -22.4%                                | 5,288             | 1.6%                                  | 39.42                   | -23.6%                                |                        |                         |
| 2014.1            | 102                  | 1,142,612        | 20,492                | 83,129                               | 1.093           | 90,868                            | 79.53              | -36.5%                                | 4,434             | -18.0%                                | 17.93                   | -22.5%                                | 144.03                 | -26.8%                  |
| 2014.2            | 96                   | 1,181,592        | 55,115                | 314,714                              | 1.093           | 344,014                           | 291.14             | 39.7%                                 | 6,242             | 18.0%                                 | 46.64                   | 18.3%                                 |                        |                         |
| 2015.1            | 90                   | 1,173,180        | 24,061                | 107,444                              | 1.103           | 118,500                           | 101.01             | 27.0%                                 | 4,925             | 11.1%                                 | 20.51                   | 14.4%                                 | 196.42                 | 36.4%                   |
| 2015.2            | 84                   | 1,197,911        | 51,149                | 302,321                              | 1.103           | 333,430                           | 278.34             | -4.4%                                 | 6,519             | 4.4%                                  | 42.70                   | -8.5%                                 |                        |                         |
| 2016.1            | 78                   | 1,176,799        | 34,593                | 174,193                              | 1.085           | 188,982                           | 160.59             | 59.0%                                 | 5,463             | 10.9%                                 | 29.40                   | 43.3%                                 | 219.99                 | 12.0%                   |
| 2016.2            | 72                   | 1,187,878        | 65,818                | 381,395                              | 1.085           | 413,776                           | 348.33             | 25.1%                                 | 6,287             | -3.6%                                 | 55.41                   | 29.8%                                 |                        |                         |
| 2017.1            | 66                   | 1,170,127        | 25,760                | 136,347                              | 1.092           | 148,823                           | 127.19             | -20.8%                                | 5,777             | 5.8%                                  | 22.01                   | -25.1%                                | 238.59                 | 8.5%                    |
| 2017.2            | 60                   | 1,197,987        | 40,174                | 241,251                              | 1.092           | 263,325                           | 219.81             | -36.9%                                | 6,555             | 4.3%                                  | 33.53                   | -39.5%                                |                        |                         |
| 2018.1            | 54                   | 1,188,761        | 24,265                | 128,429                              | 1.101           | 141,362                           | 118.92             | -6.5%                                 | 5,826             | 0.8%                                  | 20.41                   | -7.3%                                 | 169.56                 | -28.9%                  |
| 2018.2            | 48                   | 1,215,238        | 42,209                | 253,627                              | 1.101           | 279,167                           | 229.72             | 4.5%                                  | 6,614             | 0.9%                                  | 34.73                   | 3.6%                                  |                        |                         |
| 2019.1            | 42                   | 1,193,765        | 24,007                | 128,493                              | 1.108           | 142,370                           | 119.26             | 0.3%                                  | 5,930             | 1.8%                                  | 20.11                   | -1.5%                                 | 174.98                 | 3.2%                    |
| 2019.2            | 36                   | 1,206,417        | 41,028                | 240,311                              | 1.108           | 266,265                           | 220.71             | -3.9%                                 | 6,490             | -1.9%                                 | 34.01                   | -2.1%                                 |                        |                         |
| 2020.1            | 30                   | 1,183,630        | 45,413                | 359,051                              | 1.103           | 395,920                           | 334.50             | 180.5%                                | 8,718             | 47.0%                                 | 38.37                   | 90.8%                                 | 277.06                 | 58.3%                   |
| 2020.2            | 24                   | 1,194,974        | 33,676                | 211,854                              | 1.103           | 233,607                           | 195.49             | -11.4%                                | 6,937             | 6.9%                                  | 28.18                   | -17.1%                                |                        |                         |
| 2021.1            | 18                   | 1,171,158        | 20,649                | 108,482                              | 1.126           | 122,177                           | 104.32             | -68.8%                                | 5,917             | -32.1%                                | 17.63                   | -54.0%                                | 150.37                 | -45.7%                  |
| 2021.2            | 12                   | 1,188,666        | 45,874                | 288,474                              | 1.126           | 324,892                           | 273.33             | 39.8%                                 | 7,082             | 2.1%                                  | 38.59                   | 36.9%                                 |                        |                         |
| 2022.1            | 6                    | 1,167,291        | 25,000                | 141,217                              | 1.126           | 159,045                           | 136.25             | 30.6%                                 | 6,362             | 7.5%                                  | 21.42                   | 21.5%                                 | 205.41                 | 36.6%                   |
| Total             |                      | 41,709,556       | 1,299,374             | 6,146,747                            |                 | 6,754,897                         |                    |                                       |                   |                                       |                         |                                       |                        |                         |

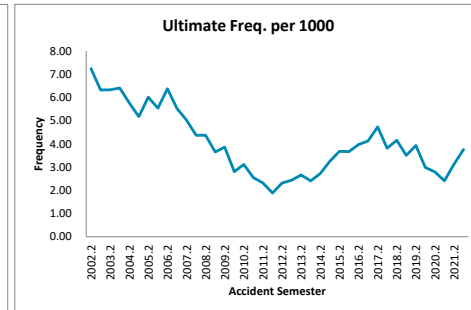
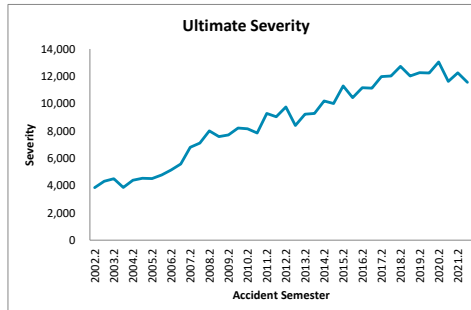
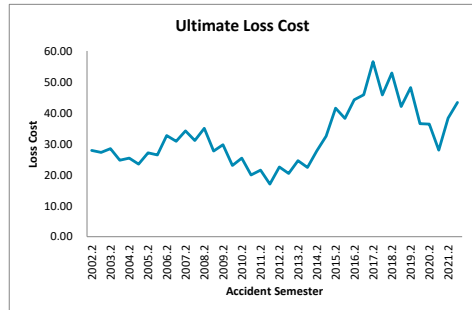




Province of Alberta  
Comprehensive - Theft  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

Loss Cost Summary  
Data as of 30 Jun 2022

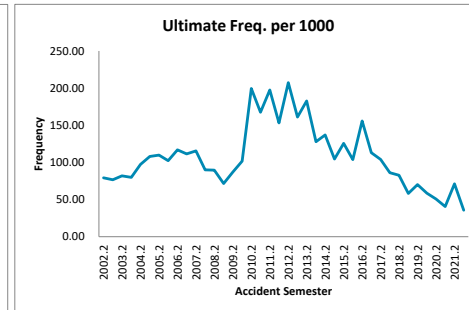
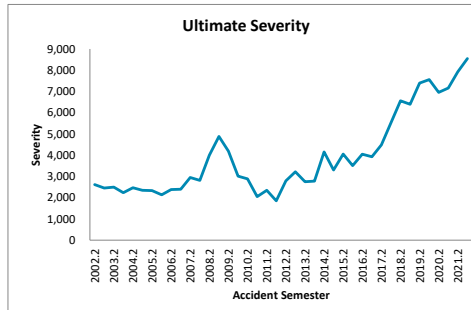
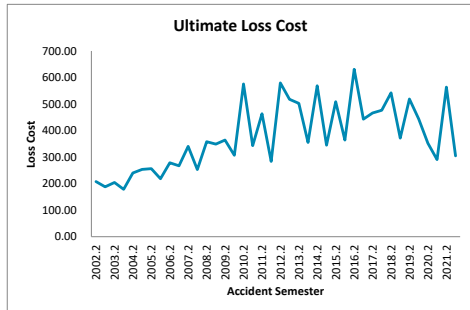
| (1)               | (2)                  | (3)              | (4)                   | (5)                                  | (6)             | (7)                               | (8)                | (9)                                   | (10)              | (11)                                  | (12)                    | (13)                                  | (14)                   | (15)                    |
|-------------------|----------------------|------------------|-----------------------|--------------------------------------|-----------------|-----------------------------------|--------------------|---------------------------------------|-------------------|---------------------------------------|-------------------------|---------------------------------------|------------------------|-------------------------|
| Accident Semester | Maturity (in Months) | Earned Car Years | Ultimate Claim Counts | Ultimate Claim Amount and ALAE (000) | ULAE Adjustment | Ultimate Claim Amount & LAE (000) | Ultimate Loss Cost | % Change Seasonal Accident Half Years | Ultimate Severity | % Change Seasonal Accident Half Years | Ultimate Freq. per 1000 | % Change Seasonal Accident Half Years | Annual Loss Cost & LAE | % Change Accident Years |
| 2002.2            | 240                  | 731,460          | 5,294                 | 18,713                               | 1,089           | 20,378                            | 27.86              |                                       | 3,849             |                                       | 7.24                    |                                       |                        |                         |
| 2003.1            | 234                  | 729,421          | 4,609                 | 18,169                               | 1,093           | 19,858                            | 27.22              |                                       | 4,309             |                                       | 6.32                    |                                       | 27.54                  |                         |
| 2003.2            | 228                  | 751,857          | 4,756                 | 19,575                               | 1,093           | 21,396                            | 28.46              | 2.1%                                  | 4,499             | 16.9%                                 | 6.33                    | -12.6%                                |                        |                         |
| 2004.1            | 222                  | 753,862          | 4,825                 | 16,889                               | 1,103           | 18,628                            | 24.71              | -9.2%                                 | 3,861             | -10.4%                                | 6.40                    | 1.3%                                  | 26.58                  | -3.5%                   |
| 2004.2            | 216                  | 778,049          | 4,490                 | 17,891                               | 1,103           | 19,733                            | 25.36              | -10.9%                                | 4,395             | -2.3%                                 | 5.77                    | -8.8%                                 |                        |                         |
| 2005.1            | 210                  | 785,901          | 4,067                 | 16,794                               | 1,097           | 18,430                            | 23.45              | -5.1%                                 | 4,532             | 17.4%                                 | 5.17                    | -19.1%                                | 24.40                  | -8.2%                   |
| 2005.2            | 204                  | 832,748          | 5,004                 | 20,564                               | 1,097           | 22,567                            | 27.10              | 6.8%                                  | 4,510             | 2.6%                                  | 6.01                    | 4.1%                                  |                        |                         |
| 2006.1            | 198                  | 842,892          | 4,667                 | 20,503                               | 1,087           | 22,276                            | 26.43              | 12.7%                                 | 4,773             | 5.3%                                  | 5.54                    | 7.0%                                  | 26.76                  | 9.7%                    |
| 2006.2            | 192                  | 890,498          | 5,671                 | 26,796                               | 1,087           | 29,114                            | 32.69              | 20.6%                                 | 5,134             | 13.8%                                 | 6.37                    | 6.0%                                  |                        |                         |
| 2007.1            | 186                  | 905,984          | 5,006                 | 25,651                               | 1,089           | 27,928                            | 30.83              | 16.6%                                 | 5,579             | 16.9%                                 | 5.53                    | -0.2%                                 | 31.75                  | 18.6%                   |
| 2007.2            | 180                  | 955,162          | 4,799                 | 29,980                               | 1,089           | 32,642                            | 34.17              | 4.5%                                  | 6,803             | 32.5%                                 | 5.02                    | -21.1%                                |                        |                         |
| 2008.1            | 174                  | 967,929          | 4,229                 | 27,751                               | 1,084           | 30,071                            | 31.07              | 0.8%                                  | 7,110             | 27.4%                                 | 4.37                    | -20.9%                                | 32.61                  | 2.7%                    |
| 2008.2            | 168                  | 1,007,535        | 4,403                 | 32,526                               | 1,084           | 35,245                            | 34.98              | 2.4%                                  | 8,005             | 17.7%                                 | 4.37                    | -13.0%                                |                        |                         |
| 2009.1            | 162                  | 1,003,882        | 3,663                 | 25,140                               | 1,105           | 27,782                            | 27.67              | -10.9%                                | 7,585             | 6.7%                                  | 3.65                    | -16.5%                                | 31.33                  | -3.9%                   |
| 2009.2            | 156                  | 1,028,558        | 3,967                 | 27,662                               | 1,105           | 30,569                            | 29.72              | -15.0%                                | 7,706             | -3.7%                                 | 3.86                    | -11.7%                                |                        |                         |
| 2010.1            | 150                  | 1,018,732        | 2,851                 | 21,250                               | 1,102           | 23,411                            | 22.98              | -17.0%                                | 8,212             | 8.3%                                  | 2.80                    | -23.3%                                | 26.37                  | -15.9%                  |
| 2010.2            | 144                  | 1,047,655        | 3,261                 | 24,129                               | 1,102           | 26,583                            | 25.37              | -14.6%                                | 8,152             | 5.8%                                  | 3.11                    | -19.3%                                |                        |                         |
| 2011.1            | 138                  | 1,040,159        | 2,642                 | 18,948                               | 1,095           | 20,738                            | 19.94              | -13.2%                                | 7,850             | -4.4%                                 | 2.54                    | -9.2%                                 | 22.67                  | -14.0%                  |
| 2011.2            | 132                  | 1,071,639        | 2,484                 | 21,067                               | 1,095           | 23,058                            | 21.52              | -15.2%                                | 9,282             | 13.9%                                 | 2.32                    | -25.5%                                |                        |                         |
| 2012.1            | 126                  | 1,073,024        | 2,018                 | 16,708                               | 1,091           | 18,232                            | 16.99              | -14.8%                                | 9,034             | 15.1%                                 | 1.88                    | -26.0%                                | 19.25                  | -15.1%                  |
| 2012.2            | 120                  | 1,105,693        | 2,553                 | 22,810                               | 1,091           | 24,891                            | 22.51              | 4.6%                                  | 9,750             | 5.0%                                  | 2.31                    | -0.4%                                 |                        |                         |
| 2013.1            | 114                  | 1,104,775        | 2,687                 | 20,532                               | 1,099           | 22,575                            | 20.43              | 20.3%                                 | 8,402             | -7.0%                                 | 2.43                    | 29.3%                                 | 21.47                  | 11.5%                   |
| 2013.2            | 108                  | 1,144,154        | 3,044                 | 25,537                               | 1,099           | 28,078                            | 24.54              | 9.0%                                  | 9,224             | -5.4%                                 | 2.66                    | 15.2%                                 |                        |                         |
| 2014.1            | 102                  | 1,142,612        | 2,752                 | 23,363                               | 1,093           | 25,539                            | 22.35              | 9.4%                                  | 9,281             | 10.5%                                 | 2.41                    | -1.0%                                 | 23.45                  | 9.2%                    |
| 2014.2            | 96                   | 1,181,592        | 3,212                 | 29,950                               | 1,093           | 32,738                            | 27.71              | 12.9%                                 | 10,191            | 10.5%                                 | 2.72                    | 2.2%                                  |                        |                         |
| 2015.1            | 90                   | 1,173,180        | 3,811                 | 34,553                               | 1,103           | 38,109                            | 32.48              | 45.3%                                 | 10,001            | 7.8%                                  | 3.25                    | 34.9%                                 | 30.09                  | 28.3%                   |
| 2015.2            | 84                   | 1,197,911        | 4,404                 | 45,113                               | 1,103           | 49,756                            | 41.54              | 49.9%                                 | 11,298            | 10.9%                                 | 3.68                    | 35.2%                                 |                        |                         |
| 2016.1            | 78                   | 1,176,799        | 4,309                 | 41,468                               | 1,085           | 44,989                            | 38.23              | 17.7%                                 | 10,441            | 4.4%                                  | 3.66                    | 12.7%                                 | 39.90                  | 32.6%                   |
| 2016.2            | 72                   | 1,187,878        | 4,710                 | 48,461                               | 1,085           | 52,575                            | 44.26              | 6.6%                                  | 11,163            | -1.2%                                 | 3.96                    | 7.8%                                  |                        |                         |
| 2017.1            | 66                   | 1,170,127        | 4,822                 | 49,152                               | 1,092           | 53,649                            | 45.85              | 19.9%                                 | 11,126            | 6.6%                                  | 4.12                    | 12.5%                                 | 45.05                  | 12.9%                   |
| 2017.2            | 60                   | 1,197,987        | 5,659                 | 62,072                               | 1,092           | 67,752                            | 56.55              | 27.8%                                 | 11,973            | 7.3%                                  | 4.72                    | 19.1%                                 |                        |                         |
| 2018.1            | 54                   | 1,188,761        | 4,532                 | 49,480                               | 1,101           | 54,463                            | 45.81              | -0.1%                                 | 12,017            | 8.0%                                  | 3.81                    | -7.5%                                 | 51.21                  | 13.7%                   |
| 2018.2            | 48                   | 1,215,238        | 5,050                 | 58,371                               | 1,101           | 64,249                            | 52.87              | -6.5%                                 | 12,724            | 6.3%                                  | 4.16                    | -12.0%                                |                        |                         |
| 2019.1            | 42                   | 1,193,765        | 4,177                 | 45,323                               | 1,108           | 50,218                            | 42.07              | -8.2%                                 | 12,024            | 0.1%                                  | 3.50                    | -8.2%                                 | 47.52                  | -7.2%                   |
| 2019.2            | 36                   | 1,206,417        | 4,737                 | 52,432                               | 1,108           | 58,095                            | 48.15              | -8.9%                                 | 12,263            | -3.6%                                 | 3.93                    | -5.5%                                 |                        |                         |
| 2020.1            | 30                   | 1,183,630        | 3,528                 | 39,174                               | 1,103           | 43,197                            | 36.50              | -13.2%                                | 12,243            | 1.8%                                  | 2.98                    | -14.8%                                | 42.38                  | -10.8%                  |
| 2020.2            | 24                   | 1,194,974        | 3,329                 | 39,390                               | 1,103           | 43,435                            | 36.35              | -24.5%                                | 13,047            | 6.4%                                  | 2.79                    | -29.1%                                |                        |                         |
| 2021.1            | 18                   | 1,171,158        | 2,818                 | 29,091                               | 1,126           | 32,764                            | 27.98              | -23.3%                                | 11,625            | -5.0%                                 | 2.41                    | -19.3%                                | 32.20                  | -24.0%                  |
| 2021.2            | 12                   | 1,188,666        | 3,716                 | 40,441                               | 1,126           | 45,546                            | 38.32              | 5.4%                                  | 12,257            | -6.1%                                 | 3.13                    | 12.2%                                 |                        |                         |
| 2022.1            | 6                    | 1,167,291        | 4,379                 | 44,932                               | 1,126           | 50,605                            | 43.35              | 55.0%                                 | 11,555            | -0.6%                                 | 3.75                    | 55.9%                                 | 40.81                  | 26.7%                   |
| Total             |                      | 41,709,556       | 160,935               | 1,248,353                            |                 | 1,371,861                         |                    |                                       |                   |                                       |                         |                                       |                        |                         |



Province of Alberta  
All Perils  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

Loss Cost Summary  
Data as of 30 Jun 2022

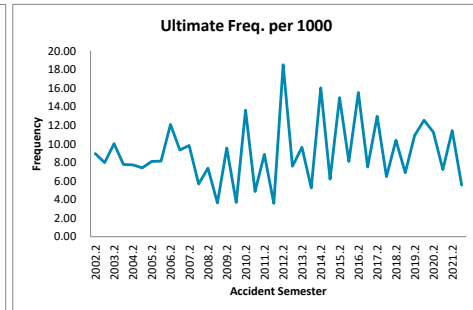
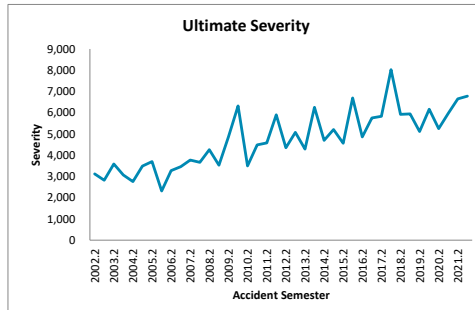
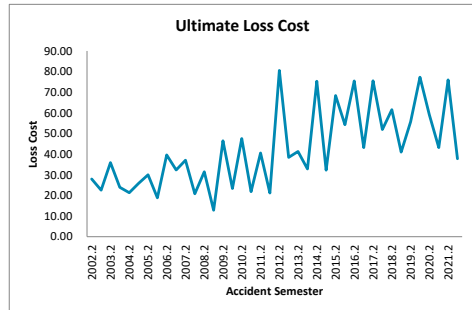
| (1)               | (2)                  | (3)              | (4)                   | (5)                                  | (6)             | (7)                               | (8)                | (9)                                   | (10)              | (11)                                  | (12)                    | (13)                                  | (14)                   | (15)                    |
|-------------------|----------------------|------------------|-----------------------|--------------------------------------|-----------------|-----------------------------------|--------------------|---------------------------------------|-------------------|---------------------------------------|-------------------------|---------------------------------------|------------------------|-------------------------|
| Accident Semester | Maturity (in Months) | Earned Car Years | Ultimate Claim Counts | Ultimate Claim Amount and ALAE (000) | ULAE Adjustment | Ultimate Claim Amount & LAE (000) | Ultimate Loss Cost | % Change Seasonal Accident Half Years | Ultimate Severity | % Change Seasonal Accident Half Years | Ultimate Freq. per 1000 | % Change Seasonal Accident Half Years | Annual Loss Cost & LAE | % Change Accident Years |
| 2002.2            | 240                  | 28,982           | 2,295                 | 5,521                                | 1,089           | 6,013                             | 207.46             |                                       | 2,620             |                                       | 79.19                   |                                       |                        |                         |
| 2003.1            | 234                  | 27,792           | 2,129                 | 4,776                                | 1,093           | 5,220                             | 187.81             |                                       | 2,452             |                                       | 76.60                   |                                       | 197.84                 |                         |
| 2003.2            | 228                  | 28,818           | 2,362                 | 5,395                                | 1,093           | 5,897                             | 204.61             | -1.4%                                 | 2,496             | -4.7%                                 | 81.96                   | 3.5%                                  |                        |                         |
| 2004.1            | 222                  | 27,917           | 2,231                 | 4,521                                | 1,103           | 4,986                             | 178.61             | -4.9%                                 | 2,235             | -8.8%                                 | 79.92                   | 4.3%                                  | 191.82                 | -3.0%                   |
| 2004.2            | 216                  | 27,107           | 2,639                 | 5,898                                | 1,103           | 6,506                             | 240.01             | 17.3%                                 | 2,465             | -1.2%                                 | 97.36                   | 18.8%                                 |                        |                         |
| 2005.1            | 210                  | 22,856           | 2,468                 | 5,288                                | 1,097           | 5,803                             | 253.87             | 42.1%                                 | 2,351             | 5.2%                                  | 107.98                  | 35.1%                                 | 246.35                 | 28.4%                   |
| 2005.2            | 204                  | 20,220           | 2,221                 | 4,725                                | 1,097           | 5,185                             | 256.44             | 6.8%                                  | 2,335             | -5.3%                                 | 109.84                  | 12.8%                                 |                        |                         |
| 2006.1            | 198                  | 19,577           | 2,002                 | 3,941                                | 1,087           | 4,282                             | 218.71             | -13.9%                                | 2,139             | -9.0%                                 | 102.26                  | -5.3%                                 | 237.88                 | -3.4%                   |
| 2006.2            | 192                  | 19,882           | 2,326                 | 5,100                                | 1,087           | 5,542                             | 278.73             | 8.7%                                  | 2,382             | 2.1%                                  | 116.99                  | 6.5%                                  |                        |                         |
| 2007.1            | 186                  | 19,349           | 2,158                 | 4,747                                | 1,089           | 5,169                             | 267.14             | 22.1%                                 | 2,395             | 12.0%                                 | 111.53                  | 9.1%                                  | 273.02                 | 14.8%                   |
| 2007.2            | 180                  | 20,802           | 2,404                 | 6,506                                | 1,089           | 7,084                             | 340.55             | 22.2%                                 | 2,947             | 23.7%                                 | 115.57                  | -1.2%                                 |                        |                         |
| 2008.1            | 174                  | 19,098           | 1,717                 | 4,464                                | 1,084           | 4,837                             | 253.28             | -5.2%                                 | 2,817             | 17.6%                                 | 89.91                   | -19.4%                                | 298.78                 | 9.4%                    |
| 2008.2            | 168                  | 16,151           | 1,446                 | 5,339                                | 1,084           | 5,785                             | 358.19             | 5.2%                                  | 4,001             | 35.8%                                 | 89.53                   | -22.5%                                |                        |                         |
| 2009.1            | 162                  | 13,978           | 999                   | 4,414                                | 1,105           | 4,878                             | 348.99             | 37.8%                                 | 4,883             | 73.3%                                 | 71.47                   | -20.5%                                | 353.92                 | 18.5%                   |
| 2009.2            | 156                  | 13,536           | 1,178                 | 4,462                                | 1,105           | 4,931                             | 364.31             | 1.7%                                  | 4,186             | 4.6%                                  | 87.03                   | -2.8%                                 |                        |                         |
| 2010.1            | 150                  | 12,104           | 1,232                 | 3,370                                | 1,102           | 3,713                             | 306.76             | -12.1%                                | 3,014             | -38.3%                                | 101.78                  | 42.4%                                 | 337.14                 | -4.7%                   |
| 2010.2            | 144                  | 11,946           | 2,384                 | 6,242                                | 1,102           | 6,877                             | 575.68             | 58.0%                                 | 2,885             | -31.1%                                | 199.57                  | 129.3%                                |                        |                         |
| 2011.1            | 138                  | 10,949           | 1,835                 | 3,435                                | 1,095           | 3,760                             | 343.36             | 11.9%                                 | 2,049             | -32.0%                                | 167.59                  | 64.7%                                 | 464.58                 | 37.8%                   |
| 2011.2            | 132                  | 10,787           | 2,130                 | 4,568                                | 1,095           | 5,000                             | 463.53             | -19.5%                                | 2,347             | -18.6%                                | 197.46                  | -1.1%                                 |                        |                         |
| 2012.1            | 126                  | 10,249           | 1,569                 | 2,664                                | 1,091           | 2,907                             | 283.62             | -17.4%                                | 1,853             | -9.6%                                 | 153.08                  | -8.7%                                 | 375.88                 | -19.1%                  |
| 2012.2            | 120                  | 10,167           | 2,108                 | 5,400                                | 1,091           | 5,893                             | 579.60             | 25.0%                                 | 2,795             | 19.1%                                 | 207.34                  | 5.0%                                  |                        |                         |
| 2013.1            | 114                  | 9,851            | 1,586                 | 4,640                                | 1,099           | 5,102                             | 517.92             | 82.6%                                 | 3,217             | 73.6%                                 | 161.00                  | 5.2%                                  | 549.25                 | 46.1%                   |
| 2013.2            | 108                  | 10,249           | 1,872                 | 4,682                                | 1,099           | 5,148                             | 502.29             | -13.3%                                | 2,750             | -1.6%                                 | 182.65                  | -11.9%                                |                        |                         |
| 2014.1            | 102                  | 10,275           | 1,313                 | 3,336                                | 1,093           | 3,647                             | 354.89             | -31.5%                                | 2,777             | -13.7%                                | 127.79                  | -20.6%                                | 428.50                 | -22.0%                  |
| 2014.2            | 96                   | 12,002           | 1,643                 | 6,244                                | 1,093           | 6,826                             | 568.70             | 13.2%                                 | 4,154             | 51.1%                                 | 136.89                  | -25.1%                                |                        |                         |
| 2015.1            | 90                   | 12,139           | 1,268                 | 3,799                                | 1,103           | 4,190                             | 345.15             | -2.7%                                 | 3,304             | 19.0%                                 | 104.46                  | -18.3%                                | 456.29                 | 6.5%                    |
| 2015.2            | 84                   | 12,181           | 1,529                 | 5,618                                | 1,103           | 6,196                             | 508.68             | -10.6%                                | 4,052             | -2.5%                                 | 125.52                  | -8.3%                                 |                        |                         |
| 2016.1            | 78                   | 11,504           | 1,194                 | 3,863                                | 1,085           | 4,191                             | 364.33             | 5.6%                                  | 3,510             | 6.2%                                  | 103.79                  | -0.6%                                 | 438.57                 | -3.9%                   |
| 2016.2            | 72                   | 11,093           | 1,729                 | 6,451                                | 1,085           | 6,999                             | 630.93             | 24.0%                                 | 4,048             | -0.1%                                 | 155.87                  | 24.2%                                 |                        |                         |
| 2017.1            | 66                   | 10,765           | 1,216                 | 4,371                                | 1,092           | 4,771                             | 443.23             | 21.7%                                 | 3,924             | 11.8%                                 | 112.96                  | 8.8%                                  | 538.49                 | 22.8%                   |
| 2017.2            | 60                   | 11,206           | 1,164                 | 4,784                                | 1,092           | 5,222                             | 465.99             | -26.1%                                | 4,486             | 10.8%                                 | 103.87                  | -33.4%                                |                        |                         |
| 2018.1            | 54                   | 10,916           | 940                   | 4,727                                | 1,101           | 5,203                             | 476.65             | 7.5%                                  | 5,535             | 41.1%                                 | 86.12                   | -23.8%                                | 471.25                 | -12.5%                  |
| 2018.2            | 48                   | 11,324           | 936                   | 5,578                                | 1,101           | 6,139                             | 542.16             | 16.3%                                 | 6,561             | 46.2%                                 | 82.64                   | -20.4%                                |                        |                         |
| 2019.1            | 42                   | 11,286           | 656                   | 3,787                                | 1,108           | 4,196                             | 371.82             | -22.0%                                | 6,397             | 15.6%                                 | 58.13                   | -32.5%                                | 457.14                 | -3.0%                   |
| 2019.2            | 36                   | 11,779           | 827                   | 5,517                                | 1,108           | 6,113                             | 518.94             | -4.3%                                 | 7,392             | 12.7%                                 | 70.20                   | -15.0%                                |                        |                         |
| 2020.1            | 30                   | 10,860           | 637                   | 4,368                                | 1,103           | 4,817                             | 443.51             | 19.3%                                 | 7,559             | 18.2%                                 | 58.68                   | 0.9%                                  | 482.76                 | 5.6%                    |
| 2020.2            | 24                   | 11,186           | 566                   | 3,571                                | 1,103           | 3,938                             | 352.06             | -32.2%                                | 6,955             | -5.9%                                 | 50.62                   | -27.9%                                |                        |                         |
| 2021.1            | 18                   | 11,907           | 483                   | 3,073                                | 1,126           | 3,461                             | 290.63             | -34.5%                                | 7,161             | -5.3%                                 | 40.59                   | -30.8%                                | 320.38                 | -33.6%                  |
| 2021.2            | 12                   | 13,546           | 963                   | 6,782                                | 1,126           | 7,638                             | 563.83             | 60.2%                                 | 7,929             | 14.0%                                 | 71.11                   | 40.5%                                 |                        |                         |
| 2022.1            | 6                    | 14,830           | 529                   | 4,013                                | 1,126           | 4,519                             | 304.74             | 4.9%                                  | 8,547             | 19.4%                                 | 35.65                   | -12.2%                                | 428.42                 | 33.7%                   |
| Total             |                      | 611,166          | 62,884                | 189,983                              |                 | 208,582                           |                    |                                       |                   |                                       |                         |                                       |                        |                         |



Province of Alberta  
Specified Perils  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

Loss Cost Summary  
Data as of 30 Jun 2022

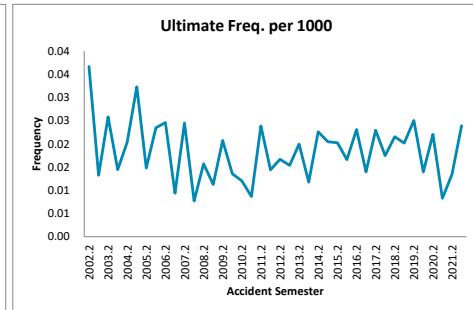
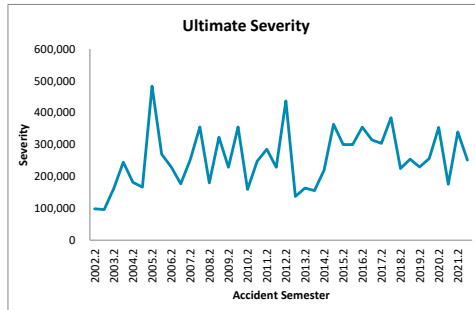
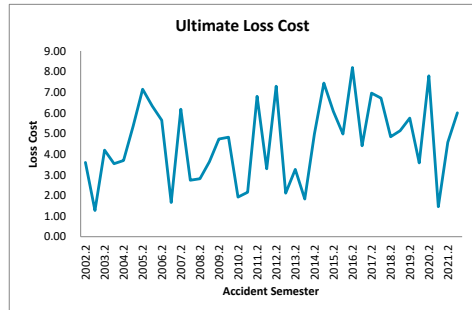
| (1)               | (2)                  | (3)              | (4)                   | (5)                                  | (6)             | (7)                               | (8)                | (9)                                   | (10)              | (11)                                  | (12)                    | (13)                                  | (14)                   | (15)                    |
|-------------------|----------------------|------------------|-----------------------|--------------------------------------|-----------------|-----------------------------------|--------------------|---------------------------------------|-------------------|---------------------------------------|-------------------------|---------------------------------------|------------------------|-------------------------|
| Accident Semester | Maturity (in Months) | Earned Car Years | Ultimate Claim Counts | Ultimate Claim Amount and ALAE (000) | ULAE Adjustment | Ultimate Claim Amount & LAE (000) | Ultimate Loss Cost | % Change Seasonal Accident Half Years | Ultimate Severity | % Change Seasonal Accident Half Years | Ultimate Freq. per 1000 | % Change Seasonal Accident Half Years | Annual Loss Cost & LAE | % Change Accident Years |
| 2002.2            | 240                  | 16,307           | 146                   | 418                                  | 1.089           | 456                               | 27.95              |                                       | 3,121             |                                       | 8.95                    |                                       |                        |                         |
| 2003.1            | 234                  | 15,427           | 123                   | 318                                  | 1.093           | 348                               | 22.53              |                                       | 2,825             |                                       | 7.97                    |                                       | 25.31                  |                         |
| 2003.2            | 228                  | 14,869           | 149                   | 489                                  | 1.093           | 534                               | 35.92              | 28.5%                                 | 3,585             | 14.8%                                 | 10.02                   | 11.9%                                 |                        |                         |
| 2004.1            | 222                  | 14,258           | 111                   | 309                                  | 1.103           | 341                               | 23.91              | 6.1%                                  | 3,071             | 8.7%                                  | 7.79                    | -2.4%                                 | 30.04                  | 18.7%                   |
| 2004.2            | 216                  | 15,389           | 119                   | 298                                  | 1.103           | 328                               | 21.34              | -40.6%                                | 2,760             | -23.0%                                | 7.73                    | -22.8%                                |                        |                         |
| 2005.1            | 210                  | 14,848           | 110                   | 350                                  | 1.097           | 384                               | 25.84              | 8.1%                                  | 3,488             | 13.6%                                 | 7.41                    | -4.8%                                 | 23.55                  | -21.6%                  |
| 2005.2            | 204                  | 12,705           | 103                   | 347                                  | 1.097           | 381                               | 29.98              | 40.5%                                 | 3,698             | 34.0%                                 | 8.11                    | 4.8%                                  |                        |                         |
| 2006.1            | 198                  | 11,792           | 96                    | 205                                  | 1.087           | 222                               | 18.86              | -27.0%                                | 2,316             | -33.6%                                | 8.14                    | 9.9%                                  | 24.62                  | 4.6%                    |
| 2006.2            | 192                  | 11,496           | 139                   | 419                                  | 1.087           | 456                               | 39.62              | 32.2%                                 | 3,277             | -11.4%                                | 12.09                   | 49.1%                                 |                        |                         |
| 2007.1            | 186                  | 11,142           | 104                   | 330                                  | 1.089           | 360                               | 32.29              | 71.2%                                 | 3,459             | 49.3%                                 | 9.33                    | 14.6%                                 | 36.01                  | 46.2%                   |
| 2007.2            | 180                  | 11,091           | 109                   | 377                                  | 1.089           | 411                               | 37.05              | -6.5%                                 | 3,770             | 15.0%                                 | 9.83                    | -18.7%                                |                        |                         |
| 2008.1            | 174                  | 10,398           | 59                    | 200                                  | 1.084           | 216                               | 20.80              | -35.6%                                | 3,666             | 6.0%                                  | 5.67                    | -39.2%                                | 29.19                  | -18.9%                  |
| 2008.2            | 168                  | 9,620            | 71                    | 279                                  | 1.084           | 302                               | 31.43              | -15.2%                                | 4,258             | 12.9%                                 | 7.38                    | -24.9%                                |                        |                         |
| 2009.1            | 162                  | 9,642            | 35                    | 112                                  | 1.105           | 124                               | 12.82              | -38.4%                                | 3,533             | -3.6%                                 | 3.63                    | -36.0%                                | 22.11                  | -24.2%                  |
| 2009.2            | 156                  | 9,737            | 93                    | 409                                  | 1.105           | 452                               | 46.45              | 47.8%                                 | 4,863             | 14.2%                                 | 9.55                    | 29.4%                                 |                        |                         |
| 2010.1            | 150                  | 9,750            | 36                    | 206                                  | 1.102           | 227                               | 23.32              | 81.9%                                 | 6,316             | 78.8%                                 | 3.69                    | 1.7%                                  | 34.88                  | 57.7%                   |
| 2010.2            | 144                  | 9,692            | 132                   | 419                                  | 1.102           | 461                               | 47.58              | 2.4%                                  | 3,493             | -28.2%                                | 13.62                   | 42.6%                                 |                        |                         |
| 2011.1            | 138                  | 9,663            | 47                    | 193                                  | 1.095           | 211                               | 21.81              | -6.5%                                 | 4,483             | -29.0%                                | 4.86                    | 31.7%                                 | 34.71                  | -0.5%                   |
| 2011.2            | 132                  | 9,482            | 84                    | 351                                  | 1.095           | 384                               | 40.53              | -14.8%                                | 4,575             | 31.0%                                 | 8.86                    | -35.0%                                |                        |                         |
| 2012.1            | 126                  | 9,469            | 34                    | 184                                  | 1.091           | 201                               | 21.19              | -2.8%                                 | 5,902             | 31.6%                                 | 3.59                    | -26.2%                                | 30.87                  | -11.1%                  |
| 2012.2            | 120                  | 9,183            | 170                   | 678                                  | 1.091           | 740                               | 80.54              | 98.7%                                 | 4,351             | -4.9%                                 | 18.51                   | 109.0%                                |                        |                         |
| 2013.1            | 114                  | 9,104            | 69                    | 319                                  | 1.099           | 350                               | 38.48              | 81.6%                                 | 5,077             | -14.0%                                | 7.58                    | 111.1%                                | 59.60                  | 93.1%                   |
| 2013.2            | 108                  | 8,724            | 84                    | 327                                  | 1.099           | 360                               | 41.25              | -48.8%                                | 4,284             | -1.5%                                 | 9.63                    | -48.0%                                |                        |                         |
| 2014.1            | 102                  | 8,766            | 46                    | 263                                  | 1.093           | 288                               | 32.81              | -14.7%                                | 6,253             | 23.2%                                 | 5.25                    | -30.8%                                | 37.02                  | -37.9%                  |
| 2014.2            | 96                   | 8,612            | 138                   | 594                                  | 1.093           | 649                               | 75.34              | 82.6%                                 | 4,701             | 9.7%                                  | 16.02                   | 66.4%                                 |                        |                         |
| 2015.1            | 90                   | 8,717            | 54                    | 255                                  | 1.103           | 281                               | 32.27              | -1.7%                                 | 5,209             | -16.7%                                | 6.19                    | 18.1%                                 | 53.67                  | 45.0%                   |
| 2015.2            | 84                   | 8,615            | 129                   | 534                                  | 1.103           | 589                               | 68.39              | -9.2%                                 | 4,567             | -2.9%                                 | 14.97                   | -6.5%                                 |                        |                         |
| 2016.1            | 78                   | 8,882            | 72                    | 444                                  | 1.085           | 482                               | 54.26              | 68.2%                                 | 6,693             | 28.5%                                 | 8.11                    | 30.9%                                 | 61.21                  | 14.1%                   |
| 2016.2            | 72                   | 8,950            | 139                   | 622                                  | 1.085           | 675                               | 75.44              | 10.3%                                 | 4,858             | 6.4%                                  | 15.53                   | 3.7%                                  |                        |                         |
| 2017.1            | 66                   | 9,325            | 70                    | 369                                  | 1.092           | 403                               | 43.20              | -20.4%                                | 5,755             | -14.0%                                | 7.51                    | -7.4%                                 | 58.99                  | -3.6%                   |
| 2017.2            | 60                   | 9,800            | 127                   | 678                                  | 1.092           | 740                               | 75.54              | 0.1%                                  | 5,829             | 20.0%                                 | 12.96                   | -16.6%                                |                        |                         |
| 2018.1            | 54                   | 10,816           | 70                    | 510                                  | 1.101           | 562                               | 51.94              | 20.2%                                 | 8,026             | 39.5%                                 | 6.47                    | -13.8%                                | 63.16                  | 7.1%                    |
| 2018.2            | 48                   | 10,677           | 111                   | 597                                  | 1.101           | 657                               | 61.54              | -18.5%                                | 5,920             | 1.6%                                  | 10.40                   | -19.8%                                |                        |                         |
| 2019.1            | 42                   | 10,875           | 75                    | 402                                  | 1.108           | 446                               | 40.99              | -21.1%                                | 5,947             | -25.9%                                | 6.89                    | 6.5%                                  | 51.17                  | -19.0%                  |
| 2019.2            | 36                   | 10,927           | 119                   | 549                                  | 1.108           | 608                               | 55.69              | -9.5%                                 | 5,113             | -13.6%                                | 10.89                   | 4.8%                                  |                        |                         |
| 2020.1            | 30                   | 11,648           | 146                   | 816                                  | 1.103           | 900                               | 77.26              | 88.5%                                 | 6,161             | 3.6%                                  | 12.54                   | 81.9%                                 | 66.82                  | 30.6%                   |
| 2020.2            | 24                   | 11,640           | 131                   | 624                                  | 1.103           | 688                               | 59.12              | 6.2%                                  | 5,253             | 2.7%                                  | 11.25                   | 3.3%                                  |                        |                         |
| 2021.1            | 18                   | 12,067           | 87                    | 463                                  | 1.126           | 521                               | 43.20              | -44.1%                                | 5,973             | -3.0%                                 | 7.23                    | -42.3%                                | 51.02                  | -23.6%                  |
| 2021.2            | 12                   | 12,034           | 137                   | 811                                  | 1.126           | 914                               | 75.94              | 28.5%                                 | 6,650             | 26.6%                                 | 11.42                   | 1.5%                                  |                        |                         |
| 2022.1            | 6                    | 12,351           | 69                    | 414                                  | 1.126           | 467                               | 37.77              | -12.6%                                | 6,783             | 13.5%                                 | 5.57                    | -23.0%                                | 56.61                  | 11.0%                   |
| Total             |                      | 438,491          | 3,944                 | 16,484                               |                 | 18,118                            |                    |                                       |                   |                                       |                         |                                       |                        |                         |



Province of Alberta  
Underinsured Motorist  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

Loss Cost Summary  
Data as of 30 Jun 2022

| (1)               | (2)                  | (3)              | (4)                   | (5)                                  | (6)             | (7)                               | (8)                | (9)                                   | (10)              | (11)                                  | (12)                    | (13)                                  | (14)                   | (15)                    |
|-------------------|----------------------|------------------|-----------------------|--------------------------------------|-----------------|-----------------------------------|--------------------|---------------------------------------|-------------------|---------------------------------------|-------------------------|---------------------------------------|------------------------|-------------------------|
| Accident Semester | Maturity (in Months) | Earned Car Years | Ultimate Claim Counts | Ultimate Claim Amount and ALAE (000) | ULAE Adjustment | Ultimate Claim Amount & LAE (000) | Ultimate Loss Cost | % Change Seasonal Accident Half Years | Ultimate Severity | % Change Seasonal Accident Half Years | Ultimate Freq. per 1000 | % Change Seasonal Accident Half Years | Annual Loss Cost & LAE | % Change Accident Years |
| 2002.2            | 240                  | 846,295          | 31                    | 2,797                                | 1,089           | 3,046                             | 3.60               |                                       | 98,263            |                                       | 0.04                    |                                       |                        |                         |
| 2003.1            | 234                  | 756,040          | 10                    | 879                                  | 1,093           | 960                               | 1.27               |                                       | 96,043            |                                       | 0.01                    |                                       | 2.50                   |                         |
| 2003.2            | 228                  | 775,095          | 20                    | 2,973                                | 1,093           | 3,249                             | 4.19               | 16.5%                                 | 162,448           | 65.3%                                 | 0.03                    | -29.6%                                |                        |                         |
| 2004.1            | 222                  | 761,568          | 11                    | 2,441                                | 1,103           | 2,692                             | 3.54               | 178.3%                                | 244,751           | 154.8%                                | 0.01                    | 9.2%                                  | 3.87                   | 54.6%                   |
| 2004.2            | 216                  | 786,350          | 16                    | 2,631                                | 1,103           | 2,902                             | 3.69               | -12.0%                                | 181,365           | 11.6%                                 | 0.02                    | -21.1%                                |                        |                         |
| 2005.1            | 210                  | 774,687          | 25                    | 3,786                                | 1,097           | 4,155                             | 5.36               | 51.7%                                 | 166,187           | -32.1%                                | 0.03                    | 123.4%                                | 4.52                   | 16.9%                   |
| 2005.2            | 204                  | 811,810          | 12                    | 5,284                                | 1,097           | 5,798                             | 7.14               | 93.5%                                 | 483,197           | 166.4%                                | 0.01                    | -27.4%                                |                        |                         |
| 2006.1            | 198                  | 809,744          | 19                    | 4,715                                | 1,087           | 5,123                             | 6.33               | 18.0%                                 | 269,629           | 62.2%                                 | 0.02                    | -27.3%                                | 6.74                   | 49.0%                   |
| 2006.2            | 192                  | 855,046          | 21                    | 4,444                                | 1,087           | 4,828                             | 5.65               | -20.9%                                | 229,909           | -52.4%                                | 0.02                    | 66.2%                                 |                        |                         |
| 2007.1            | 186                  | 852,944          | 8                     | 1,300                                | 1,089           | 1,416                             | 1.66               | -73.8%                                | 176,962           | -34.4%                                | 0.01                    | -60.0%                                | 3.66                   | -45.7%                  |
| 2007.2            | 180                  | 899,626          | 22                    | 5,100                                | 1,089           | 5,553                             | 6.17               | 9.3%                                  | 252,423           | 9.8%                                  | 0.02                    | -0.4%                                 |                        |                         |
| 2008.1            | 174                  | 1,038,913        | 8                     | 2,623                                | 1,084           | 2,842                             | 2.74               | 64.8%                                 | 355,233           | 100.7%                                | 0.01                    | -17.9%                                | 4.33                   | 18.5%                   |
| 2008.2            | 168                  | 1,084,284        | 17                    | 2,815                                | 1,084           | 3,050                             | 2.81               | -54.4%                                | 179,406           | -28.9%                                | 0.02                    | -35.9%                                |                        |                         |
| 2009.1            | 162                  | 1,067,335        | 12                    | 3,507                                | 1,105           | 3,875                             | 3.63               | 32.7%                                 | 322,958           | -9.1%                                 | 0.01                    | 46.0%                                 | 3.22                   | -25.7%                  |
| 2009.2            | 156                  | 1,106,400        | 23                    | 4,738                                | 1,105           | 5,236                             | 4.73               | 68.3%                                 | 228,635           | 27.4%                                 | 0.02                    | 32.0%                                 |                        |                         |
| 2010.1            | 150                  | 1,089,429        | 15                    | 4,764                                | 1,102           | 5,248                             | 4.82               | 32.7%                                 | 355,403           | 10.0%                                 | 0.01                    | 20.6%                                 | 4.77                   | 48.3%                   |
| 2010.2            | 144                  | 1,137,651        | 14                    | 1,982                                | 1,102           | 2,183                             | 1.92               | -59.5%                                | 159,544           | -30.2%                                | 0.01                    | -41.9%                                |                        |                         |
| 2011.1            | 138                  | 1,118,918        | 10                    | 2,198                                | 1,095           | 2,406                             | 2.15               | -55.4%                                | 247,812           | -30.3%                                | 0.01                    | -36.0%                                | 2.03                   | -57.4%                  |
| 2011.2            | 132                  | 1,168,796        | 28                    | 7,267                                | 1,095           | 7,954                             | 6.81               | 254.6%                                | 285,290           | 78.8%                                 | 0.02                    | 98.3%                                 |                        |                         |
| 2012.1            | 126                  | 1,161,584        | 17                    | 3,500                                | 1,091           | 3,820                             | 3.29               | 52.8%                                 | 228,569           | -7.8%                                 | 0.01                    | 65.8%                                 | 5.05                   | 148.4%                  |
| 2012.2            | 120                  | 1,211,403        | 20                    | 8,093                                | 1,091           | 8,831                             | 7.29               | 7.1%                                  | 437,090           | 53.2%                                 | 0.02                    | -30.1%                                |                        |                         |
| 2013.1            | 114                  | 1,201,134        | 18                    | 2,304                                | 1,099           | 2,533                             | 2.11               | -35.9%                                | 137,326           | -39.9%                                | 0.02                    | 6.7%                                  | 4.71                   | -6.8%                   |
| 2013.2            | 108                  | 1,259,942        | 25                    | 3,734                                | 1,099           | 4,106                             | 3.26               | -55.3%                                | 163,375           | -62.6%                                | 0.02                    | 19.6%                                 |                        |                         |
| 2014.1            | 102                  | 1,245,974        | 15                    | 2,083                                | 1,093           | 2,277                             | 1.83               | -13.3%                                | 155,705           | 13.4%                                 | 0.01                    | -23.6%                                | 2.55                   | -45.9%                  |
| 2014.2            | 96                   | 1,305,284        | 30                    | 5,937                                | 1,093           | 6,490                             | 4.97               | 52.6%                                 | 219,960           | 34.6%                                 | 0.02                    | 13.3%                                 |                        |                         |
| 2015.1            | 90                   | 1,286,322        | 26                    | 8,680                                | 1,103           | 9,573                             | 7.44               | 307.2%                                | 363,838           | 133.7%                                | 0.02                    | 74.3%                                 | 6.20                   | 143.3%                  |
| 2015.2            | 84                   | 1,329,726        | 27                    | 7,323                                | 1,103           | 8,076                             | 6.07               | 22.2%                                 | 300,126           | 36.4%                                 | 0.02                    | -10.5%                                |                        |                         |
| 2016.1            | 78                   | 1,304,043        | 22                    | 5,978                                | 1,085           | 6,485                             | 4.97               | -33.2%                                | 299,797           | -17.6%                                | 0.02                    | -18.9%                                | 5.53                   | -10.8%                  |
| 2016.2            | 72                   | 1,334,355        | 31                    | 10,081                               | 1,085           | 10,937                            | 8.20               | 35.0%                                 | 354,968           | 18.3%                                 | 0.02                    | 14.1%                                 |                        |                         |
| 2017.1            | 66                   | 1,303,725        | 18                    | 5,260                                | 1,092           | 5,741                             | 4.40               | -11.4%                                | 314,738           | 5.0%                                  | 0.01                    | -15.7%                                | 6.32                   | 14.4%                   |
| 2017.2            | 60                   | 1,347,009        | 31                    | 8,588                                | 1,092           | 9,374                             | 6.96               | -15.1%                                | 303,797           | -14.4%                                | 0.02                    | -0.8%                                 |                        |                         |
| 2018.1            | 54                   | 1,326,266        | 23                    | 8,095                                | 1,101           | 8,911                             | 6.72               | 52.6%                                 | 384,331           | 22.1%                                 | 0.02                    | 24.9%                                 | 6.84                   | 8.2%                    |
| 2018.2            | 48                   | 1,372,688        | 30                    | 6,038                                | 1,101           | 6,646                             | 4.84               | -30.4%                                | 224,974           | -25.9%                                | 0.02                    | -6.0%                                 |                        |                         |
| 2019.1            | 42                   | 1,341,145        | 27                    | 6,211                                | 1,108           | 6,881                             | 5.13               | -23.6%                                | 254,320           | -33.8%                                | 0.02                    | 15.4%                                 | 4.98                   | -27.1%                  |
| 2019.2            | 36                   | 1,376,104        | 34                    | 7,137                                | 1,108           | 7,907                             | 5.75               | 18.7%                                 | 229,786           | 2.1%                                  | 0.03                    | 16.2%                                 |                        |                         |
| 2020.1            | 30                   | 1,336,660        | 19                    | 4,332                                | 1,103           | 4,777                             | 3.57               | -30.3%                                | 256,162           | 0.7%                                  | 0.01                    | -30.8%                                | 4.68                   | -6.2%                   |
| 2020.2            | 24                   | 1,371,623        | 30                    | 9,696                                | 1,103           | 10,692                            | 7.80               | 35.7%                                 | 353,763           | 54.0%                                 | 0.02                    | -11.9%                                |                        |                         |
| 2021.1            | 18                   | 1,343,023        | 11                    | 1,732                                | 1,126           | 1,950                             | 1.45               | -59.4%                                | 175,163           | -31.6%                                | 0.01                    | -40.6%                                | 4.66                   | -0.4%                   |
| 2021.2            | 12                   | 1,385,434        | 19                    | 5,630                                | 1,126           | 6,341                             | 4.58               | -41.3%                                | 339,804           | -3.9%                                 | 0.01                    | -38.9%                                |                        |                         |
| 2022.1            | 6                    | 1,354,016        | 32                    | 7,213                                | 1,126           | 8,123                             | 6.00               | 313.1%                                | 251,200           | 43.4%                                 | 0.02                    | 188.1%                                | 5.28                   | 13.4%                   |
| Total             |                      | 45,238,391       | 826                   | 193,887                              |                 | 212,989                           |                    |                                       |                   |                                       |                         |                                       |                        |                         |



Province of Alberta  
Third Party Liability - Bodily Injury  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

**Selected Ultimate Claim Amount and ALAE Estimate**  
**Data as of 30 Jun 2022**

| (1)   | (2)                  | (3)                              | (4)   | (5)  | (6)  |
|---|----------------------|----------------------------------|---|--|--|
| Reported Incurred Claim Amount and ALAE: Development Method |                      |                                  |   |  |  |
| Accident Semester   | Maturity (in Months) | Paid Claim Amount and ALAE (000) | Reported Incurred Claim Amount and ALAE (000) | Selected Age-to-Ultimate Development Factors | Selected Ultimate Claim Amount and ALAE Estimate |
| 2002.2  | 240                  | 332,222                          | 332,222                                       | 1.000  | 332,222  |
| 2003.1  | 234                  | 283,929                          | 284,490                                       | 1.000  | 284,490  |
| 2003.2  | 228                  | 292,026                          | 292,026                                       | 1.000  | 292,026  |
| 2004.1  | 222                  | 245,554                          | 245,554                                       | 1.000  | 245,554  |
| 2004.2  | 216                  | 232,378                          | 232,378                                       | 1.000  | 232,381  |
| 2005.1  | 210                  | 188,330                          | 188,337                                       | 1.000  | 188,356  |
| 2005.2  | 204                  | 218,646                          | 218,726                                       | 1.000  | 218,754  |
| 2006.1  | 198                  | 193,296                          | 193,297                                       | 1.000  | 193,291  |
| 2006.2  | 192                  | 249,531                          | 250,305                                       | 1.000  | 250,239  |
| 2007.1  | 186                  | 199,996                          | 201,413                                       | 1.000  | 201,325  |
| 2007.2  | 180                  | 255,936                          | 256,602                                       | 1.000  | 256,490  |
| 2008.1  | 174                  | 229,494                          | 229,520                                       | 1.000  | 229,425  |
| 2008.2  | 168                  | 261,212                          | 262,161                                       | 0.999  | 262,022  |
| 2009.1  | 162                  | 210,160                          | 210,873                                       | 0.999  | 210,711  |
| 2009.2  | 156                  | 265,476                          | 266,020                                       | 0.999  | 265,713  |
| 2010.1  | 150                  | 192,169                          | 192,169                                       | 0.999  | 191,978  |
| 2010.2  | 144                  | 271,219                          | 274,388                                       | 0.999  | 274,150  |
| 2011.1  | 138                  | 222,661                          | 225,050                                       | 0.998  | 224,571  |
| 2011.2  | 132                  | 290,549                          | 292,921                                       | 0.999  | 292,696  |
| 2012.1  | 126                  | 267,657                          | 270,152                                       | 1.001  | 270,427  |
| 2012.2  | 120                  | 319,534                          | 327,113                                       | 0.999  | 326,732  |
| 2013.1  | 114                  | 285,823                          | 293,484                                       | 0.999  | 293,078  |
| 2013.2  | 108                  | 356,513                          | 366,926                                       | 1.000  | 366,811  |
| 2014.1  | 102                  | 302,058                          | 312,002                                       | 1.001  | 312,260  |
| 2014.2  | 96                   | 396,680                          | 417,967                                       | 1.001  | 418,393  |
| 2015.1  | 90                   | 345,048                          | 374,179                                       | 1.001  | 374,720  |
| 2015.2  | 84                   | 421,118                          | 464,977                                       | 1.005  | 467,189  |
| 2016.1  | 78                   | 366,830                          | 409,856                                       | 1.003  | 411,237  |
| 2016.2  | 72                   | 417,251                          | 506,572                                       | 1.010  | 511,806  |
| 2017.1  | 66                   | 350,707                          | 440,802                                       | 1.018  | 448,943  |
| 2017.2  | 60                   | 373,831                          | 507,658                                       | 1.030  | 522,990  |
| 2018.1  | 54                   | 313,416                          | 469,967                                       | 1.051  | 493,995  |
| 2018.2  | 48                   | 288,299                          | 521,011                                       | 1.077  | 561,140  |
| 2019.1  | 42                   | 231,276                          | 487,421                                       | 1.124  | 547,692  |
| 2019.2  | 36                   | 186,382                          | 507,709                                       | 1.208  | 613,371  |
| 2020.1  | 30                   | 85,170                           | 311,557                                       | 1.332  | 414,853  |
| 2020.2  | 24                   | 52,725                           | 293,934                                       | 1.533  | 450,651  |
| 2021.1  | 18                   | 24,109                           | 205,772                                       | 1.783  | 366,990  |
| 2021.2  | 12                   | 14,084                           | 228,594                                       | 2.112  | 482,864  |
| 2022.1  | 6                    | 1,732                            | 118,181                                       | 2.907  | 343,535  |
| Total   |                      | 10,035,029                       | 12,484,288                                    |  | 13,646,071                                       |

Province of Alberta  
Third Party Liability - Property Damage  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

**Selected Ultimate Claim Amount and ALAE Estimate**  
**Data as of 30 Jun 2022**

| (1)   | (2)                  | (3)                              | (4)   | (5)  | (6)  |
|---|----------------------|----------------------------------|---|--|--|
| Reported Incurred Claim Amount and ALAE: Development Method |                      |                                  |   |  |  |
| Accident Semester   | Maturity (in Months) | Paid Claim Amount and ALAE (000) | Reported Incurred Claim Amount and ALAE (000) | Selected Age-to-Ultimate Development Factors | Selected Ultimate Claim Amount and ALAE Estimate |
| 2002.2  | 240                  | 84,764                           | 84,764  | 1.000  | 84,764   |
| 2003.1  | 234                  | 79,821                           | 79,853  | 1.000  | 79,853   |
| 2003.2  | 228                  | 78,167                           | 78,167  | 1.000  | 78,167   |
| 2004.1  | 222                  | 73,246                           | 73,246  | 1.000  | 73,246   |
| 2004.2  | 216                  | 84,640                           | 84,640  | 1.000  | 84,640   |
| 2005.1  | 210                  | 83,059                           | 83,059  | 1.000  | 83,059   |
| 2005.2  | 204                  | 99,750                           | 99,750  | 1.000  | 99,750   |
| 2006.1  | 198                  | 98,202                           | 98,202  | 1.000  | 98,202   |
| 2006.2  | 192                  | 130,654                          | 130,655                                       | 1.000  | 130,655  |
| 2007.1  | 186                  | 126,376                          | 126,376                                       | 1.000  | 126,376  |
| 2007.2  | 180                  | 150,265                          | 150,265                                       | 1.000  | 150,265  |
| 2008.1  | 174                  | 141,016                          | 141,016                                       | 1.000  | 141,016  |
| 2008.2  | 168                  | 156,642                          | 156,642                                       | 1.000  | 156,642  |
| 2009.1  | 162                  | 140,589                          | 140,589                                       | 1.000  | 140,589  |
| 2009.2  | 156                  | 158,899                          | 158,899                                       | 1.000  | 158,899  |
| 2010.1  | 150                  | 132,574                          | 132,574                                       | 1.000  | 132,574  |
| 2010.2  | 144                  | 162,926                          | 162,926                                       | 1.000  | 162,926  |
| 2011.1  | 138                  | 163,580                          | 163,580                                       | 1.000  | 163,580  |
| 2011.2  | 132                  | 160,424                          | 160,424                                       | 1.000  | 160,424  |
| 2012.1  | 126                  | 150,261                          | 150,263                                       | 1.000  | 150,263  |
| 2012.2  | 120                  | 190,260                          | 190,263                                       | 1.000  | 190,263  |
| 2013.1  | 114                  | 168,488                          | 168,505                                       | 1.000  | 168,505  |
| 2013.2  | 108                  | 205,307                          | 205,422                                       | 1.000  | 205,422  |
| 2014.1  | 102                  | 183,995                          | 184,006                                       | 1.000  | 184,006  |
| 2014.2  | 96                   | 211,349                          | 211,470                                       | 1.000  | 211,470  |
| 2015.1  | 90                   | 195,380                          | 195,382                                       | 1.000  | 195,382  |
| 2015.2  | 84                   | 212,338                          | 212,358                                       | 1.000  | 212,358  |
| 2016.1  | 78                   | 180,171                          | 180,311                                       | 1.000  | 180,311  |
| 2016.2  | 72                   | 210,557                          | 210,696                                       | 1.000  | 210,599  |
| 2017.1  | 66                   | 205,710                          | 205,779                                       | 1.000  | 205,684  |
| 2017.2  | 60                   | 221,913                          | 221,941                                       | 0.999  | 221,822  |
| 2018.1  | 54                   | 223,926                          | 224,495                                       | 0.999  | 224,326  |
| 2018.2  | 48                   | 213,528                          | 213,983                                       | 0.999  | 213,788  |
| 2019.1  | 42                   | 211,315                          | 212,137                                       | 0.999  | 211,965  |
| 2019.2  | 36                   | 213,327                          | 214,187                                       | 1.000  | 214,141  |
| 2020.1  | 30                   | 144,992                          | 146,088                                       | 1.000  | 146,027  |
| 2020.2  | 24                   | 142,540                          | 145,048                                       | 1.002  | 145,344  |
| 2021.1  | 18                   | 126,954                          | 137,876                                       | 1.017  | 140,186  |
| 2021.2  | 12                   | 141,592                          | 191,753                                       | 1.046  | 200,564  |
| 2022.1  | 6                    | 111,162                          | 178,815                                       | 1.153  | 206,128  |
| Total   |                      | 6,170,661                        | 6,306,407                                     |  | 6,344,180  |

Province of Alberta  
Accident Benefits - Total  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

**Selected Ultimate Claim Amount and ALAE Estimate**  
**Data as of 30 Jun 2022**

| (1)   | (2)                  | (3)                              | (4)   | (5)  | (6)  |
|---|----------------------|----------------------------------|---|--|--|
| Reported Incurred Claim Amount and ALAE: Development Method |                      |                                  |   |  |  |
| Accident Semester   | Maturity (in Months) | Paid Claim Amount and ALAE (000) | Reported Incurred Claim Amount and ALAE (000) | Selected Age-to-Ultimate Development Factors | Selected Ultimate Claim Amount and ALAE Estimate |
| 2002.2  | 240                  | 36,695                           | 36,695  | 1.000  | 36,695   |
| 2003.1  | 234                  | 28,761                           | 28,761  | 1.000  | 28,761   |
| 2003.2  | 228                  | 30,707                           | 30,707  | 1.000  | 30,707   |
| 2004.1  | 222                  | 25,600                           | 25,600  | 1.000  | 25,600   |
| 2004.2  | 216                  | 31,950                           | 31,950  | 1.000  | 31,950   |
| 2005.1  | 210                  | 29,206                           | 29,260  | 1.000  | 29,260   |
| 2005.2  | 204                  | 38,993                           | 38,993  | 1.000  | 38,993   |
| 2006.1  | 198                  | 27,918                           | 27,918  | 1.000  | 27,918   |
| 2006.2  | 192                  | 36,355                           | 36,355  | 1.000  | 36,355   |
| 2007.1  | 186                  | 30,836                           | 30,836  | 1.000  | 30,836   |
| 2007.2  | 180                  | 41,208                           | 41,278  | 1.000  | 41,280   |
| 2008.1  | 174                  | 33,034                           | 33,097  | 1.000  | 33,097   |
| 2008.2  | 168                  | 44,714                           | 44,847  | 1.000  | 44,826   |
| 2009.1  | 162                  | 35,873                           | 35,873  | 1.000  | 35,857   |
| 2009.2  | 156                  | 43,626                           | 43,713  | 1.000  | 43,716   |
| 2010.1  | 150                  | 34,444                           | 34,453  | 1.000  | 34,467   |
| 2010.2  | 144                  | 44,015                           | 45,635  | 1.000  | 45,647   |
| 2011.1  | 138                  | 36,065                           | 36,067  | 1.001  | 36,098   |
| 2011.2  | 132                  | 44,848                           | 44,853  | 1.001  | 44,920   |
| 2012.1  | 126                  | 39,334                           | 40,636  | 1.002  | 40,708   |
| 2012.2  | 120                  | 50,104                           | 54,612  | 1.004  | 54,854   |
| 2013.1  | 114                  | 40,682                           | 41,274  | 1.005  | 41,484   |
| 2013.2  | 108                  | 50,430                           | 53,132  | 1.008  | 53,569   |
| 2014.1  | 102                  | 41,687                           | 41,824  | 1.008  | 42,158   |
| 2014.2  | 96                   | 55,057                           | 55,872  | 1.009  | 56,391   |
| 2015.1  | 90                   | 51,903                           | 52,089  | 1.009  | 52,581   |
| 2015.2  | 84                   | 65,191                           | 69,051  | 1.008  | 69,581   |
| 2016.1  | 78                   | 53,680                           | 53,928  | 1.007  | 54,283   |
| 2016.2  | 72                   | 71,185                           | 73,787  | 1.005  | 74,190   |
| 2017.1  | 66                   | 67,909                           | 71,022  | 1.004  | 71,337   |
| 2017.2  | 60                   | 76,661                           | 81,680  | 1.008  | 82,326   |
| 2018.1  | 54                   | 75,979                           | 83,188  | 1.013  | 84,273   |
| 2018.2  | 48                   | 77,282                           | 80,635  | 1.015  | 81,839   |
| 2019.1  | 42                   | 80,351                           | 82,461  | 1.019  | 84,020   |
| 2019.2  | 36                   | 90,000                           | 94,728  | 1.026  | 97,156   |
| 2020.1  | 30                   | 61,647                           | 63,825  | 1.031  | 65,775   |
| 2020.2  | 24                   | 71,032                           | 85,814  | 0.994  | 85,274   |
| 2021.1  | 18                   | 53,851                           | 72,780  | 1.051  | 76,460   |
| 2021.2  | 12                   | 53,726                           | 103,914                                       | 1.097  | 113,951  |
| 2022.1  | 6                    | 17,129                           | 80,226  | 1.186  | 95,127   |
| Total   |                      | 1,919,669                        | 2,113,369                                     |  | 2,154,321  |

Province of Alberta  
Collision  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

**Selected Ultimate Claim Amount and ALAE Estimate**  
**Data as of 30 Jun 2022**

| (1)   | (2)                  | (3)                              | (4)   | (5)  | (6)  |
|---|----------------------|----------------------------------|---|--|--|
| Reported Incurred Claim Amount and ALAE: Development Method |                      |                                  |   |  |  |
| Accident Semester   | Maturity (in Months) | Paid Claim Amount and ALAE (000) | Reported Incurred Claim Amount and ALAE (000) | Selected Age-to-Ultimate Development Factors | Selected Ultimate Claim Amount and ALAE Estimate |
| 2002.2  | 240                  | 96,344                           | 96,345  | 1.000  | 96,345   |
| 2003.1  | 234                  | 94,905                           | 94,905  | 1.000  | 94,905   |
| 2003.2  | 228                  | 87,392                           | 87,392  | 1.000  | 87,392   |
| 2004.1  | 222                  | 88,273                           | 88,273  | 1.000  | 88,273   |
| 2004.2  | 216                  | 97,192                           | 97,192  | 1.000  | 97,192   |
| 2005.1  | 210                  | 98,079                           | 98,079  | 1.000  | 98,079   |
| 2005.2  | 204                  | 118,370                          | 118,375                                       | 1.000  | 118,375  |
| 2006.1  | 198                  | 120,848                          | 120,847                                       | 1.000  | 120,847  |
| 2006.2  | 192                  | 166,715                          | 166,712                                       | 1.000  | 166,712  |
| 2007.1  | 186                  | 166,217                          | 166,219                                       | 1.000  | 166,219  |
| 2007.2  | 180                  | 187,938                          | 187,943                                       | 1.000  | 187,943  |
| 2008.1  | 174                  | 181,609                          | 181,609                                       | 1.000  | 181,609  |
| 2008.2  | 168                  | 195,128                          | 195,129                                       | 1.000  | 195,129  |
| 2009.1  | 162                  | 170,086                          | 170,086                                       | 1.000  | 170,086  |
| 2009.2  | 156                  | 188,210                          | 188,211                                       | 1.000  | 188,211  |
| 2010.1  | 150                  | 144,607                          | 144,608                                       | 1.000  | 144,608  |
| 2010.2  | 144                  | 176,244                          | 176,246                                       | 1.000  | 176,246  |
| 2011.1  | 138                  | 184,204                          | 184,205                                       | 1.000  | 184,205  |
| 2011.2  | 132                  | 170,540                          | 170,544                                       | 1.000  | 170,544  |
| 2012.1  | 126                  | 162,389                          | 162,396                                       | 1.000  | 162,396  |
| 2012.2  | 120                  | 206,741                          | 206,743                                       | 1.000  | 206,743  |
| 2013.1  | 114                  | 182,688                          | 182,695                                       | 1.000  | 182,695  |
| 2013.2  | 108                  | 227,850                          | 227,861                                       | 1.000  | 227,861  |
| 2014.1  | 102                  | 203,597                          | 203,614                                       | 1.000  | 203,614  |
| 2014.2  | 96                   | 237,768                          | 237,791                                       | 1.000  | 237,791  |
| 2015.1  | 90                   | 217,196                          | 217,234                                       | 1.000  | 217,230  |
| 2015.2  | 84                   | 232,348                          | 232,484                                       | 1.000  | 232,461  |
| 2016.1  | 78                   | 201,684                          | 201,718                                       | 1.000  | 201,682  |
| 2016.2  | 72                   | 251,335                          | 251,363                                       | 1.000  | 251,307  |
| 2017.1  | 66                   | 238,240                          | 238,267                                       | 1.000  | 238,179  |
| 2017.2  | 60                   | 262,360                          | 262,395                                       | 0.999  | 262,247  |
| 2018.1  | 54                   | 261,750                          | 261,941                                       | 0.999  | 261,743  |
| 2018.2  | 48                   | 260,078                          | 260,215                                       | 0.999  | 260,013  |
| 2019.1  | 42                   | 255,095                          | 255,272                                       | 0.999  | 255,040  |
| 2019.2  | 36                   | 249,691                          | 250,048                                       | 0.999  | 249,726  |
| 2020.1  | 30                   | 175,638                          | 176,023                                       | 0.997  | 175,543  |
| 2020.2  | 24                   | 169,037                          | 169,809                                       | 0.990  | 168,141  |
| 2021.1  | 18                   | 144,441                          | 147,612                                       | 0.974  | 143,747  |
| 2021.2  | 12                   | 239,903                          | 264,604                                       | 0.903  | 238,865  |
| 2022.1  | 6                    | 150,598                          | 212,297                                       | 0.686  | 145,687  |
| Total   |                      | 7,263,328                        | 7,355,300                                     |  | 7,255,630  |



Province of Alberta  
Comprehensive - Total  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

**Selected Ultimate Claim Amount and ALAE Estimate**  
**Data as of 30 Jun 2022**

| (1)   | (2)                  | (3)                              | (4)   | (5)  | (6)  |
|---|----------------------|----------------------------------|---|--|--|
| Reported Incurred Claim Amount and ALAE: Development Method |                      |                                  |   |  |  |
| Accident Semester   | Maturity (in Months) | Paid Claim Amount and ALAE (000) | Reported Incurred Claim Amount and ALAE (000) | Selected Age-to-Ultimate Development Factors | Selected Ultimate Claim Amount and ALAE Estimate |
| 2002.2  | 240                  | 54,246                           | 54,246  | 1.000  | 54,246   |
| 2003.1  | 234                  | 44,058                           | 44,058  | 1.000  | 44,058   |
| 2003.2  | 228                  | 63,967                           | 63,967  | 1.000  | 63,967   |
| 2004.1  | 222                  | 41,135                           | 41,135  | 1.000  | 41,135   |
| 2004.2  | 216                  | 84,072                           | 84,072  | 1.000  | 84,072   |
| 2005.1  | 210                  | 77,572                           | 77,572  | 1.000  | 77,572   |
| 2005.2  | 204                  | 76,082                           | 76,089  | 1.000  | 76,089   |
| 2006.1  | 198                  | 58,706                           | 58,706  | 1.000  | 58,706   |
| 2006.2  | 192                  | 98,467                           | 98,467  | 1.000  | 98,465   |
| 2007.1  | 186                  | 88,133                           | 88,135  | 1.000  | 88,133   |
| 2007.2  | 180                  | 145,950                          | 145,950                                       | 1.000  | 145,947  |
| 2008.1  | 174                  | 80,136                           | 80,136  | 1.000  | 80,136   |
| 2008.2  | 168                  | 132,052                          | 132,052                                       | 1.000  | 132,050  |
| 2009.1  | 162                  | 77,129                           | 77,129  | 1.000  | 77,127   |
| 2009.2  | 156                  | 150,053                          | 150,053                                       | 1.000  | 150,048  |
| 2010.1  | 150                  | 73,625                           | 73,627  | 1.000  | 73,625   |
| 2010.2  | 144                  | 295,789                          | 295,789                                       | 1.000  | 295,775  |
| 2011.1  | 138                  | 72,845                           | 72,845  | 1.000  | 72,840   |
| 2011.2  | 132                  | 139,798                          | 139,799                                       | 1.000  | 139,777  |
| 2012.1  | 126                  | 77,495                           | 77,500  | 1.000  | 77,489   |
| 2012.2  | 120                  | 272,095                          | 272,098                                       | 1.000  | 272,065  |
| 2013.1  | 114                  | 125,799                          | 125,800                                       | 1.000  | 125,784  |
| 2013.2  | 108                  | 216,939                          | 216,939                                       | 1.000  | 216,909  |
| 2014.1  | 102                  | 83,143                           | 83,143  | 1.000  | 83,129   |
| 2014.2  | 96                   | 314,766                          | 314,767                                       | 1.000  | 314,714  |
| 2015.1  | 90                   | 107,449                          | 107,462                                       | 1.000  | 107,444  |
| 2015.2  | 84                   | 302,322                          | 302,385                                       | 1.000  | 302,321  |
| 2016.1  | 78                   | 174,219                          | 174,226                                       | 1.000  | 174,193  |
| 2016.2  | 72                   | 381,482                          | 381,483                                       | 1.000  | 381,395  |
| 2017.1  | 66                   | 136,321                          | 136,388                                       | 1.000  | 136,347  |
| 2017.2  | 60                   | 241,290                          | 241,331                                       | 1.000  | 241,251  |
| 2018.1  | 54                   | 128,430                          | 128,485                                       | 1.000  | 128,429  |
| 2018.2  | 48                   | 253,778                          | 253,784                                       | 0.999  | 253,627  |
| 2019.1  | 42                   | 128,411                          | 128,585                                       | 0.999  | 128,493  |
| 2019.2  | 36                   | 240,274                          | 240,522                                       | 0.999  | 240,311  |
| 2020.1  | 30                   | 359,055                          | 359,499                                       | 0.999  | 359,051  |
| 2020.2  | 24                   | 211,085                          | 211,764                                       | 1.000  | 211,854  |
| 2021.1  | 18                   | 107,414                          | 108,618                                       | 0.999  | 108,482  |
| 2021.2  | 12                   | 280,727                          | 289,078                                       | 0.998  | 288,474  |
| 2022.1  | 6                    | 90,900                           | 138,674                                       | 1.018  | 141,217  |
| Total   |                      | 6,087,210                        | 6,146,357                                     |  | 6,146,747  |

Province of Alberta  
Comprehensive - Theft  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

**Selected Ultimate Claim Amount and ALAE Estimate**  
**Data as of 30 Jun 2022**

| (1)   | (2)                  | (3)                              | (4)   | (5)  | (6)  |
|---|----------------------|----------------------------------|---|--|--|
| Reported Incurred Claim Amount and ALAE: Development Method |                      |                                  |   |  |  |
| Accident Semester   | Maturity (in Months) | Paid Claim Amount and ALAE (000) | Reported Incurred Claim Amount and ALAE (000) | Selected Age-to-Ultimate Development Factors | Selected Ultimate Claim Amount and ALAE Estimate |
| 2002.2  | 240                  | 18,713                           | 18,713  | 1.000  | 18,713   |
| 2003.1  | 234                  | 18,169                           | 18,169  | 1.000  | 18,169   |
| 2003.2  | 228                  | 19,575                           | 19,575  | 1.000  | 19,575   |
| 2004.1  | 222                  | 16,889                           | 16,889  | 1.000  | 16,889   |
| 2004.2  | 216                  | 17,891                           | 17,891  | 1.000  | 17,891   |
| 2005.1  | 210                  | 16,794                           | 16,794  | 1.000  | 16,794   |
| 2005.2  | 204                  | 20,562                           | 20,564  | 1.000  | 20,564   |
| 2006.1  | 198                  | 20,503                           | 20,503  | 1.000  | 20,503   |
| 2006.2  | 192                  | 26,796                           | 26,796  | 1.000  | 26,796   |
| 2007.1  | 186                  | 25,651                           | 25,651  | 1.000  | 25,651   |
| 2007.2  | 180                  | 29,980                           | 29,980  | 1.000  | 29,980   |
| 2008.1  | 174                  | 27,751                           | 27,751  | 1.000  | 27,751   |
| 2008.2  | 168                  | 32,526                           | 32,526  | 1.000  | 32,526   |
| 2009.1  | 162                  | 25,140                           | 25,140  | 1.000  | 25,140   |
| 2009.2  | 156                  | 27,662                           | 27,662  | 1.000  | 27,662   |
| 2010.1  | 150                  | 21,249                           | 21,250  | 1.000  | 21,250   |
| 2010.2  | 144                  | 24,129                           | 24,129  | 1.000  | 24,129   |
| 2011.1  | 138                  | 18,948                           | 18,948  | 1.000  | 18,948   |
| 2011.2  | 132                  | 21,066                           | 21,067  | 1.000  | 21,067   |
| 2012.1  | 126                  | 16,708                           | 16,708  | 1.000  | 16,708   |
| 2012.2  | 120                  | 22,810                           | 22,810  | 1.000  | 22,810   |
| 2013.1  | 114                  | 20,532                           | 20,532  | 1.000  | 20,532   |
| 2013.2  | 108                  | 25,538                           | 25,538  | 1.000  | 25,537   |
| 2014.1  | 102                  | 23,365                           | 23,365  | 1.000  | 23,363   |
| 2014.2  | 96                   | 29,951                           | 29,952  | 1.000  | 29,950   |
| 2015.1  | 90                   | 34,563                           | 34,563  | 1.000  | 34,553   |
| 2015.2  | 84                   | 45,126                           | 45,146  | 0.999  | 45,113   |
| 2016.1  | 78                   | 41,491                           | 41,496  | 0.999  | 41,468   |
| 2016.2  | 72                   | 48,498                           | 48,500  | 0.999  | 48,461   |
| 2017.1  | 66                   | 49,191                           | 49,191  | 0.999  | 49,152   |
| 2017.2  | 60                   | 62,090                           | 62,130  | 0.999  | 62,072   |
| 2018.1  | 54                   | 49,493                           | 49,538  | 0.999  | 49,480   |
| 2018.2  | 48                   | 58,462                           | 58,466  | 0.998  | 58,371   |
| 2019.1  | 42                   | 45,274                           | 45,408  | 0.998  | 45,323   |
| 2019.2  | 36                   | 52,333                           | 52,564  | 0.998  | 52,432   |
| 2020.1  | 30                   | 39,219                           | 39,301  | 0.997  | 39,174   |
| 2020.2  | 24                   | 39,302                           | 39,489  | 0.997  | 39,390   |
| 2021.1  | 18                   | 28,794                           | 29,267  | 0.994  | 29,091   |
| 2021.2  | 12                   | 40,101                           | 41,320  | 0.979  | 40,441   |
| 2022.1  | 6                    | 33,998                           | 47,377  | 0.948  | 44,932   |
| Total   |                      | 1,236,832                        | 1,252,659                                     |  | 1,248,353  |

Province of Alberta  
All Perils  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

**Selected Ultimate Claim Amount and ALAE Estimate**  
**Data as of 30 Jun 2022**

| (1)   | (2)                  | (3)                              | (4)   | (5)  | (6)  |
|---|----------------------|----------------------------------|---|--|--|
| Reported Incurred Claim Amount and ALAE: Development Method |                      |                                  |   |  |  |
| Accident Semester   | Maturity (in Months) | Paid Claim Amount and ALAE (000) | Reported Incurred Claim Amount and ALAE (000) | Selected Age-to-Ultimate Development Factors | Selected Ultimate Claim Amount and ALAE Estimate |
| 2002.2  | 240                  | 5,521                            | 5,521   | 1.000  | 5,521  |
| 2003.1  | 234                  | 4,776                            | 4,776   | 1.000  | 4,776  |
| 2003.2  | 228                  | 5,395                            | 5,395   | 1.000  | 5,395  |
| 2004.1  | 222                  | 4,521                            | 4,521   | 1.000  | 4,521  |
| 2004.2  | 216                  | 5,898                            | 5,898   | 1.000  | 5,898  |
| 2005.1  | 210                  | 5,288                            | 5,288   | 1.000  | 5,288  |
| 2005.2  | 204                  | 4,725                            | 4,725   | 1.000  | 4,725  |
| 2006.1  | 198                  | 3,941                            | 3,941   | 1.000  | 3,941  |
| 2006.2  | 192                  | 5,100                            | 5,100   | 1.000  | 5,100  |
| 2007.1  | 186                  | 4,747                            | 4,747   | 1.000  | 4,747  |
| 2007.2  | 180                  | 6,506                            | 6,506   | 1.000  | 6,506  |
| 2008.1  | 174                  | 4,464                            | 4,464   | 1.000  | 4,464  |
| 2008.2  | 168                  | 5,339                            | 5,339   | 1.000  | 5,339  |
| 2009.1  | 162                  | 4,413                            | 4,414   | 1.000  | 4,414  |
| 2009.2  | 156                  | 4,462                            | 4,462   | 1.000  | 4,462  |
| 2010.1  | 150                  | 3,370                            | 3,370   | 1.000  | 3,370  |
| 2010.2  | 144                  | 6,242                            | 6,242   | 1.000  | 6,242  |
| 2011.1  | 138                  | 3,435                            | 3,435   | 1.000  | 3,435  |
| 2011.2  | 132                  | 4,568                            | 4,568   | 1.000  | 4,568  |
| 2012.1  | 126                  | 2,664                            | 2,664   | 1.000  | 2,664  |
| 2012.2  | 120                  | 5,400                            | 5,400   | 1.000  | 5,400  |
| 2013.1  | 114                  | 4,640                            | 4,640   | 1.000  | 4,640  |
| 2013.2  | 108                  | 4,682                            | 4,682   | 1.000  | 4,682  |
| 2014.1  | 102                  | 3,326                            | 3,336   | 1.000  | 3,336  |
| 2014.2  | 96                   | 6,244                            | 6,244   | 1.000  | 6,244  |
| 2015.1  | 90                   | 3,798                            | 3,799   | 1.000  | 3,799  |
| 2015.2  | 84                   | 5,613                            | 5,618   | 1.000  | 5,618  |
| 2016.1  | 78                   | 3,862                            | 3,862   | 1.000  | 3,863  |
| 2016.2  | 72                   | 6,450                            | 6,450   | 1.000  | 6,451  |
| 2017.1  | 66                   | 4,371                            | 4,372   | 1.000  | 4,371  |
| 2017.2  | 60                   | 4,756                            | 4,785   | 1.000  | 4,784  |
| 2018.1  | 54                   | 4,730                            | 4,730   | 0.999  | 4,727  |
| 2018.2  | 48                   | 5,588                            | 5,591   | 0.998  | 5,578  |
| 2019.1  | 42                   | 3,794                            | 3,794   | 0.998  | 3,787  |
| 2019.2  | 36                   | 5,521                            | 5,528   | 0.998  | 5,517  |
| 2020.1  | 30                   | 4,359                            | 4,376   | 0.998  | 4,368  |
| 2020.2  | 24                   | 3,598                            | 3,609   | 0.990  | 3,571  |
| 2021.1  | 18                   | 3,104                            | 3,153   | 0.975  | 3,073  |
| 2021.2  | 12                   | 6,739                            | 7,364   | 0.921  | 6,782  |
| 2022.1  | 6                    | 3,448                            | 4,757   | 0.844  | 4,013  |
| Total   |                      | 189,402                          | 191,467                                       |  | 189,983  |

Province of Alberta  
Specified Perils  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

**Selected Ultimate Claim Amount and ALAE Estimate**  
**Data as of 30 Jun 2022**

| (1)   | (2)                  | (3)                              | (4)   | (5)  | (6)  |
|---|----------------------|----------------------------------|---|--|--|
| Reported Incurred Claim Amount and ALAE: Development Method |                      |                                  |   |  |  |
| Accident Semester   | Maturity (in Months) | Paid Claim Amount and ALAE (000) | Reported Incurred Claim Amount and ALAE (000) | Selected Age-to-Ultimate Development Factors | Selected Ultimate Claim Amount and ALAE Estimate |
| 2002.2  | 240                  | 418                              | 418   | 1.000  | 418  |
| 2003.1  | 234                  | 318                              | 318   | 1.000  | 318  |
| 2003.2  | 228                  | 489                              | 489   | 1.000  | 489  |
| 2004.1  | 222                  | 309                              | 309   | 1.000  | 309  |
| 2004.2  | 216                  | 298                              | 298   | 1.000  | 298  |
| 2005.1  | 210                  | 350                              | 350   | 1.000  | 350  |
| 2005.2  | 204                  | 347                              | 347   | 1.000  | 347  |
| 2006.1  | 198                  | 205                              | 205   | 1.000  | 205  |
| 2006.2  | 192                  | 419                              | 419   | 1.000  | 419  |
| 2007.1  | 186                  | 330                              | 330   | 1.000  | 330  |
| 2007.2  | 180                  | 377                              | 377   | 1.000  | 377  |
| 2008.1  | 174                  | 200                              | 200   | 1.000  | 200  |
| 2008.2  | 168                  | 279                              | 279   | 1.000  | 279  |
| 2009.1  | 162                  | 112                              | 112   | 1.000  | 112  |
| 2009.2  | 156                  | 409                              | 409   | 1.000  | 409  |
| 2010.1  | 150                  | 206                              | 206   | 1.000  | 206  |
| 2010.2  | 144                  | 419                              | 419   | 1.000  | 419  |
| 2011.1  | 138                  | 193                              | 193   | 1.000  | 193  |
| 2011.2  | 132                  | 351                              | 351   | 1.000  | 351  |
| 2012.1  | 126                  | 184                              | 184   | 1.000  | 184  |
| 2012.2  | 120                  | 678                              | 678   | 1.000  | 678  |
| 2013.1  | 114                  | 319                              | 319   | 1.000  | 319  |
| 2013.2  | 108                  | 327                              | 327   | 1.000  | 327  |
| 2014.1  | 102                  | 263                              | 263   | 1.000  | 263  |
| 2014.2  | 96                   | 594                              | 594   | 1.000  | 594  |
| 2015.1  | 90                   | 255                              | 255   | 1.000  | 255  |
| 2015.2  | 84                   | 534                              | 534   | 1.000  | 534  |
| 2016.1  | 78                   | 444                              | 444   | 1.000  | 444  |
| 2016.2  | 72                   | 622                              | 622   | 1.000  | 622  |
| 2017.1  | 66                   | 369                              | 369   | 1.001  | 369  |
| 2017.2  | 60                   | 678                              | 678   | 1.001  | 678  |
| 2018.1  | 54                   | 510                              | 510   | 1.001  | 510  |
| 2018.2  | 48                   | 596                              | 596   | 1.001  | 597  |
| 2019.1  | 42                   | 402                              | 402   | 1.000  | 402  |
| 2019.2  | 36                   | 550                              | 550   | 0.999  | 549  |
| 2020.1  | 30                   | 805                              | 817   | 0.999  | 816  |
| 2020.2  | 24                   | 623                              | 626   | 0.997  | 624  |
| 2021.1  | 18                   | 448                              | 466   | 0.994  | 463  |
| 2021.2  | 12                   | 798                              | 825   | 0.984  | 811  |
| 2022.1  | 6                    | 305                              | 453   | 0.915  | 414  |
| Total   |                      | 16,334                           | 16,541  |  | 16,484   |

Province of Alberta  
Underinsured Motorist  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

**Selected Ultimate Claim Amount and ALAE Estimate**  
**Data as of 30 Jun 2022**

| (1)   | (2)                  | (3)                              | (4)   | (5)  | (6)  |
|---|----------------------|----------------------------------|---|--|--|
| Reported Incurred Claim Amount and ALAE: Development Method |                      |                                  |   |  |  |
| Accident Semester   | Maturity (in Months) | Paid Claim Amount and ALAE (000) | Reported Incurred Claim Amount and ALAE (000) | Selected Age-to-Ultimate Development Factors | Selected Ultimate Claim Amount and ALAE Estimate |
| 2002.2  | 240                  | 2,797                            | 2,797   | 1.000  | 2,797  |
| 2003.1  | 234                  | 874                              | 879   | 1.000  | 879  |
| 2003.2  | 228                  | 2,973                            | 2,973   | 1.000  | 2,973  |
| 2004.1  | 222                  | 2,441                            | 2,441   | 1.000  | 2,441  |
| 2004.2  | 216                  | 2,631                            | 2,631   | 1.000  | 2,631  |
| 2005.1  | 210                  | 3,786                            | 3,786   | 1.000  | 3,786  |
| 2005.2  | 204                  | 5,284                            | 5,284   | 1.000  | 5,284  |
| 2006.1  | 198                  | 4,715                            | 4,715   | 1.000  | 4,715  |
| 2006.2  | 192                  | 4,161                            | 4,444   | 1.000  | 4,444  |
| 2007.1  | 186                  | 1,300                            | 1,300   | 1.000  | 1,300  |
| 2007.2  | 180                  | 5,100                            | 5,100   | 1.000  | 5,100  |
| 2008.1  | 174                  | 2,623                            | 2,623   | 1.000  | 2,623  |
| 2008.2  | 168                  | 2,815                            | 2,815   | 1.000  | 2,815  |
| 2009.1  | 162                  | 3,435                            | 3,507   | 1.000  | 3,507  |
| 2009.2  | 156                  | 4,736                            | 4,736   | 1.000  | 4,738  |
| 2010.1  | 150                  | 4,770                            | 4,770   | 0.999  | 4,764  |
| 2010.2  | 144                  | 1,788                            | 1,990   | 0.996  | 1,982  |
| 2011.1  | 138                  | 2,052                            | 2,213   | 0.993  | 2,198  |
| 2011.2  | 132                  | 6,661                            | 7,363   | 0.987  | 7,267  |
| 2012.1  | 126                  | 3,520                            | 3,520   | 0.995  | 3,500  |
| 2012.2  | 120                  | 8,138                            | 8,189   | 0.988  | 8,093  |
| 2013.1  | 114                  | 2,351                            | 2,351   | 0.980  | 2,304  |
| 2013.2  | 108                  | 3,440                            | 3,816   | 0.978  | 3,734  |
| 2014.1  | 102                  | 1,200                            | 2,106   | 0.989  | 2,083  |
| 2014.2  | 96                   | 5,755                            | 6,097   | 0.974  | 5,937  |
| 2015.1  | 90                   | 7,566                            | 8,898   | 0.976  | 8,680  |
| 2015.2  | 84                   | 5,514                            | 7,541   | 0.971  | 7,323  |
| 2016.1  | 78                   | 4,329                            | 6,177   | 0.968  | 5,978  |
| 2016.2  | 72                   | 6,894                            | 10,556  | 0.955  | 10,081   |
| 2017.1  | 66                   | 2,148                            | 5,379   | 0.978  | 5,260  |
| 2017.2  | 60                   | 2,392                            | 8,736   | 0.983  | 8,588  |
| 2018.1  | 54                   | 3,039                            | 7,947   | 1.019  | 8,095  |
| 2018.2  | 48                   | 414                              | 5,883   | 1.026  | 6,038  |
| 2019.1  | 42                   | 2,027                            | 5,864   | 1.059  | 6,211  |
| 2019.2  | 36                   | 433                              | 6,115   | 1.167  | 7,137  |
| 2020.1  | 30                   | 108                              | 3,108   | 1.394  | 4,332  |
| 2020.2  | 24                   | 1,174                            | 5,332   | 1.818  | 9,696  |
| 2021.1  | 18                   | 14                               | 805   | 2.152  | 1,732  |
| 2021.2  | 12                   | 11                               | 1,958   | 2.875  | 5,630  |
| 2022.1  | 6                    | 50                               | 921   | 7.828  | 7,213  |
| Total   |                      | 125,460                          | 177,666                                       |  | 193,887  |

Province of Alberta  
Third Party Liability - Bodily Injury  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

**Selected Ultimate Claim Counts**  
**Data as of 30 Jun 2022**

(1) (2) (3) (4) (5)

Reported Claim Counts: Development Method

| Accident Semester | Maturity (in Months) | Reported Claim Counts | Selected Age-to-Ultimate Development Factors | Selected Ultimate Claim Counts |
|-------------------|----------------------|-----------------------|--|--------------------------------|
| 2002.2            | 240                  | 7,981                 | 1.000  | 7,981                          |
| 2003.1            | 234                  | 7,484                 | 1.000  | 7,484                          |
| 2003.2            | 228                  | 7,073                 | 1.000  | 7,073                          |
| 2004.1            | 222                  | 6,596                 | 1.000  | 6,596                          |
| 2004.2            | 216                  | 6,836                 | 1.000  | 6,836                          |
| 2005.1            | 210                  | 6,442                 | 1.000  | 6,442                          |
| 2005.2            | 204                  | 7,446                 | 1.000  | 7,446                          |
| 2006.1            | 198                  | 6,859                 | 1.000  | 6,859                          |
| 2006.2            | 192                  | 7,636                 | 1.000  | 7,636                          |
| 2007.1            | 186                  | 6,661                 | 1.000  | 6,661                          |
| 2007.2            | 180                  | 7,050                 | 1.000  | 7,050                          |
| 2008.1            | 174                  | 6,471                 | 1.000  | 6,471                          |
| 2008.2            | 168                  | 6,777                 | 1.000  | 6,777                          |
| 2009.1            | 162                  | 6,201                 | 1.000  | 6,201                          |
| 2009.2            | 156                  | 7,036                 | 1.000  | 7,036                          |
| 2010.1            | 150                  | 6,184                 | 1.000  | 6,184                          |
| 2010.2            | 144                  | 7,449                 | 1.000  | 7,448                          |
| 2011.1            | 138                  | 7,015                 | 1.000  | 7,014                          |
| 2011.2            | 132                  | 7,011                 | 1.000  | 7,010                          |
| 2012.1            | 126                  | 6,658                 | 1.000  | 6,656                          |
| 2012.2            | 120                  | 7,744                 | 1.000  | 7,742                          |
| 2013.1            | 114                  | 7,173                 | 1.000  | 7,170                          |
| 2013.2            | 108                  | 8,618                 | 1.000  | 8,614                          |
| 2014.1            | 102                  | 7,567                 | 1.000  | 7,564                          |
| 2014.2            | 96                   | 8,821                 | 0.999  | 8,816                          |
| 2015.1            | 90                   | 8,093                 | 0.999  | 8,085                          |
| 2015.2            | 84                   | 8,828                 | 0.998  | 8,814                          |
| 2016.1            | 78                   | 7,761                 | 0.997  | 7,741                          |
| 2016.2            | 72                   | 9,060                 | 0.997  | 9,029                          |
| 2017.1            | 66                   | 8,618                 | 0.995  | 8,571                          |
| 2017.2            | 60                   | 9,056                 | 0.993  | 8,991                          |
| 2018.1            | 54                   | 8,720                 | 0.990  | 8,634                          |
| 2018.2            | 48                   | 8,866                 | 0.986  | 8,744                          |
| 2019.1            | 42                   | 9,012                 | 0.982  | 8,853                          |
| 2019.2            | 36                   | 9,190                 | 0.986  | 9,061                          |
| 2020.1            | 30                   | 5,955                 | 0.988  | 5,881                          |
| 2020.2            | 24                   | 6,056                 | 1.026  | 6,214                          |
| 2021.1            | 18                   | 5,391                 | 1.066  | 5,748                          |
| 2021.2            | 12                   | 7,113                 | 1.074  | 7,637                          |
| 2022.1            | 6                    | 4,570                 | 1.163  | 5,316                          |
| Total             |                      | 295,078               |  | 296,082                        |

Province of Alberta  
Third Party Liability - Property Damage  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

**Selected Ultimate Claim Counts**  
**Data as of 30 Jun 2022**

(1)                      (2)                      (3)                      (4)                      (5)

Reported Claim Counts: Development Method

| Accident<br>Semester | Maturity (in<br>Months) | Reported Claim<br>Counts | Selected Age-to-<br>Ultimate<br>Development Factors | Selected Ultimate<br>Claim Counts |
|----------------------|-------------------------|--------------------------|---|-----------------------------------|
| 2002.2               | 240                     | 22,311                   | 1.000   | 22,311                            |
| 2003.1               | 234                     | 21,591                   | 1.000   | 21,591                            |
| 2003.2               | 228                     | 19,748                   | 1.000   | 19,748                            |
| 2004.1               | 222                     | 20,359                   | 1.000   | 20,359                            |
| 2004.2               | 216                     | 22,514                   | 1.000   | 22,514                            |
| 2005.1               | 210                     | 22,494                   | 1.000   | 22,494                            |
| 2005.2               | 204                     | 25,852                   | 1.000   | 25,852                            |
| 2006.1               | 198                     | 26,425                   | 1.000   | 26,425                            |
| 2006.2               | 192                     | 32,321                   | 1.000   | 32,321                            |
| 2007.1               | 186                     | 30,643                   | 1.000   | 30,643                            |
| 2007.2               | 180                     | 33,104                   | 1.000   | 33,104                            |
| 2008.1               | 174                     | 32,851                   | 1.000   | 32,851                            |
| 2008.2               | 168                     | 35,309                   | 1.000   | 35,309                            |
| 2009.1               | 162                     | 34,399                   | 1.000   | 34,399                            |
| 2009.2               | 156                     | 37,468                   | 1.000   | 37,467                            |
| 2010.1               | 150                     | 32,649                   | 1.000   | 32,648                            |
| 2010.2               | 144                     | 39,311                   | 1.000   | 39,310                            |
| 2011.1               | 138                     | 40,120                   | 1.000   | 40,119                            |
| 2011.2               | 132                     | 35,010                   | 1.000   | 35,009                            |
| 2012.1               | 126                     | 34,575                   | 1.000   | 34,574                            |
| 2012.2               | 120                     | 40,523                   | 1.000   | 40,522                            |
| 2013.1               | 114                     | 38,045                   | 1.000   | 38,044                            |
| 2013.2               | 108                     | 43,630                   | 1.000   | 43,628                            |
| 2014.1               | 102                     | 40,475                   | 1.000   | 40,473                            |
| 2014.2               | 96                      | 43,372                   | 1.000   | 43,370                            |
| 2015.1               | 90                      | 41,471                   | 1.000   | 41,468                            |
| 2015.2               | 84                      | 42,233                   | 1.000   | 42,229                            |
| 2016.1               | 78                      | 37,631                   | 1.000   | 37,627                            |
| 2016.2               | 72                      | 41,297                   | 1.000   | 41,291                            |
| 2017.1               | 66                      | 40,812                   | 1.000   | 40,805                            |
| 2017.2               | 60                      | 42,023                   | 1.000   | 42,015                            |
| 2018.1               | 54                      | 43,578                   | 1.000   | 43,569                            |
| 2018.2               | 48                      | 39,569                   | 1.000   | 39,560                            |
| 2019.1               | 42                      | 40,796                   | 1.000   | 40,786                            |
| 2019.2               | 36                      | 39,084                   | 1.000   | 39,075                            |
| 2020.1               | 30                      | 27,511                   | 1.000   | 27,499                            |
| 2020.2               | 24                      | 26,583                   | 0.997   | 26,496                            |
| 2021.1               | 18                      | 24,969                   | 1.004   | 25,069                            |
| 2021.2               | 12                      | 32,684                   | 1.006   | 32,884                            |
| 2022.1               | 6                       | 28,438                   | 1.081   | 30,729                            |
| Total                |                         | 1,353,778                |   | 1,356,187                         |

Province of Alberta  
Accident Benefits - Total  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

**Selected Ultimate Claim Counts**  
**Data as of 30 Jun 2022**

(1)                      (2)                      (3)                      (4)                      (5)

Reported Claim Counts: Development Method

| Accident Semester | Maturity (in Months) | Reported Claim Counts | Selected Age-to-Ultimate Development Factors | Selected Ultimate Claim Counts |
|-------------------|----------------------|-----------------------|--|--------------------------------|
| 2002.2            | 240                  | 10,187                | 1.000  | 10,187                         |
| 2003.1            | 234                  | 8,697                 | 1.000  | 8,697                          |
| 2003.2            | 228                  | 8,776                 | 1.000  | 8,776                          |
| 2004.1            | 222                  | 8,406                 | 1.000  | 8,406                          |
| 2004.2            | 216                  | 10,077                | 1.000  | 10,077                         |
| 2005.1            | 210                  | 10,544                | 1.000  | 10,544                         |
| 2005.2            | 204                  | 12,400                | 1.000  | 12,400                         |
| 2006.1            | 198                  | 11,793                | 1.000  | 11,793                         |
| 2006.2            | 192                  | 13,388                | 1.000  | 13,388                         |
| 2007.1            | 186                  | 12,116                | 1.000  | 12,116                         |
| 2007.2            | 180                  | 13,185                | 1.000  | 13,185                         |
| 2008.1            | 174                  | 11,753                | 1.000  | 11,753                         |
| 2008.2            | 168                  | 12,152                | 1.000  | 12,152                         |
| 2009.1            | 162                  | 10,798                | 1.000  | 10,798                         |
| 2009.2            | 156                  | 12,288                | 1.000  | 12,288                         |
| 2010.1            | 150                  | 10,503                | 1.000  | 10,503                         |
| 2010.2            | 144                  | 12,705                | 1.000  | 12,705                         |
| 2011.1            | 138                  | 12,055                | 1.000  | 12,055                         |
| 2011.2            | 132                  | 12,214                | 1.000  | 12,214                         |
| 2012.1            | 126                  | 11,638                | 1.000  | 11,638                         |
| 2012.2            | 120                  | 13,507                | 1.000  | 13,507                         |
| 2013.1            | 114                  | 13,132                | 1.000  | 13,132                         |
| 2013.2            | 108                  | 15,333                | 1.000  | 15,333                         |
| 2014.1            | 102                  | 13,675                | 1.000  | 13,675                         |
| 2014.2            | 96                   | 15,697                | 1.000  | 15,696                         |
| 2015.1            | 90                   | 14,045                | 1.000  | 14,044                         |
| 2015.2            | 84                   | 15,724                | 1.000  | 15,723                         |
| 2016.1            | 78                   | 13,570                | 1.000  | 13,569                         |
| 2016.2            | 72                   | 16,058                | 1.000  | 16,057                         |
| 2017.1            | 66                   | 14,963                | 1.000  | 14,961                         |
| 2017.2            | 60                   | 16,249                | 1.000  | 16,247                         |
| 2018.1            | 54                   | 15,802                | 1.000  | 15,800                         |
| 2018.2            | 48                   | 15,771                | 1.000  | 15,769                         |
| 2019.1            | 42                   | 15,564                | 1.000  | 15,561                         |
| 2019.2            | 36                   | 16,458                | 1.000  | 16,455                         |
| 2020.1            | 30                   | 10,176                | 1.000  | 10,175                         |
| 2020.2            | 24                   | 11,050                | 0.999  | 11,044                         |
| 2021.1            | 18                   | 10,085                | 0.999  | 10,077                         |
| 2021.2            | 12                   | 14,552                | 0.994  | 14,470                         |
| 2022.1            | 6                    | 11,884                | 0.978  | 11,624                         |
| Total             |                      | 508,970               |  | 508,596                        |



Province of Alberta  
Collision  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

**Selected Ultimate Claim Counts**  
**Data as of 30 Jun 2022**

(1)                      (2)                      (3)                      (4)                      (5)

Reported Claim Counts: Development Method

| Accident Semester | Maturity (in Months) | Reported Claim Counts | Selected Age-to-Ultimate Development Factors | Selected Ultimate Claim Counts |
|-------------------|----------------------|-----------------------|--|--------------------------------|
| 2002.2            | 240                  | 27,239                | 1.000  | 27,239                         |
| 2003.1            | 234                  | 26,632                | 1.000  | 26,632                         |
| 2003.2            | 228                  | 25,412                | 1.000  | 25,412                         |
| 2004.1            | 222                  | 28,349                | 1.000  | 28,349                         |
| 2004.2            | 216                  | 31,610                | 1.000  | 31,610                         |
| 2005.1            | 210                  | 32,092                | 1.000  | 32,092                         |
| 2005.2            | 204                  | 36,677                | 1.000  | 36,677                         |
| 2006.1            | 198                  | 37,742                | 1.000  | 37,741                         |
| 2006.2            | 192                  | 46,633                | 1.000  | 46,632                         |
| 2007.1            | 186                  | 45,255                | 1.000  | 45,254                         |
| 2007.2            | 180                  | 44,266                | 1.000  | 44,265                         |
| 2008.1            | 174                  | 40,954                | 1.000  | 40,953                         |
| 2008.2            | 168                  | 40,020                | 1.000  | 40,019                         |
| 2009.1            | 162                  | 38,449                | 1.000  | 38,448                         |
| 2009.2            | 156                  | 42,192                | 1.000  | 42,191                         |
| 2010.1            | 150                  | 34,581                | 1.000  | 34,580                         |
| 2010.2            | 144                  | 40,324                | 1.000  | 40,323                         |
| 2011.1            | 138                  | 43,036                | 1.000  | 43,034                         |
| 2011.2            | 132                  | 35,468                | 1.000  | 35,466                         |
| 2012.1            | 126                  | 35,140                | 1.000  | 35,137                         |
| 2012.2            | 120                  | 41,649                | 1.000  | 41,645                         |
| 2013.1            | 114                  | 37,736                | 1.000  | 37,732                         |
| 2013.2            | 108                  | 44,201                | 1.000  | 44,195                         |
| 2014.1            | 102                  | 39,757                | 1.000  | 39,751                         |
| 2014.2            | 96                   | 42,323                | 1.000  | 42,315                         |
| 2015.1            | 90                   | 39,934                | 1.000  | 39,926                         |
| 2015.2            | 84                   | 40,465                | 1.000  | 40,455                         |
| 2016.1            | 78                   | 36,085                | 1.000  | 36,075                         |
| 2016.2            | 72                   | 41,972                | 1.000  | 41,959                         |
| 2017.1            | 66                   | 41,096                | 1.000  | 41,079                         |
| 2017.2            | 60                   | 42,678                | 1.000  | 42,658                         |
| 2018.1            | 54                   | 44,695                | 0.999  | 44,670                         |
| 2018.2            | 48                   | 42,961                | 0.999  | 42,934                         |
| 2019.1            | 42                   | 43,632                | 0.999  | 43,602                         |
| 2019.2            | 36                   | 42,965                | 0.999  | 42,927                         |
| 2020.1            | 30                   | 29,833                | 0.998  | 29,787                         |
| 2020.2            | 24                   | 26,569                | 0.996  | 26,464                         |
| 2021.1            | 18                   | 23,234                | 0.989  | 22,978                         |
| 2021.2            | 12                   | 34,882                | 0.934  | 32,571                         |
| 2022.1            | 6                    | 25,913                | 0.747  | 19,360                         |
| Total             |                      | 1,494,651             |  | 1,485,138                      |

Province of Alberta  
Comprehensive - Total  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

**Selected Ultimate Claim Counts**  
**Data as of 30 Jun 2022**

(1)                      (2)                      (3)                      (4)                      (5)

Reported Claim Counts: Development Method

| Accident Semester | Maturity (in Months) | Reported Claim Counts | Selected Age-to-Ultimate Development Factors | Selected Ultimate Claim Counts |
|-------------------|----------------------|-----------------------|--|--------------------------------|
| 2002.2            | 240                  | 24,135                | 1.000  | 24,135                         |
| 2003.1            | 234                  | 20,110                | 1.000  | 20,110                         |
| 2003.2            | 228                  | 22,949                | 1.000  | 22,949                         |
| 2004.1            | 222                  | 18,912                | 1.000  | 18,912                         |
| 2004.2            | 216                  | 27,538                | 1.000  | 27,538                         |
| 2005.1            | 210                  | 29,597                | 1.000  | 29,597                         |
| 2005.2            | 204                  | 27,889                | 1.000  | 27,889                         |
| 2006.1            | 198                  | 22,280                | 1.000  | 22,280                         |
| 2006.2            | 192                  | 31,992                | 1.000  | 31,991                         |
| 2007.1            | 186                  | 28,051                | 1.000  | 28,051                         |
| 2007.2            | 180                  | 36,870                | 1.000  | 36,870                         |
| 2008.1            | 174                  | 23,659                | 1.000  | 23,659                         |
| 2008.2            | 168                  | 31,544                | 1.000  | 31,544                         |
| 2009.1            | 162                  | 21,405                | 1.000  | 21,405                         |
| 2009.2            | 156                  | 33,705                | 1.000  | 33,705                         |
| 2010.1            | 150                  | 19,397                | 1.000  | 19,397                         |
| 2010.2            | 144                  | 62,305                | 1.000  | 62,306                         |
| 2011.1            | 138                  | 19,785                | 1.000  | 19,785                         |
| 2011.2            | 132                  | 31,030                | 1.000  | 31,030                         |
| 2012.1            | 126                  | 19,217                | 1.000  | 19,217                         |
| 2012.2            | 120                  | 57,060                | 1.000  | 57,061                         |
| 2013.1            | 114                  | 25,559                | 1.000  | 25,559                         |
| 2013.2            | 108                  | 45,103                | 1.000  | 45,103                         |
| 2014.1            | 102                  | 20,492                | 1.000  | 20,492                         |
| 2014.2            | 96                   | 55,115                | 1.000  | 55,115                         |
| 2015.1            | 90                   | 24,061                | 1.000  | 24,061                         |
| 2015.2            | 84                   | 51,149                | 1.000  | 51,149                         |
| 2016.1            | 78                   | 34,592                | 1.000  | 34,593                         |
| 2016.2            | 72                   | 65,817                | 1.000  | 65,818                         |
| 2017.1            | 66                   | 25,759                | 1.000  | 25,760                         |
| 2017.2            | 60                   | 40,173                | 1.000  | 40,174                         |
| 2018.1            | 54                   | 24,264                | 1.000  | 24,265                         |
| 2018.2            | 48                   | 42,208                | 1.000  | 42,209                         |
| 2019.1            | 42                   | 24,005                | 1.000  | 24,007                         |
| 2019.2            | 36                   | 41,022                | 1.000  | 41,028                         |
| 2020.1            | 30                   | 45,397                | 1.000  | 45,413                         |
| 2020.2            | 24                   | 33,582                | 1.003  | 33,676                         |
| 2021.1            | 18                   | 20,506                | 1.007  | 20,649                         |
| 2021.2            | 12                   | 45,077                | 1.018  | 45,874                         |
| 2022.1            | 6                    | 22,370                | 1.118  | 25,000                         |
| Total             |                      | 1,295,681             |  | 1,299,374                      |

Province of Alberta  
Comprehensive - Theft  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

**Selected Ultimate Claim Counts**  
**Data as of 30 Jun 2022**

(1)                      (2)                      (3)                      (4)                      (5)

Reported Claim Counts: Development Method

| Accident Semester | Maturity (in Months) | Reported Claim Counts | Selected Age-to-Ultimate Development Factors | Selected Ultimate Claim Counts |
|-------------------|----------------------|-----------------------|--|--------------------------------|
| 2002.2            | 240                  | 5,294                 | 1.000  | 5,294                          |
| 2003.1            | 234                  | 4,609                 | 1.000  | 4,609                          |
| 2003.2            | 228                  | 4,756                 | 1.000  | 4,756                          |
| 2004.1            | 222                  | 4,825                 | 1.000  | 4,825                          |
| 2004.2            | 216                  | 4,490                 | 1.000  | 4,490                          |
| 2005.1            | 210                  | 4,067                 | 1.000  | 4,067                          |
| 2005.2            | 204                  | 5,004                 | 1.000  | 5,004                          |
| 2006.1            | 198                  | 4,667                 | 1.000  | 4,667                          |
| 2006.2            | 192                  | 5,671                 | 1.000  | 5,671                          |
| 2007.1            | 186                  | 5,006                 | 1.000  | 5,006                          |
| 2007.2            | 180                  | 4,799                 | 1.000  | 4,799                          |
| 2008.1            | 174                  | 4,229                 | 1.000  | 4,229                          |
| 2008.2            | 168                  | 4,403                 | 1.000  | 4,403                          |
| 2009.1            | 162                  | 3,663                 | 1.000  | 3,663                          |
| 2009.2            | 156                  | 3,967                 | 1.000  | 3,967                          |
| 2010.1            | 150                  | 2,851                 | 1.000  | 2,851                          |
| 2010.2            | 144                  | 3,261                 | 1.000  | 3,261                          |
| 2011.1            | 138                  | 2,642                 | 1.000  | 2,642                          |
| 2011.2            | 132                  | 2,484                 | 1.000  | 2,484                          |
| 2012.1            | 126                  | 2,018                 | 1.000  | 2,018                          |
| 2012.2            | 120                  | 2,553                 | 1.000  | 2,553                          |
| 2013.1            | 114                  | 2,687                 | 1.000  | 2,687                          |
| 2013.2            | 108                  | 3,044                 | 1.000  | 3,044                          |
| 2014.1            | 102                  | 2,752                 | 1.000  | 2,752                          |
| 2014.2            | 96                   | 3,213                 | 1.000  | 3,212                          |
| 2015.1            | 90                   | 3,811                 | 1.000  | 3,811                          |
| 2015.2            | 84                   | 4,405                 | 1.000  | 4,404                          |
| 2016.1            | 78                   | 4,310                 | 1.000  | 4,309                          |
| 2016.2            | 72                   | 4,711                 | 1.000  | 4,710                          |
| 2017.1            | 66                   | 4,823                 | 1.000  | 4,822                          |
| 2017.2            | 60                   | 5,660                 | 1.000  | 5,659                          |
| 2018.1            | 54                   | 4,533                 | 1.000  | 4,532                          |
| 2018.2            | 48                   | 5,050                 | 1.000  | 5,050                          |
| 2019.1            | 42                   | 4,177                 | 1.000  | 4,177                          |
| 2019.2            | 36                   | 4,737                 | 1.000  | 4,737                          |
| 2020.1            | 30                   | 3,528                 | 1.000  | 3,528                          |
| 2020.2            | 24                   | 3,328                 | 1.000  | 3,329                          |
| 2021.1            | 18                   | 2,818                 | 1.000  | 2,818                          |
| 2021.2            | 12                   | 3,719                 | 0.999  | 3,716                          |
| 2022.1            | 6                    | 4,367                 | 1.003  | 4,379                          |
| Total             |                      | 160,932               |  | 160,935                        |

Province of Alberta  
All Perils  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

**Selected Ultimate Claim Counts**  
**Data as of 30 Jun 2022**

(1)                      (2)                      (3)                      (4)                      (5)

Reported Claim Counts: Development Method

| Accident<br>Semester | Maturity (in<br>Months) | Reported Claim<br>Counts | Selected Age-to-<br>Ultimate<br>Development Factors | Selected Ultimate<br>Claim Counts |
|----------------------|-------------------------|--------------------------|---|-----------------------------------|
| 2002.2               | 240                     | 2,295                    | 1.000   | 2,295                             |
| 2003.1               | 234                     | 2,129                    | 1.000   | 2,129                             |
| 2003.2               | 228                     | 2,362                    | 1.000   | 2,362                             |
| 2004.1               | 222                     | 2,231                    | 1.000   | 2,231                             |
| 2004.2               | 216                     | 2,639                    | 1.000   | 2,639                             |
| 2005.1               | 210                     | 2,468                    | 1.000   | 2,468                             |
| 2005.2               | 204                     | 2,221                    | 1.000   | 2,221                             |
| 2006.1               | 198                     | 2,002                    | 1.000   | 2,002                             |
| 2006.2               | 192                     | 2,326                    | 1.000   | 2,326                             |
| 2007.1               | 186                     | 2,158                    | 1.000   | 2,158                             |
| 2007.2               | 180                     | 2,404                    | 1.000   | 2,404                             |
| 2008.1               | 174                     | 1,717                    | 1.000   | 1,717                             |
| 2008.2               | 168                     | 1,446                    | 1.000   | 1,446                             |
| 2009.1               | 162                     | 999                      | 1.000   | 999                               |
| 2009.2               | 156                     | 1,178                    | 1.000   | 1,178                             |
| 2010.1               | 150                     | 1,232                    | 1.000   | 1,232                             |
| 2010.2               | 144                     | 2,384                    | 1.000   | 2,384                             |
| 2011.1               | 138                     | 1,835                    | 1.000   | 1,835                             |
| 2011.2               | 132                     | 2,130                    | 1.000   | 2,130                             |
| 2012.1               | 126                     | 1,569                    | 1.000   | 1,569                             |
| 2012.2               | 120                     | 2,108                    | 1.000   | 2,108                             |
| 2013.1               | 114                     | 1,586                    | 1.000   | 1,586                             |
| 2013.2               | 108                     | 1,872                    | 1.000   | 1,872                             |
| 2014.1               | 102                     | 1,313                    | 1.000   | 1,313                             |
| 2014.2               | 96                      | 1,643                    | 1.000   | 1,643                             |
| 2015.1               | 90                      | 1,268                    | 1.000   | 1,268                             |
| 2015.2               | 84                      | 1,529                    | 1.000   | 1,529                             |
| 2016.1               | 78                      | 1,194                    | 1.000   | 1,194                             |
| 2016.2               | 72                      | 1,729                    | 1.000   | 1,729                             |
| 2017.1               | 66                      | 1,216                    | 1.000   | 1,216                             |
| 2017.2               | 60                      | 1,164                    | 1.000   | 1,164                             |
| 2018.1               | 54                      | 940                      | 1.000   | 940                               |
| 2018.2               | 48                      | 936                      | 1.000   | 936                               |
| 2019.1               | 42                      | 656                      | 1.000   | 656                               |
| 2019.2               | 36                      | 827                      | 1.000   | 827                               |
| 2020.1               | 30                      | 637                      | 1.000   | 637                               |
| 2020.2               | 24                      | 566                      | 1.000   | 566                               |
| 2021.1               | 18                      | 485                      | 0.996   | 483                               |
| 2021.2               | 12                      | 992                      | 0.971   | 963                               |
| 2022.1               | 6                       | 604                      | 0.875   | 529                               |
| Total                |                         | 62,990                   |   | 62,884                            |

Province of Alberta  
Specified Perils  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

**Selected Ultimate Claim Counts**  
**Data as of 30 Jun 2022**

(1)                      (2)                      (3)                      (4)                      (5)

Reported Claim Counts: Development Method

| Accident<br>Semester | Maturity (in<br>Months) | Reported Claim<br>Counts | Selected Age-to-<br>Ultimate<br>Development Factors | Selected Ultimate<br>Claim Counts |
|----------------------|-------------------------|--------------------------|---|-----------------------------------|
| 2002.2               | 240                     | 146                      | 1.000   | 146                               |
| 2003.1               | 234                     | 123                      | 1.000   | 123                               |
| 2003.2               | 228                     | 149                      | 1.000   | 149                               |
| 2004.1               | 222                     | 111                      | 1.000   | 111                               |
| 2004.2               | 216                     | 119                      | 1.000   | 119                               |
| 2005.1               | 210                     | 110                      | 1.000   | 110                               |
| 2005.2               | 204                     | 103                      | 1.000   | 103                               |
| 2006.1               | 198                     | 96                       | 1.000   | 96                                |
| 2006.2               | 192                     | 139                      | 1.000   | 139                               |
| 2007.1               | 186                     | 104                      | 1.000   | 104                               |
| 2007.2               | 180                     | 109                      | 1.000   | 109                               |
| 2008.1               | 174                     | 59                       | 1.000   | 59                                |
| 2008.2               | 168                     | 71                       | 1.000   | 71                                |
| 2009.1               | 162                     | 35                       | 1.000   | 35                                |
| 2009.2               | 156                     | 93                       | 1.000   | 93                                |
| 2010.1               | 150                     | 36                       | 1.000   | 36                                |
| 2010.2               | 144                     | 132                      | 1.000   | 132                               |
| 2011.1               | 138                     | 47                       | 1.000   | 47                                |
| 2011.2               | 132                     | 84                       | 1.000   | 84                                |
| 2012.1               | 126                     | 34                       | 1.000   | 34                                |
| 2012.2               | 120                     | 170                      | 1.000   | 170                               |
| 2013.1               | 114                     | 69                       | 1.000   | 69                                |
| 2013.2               | 108                     | 84                       | 1.000   | 84                                |
| 2014.1               | 102                     | 46                       | 1.000   | 46                                |
| 2014.2               | 96                      | 138                      | 1.000   | 138                               |
| 2015.1               | 90                      | 54                       | 1.000   | 54                                |
| 2015.2               | 84                      | 129                      | 1.000   | 129                               |
| 2016.1               | 78                      | 72                       | 1.000   | 72                                |
| 2016.2               | 72                      | 139                      | 1.000   | 139                               |
| 2017.1               | 66                      | 70                       | 1.000   | 70                                |
| 2017.2               | 60                      | 127                      | 1.000   | 127                               |
| 2018.1               | 54                      | 70                       | 1.000   | 70                                |
| 2018.2               | 48                      | 111                      | 1.000   | 111                               |
| 2019.1               | 42                      | 75                       | 0.999   | 75                                |
| 2019.2               | 36                      | 119                      | 1.000   | 119                               |
| 2020.1               | 30                      | 146                      | 1.001   | 146                               |
| 2020.2               | 24                      | 131                      | 1.000   | 131                               |
| 2021.1               | 18                      | 87                       | 1.003   | 87                                |
| 2021.2               | 12                      | 137                      | 1.003   | 137                               |
| 2022.1               | 6                       | 66                       | 1.042   | 69                                |
| Total                |                         | 3,940                    |   | 3,944                             |

Province of Alberta  
Underinsured Motorist  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)

**Selected Ultimate Claim Counts**  
**Data as of 30 Jun 2022**

(1) (2) (3) (4) (5)

Reported Claim Counts: Development Method

| Accident Semester | Maturity (in Months) | Reported Claim Counts | Selected Age-to-Ultimate Development Factors | Selected Ultimate Claim Counts |
|-------------------|----------------------|-----------------------|--|--------------------------------|
| 2002.2            | 240                  | 31                    | 1.000  | 31                             |
| 2003.1            | 234                  | 10                    | 1.000  | 10                             |
| 2003.2            | 228                  | 20                    | 1.000  | 20                             |
| 2004.1            | 222                  | 11                    | 1.000  | 11                             |
| 2004.2            | 216                  | 16                    | 1.000  | 16                             |
| 2005.1            | 210                  | 25                    | 1.000  | 25                             |
| 2005.2            | 204                  | 12                    | 1.000  | 12                             |
| 2006.1            | 198                  | 19                    | 1.000  | 19                             |
| 2006.2            | 192                  | 21                    | 1.000  | 21                             |
| 2007.1            | 186                  | 8                     | 1.000  | 8                              |
| 2007.2            | 180                  | 22                    | 1.000  | 22                             |
| 2008.1            | 174                  | 8                     | 1.000  | 8                              |
| 2008.2            | 168                  | 17                    | 1.000  | 17                             |
| 2009.1            | 162                  | 12                    | 1.000  | 12                             |
| 2009.2            | 156                  | 23                    | 0.996  | 23                             |
| 2010.1            | 150                  | 15                    | 0.984  | 15                             |
| 2010.2            | 144                  | 14                    | 0.977  | 14                             |
| 2011.1            | 138                  | 10                    | 0.971  | 10                             |
| 2011.2            | 132                  | 29                    | 0.961  | 28                             |
| 2012.1            | 126                  | 18                    | 0.928  | 17                             |
| 2012.2            | 120                  | 22                    | 0.918  | 20                             |
| 2013.1            | 114                  | 21                    | 0.878  | 18                             |
| 2013.2            | 108                  | 30                    | 0.838  | 25                             |
| 2014.1            | 102                  | 18                    | 0.812  | 15                             |
| 2014.2            | 96                   | 38                    | 0.776  | 30                             |
| 2015.1            | 90                   | 35                    | 0.752  | 26                             |
| 2015.2            | 84                   | 38                    | 0.708  | 27                             |
| 2016.1            | 78                   | 33                    | 0.656  | 22                             |
| 2016.2            | 72                   | 51                    | 0.604  | 31                             |
| 2017.1            | 66                   | 32                    | 0.570  | 18                             |
| 2017.2            | 60                   | 58                    | 0.532  | 31                             |
| 2018.1            | 54                   | 46                    | 0.504  | 23                             |
| 2018.2            | 48                   | 62                    | 0.476  | 30                             |
| 2019.1            | 42                   | 60                    | 0.451  | 27                             |
| 2019.2            | 36                   | 75                    | 0.459  | 34                             |
| 2020.1            | 30                   | 36                    | 0.518  | 19                             |
| 2020.2            | 24                   | 41                    | 0.737  | 30                             |
| 2021.1            | 18                   | 13                    | 0.856  | 11                             |
| 2021.2            | 12                   | 18                    | 1.037  | 19                             |
| 2022.1            | 6                    | 23                    | 1.406  | 32                             |
| Total             |                      | 1,091                 |  | 826                            |

**Bodily Injury - Adjusted**

Coverage = BI - Adjusted  
 End Trend Period = 2022.1  
 Excluded Points = NA  
 Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R <sup>2</sup> | Implied Trend |
|-----------|------------|-----------------------------------|-----------------------------------|-------------------------|---------------|
|           |            |                                   |                                   |                         | Rate          |
| Loss Cost | 2005.2     | 0.043 (CI = +/-0.008; p = 0.000)  | -0.171 (CI = +/-0.075; p = 0.000) | 0.816                   | +4.43%        |
| Loss Cost | 2006.1     | 0.044 (CI = +/-0.008; p = 0.000)  | -0.166 (CI = +/-0.077; p = 0.000) | 0.817                   | +4.53%        |
| Loss Cost | 2006.2     | 0.046 (CI = +/-0.008; p = 0.000)  | -0.173 (CI = +/-0.078; p = 0.000) | 0.813                   | +4.66%        |
| Loss Cost | 2007.1     | 0.047 (CI = +/-0.009; p = 0.000)  | -0.165 (CI = +/-0.079; p = 0.000) | 0.821                   | +4.84%        |
| Loss Cost | 2007.2     | 0.048 (CI = +/-0.009; p = 0.000)  | -0.170 (CI = +/-0.081; p = 0.000) | 0.811                   | +4.95%        |
| Loss Cost | 2008.1     | 0.049 (CI = +/-0.010; p = 0.000)  | -0.164 (CI = +/-0.083; p = 0.000) | 0.811                   | +5.07%        |
| Loss Cost | 2008.2     | 0.051 (CI = +/-0.010; p = 0.000)  | -0.174 (CI = +/-0.084; p = 0.000) | 0.812                   | +5.28%        |
| Loss Cost | 2009.1     | 0.052 (CI = +/-0.011; p = 0.000)  | -0.171 (CI = +/-0.087; p = 0.000) | 0.806                   | +5.35%        |
| Loss Cost | 2009.2     | 0.052 (CI = +/-0.012; p = 0.000)  | -0.172 (CI = +/-0.091; p = 0.001) | 0.781                   | +5.37%        |
| Loss Cost | 2010.1     | 0.053 (CI = +/-0.013; p = 0.000)  | -0.171 (CI = +/-0.095; p = 0.001) | 0.772                   | +5.39%        |
| Loss Cost | 2010.2     | 0.049 (CI = +/-0.014; p = 0.000)  | -0.157 (CI = +/-0.094; p = 0.002) | 0.732                   | +5.02%        |
| Loss Cost | 2011.1     | 0.048 (CI = +/-0.015; p = 0.000)  | -0.162 (CI = +/-0.098; p = 0.003) | 0.716                   | +4.88%        |
| Loss Cost | 2011.2     | 0.044 (CI = +/-0.016; p = 0.000)  | -0.149 (CI = +/-0.099; p = 0.005) | 0.658                   | +4.53%        |
| Loss Cost | 2012.1     | 0.041 (CI = +/-0.017; p = 0.000)  | -0.159 (CI = +/-0.101; p = 0.004) | 0.642                   | +4.22%        |
| Loss Cost | 2012.2     | 0.039 (CI = +/-0.018; p = 0.000)  | -0.151 (CI = +/-0.106; p = 0.008) | 0.568                   | +3.98%        |
| Loss Cost | 2013.1     | 0.035 (CI = +/-0.020; p = 0.002)  | -0.164 (CI = +/-0.108; p = 0.006) | 0.556                   | +3.58%        |
| Loss Cost | 2013.2     | 0.032 (CI = +/-0.022; p = 0.008)  | -0.152 (CI = +/-0.113; p = 0.012) | 0.455                   | +3.20%        |
| Loss Cost | 2014.1     | 0.027 (CI = +/-0.024; p = 0.029)  | -0.165 (CI = +/-0.116; p = 0.008) | 0.455                   | +2.72%        |
| Loss Cost | 2014.2     | 0.019 (CI = +/-0.025; p = 0.122)  | -0.143 (CI = +/-0.114; p = 0.018) | 0.325                   | +1.91%        |
| Loss Cost | 2015.1     | 0.013 (CI = +/-0.027; p = 0.322)  | -0.159 (CI = +/-0.116; p = 0.011) | 0.363                   | +1.28%        |
| Loss Cost | 2015.2     | 0.007 (CI = +/-0.030; p = 0.642)  | -0.143 (CI = +/-0.122; p = 0.025) | 0.267                   | +0.66%        |
| Loss Cost | 2016.1     | 0.000 (CI = +/-0.034; p = 0.994)  | -0.157 (CI = +/-0.128; p = 0.021) | 0.316                   | +0.01%        |
| Loss Cost | 2016.2     | -0.009 (CI = +/-0.039; p = 0.628) | -0.138 (CI = +/-0.135; p = 0.046) | 0.270                   | -0.87%        |
| Loss Cost | 2017.1     | -0.016 (CI = +/-0.046; p = 0.430) | -0.153 (CI = +/-0.145; p = 0.042) | 0.313                   | -1.64%        |
|           |            |                                   |                                   |                         |               |
| Severity  | 2005.2     | 0.063 (CI = +/-0.005; p = 0.000)  | -0.077 (CI = +/-0.050; p = 0.004) | 0.951                   | +6.48%        |
| Severity  | 2006.1     | 0.063 (CI = +/-0.005; p = 0.000)  | -0.075 (CI = +/-0.051; p = 0.005) | 0.948                   | +6.51%        |
| Severity  | 2006.2     | 0.063 (CI = +/-0.006; p = 0.000)  | -0.076 (CI = +/-0.053; p = 0.006) | 0.943                   | +6.54%        |
| Severity  | 2007.1     | 0.064 (CI = +/-0.006; p = 0.000)  | -0.072 (CI = +/-0.054; p = 0.010) | 0.942                   | +6.63%        |
| Severity  | 2007.2     | 0.065 (CI = +/-0.006; p = 0.000)  | -0.075 (CI = +/-0.055; p = 0.010) | 0.937                   | +6.69%        |
| Severity  | 2008.1     | 0.067 (CI = +/-0.006; p = 0.000)  | -0.066 (CI = +/-0.054; p = 0.018) | 0.942                   | +6.88%        |
| Severity  | 2008.2     | 0.069 (CI = +/-0.006; p = 0.000)  | -0.078 (CI = +/-0.050; p = 0.004) | 0.951                   | +7.15%        |
| Severity  | 2009.1     | 0.072 (CI = +/-0.006; p = 0.000)  | -0.066 (CI = +/-0.044; p = 0.005) | 0.963                   | +7.43%        |
| Severity  | 2009.2     | 0.074 (CI = +/-0.006; p = 0.000)  | -0.075 (CI = +/-0.042; p = 0.001) | 0.967                   | +7.64%        |
| Severity  | 2010.1     | 0.076 (CI = +/-0.005; p = 0.000)  | -0.065 (CI = +/-0.038; p = 0.002) | 0.975                   | +7.89%        |
| Severity  | 2010.2     | 0.075 (CI = +/-0.006; p = 0.000)  | -0.063 (CI = +/-0.039; p = 0.003) | 0.971                   | +7.82%        |
| Severity  | 2011.1     | 0.076 (CI = +/-0.006; p = 0.000)  | -0.059 (CI = +/-0.040; p = 0.006) | 0.969                   | +7.91%        |
| Severity  | 2011.2     | 0.074 (CI = +/-0.006; p = 0.000)  | -0.051 (CI = +/-0.038; p = 0.012) | 0.969                   | +7.67%        |
| Severity  | 2012.1     | 0.076 (CI = +/-0.006; p = 0.000)  | -0.043 (CI = +/-0.036; p = 0.020) | 0.974                   | +7.91%        |
| Severity  | 2012.2     | 0.078 (CI = +/-0.006; p = 0.000)  | -0.051 (CI = +/-0.033; p = 0.005) | 0.977                   | +8.16%        |
| Severity  | 2013.1     | 0.080 (CI = +/-0.006; p = 0.000)  | -0.047 (CI = +/-0.034; p = 0.009) | 0.977                   | +8.30%        |
| Severity  | 2013.2     | 0.081 (CI = +/-0.007; p = 0.000)  | -0.051 (CI = +/-0.035; p = 0.007) | 0.975                   | +8.44%        |
| Severity  | 2014.1     | 0.081 (CI = +/-0.008; p = 0.000)  | -0.053 (CI = +/-0.037; p = 0.009) | 0.971                   | +8.39%        |
| Severity  | 2014.2     | 0.079 (CI = +/-0.008; p = 0.000)  | -0.047 (CI = +/-0.038; p = 0.019) | 0.966                   | +8.17%        |
| Severity  | 2015.1     | 0.079 (CI = +/-0.009; p = 0.000)  | -0.047 (CI = +/-0.041; p = 0.029) | 0.960                   | +8.18%        |
| Severity  | 2015.2     | 0.078 (CI = +/-0.011; p = 0.000)  | -0.046 (CI = +/-0.045; p = 0.047) | 0.948                   | +8.14%        |
| Severity  | 2016.1     | 0.081 (CI = +/-0.012; p = 0.000)  | -0.039 (CI = +/-0.045; p = 0.086) | 0.950                   | +8.49%        |
| Severity  | 2016.2     | 0.086 (CI = +/-0.013; p = 0.000)  | -0.048 (CI = +/-0.045; p = 0.038) | 0.952                   | +8.96%        |
| Severity  | 2017.1     | 0.090 (CI = +/-0.014; p = 0.000)  | -0.040 (CI = +/-0.044; p = 0.069) | 0.958                   | +9.44%        |
|           |            |                                   |                                   |                         |               |
| Frequency | 2005.2     | -0.019 (CI = +/-0.009; p = 0.000) | -0.095 (CI = +/-0.084; p = 0.028) | 0.440                   | -1.93%        |
| Frequency | 2006.1     | -0.019 (CI = +/-0.009; p = 0.000) | -0.091 (CI = +/-0.086; p = 0.040) | 0.390                   | -1.86%        |
| Frequency | 2006.2     | -0.018 (CI = +/-0.010; p = 0.001) | -0.097 (CI = +/-0.089; p = 0.034) | 0.370                   | -1.76%        |
| Frequency | 2007.1     | -0.017 (CI = +/-0.010; p = 0.002) | -0.093 (CI = +/-0.091; p = 0.047) | 0.317                   | -1.68%        |
| Frequency | 2007.2     | -0.016 (CI = +/-0.011; p = 0.005) | -0.095 (CI = +/-0.095; p = 0.049) | 0.303                   | -1.63%        |
| Frequency | 2008.1     | -0.017 (CI = +/-0.012; p = 0.006) | -0.098 (CI = +/-0.098; p = 0.049) | 0.287                   | -1.70%        |
| Frequency | 2008.2     | -0.018 (CI = +/-0.013; p = 0.008) | -0.096 (CI = +/-0.102; p = 0.063) | 0.284                   | -1.74%        |
| Frequency | 2009.1     | -0.019 (CI = +/-0.013; p = 0.006) | -0.105 (CI = +/-0.104; p = 0.048) | 0.305                   | -1.93%        |
| Frequency | 2009.2     | -0.021 (CI = +/-0.014; p = 0.005) | -0.097 (CI = +/-0.107; p = 0.075) | 0.320                   | -2.10%        |
| Frequency | 2010.1     | -0.023 (CI = +/-0.015; p = 0.004) | -0.106 (CI = +/-0.110; p = 0.058) | 0.337                   | -2.32%        |
| Frequency | 2010.2     | -0.026 (CI = +/-0.016; p = 0.003) | -0.094 (CI = +/-0.112; p = 0.097) | 0.367                   | -2.60%        |
| Frequency | 2011.1     | -0.029 (CI = +/-0.017; p = 0.003) | -0.102 (CI = +/-0.116; p = 0.081) | 0.371                   | -2.81%        |
| Frequency | 2011.2     | -0.030 (CI = +/-0.019; p = 0.004) | -0.098 (CI = +/-0.122; p = 0.109) | 0.367                   | -2.92%        |
| Frequency | 2012.1     | -0.035 (CI = +/-0.020; p = 0.002) | -0.116 (CI = +/-0.121; p = 0.059) | 0.436                   | -3.42%        |
| Frequency | 2012.2     | -0.039 (CI = +/-0.021; p = 0.001) | -0.100 (CI = +/-0.123; p = 0.106) | 0.476                   | -3.86%        |
| Frequency | 2013.1     | -0.045 (CI = +/-0.023; p = 0.001) | -0.116 (CI = +/-0.124; p = 0.065) | 0.517                   | -4.36%        |
| Frequency | 2013.2     | -0.050 (CI = +/-0.025; p = 0.001) | -0.101 (CI = +/-0.128; p = 0.115) | 0.548                   | -4.83%        |
| Frequency | 2014.1     | -0.054 (CI = +/-0.027; p = 0.001) | -0.113 (CI = +/-0.134; p = 0.092) | 0.546                   | -5.24%        |
| Frequency | 2014.2     | -0.060 (CI = +/-0.030; p = 0.001) | -0.096 (CI = +/-0.139; p = 0.159) | 0.572                   | -5.79%        |
| Frequency | 2015.1     | -0.066 (CI = +/-0.033; p = 0.001) | -0.112 (CI = +/-0.144; p = 0.117) | 0.581                   | -6.38%        |
| Frequency | 2015.2     | -0.072 (CI = +/-0.038; p = 0.002) | -0.098 (CI = +/-0.155; p = 0.192) | 0.588                   | -6.92%        |
| Frequency | 2016.1     | -0.081 (CI = +/-0.042; p = 0.002) | -0.119 (CI = +/-0.159; p = 0.128) | 0.613                   | -7.81%        |
| Frequency | 2016.2     | -0.095 (CI = +/-0.047; p = 0.001) | -0.090 (CI = +/-0.164; p = 0.245) | 0.666                   | -9.02%        |
| Frequency | 2017.1     | -0.107 (CI = +/-0.054; p = 0.002) | -0.112 (CI = +/-0.171; p = 0.168) | 0.680                   | -10.12%       |

**Bodily Injury - Adjusted**

Coverage = BI - Adjusted

End Trend Period = 2021.2

Excluded Points = NA

Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R <sup>2</sup> | Implied Trend |
|-----------|------------|-----------------------------------|-----------------------------------|-------------------------|---------------|
|           |            |                                   |                                   |                         | Rate          |
| Loss Cost | 2005.2     | 0.045 (CI = +/-0.008; p = 0.000)  | -0.160 (CI = +/-0.074; p = 0.000) | 0.834                   | +4.64%        |
| Loss Cost | 2006.1     | 0.047 (CI = +/-0.008; p = 0.000)  | -0.153 (CI = +/-0.075; p = 0.000) | 0.837                   | +4.77%        |
| Loss Cost | 2006.2     | 0.048 (CI = +/-0.008; p = 0.000)  | -0.161 (CI = +/-0.076; p = 0.000) | 0.835                   | +4.92%        |
| Loss Cost | 2007.1     | 0.050 (CI = +/-0.009; p = 0.000)  | -0.150 (CI = +/-0.075; p = 0.000) | 0.847                   | +5.14%        |
| Loss Cost | 2007.2     | 0.051 (CI = +/-0.009; p = 0.000)  | -0.156 (CI = +/-0.077; p = 0.000) | 0.839                   | +5.26%        |
| Loss Cost | 2008.1     | 0.053 (CI = +/-0.010; p = 0.000)  | -0.148 (CI = +/-0.078; p = 0.001) | 0.843                   | +5.44%        |
| Loss Cost | 2008.2     | 0.055 (CI = +/-0.010; p = 0.000)  | -0.158 (CI = +/-0.078; p = 0.000) | 0.847                   | +5.67%        |
| Loss Cost | 2009.1     | 0.056 (CI = +/-0.011; p = 0.000)  | -0.152 (CI = +/-0.081; p = 0.001) | 0.845                   | +5.80%        |
| Loss Cost | 2009.2     | 0.057 (CI = +/-0.012; p = 0.000)  | -0.154 (CI = +/-0.084; p = 0.001) | 0.826                   | +5.84%        |
| Loss Cost | 2010.1     | 0.058 (CI = +/-0.013; p = 0.000)  | -0.150 (CI = +/-0.088; p = 0.002) | 0.819                   | +5.92%        |
| Loss Cost | 2010.2     | 0.054 (CI = +/-0.013; p = 0.000)  | -0.137 (CI = +/-0.087; p = 0.004) | 0.791                   | +5.56%        |
| Loss Cost | 2011.1     | 0.053 (CI = +/-0.014; p = 0.000)  | -0.140 (CI = +/-0.091; p = 0.005) | 0.776                   | +5.47%        |
| Loss Cost | 2011.2     | 0.050 (CI = +/-0.015; p = 0.000)  | -0.129 (CI = +/-0.092; p = 0.009) | 0.731                   | +5.13%        |
| Loss Cost | 2012.1     | 0.048 (CI = +/-0.017; p = 0.000)  | -0.137 (CI = +/-0.096; p = 0.008) | 0.712                   | +4.87%        |
| Loss Cost | 2012.2     | 0.045 (CI = +/-0.018; p = 0.000)  | -0.131 (CI = +/-0.100; p = 0.014) | 0.649                   | +4.65%        |
| Loss Cost | 2013.1     | 0.042 (CI = +/-0.020; p = 0.000)  | -0.142 (CI = +/-0.105; p = 0.011) | 0.629                   | +4.30%        |
| Loss Cost | 2013.2     | 0.039 (CI = +/-0.022; p = 0.002)  | -0.132 (CI = +/-0.109; p = 0.021) | 0.538                   | +3.94%        |
| Loss Cost | 2014.1     | 0.034 (CI = +/-0.025; p = 0.010)  | -0.144 (CI = +/-0.115; p = 0.018) | 0.520                   | +3.50%        |
| Loss Cost | 2014.2     | 0.027 (CI = +/-0.026; p = 0.046)  | -0.124 (CI = +/-0.112; p = 0.033) | 0.386                   | +2.69%        |
| Loss Cost | 2015.1     | 0.021 (CI = +/-0.029; p = 0.149)  | -0.139 (CI = +/-0.118; p = 0.025) | 0.389                   | +2.08%        |
| Loss Cost | 2015.2     | 0.015 (CI = +/-0.033; p = 0.347)  | -0.126 (CI = +/-0.124; p = 0.047) | 0.254                   | +1.48%        |
| Loss Cost | 2016.1     | 0.009 (CI = +/-0.039; p = 0.629)  | -0.139 (CI = +/-0.136; p = 0.046) | 0.270                   | +0.87%        |
| Loss Cost | 2016.2     | 0.000 (CI = +/-0.045; p = 0.994)  | -0.123 (CI = +/-0.144; p = 0.085) | 0.157                   | -0.02%        |
| Loss Cost | 2017.1     | -0.008 (CI = +/-0.057; p = 0.759) | -0.136 (CI = +/-0.163; p = 0.089) | 0.175                   | -0.76%        |
|           |            |                                   |                                   |                         |               |
| Severity  | 2005.2     | 0.062 (CI = +/-0.005; p = 0.000)  | -0.081 (CI = +/-0.050; p = 0.002) | 0.948                   | +6.39%        |
| Severity  | 2006.1     | 0.062 (CI = +/-0.006; p = 0.000)  | -0.080 (CI = +/-0.052; p = 0.004) | 0.945                   | +6.41%        |
| Severity  | 2006.2     | 0.062 (CI = +/-0.006; p = 0.000)  | -0.081 (CI = +/-0.053; p = 0.004) | 0.939                   | +6.44%        |
| Severity  | 2007.1     | 0.063 (CI = +/-0.006; p = 0.000)  | -0.077 (CI = +/-0.055; p = 0.008) | 0.938                   | +6.53%        |
| Severity  | 2007.2     | 0.064 (CI = +/-0.007; p = 0.000)  | -0.080 (CI = +/-0.056; p = 0.008) | 0.932                   | +6.58%        |
| Severity  | 2008.1     | 0.066 (CI = +/-0.007; p = 0.000)  | -0.070 (CI = +/-0.055; p = 0.015) | 0.937                   | +6.79%        |
| Severity  | 2008.2     | 0.068 (CI = +/-0.007; p = 0.000)  | -0.082 (CI = +/-0.051; p = 0.003) | 0.947                   | +7.06%        |
| Severity  | 2009.1     | 0.071 (CI = +/-0.006; p = 0.000)  | -0.069 (CI = +/-0.046; p = 0.005) | 0.959                   | +7.36%        |
| Severity  | 2009.2     | 0.073 (CI = +/-0.006; p = 0.000)  | -0.077 (CI = +/-0.044; p = 0.001) | 0.963                   | +7.58%        |
| Severity  | 2010.1     | 0.076 (CI = +/-0.006; p = 0.000)  | -0.066 (CI = +/-0.039; p = 0.002) | 0.972                   | +7.86%        |
| Severity  | 2010.2     | 0.075 (CI = +/-0.006; p = 0.000)  | -0.064 (CI = +/-0.041; p = 0.004) | 0.967                   | +7.79%        |
| Severity  | 2011.1     | 0.076 (CI = +/-0.007; p = 0.000)  | -0.060 (CI = +/-0.042; p = 0.008) | 0.965                   | +7.88%        |
| Severity  | 2011.2     | 0.074 (CI = +/-0.007; p = 0.000)  | -0.052 (CI = +/-0.040; p = 0.013) | 0.965                   | +7.63%        |
| Severity  | 2012.1     | 0.076 (CI = +/-0.007; p = 0.000)  | -0.044 (CI = +/-0.038; p = 0.027) | 0.970                   | +7.90%        |
| Severity  | 2012.2     | 0.078 (CI = +/-0.006; p = 0.000)  | -0.051 (CI = +/-0.035; p = 0.007) | 0.974                   | +8.16%        |
| Severity  | 2013.1     | 0.080 (CI = +/-0.007; p = 0.000)  | -0.046 (CI = +/-0.036; p = 0.015) | 0.974                   | +8.33%        |
| Severity  | 2013.2     | 0.081 (CI = +/-0.008; p = 0.000)  | -0.050 (CI = +/-0.037; p = 0.012) | 0.971                   | +8.48%        |
| Severity  | 2014.1     | 0.081 (CI = +/-0.009; p = 0.000)  | -0.052 (CI = +/-0.040; p = 0.016) | 0.966                   | +8.43%        |
| Severity  | 2014.2     | 0.079 (CI = +/-0.009; p = 0.000)  | -0.046 (CI = +/-0.041; p = 0.030) | 0.960                   | +8.20%        |
| Severity  | 2015.1     | 0.079 (CI = +/-0.011; p = 0.000)  | -0.046 (CI = +/-0.045; p = 0.046) | 0.952                   | +8.21%        |
| Severity  | 2015.2     | 0.079 (CI = +/-0.013; p = 0.000)  | -0.045 (CI = +/-0.049; p = 0.069) | 0.937                   | +8.17%        |
| Severity  | 2016.1     | 0.083 (CI = +/-0.015; p = 0.000)  | -0.036 (CI = +/-0.050; p = 0.141) | 0.941                   | +8.63%        |
| Severity  | 2016.2     | 0.088 (CI = +/-0.016; p = 0.000)  | -0.045 (CI = +/-0.049; p = 0.070) | 0.945                   | +9.16%        |
| Severity  | 2017.1     | 0.094 (CI = +/-0.016; p = 0.000)  | -0.032 (CI = +/-0.047; p = 0.146) | 0.957                   | +9.90%        |
|           |            |                                   |                                   |                         |               |
| Frequency | 2005.2     | -0.017 (CI = +/-0.008; p = 0.000) | -0.079 (CI = +/-0.079; p = 0.051) | 0.369                   | -1.65%        |
| Frequency | 2006.1     | -0.016 (CI = +/-0.009; p = 0.001) | -0.073 (CI = +/-0.081; p = 0.076) | 0.308                   | -1.54%        |
| Frequency | 2006.2     | -0.014 (CI = +/-0.009; p = 0.004) | -0.079 (CI = +/-0.083; p = 0.060) | 0.284                   | -1.42%        |
| Frequency | 2007.1     | -0.013 (CI = +/-0.010; p = 0.011) | -0.073 (CI = +/-0.085; p = 0.089) | 0.219                   | -1.30%        |
| Frequency | 2007.2     | -0.012 (CI = +/-0.010; p = 0.021) | -0.076 (CI = +/-0.088; p = 0.087) | 0.204                   | -1.24%        |
| Frequency | 2008.1     | -0.013 (CI = +/-0.011; p = 0.029) | -0.077 (CI = +/-0.091; p = 0.094) | 0.180                   | -1.27%        |
| Frequency | 2008.2     | -0.013 (CI = +/-0.012; p = 0.038) | -0.076 (CI = +/-0.095; p = 0.112) | 0.176                   | -1.29%        |
| Frequency | 2009.1     | -0.015 (CI = +/-0.013; p = 0.030) | -0.083 (CI = +/-0.098; p = 0.092) | 0.192                   | -1.45%        |
| Frequency | 2009.2     | -0.016 (CI = +/-0.014; p = 0.024) | -0.076 (CI = +/-0.101; p = 0.132) | 0.207                   | -1.62%        |
| Frequency | 2010.1     | -0.018 (CI = +/-0.015; p = 0.021) | -0.084 (CI = +/-0.105; p = 0.111) | 0.218                   | -1.80%        |
| Frequency | 2010.2     | -0.021 (CI = +/-0.016; p = 0.014) | -0.073 (CI = +/-0.107; p = 0.169) | 0.251                   | -2.07%        |
| Frequency | 2011.1     | -0.023 (CI = +/-0.018; p = 0.015) | -0.080 (CI = +/-0.112; p = 0.152) | 0.246                   | -2.24%        |
| Frequency | 2011.2     | -0.024 (CI = +/-0.019; p = 0.020) | -0.077 (CI = +/-0.118; p = 0.188) | 0.241                   | -2.33%        |
| Frequency | 2012.1     | -0.028 (CI = +/-0.021; p = 0.010) | -0.094 (CI = +/-0.119; p = 0.113) | 0.310                   | -2.81%        |
| Frequency | 2012.2     | -0.033 (CI = +/-0.022; p = 0.006) | -0.080 (CI = +/-0.121; p = 0.181) | 0.358                   | -3.24%        |
| Frequency | 2013.1     | -0.038 (CI = +/-0.024; p = 0.004) | -0.095 (CI = +/-0.124; p = 0.123) | 0.395                   | -3.72%        |
| Frequency | 2013.2     | -0.043 (CI = +/-0.026; p = 0.003) | -0.082 (CI = +/-0.128; p = 0.194) | 0.433                   | -4.19%        |
| Frequency | 2014.1     | -0.047 (CI = +/-0.030; p = 0.005) | -0.092 (CI = +/-0.136; p = 0.168) | 0.418                   | -4.54%        |
| Frequency | 2014.2     | -0.052 (CI = +/-0.033; p = 0.005) | -0.078 (CI = +/-0.142; p = 0.256) | 0.450                   | -5.09%        |
| Frequency | 2015.1     | -0.058 (CI = +/-0.038; p = 0.006) | -0.093 (CI = +/-0.152; p = 0.205) | 0.446                   | -5.66%        |
| Frequency | 2015.2     | -0.064 (CI = +/-0.043; p = 0.008) | -0.081 (CI = +/-0.163; p = 0.295) | 0.454                   | -6.19%        |
| Frequency | 2016.1     | -0.074 (CI = +/-0.051; p = 0.009) | -0.103 (CI = +/-0.174; p = 0.214) | 0.470                   | -7.14%        |
| Frequency | 2016.2     | -0.088 (CI = +/-0.057; p = 0.007) | -0.078 (CI = +/-0.180; p = 0.348) | 0.540                   | -8.41%        |
| Frequency | 2017.1     | -0.102 (CI = +/-0.069; p = 0.010) | -0.104 (CI = +/-0.197; p = 0.253) | 0.545                   | -9.70%        |



**Bodily Injury**

Coverage = BI

End Trend Period = 2022.1

Excluded Points = NA

Parameters Included: time, scalar\_level\_change, seasonality

Scalar Level Change Start Date = 2020-11-01

| Fit       | Start Date | Time                              | Seasonality                       | Scalar Shift                      | Adjusted R <sup>2</sup> | Implied Trend Rate |
|-----------|------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|--------------------|
| Loss Cost | 2005.2     | 0.048 (CI = +/-0.009; p = 0.000)  | -0.167 (CI = +/-0.072; p = 0.000) | -0.348 (CI = +/-0.149; p = 0.000) | 0.816                   | +4.91%             |
| Loss Cost | 2006.1     | 0.050 (CI = +/-0.009; p = 0.000)  | -0.160 (CI = +/-0.073; p = 0.000) | -0.359 (CI = +/-0.150; p = 0.000) | 0.821                   | +5.08%             |
| Loss Cost | 2006.2     | 0.052 (CI = +/-0.009; p = 0.000)  | -0.169 (CI = +/-0.073; p = 0.000) | -0.371 (CI = +/-0.148; p = 0.000) | 0.822                   | +5.29%             |
| Loss Cost | 2007.1     | 0.054 (CI = +/-0.010; p = 0.000)  | -0.157 (CI = +/-0.072; p = 0.000) | -0.388 (CI = +/-0.145; p = 0.000) | 0.839                   | +5.57%             |
| Loss Cost | 2007.2     | 0.056 (CI = +/-0.010; p = 0.000)  | -0.165 (CI = +/-0.073; p = 0.000) | -0.398 (CI = +/-0.145; p = 0.000) | 0.835                   | +5.76%             |
| Loss Cost | 2008.1     | 0.058 (CI = +/-0.011; p = 0.000)  | -0.156 (CI = +/-0.073; p = 0.000) | -0.412 (CI = +/-0.145; p = 0.000) | 0.843                   | +6.01%             |
| Loss Cost | 2008.2     | 0.062 (CI = +/-0.011; p = 0.000)  | -0.168 (CI = +/-0.071; p = 0.000) | -0.429 (CI = +/-0.139; p = 0.000) | 0.856                   | +6.36%             |
| Loss Cost | 2009.1     | 0.064 (CI = +/-0.011; p = 0.000)  | -0.161 (CI = +/-0.072; p = 0.000) | -0.440 (CI = +/-0.141; p = 0.000) | 0.858                   | +6.57%             |
| Loss Cost | 2009.2     | 0.065 (CI = +/-0.012; p = 0.000)  | -0.165 (CI = +/-0.074; p = 0.000) | -0.446 (CI = +/-0.145; p = 0.000) | 0.843                   | +6.71%             |
| Loss Cost | 2010.1     | 0.067 (CI = +/-0.013; p = 0.000)  | -0.160 (CI = +/-0.077; p = 0.000) | -0.455 (CI = +/-0.149; p = 0.000) | 0.841                   | +6.89%             |
| Loss Cost | 2010.2     | 0.063 (CI = +/-0.014; p = 0.000)  | -0.150 (CI = +/-0.077; p = 0.001) | -0.440 (CI = +/-0.148; p = 0.000) | 0.811                   | +6.53%             |
| Loss Cost | 2011.1     | 0.063 (CI = +/-0.016; p = 0.000)  | -0.150 (CI = +/-0.081; p = 0.001) | -0.439 (CI = +/-0.155; p = 0.000) | 0.798                   | +6.51%             |
| Loss Cost | 2011.2     | 0.060 (CI = +/-0.017; p = 0.000)  | -0.142 (CI = +/-0.084; p = 0.002) | -0.427 (CI = +/-0.159; p = 0.000) | 0.755                   | +6.19%             |
| Loss Cost | 2012.1     | 0.058 (CI = +/-0.019; p = 0.000)  | -0.148 (CI = +/-0.088; p = 0.002) | -0.417 (CI = +/-0.166; p = 0.000) | 0.738                   | +5.95%             |
| Loss Cost | 2012.2     | 0.057 (CI = +/-0.022; p = 0.000)  | -0.145 (CI = +/-0.093; p = 0.004) | -0.412 (CI = +/-0.174; p = 0.000) | 0.689                   | +5.83%             |
| Loss Cost | 2013.1     | 0.053 (CI = +/-0.024; p = 0.000)  | -0.153 (CI = +/-0.097; p = 0.004) | -0.399 (CI = +/-0.183; p = 0.000) | 0.675                   | +5.48%             |
| Loss Cost | 2013.2     | 0.050 (CI = +/-0.028; p = 0.002)  | -0.147 (CI = +/-0.103; p = 0.009) | -0.388 (CI = +/-0.193; p = 0.001) | 0.615                   | +5.16%             |
| Loss Cost | 2014.1     | 0.046 (CI = +/-0.032; p = 0.008)  | -0.155 (CI = +/-0.109; p = 0.009) | -0.372 (CI = +/-0.205; p = 0.002) | 0.609                   | +4.70%             |
| Loss Cost | 2014.2     | 0.036 (CI = +/-0.035; p = 0.042)  | -0.139 (CI = +/-0.110; p = 0.018) | -0.342 (CI = +/-0.207; p = 0.004) | 0.560                   | +3.71%             |
| Loss Cost | 2015.1     | 0.029 (CI = +/-0.041; p = 0.145)  | -0.151 (CI = +/-0.117; p = 0.016) | -0.317 (CI = +/-0.221; p = 0.009) | 0.574                   | +2.93%             |
| Loss Cost | 2015.2     | 0.022 (CI = +/-0.048; p = 0.343)  | -0.141 (CI = +/-0.125; p = 0.031) | -0.296 (CI = +/-0.239; p = 0.020) | 0.549                   | +2.18%             |
| Loss Cost | 2016.1     | 0.012 (CI = +/-0.059; p = 0.642)  | -0.152 (CI = +/-0.136; p = 0.032) | -0.270 (CI = +/-0.265; p = 0.046) | 0.559                   | +1.26%             |
| Loss Cost | 2016.2     | -0.002 (CI = +/-0.072; p = 0.960) | -0.137 (CI = +/-0.146; p = 0.063) | -0.235 (CI = +/-0.290; p = 0.098) | 0.565                   | -0.16%             |
| Loss Cost | 2017.1     | -0.018 (CI = +/-0.092; p = 0.662) | -0.152 (CI = +/-0.162; p = 0.062) | -0.194 (CI = +/-0.333; p = 0.211) | 0.571                   | -1.75%             |
| Severity  | 2005.2     | 0.059 (CI = +/-0.005; p = 0.000)  | -0.079 (CI = +/-0.046; p = 0.001) | -0.080 (CI = +/-0.094; p = 0.095) | 0.950                   | +6.08%             |
| Severity  | 2006.1     | 0.059 (CI = +/-0.006; p = 0.000)  | -0.079 (CI = +/-0.047; p = 0.002) | -0.080 (CI = +/-0.097; p = 0.102) | 0.946                   | +6.09%             |
| Severity  | 2006.2     | 0.059 (CI = +/-0.006; p = 0.000)  | -0.079 (CI = +/-0.049; p = 0.003) | -0.080 (CI = +/-0.099; p = 0.109) | 0.940                   | +6.10%             |
| Severity  | 2007.1     | 0.060 (CI = +/-0.007; p = 0.000)  | -0.076 (CI = +/-0.050; p = 0.005) | -0.085 (CI = +/-0.101; p = 0.096) | 0.937                   | +6.18%             |
| Severity  | 2007.2     | 0.060 (CI = +/-0.007; p = 0.000)  | -0.077 (CI = +/-0.052; p = 0.005) | -0.087 (CI = +/-0.104; p = 0.096) | 0.930                   | +6.22%             |
| Severity  | 2008.1     | 0.062 (CI = +/-0.007; p = 0.000)  | -0.069 (CI = +/-0.051; p = 0.010) | -0.100 (CI = +/-0.102; p = 0.054) | 0.934                   | +6.44%             |
| Severity  | 2008.2     | 0.065 (CI = +/-0.007; p = 0.000)  | -0.080 (CI = +/-0.048; p = 0.002) | -0.114 (CI = +/-0.094; p = 0.020) | 0.943                   | +6.74%             |
| Severity  | 2009.1     | 0.068 (CI = +/-0.007; p = 0.000)  | -0.068 (CI = +/-0.043; p = 0.003) | -0.132 (CI = +/-0.085; p = 0.004) | 0.956                   | +7.08%             |
| Severity  | 2009.2     | 0.071 (CI = +/-0.007; p = 0.000)  | -0.076 (CI = +/-0.041; p = 0.001) | -0.143 (CI = +/-0.081; p = 0.001) | 0.959                   | +7.32%             |
| Severity  | 2010.1     | 0.074 (CI = +/-0.007; p = 0.000)  | -0.066 (CI = +/-0.038; p = 0.001) | -0.159 (CI = +/-0.073; p = 0.000) | 0.967                   | +7.65%             |
| Severity  | 2010.2     | 0.073 (CI = +/-0.007; p = 0.000)  | -0.063 (CI = +/-0.039; p = 0.003) | -0.154 (CI = +/-0.074; p = 0.000) | 0.962                   | +7.53%             |
| Severity  | 2011.1     | 0.073 (CI = +/-0.008; p = 0.000)  | -0.061 (CI = +/-0.040; p = 0.005) | -0.158 (CI = +/-0.077; p = 0.000) | 0.959                   | +7.63%             |
| Severity  | 2011.2     | 0.070 (CI = +/-0.008; p = 0.000)  | -0.052 (CI = +/-0.037; p = 0.008) | -0.145 (CI = +/-0.069; p = 0.000) | 0.960                   | +7.26%             |
| Severity  | 2012.1     | 0.073 (CI = +/-0.008; p = 0.000)  | -0.045 (CI = +/-0.035; p = 0.016) | -0.157 (CI = +/-0.066; p = 0.000) | 0.964                   | +7.56%             |
| Severity  | 2012.2     | 0.076 (CI = +/-0.008; p = 0.000)  | -0.052 (CI = +/-0.033; p = 0.005) | -0.168 (CI = +/-0.062; p = 0.000) | 0.967                   | +7.88%             |
| Severity  | 2013.1     | 0.078 (CI = +/-0.009; p = 0.000)  | -0.048 (CI = +/-0.034; p = 0.009) | -0.175 (CI = +/-0.064; p = 0.000) | 0.965                   | +8.06%             |
| Severity  | 2013.2     | 0.079 (CI = +/-0.010; p = 0.000)  | -0.051 (CI = +/-0.036; p = 0.008) | -0.181 (CI = +/-0.067; p = 0.000) | 0.959                   | +8.23%             |
| Severity  | 2014.1     | 0.078 (CI = +/-0.011; p = 0.000)  | -0.053 (CI = +/-0.038; p = 0.010) | -0.177 (CI = +/-0.072; p = 0.000) | 0.950                   | +8.12%             |
| Severity  | 2014.2     | 0.074 (CI = +/-0.012; p = 0.000)  | -0.047 (CI = +/-0.038; p = 0.019) | -0.165 (CI = +/-0.071; p = 0.000) | 0.939                   | +7.71%             |
| Severity  | 2015.1     | 0.074 (CI = +/-0.014; p = 0.000)  | -0.048 (CI = +/-0.041; p = 0.026) | -0.162 (CI = +/-0.078; p = 0.001) | 0.924                   | +7.63%             |
| Severity  | 2015.2     | 0.072 (CI = +/-0.017; p = 0.000)  | -0.046 (CI = +/-0.045; p = 0.047) | -0.157 (CI = +/-0.085; p = 0.002) | 0.891                   | +7.44%             |
| Severity  | 2016.1     | 0.077 (CI = +/-0.020; p = 0.000)  | -0.040 (CI = +/-0.047; p = 0.089) | -0.172 (CI = +/-0.091; p = 0.002) | 0.885                   | +7.96%             |
| Severity  | 2016.2     | 0.084 (CI = +/-0.023; p = 0.000)  | -0.047 (CI = +/-0.048; p = 0.052) | -0.190 (CI = +/-0.094; p = 0.002) | 0.878                   | +8.75%             |
| Severity  | 2017.1     | 0.094 (CI = +/-0.027; p = 0.000)  | -0.038 (CI = +/-0.047; p = 0.099) | -0.215 (CI = +/-0.097; p = 0.001) | 0.892                   | +9.84%             |
| Frequency | 2005.2     | -0.011 (CI = +/-0.009; p = 0.012) | -0.088 (CI = +/-0.071; p = 0.016) | -0.269 (CI = +/-0.146; p = 0.001) | 0.606                   | -1.11%             |
| Frequency | 2006.1     | -0.010 (CI = +/-0.009; p = 0.036) | -0.081 (CI = +/-0.072; p = 0.027) | -0.279 (CI = +/-0.147; p = 0.001) | 0.586                   | -0.95%             |
| Frequency | 2006.2     | -0.008 (CI = +/-0.009; p = 0.102) | -0.090 (CI = +/-0.072; p = 0.016) | -0.290 (CI = +/-0.146; p = 0.000) | 0.591                   | -0.76%             |
| Frequency | 2007.1     | -0.006 (CI = +/-0.010; p = 0.234) | -0.082 (CI = +/-0.072; p = 0.028) | -0.303 (CI = +/-0.146; p = 0.000) | 0.576                   | -0.57%             |
| Frequency | 2007.2     | -0.004 (CI = +/-0.010; p = 0.399) | -0.087 (CI = +/-0.074; p = 0.022) | -0.310 (CI = +/-0.148; p = 0.000) | 0.578                   | -0.43%             |
| Frequency | 2008.1     | -0.004 (CI = +/-0.011; p = 0.468) | -0.086 (CI = +/-0.077; p = 0.029) | -0.312 (CI = +/-0.153; p = 0.000) | 0.567                   | -0.40%             |
| Frequency | 2008.2     | -0.003 (CI = +/-0.012; p = 0.559) | -0.088 (CI = +/-0.080; p = 0.032) | -0.315 (CI = +/-0.157; p = 0.000) | 0.564                   | -0.35%             |
| Frequency | 2009.1     | -0.005 (CI = +/-0.013; p = 0.466) | -0.092 (CI = +/-0.083; p = 0.030) | -0.308 (CI = +/-0.162; p = 0.001) | 0.566                   | -0.47%             |
| Frequency | 2009.2     | -0.006 (CI = +/-0.014; p = 0.412) | -0.089 (CI = +/-0.086; p = 0.043) | -0.303 (CI = +/-0.167; p = 0.001) | 0.567                   | -0.57%             |
| Frequency | 2010.1     | -0.007 (CI = +/-0.016; p = 0.356) | -0.093 (CI = +/-0.090; p = 0.042) | -0.296 (CI = +/-0.173; p = 0.002) | 0.566                   | -0.71%             |
| Frequency | 2010.2     | -0.009 (CI = +/-0.017; p = 0.263) | -0.086 (CI = +/-0.092; p = 0.065) | -0.286 (CI = +/-0.177; p = 0.003) | 0.575                   | -0.93%             |
| Frequency | 2011.1     | -0.010 (CI = +/-0.019; p = 0.260) | -0.090 (CI = +/-0.097; p = 0.069) | -0.280 (CI = +/-0.185; p = 0.005) | 0.567                   | -1.04%             |
| Frequency | 2011.2     | -0.010 (CI = +/-0.021; p = 0.329) | -0.091 (CI = +/-0.102; p = 0.079) | -0.282 (CI = +/-0.194; p = 0.007) | 0.560                   | -1.00%             |
| Frequency | 2012.1     | -0.015 (CI = +/-0.023; p = 0.181) | -0.103 (CI = +/-0.104; p = 0.052) | -0.260 (CI = +/-0.197; p = 0.013) | 0.589                   | -1.49%             |
| Frequency | 2012.2     | -0.019 (CI = +/-0.025; p = 0.125) | -0.094 (CI = +/-0.108; p = 0.084) | -0.244 (CI = +/-0.203; p = 0.021) | 0.604                   | -1.90%             |
| Frequency | 2013.1     | -0.024 (CI = +/-0.028; p = 0.085) | -0.105 (CI = +/-0.112; p = 0.065) | -0.223 (CI = +/-0.211; p = 0.039) | 0.616                   | -2.39%             |
| Frequency | 2013.2     | -0.029 (CI = +/-0.032; p = 0.071) | -0.096 (CI = +/-0.118; p = 0.104) | -0.208 (CI = +/-0.220; p = 0.063) | 0.625                   | -2.84%             |
| Frequency | 2014.1     | -0.032 (CI = +/-0.037; p = 0.080) | -0.102 (CI = +/-0.126; p = 0.104) | -0.195 (CI = +/-0.236; p = 0.098) | 0.607                   | -3.16%             |
| Frequency | 2014.2     | -0.038 (CI = +/-0.042; p = 0.075) | -0.092 (CI = +/-0.134; p = 0.159) | -0.177 (CI = +/-0.251; p = 0.150) | 0.613                   | -3.71%             |
| Frequency | 2015.1     | -0.045 (CI = +/-0.050; p = 0.075) | -0.103 (CI = +/-0.144; p = 0.143) | -0.155 (CI = +/-0.272; p = 0.237) | 0.600                   | -4.36%             |
| Frequency | 2015.2     | -0.050 (CI = +/-0.060; p = 0.093) | -0.095 (CI = +/-0.156; p = 0.205) | -0.139 (CI = +/-0.298; p = 0.323) | 0.591                   | -4.90%             |
| Frequency | 2016.1     | -0.064 (CI = +/-0.072; p = 0.076) | -0.112 (CI = +/-0.168; p = 0.164) | -0.098 (CI = +/-0.326; p = 0.514) | 0.591                   | -6.21%             |
| Frequency | 2016.2     | -0.085 (CI = +/-0.086; p = 0.052) | -0.090 (CI = +/-0.176; p = 0.275) | -0.045 (CI = +/-0.349; p = 0.772) | 0.629                   | -8.19%             |
| Frequency | 2017.1     | -0.112 (CI = +/-0.107; p = 0.043) | -0.114 (CI = +/-0.189; p = 0.197) | 0.021 (CI = +/-0.388; p = 0.901)  | 0.635                   | -10.56%            |

**Bodily Injury**

Coverage = BI

End Trend Period = 2021.2

Excluded Points = NA

Parameters Included: time, scalar\_level\_change, seasonality

Scalar Level Change Start Date = 2020-11-01

| Fit       | Start Date | Time                              | Seasonality                       | Scalar Shift                      | Adjusted R <sup>2</sup> | Implied Trend Rate |
|-----------|------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|--------------------|
| Loss Cost | 2005.2     | 0.048 (CI = +/-0.009; p = 0.000)  | -0.162 (CI = +/-0.073; p = 0.000) | -0.309 (CI = +/-0.171; p = 0.001) | 0.820                   | +4.91%             |
| Loss Cost | 2006.1     | 0.050 (CI = +/-0.009; p = 0.000)  | -0.154 (CI = +/-0.074; p = 0.000) | -0.319 (CI = +/-0.170; p = 0.001) | 0.826                   | +5.08%             |
| Loss Cost | 2006.2     | 0.052 (CI = +/-0.009; p = 0.000)  | -0.162 (CI = +/-0.074; p = 0.000) | -0.331 (CI = +/-0.169; p = 0.000) | 0.827                   | +5.29%             |
| Loss Cost | 2007.1     | 0.054 (CI = +/-0.010; p = 0.000)  | -0.151 (CI = +/-0.073; p = 0.000) | -0.346 (CI = +/-0.164; p = 0.000) | 0.844                   | +5.57%             |
| Loss Cost | 2007.2     | 0.056 (CI = +/-0.010; p = 0.000)  | -0.158 (CI = +/-0.074; p = 0.000) | -0.357 (CI = +/-0.165; p = 0.000) | 0.840                   | +5.76%             |
| Loss Cost | 2008.1     | 0.058 (CI = +/-0.011; p = 0.000)  | -0.148 (CI = +/-0.074; p = 0.000) | -0.370 (CI = +/-0.163; p = 0.000) | 0.849                   | +6.02%             |
| Loss Cost | 2008.2     | 0.062 (CI = +/-0.011; p = 0.000)  | -0.161 (CI = +/-0.071; p = 0.000) | -0.388 (CI = +/-0.156; p = 0.000) | 0.862                   | +6.37%             |
| Loss Cost | 2009.1     | 0.064 (CI = +/-0.011; p = 0.000)  | -0.153 (CI = +/-0.073; p = 0.000) | -0.398 (CI = +/-0.157; p = 0.000) | 0.864                   | +6.59%             |
| Loss Cost | 2009.2     | 0.065 (CI = +/-0.012; p = 0.000)  | -0.157 (CI = +/-0.075; p = 0.000) | -0.404 (CI = +/-0.161; p = 0.000) | 0.849                   | +6.71%             |
| Loss Cost | 2010.1     | 0.067 (CI = +/-0.013; p = 0.000)  | -0.151 (CI = +/-0.078; p = 0.001) | -0.413 (CI = +/-0.165; p = 0.000) | 0.847                   | +6.91%             |
| Loss Cost | 2010.2     | 0.063 (CI = +/-0.014; p = 0.000)  | -0.140 (CI = +/-0.078; p = 0.001) | -0.396 (CI = +/-0.163; p = 0.000) | 0.818                   | +6.54%             |
| Loss Cost | 2011.1     | 0.063 (CI = +/-0.016; p = 0.000)  | -0.140 (CI = +/-0.082; p = 0.002) | -0.396 (CI = +/-0.170; p = 0.000) | 0.804                   | +6.54%             |
| Loss Cost | 2011.2     | 0.060 (CI = +/-0.017; p = 0.000)  | -0.132 (CI = +/-0.084; p = 0.004) | -0.382 (CI = +/-0.173; p = 0.000) | 0.759                   | +6.21%             |
| Loss Cost | 2012.1     | 0.058 (CI = +/-0.019; p = 0.000)  | -0.137 (CI = +/-0.089; p = 0.005) | -0.374 (CI = +/-0.180; p = 0.000) | 0.738                   | +6.00%             |
| Loss Cost | 2012.2     | 0.057 (CI = +/-0.021; p = 0.000)  | -0.134 (CI = +/-0.094; p = 0.008) | -0.369 (CI = +/-0.190; p = 0.001) | 0.679                   | +5.86%             |
| Loss Cost | 2013.1     | 0.054 (CI = +/-0.024; p = 0.000)  | -0.141 (CI = +/-0.100; p = 0.009) | -0.359 (CI = +/-0.198; p = 0.002) | 0.656                   | +5.55%             |
| Loss Cost | 2013.2     | 0.051 (CI = +/-0.028; p = 0.002)  | -0.135 (CI = +/-0.106; p = 0.016) | -0.347 (CI = +/-0.209; p = 0.003) | 0.573                   | +5.22%             |
| Loss Cost | 2014.1     | 0.047 (CI = +/-0.032; p = 0.008)  | -0.142 (CI = +/-0.113; p = 0.018) | -0.335 (CI = +/-0.221; p = 0.006) | 0.553                   | +4.81%             |
| Loss Cost | 2014.2     | 0.037 (CI = +/-0.035; p = 0.039)  | -0.126 (CI = +/-0.114; p = 0.033) | -0.304 (CI = +/-0.222; p = 0.012) | 0.452                   | +3.80%             |
| Loss Cost | 2015.1     | 0.031 (CI = +/-0.041; p = 0.130)  | -0.137 (CI = +/-0.122; p = 0.032) | -0.284 (CI = +/-0.237; p = 0.023) | 0.452                   | +3.11%             |
| Loss Cost | 2015.2     | 0.023 (CI = +/-0.049; p = 0.316)  | -0.127 (CI = +/-0.132; p = 0.058) | -0.263 (CI = +/-0.256; p = 0.045) | 0.380                   | +2.34%             |
| Loss Cost | 2016.1     | 0.016 (CI = +/-0.062; p = 0.575)  | -0.137 (CI = +/-0.147; p = 0.064) | -0.244 (CI = +/-0.284; p = 0.083) | 0.383                   | +1.57%             |
| Loss Cost | 2016.2     | 0.001 (CI = +/-0.076; p = 0.964)  | -0.122 (CI = +/-0.159; p = 0.113) | -0.209 (CI = +/-0.312; p = 0.157) | 0.356                   | +0.15%             |
| Loss Cost | 2017.1     | -0.012 (CI = +/-0.101; p = 0.782) | -0.136 (CI = +/-0.184; p = 0.121) | -0.180 (CI = +/-0.364; p = 0.272) | 0.348                   | -1.19%             |
|           |            |                                   |                                   |                                   |                         |                    |
| Severity  | 2005.2     | 0.059 (CI = +/-0.006; p = 0.000)  | -0.079 (CI = +/-0.047; p = 0.002) | -0.081 (CI = +/-0.110; p = 0.143) | 0.947                   | +6.08%             |
| Severity  | 2006.1     | 0.059 (CI = +/-0.006; p = 0.000)  | -0.079 (CI = +/-0.049; p = 0.003) | -0.081 (CI = +/-0.112; p = 0.151) | 0.943                   | +6.09%             |
| Severity  | 2006.2     | 0.059 (CI = +/-0.006; p = 0.000)  | -0.079 (CI = +/-0.051; p = 0.003) | -0.081 (CI = +/-0.115; p = 0.160) | 0.936                   | +6.10%             |
| Severity  | 2007.1     | 0.060 (CI = +/-0.007; p = 0.000)  | -0.076 (CI = +/-0.052; p = 0.006) | -0.086 (CI = +/-0.117; p = 0.146) | 0.933                   | +6.18%             |
| Severity  | 2007.2     | 0.060 (CI = +/-0.007; p = 0.000)  | -0.077 (CI = +/-0.054; p = 0.007) | -0.088 (CI = +/-0.120; p = 0.145) | 0.926                   | +6.22%             |
| Severity  | 2008.1     | 0.062 (CI = +/-0.008; p = 0.000)  | -0.069 (CI = +/-0.053; p = 0.013) | -0.099 (CI = +/-0.117; p = 0.095) | 0.930                   | +6.44%             |
| Severity  | 2008.2     | 0.065 (CI = +/-0.007; p = 0.000)  | -0.080 (CI = +/-0.050; p = 0.003) | -0.114 (CI = +/-0.109; p = 0.040) | 0.940                   | +6.74%             |
| Severity  | 2009.1     | 0.068 (CI = +/-0.007; p = 0.000)  | -0.068 (CI = +/-0.045; p = 0.005) | -0.130 (CI = +/-0.097; p = 0.011) | 0.953                   | +7.08%             |
| Severity  | 2009.2     | 0.071 (CI = +/-0.007; p = 0.000)  | -0.076 (CI = +/-0.043; p = 0.002) | -0.142 (CI = +/-0.093; p = 0.004) | 0.956                   | +7.32%             |
| Severity  | 2010.1     | 0.074 (CI = +/-0.007; p = 0.000)  | -0.066 (CI = +/-0.039; p = 0.002) | -0.156 (CI = +/-0.083; p = 0.001) | 0.966                   | +7.65%             |
| Severity  | 2010.2     | 0.073 (CI = +/-0.007; p = 0.000)  | -0.062 (CI = +/-0.040; p = 0.004) | -0.151 (CI = +/-0.085; p = 0.001) | 0.960                   | +7.53%             |
| Severity  | 2011.1     | 0.074 (CI = +/-0.008; p = 0.000)  | -0.060 (CI = +/-0.042; p = 0.008) | -0.155 (CI = +/-0.088; p = 0.002) | 0.956                   | +7.63%             |
| Severity  | 2011.2     | 0.070 (CI = +/-0.008; p = 0.000)  | -0.050 (CI = +/-0.038; p = 0.013) | -0.139 (CI = +/-0.079; p = 0.002) | 0.957                   | +7.26%             |
| Severity  | 2012.1     | 0.073 (CI = +/-0.008; p = 0.000)  | -0.043 (CI = +/-0.037; p = 0.025) | -0.150 (CI = +/-0.075; p = 0.001) | 0.962                   | +7.57%             |
| Severity  | 2012.2     | 0.076 (CI = +/-0.008; p = 0.000)  | -0.050 (CI = +/-0.035; p = 0.008) | -0.162 (CI = +/-0.070; p = 0.000) | 0.965                   | +7.88%             |
| Severity  | 2013.1     | 0.078 (CI = +/-0.009; p = 0.000)  | -0.046 (CI = +/-0.036; p = 0.017) | -0.169 (CI = +/-0.072; p = 0.000) | 0.963                   | +8.07%             |
| Severity  | 2013.2     | 0.079 (CI = +/-0.010; p = 0.000)  | -0.049 (CI = +/-0.038; p = 0.015) | -0.174 (CI = +/-0.075; p = 0.000) | 0.957                   | +8.24%             |
| Severity  | 2014.1     | 0.078 (CI = +/-0.012; p = 0.000)  | -0.051 (CI = +/-0.041; p = 0.018) | -0.171 (CI = +/-0.080; p = 0.001) | 0.948                   | +8.13%             |
| Severity  | 2014.2     | 0.074 (CI = +/-0.013; p = 0.000)  | -0.045 (CI = +/-0.041; p = 0.034) | -0.159 (CI = +/-0.079; p = 0.001) | 0.936                   | +7.73%             |
| Severity  | 2015.1     | 0.074 (CI = +/-0.015; p = 0.000)  | -0.046 (CI = +/-0.045; p = 0.046) | -0.157 (CI = +/-0.087; p = 0.002) | 0.920                   | +7.66%             |
| Severity  | 2015.2     | 0.072 (CI = +/-0.018; p = 0.000)  | -0.043 (CI = +/-0.049; p = 0.077) | -0.152 (CI = +/-0.095; p = 0.006) | 0.886                   | +7.46%             |
| Severity  | 2016.1     | 0.077 (CI = +/-0.022; p = 0.000)  | -0.036 (CI = +/-0.052; p = 0.149) | -0.165 (CI = +/-0.100; p = 0.005) | 0.883                   | +8.04%             |
| Severity  | 2016.2     | 0.085 (CI = +/-0.025; p = 0.000)  | -0.044 (CI = +/-0.053; p = 0.093) | -0.183 (CI = +/-0.104; p = 0.004) | 0.876                   | +8.83%             |
| Severity  | 2017.1     | 0.096 (CI = +/-0.028; p = 0.000)  | -0.031 (CI = +/-0.051; p = 0.188) | -0.209 (CI = +/-0.101; p = 0.002) | 0.902                   | +10.11%            |
|           |            |                                   |                                   |                                   |                         |                    |
| Frequency | 2005.2     | -0.011 (CI = +/-0.009; p = 0.012) | -0.083 (CI = +/-0.072; p = 0.026) | -0.228 (CI = +/-0.167; p = 0.009) | 0.485                   | -1.11%             |
| Frequency | 2006.1     | -0.010 (CI = +/-0.009; p = 0.037) | -0.075 (CI = +/-0.073; p = 0.043) | -0.238 (CI = +/-0.167; p = 0.007) | 0.450                   | -0.95%             |
| Frequency | 2006.2     | -0.008 (CI = +/-0.009; p = 0.101) | -0.083 (CI = +/-0.073; p = 0.026) | -0.250 (CI = +/-0.166; p = 0.005) | 0.451                   | -0.76%             |
| Frequency | 2007.1     | -0.006 (CI = +/-0.010; p = 0.237) | -0.075 (CI = +/-0.073; p = 0.045) | -0.261 (CI = +/-0.165; p = 0.003) | 0.422                   | -0.57%             |
| Frequency | 2007.2     | -0.004 (CI = +/-0.010; p = 0.399) | -0.081 (CI = +/-0.075; p = 0.036) | -0.269 (CI = +/-0.167; p = 0.003) | 0.424                   | -0.43%             |
| Frequency | 2008.1     | -0.004 (CI = +/-0.011; p = 0.475) | -0.079 (CI = +/-0.078; p = 0.047) | -0.271 (CI = +/-0.172; p = 0.003) | 0.407                   | -0.39%             |
| Frequency | 2008.2     | -0.003 (CI = +/-0.012; p = 0.560) | -0.081 (CI = +/-0.081; p = 0.051) | -0.274 (CI = +/-0.178; p = 0.004) | 0.404                   | -0.35%             |
| Frequency | 2009.1     | -0.005 (CI = +/-0.013; p = 0.477) | -0.085 (CI = +/-0.084; p = 0.048) | -0.268 (CI = +/-0.182; p = 0.006) | 0.406                   | -0.46%             |
| Frequency | 2009.2     | -0.006 (CI = +/-0.014; p = 0.416) | -0.081 (CI = +/-0.088; p = 0.068) | -0.262 (CI = +/-0.188; p = 0.009) | 0.407                   | -0.57%             |
| Frequency | 2010.1     | -0.007 (CI = +/-0.016; p = 0.369) | -0.085 (CI = +/-0.092; p = 0.067) | -0.257 (CI = +/-0.194; p = 0.012) | 0.405                   | -0.69%             |
| Frequency | 2010.2     | -0.009 (CI = +/-0.017; p = 0.269) | -0.078 (CI = +/-0.095; p = 0.101) | -0.245 (CI = +/-0.199; p = 0.018) | 0.416                   | -0.93%             |
| Frequency | 2011.1     | -0.010 (CI = +/-0.019; p = 0.274) | -0.081 (CI = +/-0.100; p = 0.107) | -0.241 (CI = +/-0.207; p = 0.025) | 0.404                   | -1.02%             |
| Frequency | 2011.2     | -0.010 (CI = +/-0.021; p = 0.339) | -0.082 (CI = +/-0.105; p = 0.121) | -0.243 (CI = +/-0.217; p = 0.030) | 0.396                   | -0.98%             |
| Frequency | 2012.1     | -0.015 (CI = +/-0.023; p = 0.196) | -0.094 (CI = +/-0.108; p = 0.083) | -0.224 (CI = +/-0.219; p = 0.046) | 0.433                   | -1.46%             |
| Frequency | 2012.2     | -0.019 (CI = +/-0.025; p = 0.134) | -0.084 (CI = +/-0.112; p = 0.130) | -0.207 (CI = +/-0.225; p = 0.069) | 0.454                   | -1.88%             |
| Frequency | 2013.1     | -0.024 (CI = +/-0.029; p = 0.097) | -0.095 (CI = +/-0.117; p = 0.104) | -0.190 (CI = +/-0.233; p = 0.102) | 0.468                   | -2.34%             |
| Frequency | 2013.2     | -0.028 (CI = +/-0.032; p = 0.080) | -0.085 (CI = +/-0.123; p = 0.158) | -0.173 (CI = +/-0.244; p = 0.149) | 0.483                   | -2.80%             |
| Frequency | 2014.1     | -0.031 (CI = +/-0.038; p = 0.096) | -0.091 (CI = +/-0.133; p = 0.161) | -0.164 (CI = +/-0.260; p = 0.195) | 0.455                   | -3.08%             |
| Frequency | 2014.2     | -0.037 (CI = +/-0.044; p = 0.088) | -0.081 (CI = +/-0.142; p = 0.234) | -0.145 (CI = +/-0.277; p = 0.274) | 0.464                   | -3.64%             |
| Frequency | 2015.1     | -0.043 (CI = +/-0.052; p = 0.095) | -0.091 (CI = +/-0.154; p = 0.217) | -0.127 (CI = +/-0.299; p = 0.364) | 0.441                   | -4.22%             |
| Frequency | 2015.2     | -0.049 (CI = +/-0.063; p = 0.115) | -0.083 (CI = +/-0.169; p = 0.294) | -0.111 (CI = +/-0.328; p = 0.463) | 0.430                   | -4.77%             |
| Frequency | 2016.1     | -0.062 (CI = +/-0.078; p = 0.105) | -0.101 (CI = +/-0.186; p = 0.245) | -0.079 (CI = +/-0.359; p = 0.627) | 0.422                   | -5.99%             |
| Frequency | 2016.2     | -0.083 (CI = +/-0.094; p = 0.074) | -0.078 (CI = +/-0.197; p = 0.378) | -0.026 (CI = +/-0.387; p = 0.878) | 0.477                   | -7.98%             |
| Frequency | 2017.1     | -0.108 (CI = +/-0.121; p = 0.072) | -0.105 (CI = +/-0.221; p = 0.288) | 0.029 (CI = +/-0.436; p = 0.875)  | 0.471                   | -10.27%            |

**Bodily Injury**

Coverage = BI

End Trend Period = 2022.1

Excluded Points = NA

Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R <sup>2</sup> | Implied Trend |
|-----------|------------|-----------------------------------|-----------------------------------|-------------------------|---------------|
|           |            |                                   |                                   |                         | Rate          |
| Loss Cost | 2005.2     | 0.037 (CI = +/-0.010; p = 0.000)  | -0.176 (CI = +/-0.094; p = 0.001) | 0.686                   | +3.78%        |
| Loss Cost | 2006.1     | 0.038 (CI = +/-0.010; p = 0.000)  | -0.173 (CI = +/-0.097; p = 0.001) | 0.683                   | +3.84%        |
| Loss Cost | 2006.2     | 0.039 (CI = +/-0.011; p = 0.000)  | -0.178 (CI = +/-0.100; p = 0.001) | 0.668                   | +3.94%        |
| Loss Cost | 2007.1     | 0.040 (CI = +/-0.011; p = 0.000)  | -0.172 (CI = +/-0.102; p = 0.002) | 0.670                   | +4.06%        |
| Loss Cost | 2007.2     | 0.040 (CI = +/-0.012; p = 0.000)  | -0.175 (CI = +/-0.106; p = 0.002) | 0.647                   | +4.13%        |
| Loss Cost | 2008.1     | 0.041 (CI = +/-0.013; p = 0.000)  | -0.172 (CI = +/-0.109; p = 0.003) | 0.641                   | +4.19%        |
| Loss Cost | 2008.2     | 0.043 (CI = +/-0.014; p = 0.000)  | -0.179 (CI = +/-0.113; p = 0.003) | 0.628                   | +4.35%        |
| Loss Cost | 2009.1     | 0.043 (CI = +/-0.015; p = 0.000)  | -0.179 (CI = +/-0.117; p = 0.004) | 0.617                   | +4.35%        |
| Loss Cost | 2009.2     | 0.042 (CI = +/-0.016; p = 0.000)  | -0.177 (CI = +/-0.123; p = 0.007) | 0.571                   | +4.30%        |
| Loss Cost | 2010.1     | 0.041 (CI = +/-0.018; p = 0.000)  | -0.179 (CI = +/-0.128; p = 0.008) | 0.556                   | +4.23%        |
| Loss Cost | 2010.2     | 0.037 (CI = +/-0.019; p = 0.000)  | -0.161 (CI = +/-0.128; p = 0.016) | 0.474                   | +3.78%        |
| Loss Cost | 2011.1     | 0.035 (CI = +/-0.020; p = 0.002)  | -0.170 (CI = +/-0.133; p = 0.014) | 0.454                   | +3.53%        |
| Loss Cost | 2011.2     | 0.030 (CI = +/-0.021; p = 0.008)  | -0.154 (CI = +/-0.135; p = 0.028) | 0.355                   | +3.08%        |
| Loss Cost | 2012.1     | 0.026 (CI = +/-0.023; p = 0.027)  | -0.168 (CI = +/-0.138; p = 0.019) | 0.343                   | +2.64%        |
| Loss Cost | 2012.2     | 0.023 (CI = +/-0.025; p = 0.073)  | -0.156 (CI = +/-0.143; p = 0.035) | 0.247                   | +2.28%        |
| Loss Cost | 2013.1     | 0.017 (CI = +/-0.027; p = 0.194)  | -0.173 (CI = +/-0.146; p = 0.023) | 0.257                   | +1.71%        |
| Loss Cost | 2013.2     | 0.012 (CI = +/-0.029; p = 0.410)  | -0.156 (CI = +/-0.151; p = 0.043) | 0.162                   | +1.16%        |
| Loss Cost | 2014.1     | 0.005 (CI = +/-0.031; p = 0.755)  | -0.176 (CI = +/-0.153; p = 0.027) | 0.207                   | +0.46%        |
| Loss Cost | 2014.2     | -0.006 (CI = +/-0.033; p = 0.718) | -0.147 (CI = +/-0.151; p = 0.056) | 0.155                   | -0.56%        |
| Loss Cost | 2015.1     | -0.015 (CI = +/-0.035; p = 0.374) | -0.170 (CI = +/-0.152; p = 0.031) | 0.256                   | -1.47%        |
| Loss Cost | 2015.2     | -0.024 (CI = +/-0.039; p = 0.196) | -0.146 (CI = +/-0.157; p = 0.064) | 0.275                   | -2.40%        |
| Loss Cost | 2016.1     | -0.035 (CI = +/-0.042; p = 0.096) | -0.169 (CI = +/-0.159; p = 0.039) | 0.369                   | -3.43%        |
| Loss Cost | 2016.2     | -0.049 (CI = +/-0.047; p = 0.044) | -0.140 (CI = +/-0.162; p = 0.083) | 0.444                   | -4.74%        |
| Loss Cost | 2017.1     | -0.062 (CI = +/-0.052; p = 0.024) | -0.165 (CI = +/-0.165; p = 0.050) | 0.523                   | -6.05%        |
|           |            |                                   |                                   |                         |               |
| Severity  | 2005.2     | 0.057 (CI = +/-0.005; p = 0.000)  | -0.081 (CI = +/-0.047; p = 0.001) | 0.947                   | +5.82%        |
| Severity  | 2006.1     | 0.056 (CI = +/-0.005; p = 0.000)  | -0.082 (CI = +/-0.048; p = 0.002) | 0.942                   | +5.81%        |
| Severity  | 2006.2     | 0.056 (CI = +/-0.005; p = 0.000)  | -0.081 (CI = +/-0.050; p = 0.003) | 0.936                   | +5.80%        |
| Severity  | 2007.1     | 0.057 (CI = +/-0.006; p = 0.000)  | -0.079 (CI = +/-0.052; p = 0.004) | 0.932                   | +5.84%        |
| Severity  | 2007.2     | 0.057 (CI = +/-0.006; p = 0.000)  | -0.079 (CI = +/-0.054; p = 0.005) | 0.925                   | +5.85%        |
| Severity  | 2008.1     | 0.058 (CI = +/-0.006; p = 0.000)  | -0.073 (CI = +/-0.054; p = 0.010) | 0.926                   | +5.99%        |
| Severity  | 2008.2     | 0.060 (CI = +/-0.006; p = 0.000)  | -0.083 (CI = +/-0.052; p = 0.003) | 0.931                   | +6.19%        |
| Severity  | 2009.1     | 0.062 (CI = +/-0.006; p = 0.000)  | -0.074 (CI = +/-0.051; p = 0.006) | 0.938                   | +6.40%        |
| Severity  | 2009.2     | 0.063 (CI = +/-0.007; p = 0.000)  | -0.080 (CI = +/-0.051; p = 0.004) | 0.936                   | +6.54%        |
| Severity  | 2010.1     | 0.065 (CI = +/-0.007; p = 0.000)  | -0.073 (CI = +/-0.051; p = 0.007) | 0.938                   | +6.71%        |
| Severity  | 2010.2     | 0.063 (CI = +/-0.008; p = 0.000)  | -0.067 (CI = +/-0.052; p = 0.014) | 0.930                   | +6.55%        |
| Severity  | 2011.1     | 0.063 (CI = +/-0.008; p = 0.000)  | -0.068 (CI = +/-0.055; p = 0.018) | 0.922                   | +6.53%        |
| Severity  | 2011.2     | 0.060 (CI = +/-0.008; p = 0.000)  | -0.055 (CI = +/-0.051; p = 0.034) | 0.921                   | +6.19%        |
| Severity  | 2012.1     | 0.061 (CI = +/-0.009; p = 0.000)  | -0.052 (CI = +/-0.053; p = 0.053) | 0.915                   | +6.28%        |
| Severity  | 2012.2     | 0.062 (CI = +/-0.010; p = 0.000)  | -0.056 (CI = +/-0.056; p = 0.050) | 0.905                   | +6.39%        |
| Severity  | 2013.1     | 0.062 (CI = +/-0.011; p = 0.000)  | -0.057 (CI = +/-0.059; p = 0.058) | 0.892                   | +6.35%        |
| Severity  | 2013.2     | 0.061 (CI = +/-0.012; p = 0.000)  | -0.056 (CI = +/-0.063; p = 0.081) | 0.869                   | +6.30%        |
| Severity  | 2014.1     | 0.058 (CI = +/-0.013; p = 0.000)  | -0.063 (CI = +/-0.065; p = 0.055) | 0.853                   | +6.02%        |
| Severity  | 2014.2     | 0.054 (CI = +/-0.014; p = 0.000)  | -0.051 (CI = +/-0.064; p = 0.110) | 0.823                   | +5.55%        |
| Severity  | 2015.1     | 0.051 (CI = +/-0.015; p = 0.000)  | -0.058 (CI = +/-0.066; p = 0.081) | 0.797                   | +5.24%        |
| Severity  | 2015.2     | 0.047 (CI = +/-0.017; p = 0.000)  | -0.049 (CI = +/-0.069; p = 0.150) | 0.733                   | +4.85%        |
| Severity  | 2016.1     | 0.046 (CI = +/-0.020; p = 0.000)  | -0.051 (CI = +/-0.075; p = 0.166) | 0.690                   | +4.75%        |
| Severity  | 2016.2     | 0.046 (CI = +/-0.025; p = 0.002)  | -0.050 (CI = +/-0.085; p = 0.218) | 0.599                   | +4.70%        |
| Severity  | 2017.1     | 0.044 (CI = +/-0.030; p = 0.009)  | -0.052 (CI = +/-0.095; p = 0.237) | 0.533                   | +4.53%        |
|           |            |                                   |                                   |                         |               |
| Frequency | 2005.2     | -0.019 (CI = +/-0.009; p = 0.000) | -0.095 (CI = +/-0.084; p = 0.028) | 0.440                   | -1.93%        |
| Frequency | 2006.1     | -0.019 (CI = +/-0.009; p = 0.000) | -0.091 (CI = +/-0.086; p = 0.040) | 0.390                   | -1.86%        |
| Frequency | 2006.2     | -0.018 (CI = +/-0.010; p = 0.001) | -0.097 (CI = +/-0.089; p = 0.034) | 0.370                   | -1.76%        |
| Frequency | 2007.1     | -0.017 (CI = +/-0.010; p = 0.002) | -0.093 (CI = +/-0.091; p = 0.047) | 0.317                   | -1.68%        |
| Frequency | 2007.2     | -0.016 (CI = +/-0.011; p = 0.005) | -0.095 (CI = +/-0.095; p = 0.049) | 0.303                   | -1.63%        |
| Frequency | 2008.1     | -0.017 (CI = +/-0.012; p = 0.006) | -0.098 (CI = +/-0.098; p = 0.049) | 0.287                   | -1.70%        |
| Frequency | 2008.2     | -0.018 (CI = +/-0.013; p = 0.008) | -0.096 (CI = +/-0.102; p = 0.063) | 0.284                   | -1.74%        |
| Frequency | 2009.1     | -0.019 (CI = +/-0.013; p = 0.006) | -0.105 (CI = +/-0.104; p = 0.048) | 0.305                   | -1.93%        |
| Frequency | 2009.2     | -0.021 (CI = +/-0.014; p = 0.005) | -0.097 (CI = +/-0.107; p = 0.075) | 0.320                   | -2.10%        |
| Frequency | 2010.1     | -0.023 (CI = +/-0.015; p = 0.004) | -0.106 (CI = +/-0.110; p = 0.058) | 0.337                   | -2.32%        |
| Frequency | 2010.2     | -0.026 (CI = +/-0.016; p = 0.003) | -0.094 (CI = +/-0.112; p = 0.097) | 0.367                   | -2.60%        |
| Frequency | 2011.1     | -0.029 (CI = +/-0.017; p = 0.003) | -0.102 (CI = +/-0.116; p = 0.081) | 0.371                   | -2.81%        |
| Frequency | 2011.2     | -0.030 (CI = +/-0.019; p = 0.004) | -0.098 (CI = +/-0.122; p = 0.109) | 0.367                   | -2.92%        |
| Frequency | 2012.1     | -0.035 (CI = +/-0.020; p = 0.002) | -0.116 (CI = +/-0.121; p = 0.059) | 0.436                   | -3.42%        |
| Frequency | 2012.2     | -0.039 (CI = +/-0.021; p = 0.001) | -0.100 (CI = +/-0.123; p = 0.106) | 0.476                   | -3.86%        |
| Frequency | 2013.1     | -0.045 (CI = +/-0.023; p = 0.001) | -0.116 (CI = +/-0.124; p = 0.065) | 0.517                   | -4.36%        |
| Frequency | 2013.2     | -0.050 (CI = +/-0.025; p = 0.001) | -0.101 (CI = +/-0.128; p = 0.115) | 0.548                   | -4.83%        |
| Frequency | 2014.1     | -0.054 (CI = +/-0.027; p = 0.001) | -0.113 (CI = +/-0.134; p = 0.092) | 0.546                   | -5.24%        |
| Frequency | 2014.2     | -0.060 (CI = +/-0.030; p = 0.001) | -0.096 (CI = +/-0.139; p = 0.159) | 0.572                   | -5.79%        |
| Frequency | 2015.1     | -0.066 (CI = +/-0.033; p = 0.001) | -0.112 (CI = +/-0.144; p = 0.117) | 0.581                   | -6.38%        |
| Frequency | 2015.2     | -0.072 (CI = +/-0.038; p = 0.002) | -0.098 (CI = +/-0.155; p = 0.192) | 0.588                   | -6.92%        |
| Frequency | 2016.1     | -0.081 (CI = +/-0.042; p = 0.002) | -0.119 (CI = +/-0.159; p = 0.128) | 0.613                   | -7.81%        |
| Frequency | 2016.2     | -0.095 (CI = +/-0.047; p = 0.001) | -0.090 (CI = +/-0.164; p = 0.245) | 0.666                   | -9.02%        |
| Frequency | 2017.1     | -0.107 (CI = +/-0.054; p = 0.002) | -0.112 (CI = +/-0.171; p = 0.168) | 0.680                   | -10.12%       |

**Bodily Injury**

Coverage = BI

End Trend Period = 2021.2

Excluded Points = NA

Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R <sup>2</sup> | Implied Trend |
|-----------|------------|-----------------------------------|-----------------------------------|-------------------------|---------------|
|           |            |                                   |                                   |                         | Rate          |
| Loss Cost | 2005.2     | 0.041 (CI = +/-0.009; p = 0.000)  | -0.157 (CI = +/-0.087; p = 0.001) | 0.744                   | +4.14%        |
| Loss Cost | 2006.1     | 0.042 (CI = +/-0.010; p = 0.000)  | -0.151 (CI = +/-0.090; p = 0.002) | 0.744                   | +4.24%        |
| Loss Cost | 2006.2     | 0.043 (CI = +/-0.010; p = 0.000)  | -0.157 (CI = +/-0.092; p = 0.002) | 0.734                   | +4.36%        |
| Loss Cost | 2007.1     | 0.044 (CI = +/-0.011; p = 0.000)  | -0.148 (CI = +/-0.093; p = 0.003) | 0.741                   | +4.54%        |
| Loss Cost | 2007.2     | 0.045 (CI = +/-0.012; p = 0.000)  | -0.152 (CI = +/-0.097; p = 0.003) | 0.723                   | +4.62%        |
| Loss Cost | 2008.1     | 0.046 (CI = +/-0.012; p = 0.000)  | -0.146 (CI = +/-0.100; p = 0.006) | 0.723                   | +4.75%        |
| Loss Cost | 2008.2     | 0.048 (CI = +/-0.013; p = 0.000)  | -0.154 (CI = +/-0.102; p = 0.005) | 0.715                   | +4.94%        |
| Loss Cost | 2009.1     | 0.049 (CI = +/-0.014; p = 0.000)  | -0.150 (CI = +/-0.106; p = 0.008) | 0.707                   | +5.01%        |
| Loss Cost | 2009.2     | 0.049 (CI = +/-0.015; p = 0.000)  | -0.149 (CI = +/-0.111; p = 0.011) | 0.670                   | +4.98%        |
| Loss Cost | 2010.1     | 0.049 (CI = +/-0.017; p = 0.000)  | -0.149 (CI = +/-0.117; p = 0.015) | 0.656                   | +5.00%        |
| Loss Cost | 2010.2     | 0.045 (CI = +/-0.017; p = 0.000)  | -0.133 (CI = +/-0.116; p = 0.027) | 0.593                   | +4.56%        |
| Loss Cost | 2011.1     | 0.043 (CI = +/-0.019; p = 0.000)  | -0.139 (CI = +/-0.122; p = 0.027) | 0.569                   | +4.39%        |
| Loss Cost | 2011.2     | 0.039 (CI = +/-0.020; p = 0.001)  | -0.124 (CI = +/-0.123; p = 0.048) | 0.482                   | +3.95%        |
| Loss Cost | 2012.1     | 0.035 (CI = +/-0.022; p = 0.004)  | -0.137 (CI = +/-0.128; p = 0.037) | 0.454                   | +3.58%        |
| Loss Cost | 2012.2     | 0.032 (CI = +/-0.024; p = 0.013)  | -0.126 (CI = +/-0.133; p = 0.061) | 0.354                   | +3.24%        |
| Loss Cost | 2013.1     | 0.027 (CI = +/-0.027; p = 0.046)  | -0.141 (CI = +/-0.138; p = 0.045) | 0.334                   | +2.75%        |
| Loss Cost | 2013.2     | 0.022 (CI = +/-0.029; p = 0.127)  | -0.127 (CI = +/-0.143; p = 0.077) | 0.211                   | +2.22%        |
| Loss Cost | 2014.1     | 0.016 (CI = +/-0.032; p = 0.310)  | -0.144 (CI = +/-0.149; p = 0.056) | 0.213                   | +1.59%        |
| Loss Cost | 2014.2     | 0.006 (CI = +/-0.034; p = 0.724)  | -0.119 (CI = +/-0.146; p = 0.100) | 0.085                   | +0.56%        |
| Loss Cost | 2015.1     | -0.003 (CI = +/-0.037; p = 0.856) | -0.141 (CI = +/-0.151; p = 0.065) | 0.145                   | -0.32%        |
| Loss Cost | 2015.2     | -0.012 (CI = +/-0.041; p = 0.519) | -0.121 (CI = +/-0.156; p = 0.115) | 0.106                   | -1.24%        |
| Loss Cost | 2016.1     | -0.023 (CI = +/-0.048; p = 0.313) | -0.143 (CI = +/-0.166; p = 0.083) | 0.181                   | -2.24%        |
| Loss Cost | 2016.2     | -0.036 (CI = +/-0.053; p = 0.153) | -0.117 (CI = +/-0.169; p = 0.148) | 0.234                   | -3.58%        |
| Loss Cost | 2017.1     | -0.051 (CI = +/-0.064; p = 0.101) | -0.144 (CI = +/-0.183; p = 0.106) | 0.305                   | -4.96%        |
|           |            |                                   |                                   |                         |               |
| Severity  | 2005.2     | 0.057 (CI = +/-0.005; p = 0.000)  | -0.078 (CI = +/-0.048; p = 0.002) | 0.945                   | +5.88%        |
| Severity  | 2006.1     | 0.057 (CI = +/-0.005; p = 0.000)  | -0.078 (CI = +/-0.050; p = 0.003) | 0.940                   | +5.87%        |
| Severity  | 2006.2     | 0.057 (CI = +/-0.006; p = 0.000)  | -0.078 (CI = +/-0.051; p = 0.004) | 0.933                   | +5.86%        |
| Severity  | 2007.1     | 0.057 (CI = +/-0.006; p = 0.000)  | -0.075 (CI = +/-0.053; p = 0.007) | 0.930                   | +5.92%        |
| Severity  | 2007.2     | 0.058 (CI = +/-0.007; p = 0.000)  | -0.076 (CI = +/-0.055; p = 0.009) | 0.922                   | +5.93%        |
| Severity  | 2008.1     | 0.059 (CI = +/-0.007; p = 0.000)  | -0.069 (CI = +/-0.055; p = 0.017) | 0.925                   | +6.09%        |
| Severity  | 2008.2     | 0.061 (CI = +/-0.007; p = 0.000)  | -0.078 (CI = +/-0.053; p = 0.006) | 0.930                   | +6.31%        |
| Severity  | 2009.1     | 0.063 (CI = +/-0.007; p = 0.000)  | -0.067 (CI = +/-0.051; p = 0.012) | 0.939                   | +6.56%        |
| Severity  | 2009.2     | 0.065 (CI = +/-0.007; p = 0.000)  | -0.073 (CI = +/-0.051; p = 0.007) | 0.938                   | +6.71%        |
| Severity  | 2010.1     | 0.067 (CI = +/-0.007; p = 0.000)  | -0.065 (CI = +/-0.051; p = 0.015) | 0.942                   | +6.92%        |
| Severity  | 2010.2     | 0.065 (CI = +/-0.008; p = 0.000)  | -0.059 (CI = +/-0.052; p = 0.026) | 0.934                   | +6.77%        |
| Severity  | 2011.1     | 0.066 (CI = +/-0.009; p = 0.000)  | -0.059 (CI = +/-0.054; p = 0.035) | 0.927                   | +6.78%        |
| Severity  | 2011.2     | 0.062 (CI = +/-0.008; p = 0.000)  | -0.048 (CI = +/-0.050; p = 0.061) | 0.927                   | +6.43%        |
| Severity  | 2012.1     | 0.064 (CI = +/-0.009; p = 0.000)  | -0.043 (CI = +/-0.052; p = 0.102) | 0.923                   | +6.57%        |
| Severity  | 2012.2     | 0.065 (CI = +/-0.010; p = 0.000)  | -0.047 (CI = +/-0.054; p = 0.089) | 0.915                   | +6.70%        |
| Severity  | 2013.1     | 0.065 (CI = +/-0.011; p = 0.000)  | -0.046 (CI = +/-0.058; p = 0.112) | 0.903                   | +6.72%        |
| Severity  | 2013.2     | 0.065 (CI = +/-0.013; p = 0.000)  | -0.045 (CI = +/-0.062; p = 0.141) | 0.883                   | +6.69%        |
| Severity  | 2014.1     | 0.062 (CI = +/-0.014; p = 0.000)  | -0.052 (CI = +/-0.065; p = 0.108) | 0.865                   | +6.43%        |
| Severity  | 2014.2     | 0.058 (CI = +/-0.015; p = 0.000)  | -0.041 (CI = +/-0.064; p = 0.188) | 0.838                   | +5.95%        |
| Severity  | 2015.1     | 0.055 (CI = +/-0.017; p = 0.000)  | -0.048 (CI = +/-0.068; p = 0.153) | 0.809                   | +5.67%        |
| Severity  | 2015.2     | 0.051 (CI = +/-0.019; p = 0.000)  | -0.040 (CI = +/-0.072; p = 0.245) | 0.748                   | +5.28%        |
| Severity  | 2016.1     | 0.051 (CI = +/-0.023; p = 0.001)  | -0.040 (CI = +/-0.080; p = 0.292) | 0.707                   | +5.28%        |
| Severity  | 2016.2     | 0.051 (CI = +/-0.028; p = 0.003)  | -0.040 (CI = +/-0.090; p = 0.340) | 0.622                   | +5.27%        |
| Severity  | 2017.1     | 0.051 (CI = +/-0.036; p = 0.013)  | -0.040 (CI = +/-0.105; p = 0.397) | 0.556                   | +5.25%        |
|           |            |                                   |                                   |                         |               |
| Frequency | 2005.2     | -0.017 (CI = +/-0.008; p = 0.000) | -0.079 (CI = +/-0.079; p = 0.051) | 0.369                   | -1.65%        |
| Frequency | 2006.1     | -0.016 (CI = +/-0.009; p = 0.001) | -0.073 (CI = +/-0.081; p = 0.076) | 0.308                   | -1.54%        |
| Frequency | 2006.2     | -0.014 (CI = +/-0.009; p = 0.004) | -0.079 (CI = +/-0.083; p = 0.060) | 0.284                   | -1.42%        |
| Frequency | 2007.1     | -0.013 (CI = +/-0.010; p = 0.011) | -0.073 (CI = +/-0.085; p = 0.089) | 0.219                   | -1.30%        |
| Frequency | 2007.2     | -0.012 (CI = +/-0.010; p = 0.021) | -0.076 (CI = +/-0.088; p = 0.087) | 0.204                   | -1.24%        |
| Frequency | 2008.1     | -0.013 (CI = +/-0.011; p = 0.029) | -0.077 (CI = +/-0.091; p = 0.094) | 0.180                   | -1.27%        |
| Frequency | 2008.2     | -0.013 (CI = +/-0.012; p = 0.038) | -0.076 (CI = +/-0.095; p = 0.112) | 0.176                   | -1.29%        |
| Frequency | 2009.1     | -0.015 (CI = +/-0.013; p = 0.030) | -0.083 (CI = +/-0.098; p = 0.092) | 0.192                   | -1.45%        |
| Frequency | 2009.2     | -0.016 (CI = +/-0.014; p = 0.024) | -0.076 (CI = +/-0.101; p = 0.132) | 0.207                   | -1.62%        |
| Frequency | 2010.1     | -0.018 (CI = +/-0.015; p = 0.021) | -0.084 (CI = +/-0.105; p = 0.111) | 0.218                   | -1.80%        |
| Frequency | 2010.2     | -0.021 (CI = +/-0.016; p = 0.014) | -0.073 (CI = +/-0.107; p = 0.169) | 0.251                   | -2.07%        |
| Frequency | 2011.1     | -0.023 (CI = +/-0.018; p = 0.015) | -0.080 (CI = +/-0.112; p = 0.152) | 0.246                   | -2.24%        |
| Frequency | 2011.2     | -0.024 (CI = +/-0.019; p = 0.020) | -0.077 (CI = +/-0.118; p = 0.188) | 0.241                   | -2.33%        |
| Frequency | 2012.1     | -0.028 (CI = +/-0.021; p = 0.010) | -0.094 (CI = +/-0.119; p = 0.113) | 0.310                   | -2.81%        |
| Frequency | 2012.2     | -0.033 (CI = +/-0.022; p = 0.006) | -0.080 (CI = +/-0.121; p = 0.181) | 0.358                   | -3.24%        |
| Frequency | 2013.1     | -0.038 (CI = +/-0.024; p = 0.004) | -0.095 (CI = +/-0.124; p = 0.123) | 0.395                   | -3.72%        |
| Frequency | 2013.2     | -0.043 (CI = +/-0.026; p = 0.003) | -0.082 (CI = +/-0.128; p = 0.194) | 0.433                   | -4.19%        |
| Frequency | 2014.1     | -0.047 (CI = +/-0.030; p = 0.005) | -0.092 (CI = +/-0.136; p = 0.168) | 0.418                   | -4.54%        |
| Frequency | 2014.2     | -0.052 (CI = +/-0.033; p = 0.005) | -0.078 (CI = +/-0.142; p = 0.256) | 0.450                   | -5.09%        |
| Frequency | 2015.1     | -0.058 (CI = +/-0.038; p = 0.006) | -0.093 (CI = +/-0.152; p = 0.205) | 0.446                   | -5.66%        |
| Frequency | 2015.2     | -0.064 (CI = +/-0.043; p = 0.008) | -0.081 (CI = +/-0.163; p = 0.295) | 0.454                   | -6.19%        |
| Frequency | 2016.1     | -0.074 (CI = +/-0.051; p = 0.009) | -0.103 (CI = +/-0.174; p = 0.214) | 0.470                   | -7.14%        |
| Frequency | 2016.2     | -0.088 (CI = +/-0.057; p = 0.007) | -0.078 (CI = +/-0.180; p = 0.348) | 0.540                   | -8.41%        |
| Frequency | 2017.1     | -0.102 (CI = +/-0.069; p = 0.010) | -0.104 (CI = +/-0.197; p = 0.253) | 0.545                   | -9.70%        |

**Bodily Injury**

Coverage = BI

End Trend Period = 2021.1

Excluded Points = NA

Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R <sup>2</sup> | Implied Trend |
|-----------|------------|-----------------------------------|-----------------------------------|-------------------------|---------------|
|           |            |                                   |                                   |                         | Rate          |
| Loss Cost | 2005.2     | 0.043 (CI = +/-0.009; p = 0.000)  | -0.168 (CI = +/-0.087; p = 0.000) | 0.755                   | +4.36%        |
| Loss Cost | 2006.1     | 0.044 (CI = +/-0.010; p = 0.000)  | -0.163 (CI = +/-0.089; p = 0.001) | 0.756                   | +4.47%        |
| Loss Cost | 2006.2     | 0.045 (CI = +/-0.011; p = 0.000)  | -0.170 (CI = +/-0.091; p = 0.001) | 0.749                   | +4.62%        |
| Loss Cost | 2007.1     | 0.047 (CI = +/-0.011; p = 0.000)  | -0.161 (CI = +/-0.092; p = 0.001) | 0.759                   | +4.82%        |
| Loss Cost | 2007.2     | 0.048 (CI = +/-0.012; p = 0.000)  | -0.167 (CI = +/-0.095; p = 0.001) | 0.744                   | +4.94%        |
| Loss Cost | 2008.1     | 0.050 (CI = +/-0.013; p = 0.000)  | -0.160 (CI = +/-0.098; p = 0.002) | 0.745                   | +5.09%        |
| Loss Cost | 2008.2     | 0.052 (CI = +/-0.013; p = 0.000)  | -0.171 (CI = +/-0.100; p = 0.002) | 0.744                   | +5.34%        |
| Loss Cost | 2009.1     | 0.053 (CI = +/-0.014; p = 0.000)  | -0.167 (CI = +/-0.104; p = 0.003) | 0.738                   | +5.44%        |
| Loss Cost | 2009.2     | 0.053 (CI = +/-0.016; p = 0.000)  | -0.169 (CI = +/-0.109; p = 0.004) | 0.705                   | +5.47%        |
| Loss Cost | 2010.1     | 0.054 (CI = +/-0.017; p = 0.000)  | -0.167 (CI = +/-0.114; p = 0.006) | 0.693                   | +5.51%        |
| Loss Cost | 2010.2     | 0.049 (CI = +/-0.018; p = 0.000)  | -0.151 (CI = +/-0.115; p = 0.013) | 0.631                   | +5.07%        |
| Loss Cost | 2011.1     | 0.048 (CI = +/-0.020; p = 0.000)  | -0.157 (CI = +/-0.121; p = 0.014) | 0.609                   | +4.92%        |
| Loss Cost | 2011.2     | 0.044 (CI = +/-0.022; p = 0.000)  | -0.142 (CI = +/-0.124; p = 0.027) | 0.522                   | +4.49%        |
| Loss Cost | 2012.1     | 0.040 (CI = +/-0.023; p = 0.002)  | -0.153 (CI = +/-0.129; p = 0.023) | 0.496                   | +4.13%        |
| Loss Cost | 2012.2     | 0.038 (CI = +/-0.026; p = 0.008)  | -0.144 (CI = +/-0.136; p = 0.040) | 0.397                   | +3.83%        |
| Loss Cost | 2013.1     | 0.033 (CI = +/-0.029; p = 0.028)  | -0.158 (CI = +/-0.141; p = 0.031) | 0.377                   | +3.34%        |
| Loss Cost | 2013.2     | 0.028 (CI = +/-0.032; p = 0.087)  | -0.143 (CI = +/-0.149; p = 0.059) | 0.249                   | +2.82%        |
| Loss Cost | 2014.1     | 0.022 (CI = +/-0.036; p = 0.216)  | -0.159 (CI = +/-0.156; p = 0.046) | 0.248                   | +2.18%        |
| Loss Cost | 2014.2     | 0.010 (CI = +/-0.039; p = 0.574)  | -0.131 (CI = +/-0.157; p = 0.095) | 0.101                   | +1.03%        |
| Loss Cost | 2015.1     | 0.001 (CI = +/-0.044; p = 0.951)  | -0.150 (CI = +/-0.163; p = 0.068) | 0.155                   | +0.12%        |
| Loss Cost | 2015.2     | -0.010 (CI = +/-0.050; p = 0.679) | -0.127 (CI = +/-0.174; p = 0.133) | 0.097                   | -0.95%        |
| Loss Cost | 2016.1     | -0.020 (CI = +/-0.058; p = 0.443) | -0.147 (CI = +/-0.185; p = 0.105) | 0.166                   | -2.02%        |
| Loss Cost | 2016.2     | -0.039 (CI = +/-0.068; p = 0.224) | -0.114 (CI = +/-0.196; p = 0.213) | 0.212                   | -3.78%        |
| Loss Cost | 2017.1     | -0.055 (CI = +/-0.082; p = 0.153) | -0.138 (CI = +/-0.213; p = 0.164) | 0.285                   | -5.33%        |
|           |            |                                   |                                   |                         |               |
| Severity  | 2005.2     | 0.059 (CI = +/-0.005; p = 0.000)  | -0.087 (CI = +/-0.046; p = 0.001) | 0.949                   | +6.05%        |
| Severity  | 2006.1     | 0.059 (CI = +/-0.005; p = 0.000)  | -0.087 (CI = +/-0.048; p = 0.001) | 0.945                   | +6.05%        |
| Severity  | 2006.2     | 0.059 (CI = +/-0.006; p = 0.000)  | -0.087 (CI = +/-0.050; p = 0.001) | 0.939                   | +6.05%        |
| Severity  | 2007.1     | 0.059 (CI = +/-0.006; p = 0.000)  | -0.084 (CI = +/-0.051; p = 0.002) | 0.936                   | +6.12%        |
| Severity  | 2007.2     | 0.060 (CI = +/-0.007; p = 0.000)  | -0.086 (CI = +/-0.053; p = 0.003) | 0.929                   | +6.16%        |
| Severity  | 2008.1     | 0.061 (CI = +/-0.007; p = 0.000)  | -0.079 (CI = +/-0.052; p = 0.005) | 0.933                   | +6.33%        |
| Severity  | 2008.2     | 0.064 (CI = +/-0.006; p = 0.000)  | -0.090 (CI = +/-0.049; p = 0.001) | 0.944                   | +6.61%        |
| Severity  | 2009.1     | 0.066 (CI = +/-0.006; p = 0.000)  | -0.080 (CI = +/-0.045; p = 0.001) | 0.955                   | +6.87%        |
| Severity  | 2009.2     | 0.069 (CI = +/-0.006; p = 0.000)  | -0.088 (CI = +/-0.043; p = 0.000) | 0.959                   | +7.09%        |
| Severity  | 2010.1     | 0.071 (CI = +/-0.006; p = 0.000)  | -0.080 (CI = +/-0.040; p = 0.001) | 0.965                   | +7.33%        |
| Severity  | 2010.2     | 0.070 (CI = +/-0.007; p = 0.000)  | -0.076 (CI = +/-0.041; p = 0.001) | 0.960                   | +7.22%        |
| Severity  | 2011.1     | 0.070 (CI = +/-0.007; p = 0.000)  | -0.075 (CI = +/-0.044; p = 0.002) | 0.955                   | +7.25%        |
| Severity  | 2011.2     | 0.067 (CI = +/-0.007; p = 0.000)  | -0.064 (CI = +/-0.039; p = 0.003) | 0.957                   | +6.91%        |
| Severity  | 2012.1     | 0.069 (CI = +/-0.007; p = 0.000)  | -0.058 (CI = +/-0.040; p = 0.007) | 0.958                   | +7.10%        |
| Severity  | 2012.2     | 0.071 (CI = +/-0.007; p = 0.000)  | -0.066 (CI = +/-0.039; p = 0.003) | 0.960                   | +7.35%        |
| Severity  | 2013.1     | 0.071 (CI = +/-0.008; p = 0.000)  | -0.064 (CI = +/-0.041; p = 0.005) | 0.955                   | +7.40%        |
| Severity  | 2013.2     | 0.072 (CI = +/-0.010; p = 0.000)  | -0.067 (CI = +/-0.044; p = 0.006) | 0.947                   | +7.51%        |
| Severity  | 2014.1     | 0.070 (CI = +/-0.011; p = 0.000)  | -0.072 (CI = +/-0.046; p = 0.005) | 0.940                   | +7.29%        |
| Severity  | 2014.2     | 0.067 (CI = +/-0.011; p = 0.000)  | -0.063 (CI = +/-0.045; p = 0.011) | 0.929                   | +6.91%        |
| Severity  | 2015.1     | 0.065 (CI = +/-0.013; p = 0.000)  | -0.068 (CI = +/-0.048; p = 0.010) | 0.918                   | +6.67%        |
| Severity  | 2015.2     | 0.063 (CI = +/-0.015; p = 0.000)  | -0.064 (CI = +/-0.053; p = 0.023) | 0.886                   | +6.46%        |
| Severity  | 2016.1     | 0.064 (CI = +/-0.019; p = 0.000)  | -0.062 (CI = +/-0.059; p = 0.041) | 0.869                   | +6.57%        |
| Severity  | 2016.2     | 0.068 (CI = +/-0.023; p = 0.000)  | -0.070 (CI = +/-0.065; p = 0.038) | 0.849                   | +7.04%        |
| Severity  | 2017.1     | 0.070 (CI = +/-0.029; p = 0.001)  | -0.068 (CI = +/-0.075; p = 0.070) | 0.824                   | +7.22%        |
|           |            |                                   |                                   |                         |               |
| Frequency | 2005.2     | -0.016 (CI = +/-0.009; p = 0.001) | -0.082 (CI = +/-0.082; p = 0.050) | 0.351                   | -1.60%        |
| Frequency | 2006.1     | -0.015 (CI = +/-0.009; p = 0.003) | -0.076 (CI = +/-0.084; p = 0.073) | 0.289                   | -1.49%        |
| Frequency | 2006.2     | -0.014 (CI = +/-0.010; p = 0.009) | -0.083 (CI = +/-0.086; p = 0.056) | 0.268                   | -1.35%        |
| Frequency | 2007.1     | -0.012 (CI = +/-0.010; p = 0.023) | -0.077 (CI = +/-0.088; p = 0.083) | 0.202                   | -1.22%        |
| Frequency | 2007.2     | -0.012 (CI = +/-0.011; p = 0.045) | -0.081 (CI = +/-0.091; p = 0.079) | 0.189                   | -1.14%        |
| Frequency | 2008.1     | -0.012 (CI = +/-0.012; p = 0.058) | -0.082 (CI = +/-0.095; p = 0.087) | 0.166                   | -1.17%        |
| Frequency | 2008.2     | -0.012 (CI = +/-0.013; p = 0.074) | -0.081 (CI = +/-0.099; p = 0.103) | 0.162                   | -1.18%        |
| Frequency | 2009.1     | -0.014 (CI = +/-0.014; p = 0.059) | -0.088 (CI = +/-0.102; p = 0.088) | 0.177                   | -1.34%        |
| Frequency | 2009.2     | -0.015 (CI = +/-0.015; p = 0.050) | -0.080 (CI = +/-0.106; p = 0.128) | 0.189                   | -1.52%        |
| Frequency | 2010.1     | -0.017 (CI = +/-0.016; p = 0.042) | -0.088 (CI = +/-0.110; p = 0.111) | 0.200                   | -1.70%        |
| Frequency | 2010.2     | -0.020 (CI = +/-0.018; p = 0.028) | -0.076 (CI = +/-0.113; p = 0.175) | 0.229                   | -2.00%        |
| Frequency | 2011.1     | -0.022 (CI = +/-0.019; p = 0.029) | -0.082 (CI = +/-0.118; p = 0.160) | 0.225                   | -2.17%        |
| Frequency | 2011.2     | -0.023 (CI = +/-0.022; p = 0.039) | -0.079 (CI = +/-0.125; p = 0.201) | 0.219                   | -2.27%        |
| Frequency | 2012.1     | -0.028 (CI = +/-0.023; p = 0.019) | -0.095 (CI = +/-0.126; p = 0.128) | 0.289                   | -2.77%        |
| Frequency | 2012.2     | -0.033 (CI = +/-0.025; p = 0.012) | -0.078 (CI = +/-0.129; p = 0.215) | 0.337                   | -3.28%        |
| Frequency | 2013.1     | -0.039 (CI = +/-0.027; p = 0.008) | -0.093 (CI = +/-0.133; p = 0.154) | 0.376                   | -3.79%        |
| Frequency | 2013.2     | -0.045 (CI = +/-0.030; p = 0.007) | -0.076 (CI = +/-0.138; p = 0.254) | 0.418                   | -4.37%        |
| Frequency | 2014.1     | -0.049 (CI = +/-0.034; p = 0.009) | -0.087 (CI = +/-0.146; p = 0.222) | 0.405                   | -4.76%        |
| Frequency | 2014.2     | -0.057 (CI = +/-0.038; p = 0.008) | -0.067 (CI = +/-0.154; p = 0.358) | 0.446                   | -5.49%        |
| Frequency | 2015.1     | -0.063 (CI = +/-0.044; p = 0.009) | -0.082 (CI = +/-0.164; p = 0.290) | 0.448                   | -6.14%        |
| Frequency | 2015.2     | -0.072 (CI = +/-0.051; p = 0.011) | -0.063 (CI = +/-0.177; p = 0.443) | 0.469                   | -6.96%        |
| Frequency | 2016.1     | -0.084 (CI = +/-0.059; p = 0.011) | -0.085 (CI = +/-0.188; p = 0.328) | 0.496                   | -8.06%        |
| Frequency | 2016.2     | -0.107 (CI = +/-0.065; p = 0.006) | -0.043 (CI = +/-0.188; p = 0.602) | 0.615                   | -10.11%       |
| Frequency | 2017.1     | -0.125 (CI = +/-0.076; p = 0.007) | -0.070 (CI = +/-0.199; p = 0.420) | 0.647                   | -11.71%       |

**Bodily Injury**

Coverage = BI

End Trend Period = 2019.2

Excluded Points = NA

Parameters Included: time, seasonality

|           |            |                                   |                                   |              | Implied Trend |
|-----------|------------|-----------------------------------|-----------------------------------|--------------|---------------|
| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R^2 | Rate          |
| Loss Cost | 2005.2     | 0.052 (CI = +/-0.009; p = 0.000)  | -0.159 (CI = +/-0.073; p = 0.000) | 0.857        | +5.33%        |
| Loss Cost | 2006.1     | 0.054 (CI = +/-0.009; p = 0.000)  | -0.148 (CI = +/-0.073; p = 0.000) | 0.868        | +5.56%        |
| Loss Cost | 2006.2     | 0.057 (CI = +/-0.009; p = 0.000)  | -0.159 (CI = +/-0.071; p = 0.000) | 0.876        | +5.82%        |
| Loss Cost | 2007.1     | 0.060 (CI = +/-0.009; p = 0.000)  | -0.144 (CI = +/-0.066; p = 0.000) | 0.901        | +6.19%        |
| Loss Cost | 2007.2     | 0.062 (CI = +/-0.009; p = 0.000)  | -0.154 (CI = +/-0.065; p = 0.000) | 0.906        | +6.45%        |
| Loss Cost | 2008.1     | 0.066 (CI = +/-0.009; p = 0.000)  | -0.139 (CI = +/-0.060; p = 0.000) | 0.924        | +6.81%        |
| Loss Cost | 2008.2     | 0.070 (CI = +/-0.008; p = 0.000)  | -0.156 (CI = +/-0.050; p = 0.000) | 0.949        | +7.26%        |
| Loss Cost | 2009.1     | 0.073 (CI = +/-0.007; p = 0.000)  | -0.143 (CI = +/-0.045; p = 0.000) | 0.962        | +7.62%        |
| Loss Cost | 2009.2     | 0.076 (CI = +/-0.007; p = 0.000)  | -0.151 (CI = +/-0.044; p = 0.000) | 0.964        | +7.85%        |
| Loss Cost | 2010.1     | 0.079 (CI = +/-0.007; p = 0.000)  | -0.139 (CI = +/-0.038; p = 0.000) | 0.974        | +8.22%        |
| Loss Cost | 2010.2     | 0.076 (CI = +/-0.006; p = 0.000)  | -0.130 (CI = +/-0.034; p = 0.000) | 0.976        | +7.92%        |
| Loss Cost | 2011.1     | 0.078 (CI = +/-0.007; p = 0.000)  | -0.124 (CI = +/-0.034; p = 0.000) | 0.978        | +8.11%        |
| Loss Cost | 2011.2     | 0.076 (CI = +/-0.007; p = 0.000)  | -0.118 (CI = +/-0.033; p = 0.000) | 0.976        | +7.89%        |
| Loss Cost | 2012.1     | 0.076 (CI = +/-0.008; p = 0.000)  | -0.117 (CI = +/-0.036; p = 0.000) | 0.973        | +7.90%        |
| Loss Cost | 2012.2     | 0.077 (CI = +/-0.009; p = 0.000)  | -0.119 (CI = +/-0.038; p = 0.000) | 0.966        | +7.95%        |
| Loss Cost | 2013.1     | 0.077 (CI = +/-0.010; p = 0.000)  | -0.118 (CI = +/-0.042; p = 0.000) | 0.962        | +7.96%        |
| Loss Cost | 2013.2     | 0.076 (CI = +/-0.012; p = 0.000)  | -0.117 (CI = +/-0.046; p = 0.000) | 0.948        | +7.87%        |
| Loss Cost | 2014.1     | 0.076 (CI = +/-0.015; p = 0.000)  | -0.115 (CI = +/-0.051; p = 0.001) | 0.942        | +7.95%        |
| Loss Cost | 2014.2     | 0.069 (CI = +/-0.012; p = 0.000)  | -0.101 (CI = +/-0.039; p = 0.000) | 0.952        | +7.13%        |
| Loss Cost | 2015.1     | 0.069 (CI = +/-0.016; p = 0.000)  | -0.101 (CI = +/-0.045; p = 0.001) | 0.946        | +7.16%        |
| Loss Cost | 2015.2     | 0.066 (CI = +/-0.019; p = 0.000)  | -0.096 (CI = +/-0.050; p = 0.003) | 0.918        | +6.82%        |
| Loss Cost | 2016.1     | 0.072 (CI = +/-0.024; p = 0.001)  | -0.087 (CI = +/-0.056; p = 0.010) | 0.927        | +7.48%        |
| Loss Cost | 2016.2     | 0.064 (CI = +/-0.029; p = 0.003)  | -0.077 (CI = +/-0.058; p = 0.021) | 0.894        | +6.62%        |
| Loss Cost | 2017.1     | 0.081 (CI = +/-0.019; p = 0.001)  | -0.058 (CI = +/-0.033; p = 0.011) | 0.982        | +8.39%        |
|           |            |                                   |                                   |              |               |
| Severity  | 2005.2     | 0.057 (CI = +/-0.006; p = 0.000)  | -0.092 (CI = +/-0.048; p = 0.001) | 0.940        | +5.87%        |
| Severity  | 2006.1     | 0.057 (CI = +/-0.006; p = 0.000)  | -0.092 (CI = +/-0.050; p = 0.001) | 0.935        | +5.85%        |
| Severity  | 2006.2     | 0.057 (CI = +/-0.007; p = 0.000)  | -0.092 (CI = +/-0.052; p = 0.001) | 0.926        | +5.84%        |
| Severity  | 2007.1     | 0.057 (CI = +/-0.007; p = 0.000)  | -0.090 (CI = +/-0.054; p = 0.002) | 0.922        | +5.90%        |
| Severity  | 2007.2     | 0.058 (CI = +/-0.008; p = 0.000)  | -0.091 (CI = +/-0.056; p = 0.003) | 0.912        | +5.94%        |
| Severity  | 2008.1     | 0.060 (CI = +/-0.008; p = 0.000)  | -0.083 (CI = +/-0.056; p = 0.006) | 0.916        | +6.15%        |
| Severity  | 2008.2     | 0.063 (CI = +/-0.008; p = 0.000)  | -0.095 (CI = +/-0.052; p = 0.001) | 0.931        | +6.47%        |
| Severity  | 2009.1     | 0.066 (CI = +/-0.007; p = 0.000)  | -0.082 (CI = +/-0.047; p = 0.002) | 0.947        | +6.82%        |
| Severity  | 2009.2     | 0.069 (CI = +/-0.007; p = 0.000)  | -0.091 (CI = +/-0.044; p = 0.000) | 0.953        | +7.09%        |
| Severity  | 2010.1     | 0.072 (CI = +/-0.007; p = 0.000)  | -0.081 (CI = +/-0.041; p = 0.001) | 0.963        | +7.42%        |
| Severity  | 2010.2     | 0.070 (CI = +/-0.008; p = 0.000)  | -0.077 (CI = +/-0.042; p = 0.001) | 0.956        | +7.29%        |
| Severity  | 2011.1     | 0.071 (CI = +/-0.009; p = 0.000)  | -0.075 (CI = +/-0.045; p = 0.003) | 0.952        | +7.35%        |
| Severity  | 2011.2     | 0.067 (CI = +/-0.008; p = 0.000)  | -0.064 (CI = +/-0.038; p = 0.003) | 0.957        | +6.92%        |
| Severity  | 2012.1     | 0.070 (CI = +/-0.008; p = 0.000)  | -0.056 (CI = +/-0.037; p = 0.006) | 0.961        | +7.21%        |
| Severity  | 2012.2     | 0.073 (CI = +/-0.008; p = 0.000)  | -0.065 (CI = +/-0.033; p = 0.001) | 0.969        | +7.57%        |
| Severity  | 2013.1     | 0.074 (CI = +/-0.009; p = 0.000)  | -0.061 (CI = +/-0.036; p = 0.003) | 0.966        | +7.71%        |
| Severity  | 2013.2     | 0.076 (CI = +/-0.010; p = 0.000)  | -0.066 (CI = +/-0.038; p = 0.003) | 0.962        | +7.92%        |
| Severity  | 2014.1     | 0.074 (CI = +/-0.012; p = 0.000)  | -0.071 (CI = +/-0.040; p = 0.003) | 0.957        | +7.64%        |
| Severity  | 2014.2     | 0.069 (CI = +/-0.011; p = 0.000)  | -0.063 (CI = +/-0.036; p = 0.004) | 0.954        | +7.14%        |
| Severity  | 2015.1     | 0.066 (CI = +/-0.014; p = 0.000)  | -0.069 (CI = +/-0.039; p = 0.004) | 0.949        | +6.78%        |
| Severity  | 2015.2     | 0.063 (CI = +/-0.017; p = 0.000)  | -0.065 (CI = +/-0.043; p = 0.011) | 0.923        | +6.51%        |
| Severity  | 2016.1     | 0.066 (CI = +/-0.023; p = 0.001)  | -0.061 (CI = +/-0.052; p = 0.031) | 0.915        | +6.82%        |
| Severity  | 2016.2     | 0.076 (CI = +/-0.021; p = 0.001)  | -0.072 (CI = +/-0.042; p = 0.009) | 0.954        | +7.90%        |
| Severity  | 2017.1     | 0.087 (CI = +/-0.019; p = 0.001)  | -0.060 (CI = +/-0.033; p = 0.010) | 0.984        | +9.09%        |
|           |            |                                   |                                   |              |               |
| Frequency | 2005.2     | -0.005 (CI = +/-0.006; p = 0.115) | -0.068 (CI = +/-0.054; p = 0.016) | 0.208        | -0.51%        |
| Frequency | 2006.1     | -0.003 (CI = +/-0.006; p = 0.382) | -0.056 (CI = +/-0.050; p = 0.030) | 0.125        | -0.27%        |
| Frequency | 2006.2     | 0.000 (CI = +/-0.006; p = 0.937)  | -0.067 (CI = +/-0.045; p = 0.006) | 0.219        | -0.02%        |
| Frequency | 2007.1     | 0.003 (CI = +/-0.005; p = 0.270)  | -0.054 (CI = +/-0.038; p = 0.007) | 0.253        | +0.28%        |
| Frequency | 2007.2     | 0.005 (CI = +/-0.005; p = 0.046)  | -0.062 (CI = +/-0.034; p = 0.001) | 0.415        | +0.48%        |
| Frequency | 2008.1     | 0.006 (CI = +/-0.005; p = 0.013)  | -0.056 (CI = +/-0.033; p = 0.002) | 0.458        | +0.63%        |
| Frequency | 2008.2     | 0.007 (CI = +/-0.005; p = 0.005)  | -0.061 (CI = +/-0.033; p = 0.001) | 0.506        | +0.75%        |
| Frequency | 2009.1     | 0.007 (CI = +/-0.005; p = 0.010)  | -0.061 (CI = +/-0.035; p = 0.002) | 0.503        | +0.75%        |
| Frequency | 2009.2     | 0.007 (CI = +/-0.006; p = 0.024)  | -0.059 (CI = +/-0.036; p = 0.003) | 0.440        | +0.71%        |
| Frequency | 2010.1     | 0.007 (CI = +/-0.007; p = 0.032)  | -0.058 (CI = +/-0.039; p = 0.006) | 0.439        | +0.74%        |
| Frequency | 2010.2     | 0.006 (CI = +/-0.007; p = 0.102)  | -0.053 (CI = +/-0.039; p = 0.011) | 0.341        | +0.59%        |
| Frequency | 2011.1     | 0.007 (CI = +/-0.008; p = 0.073)  | -0.049 (CI = +/-0.041; p = 0.022) | 0.355        | +0.71%        |
| Frequency | 2011.2     | 0.009 (CI = +/-0.008; p = 0.039)  | -0.054 (CI = +/-0.041; p = 0.014) | 0.409        | +0.90%        |
| Frequency | 2012.1     | 0.006 (CI = +/-0.009; p = 0.147)  | -0.061 (CI = +/-0.042; p = 0.007) | 0.439        | +0.65%        |
| Frequency | 2012.2     | 0.004 (CI = +/-0.009; p = 0.427)  | -0.054 (CI = +/-0.041; p = 0.013) | 0.337        | +0.35%        |
| Frequency | 2013.1     | 0.002 (CI = +/-0.011; p = 0.645)  | -0.057 (CI = +/-0.044; p = 0.016) | 0.345        | +0.24%        |
| Frequency | 2013.2     | 0.000 (CI = +/-0.012; p = 0.938)  | -0.051 (CI = +/-0.045; p = 0.031) | 0.266        | -0.04%        |
| Frequency | 2014.1     | 0.003 (CI = +/-0.014; p = 0.647)  | -0.044 (CI = +/-0.047; p = 0.066) | 0.214        | +0.29%        |
| Frequency | 2014.2     | 0.000 (CI = +/-0.016; p = 0.987)  | -0.038 (CI = +/-0.050; p = 0.118) | 0.097        | -0.01%        |
| Frequency | 2015.1     | 0.004 (CI = +/-0.019; p = 0.681)  | -0.032 (CI = +/-0.056; p = 0.222) | 0.027        | +0.35%        |
| Frequency | 2015.2     | 0.003 (CI = +/-0.025; p = 0.784)  | -0.031 (CI = +/-0.065; p = 0.292) | -0.078       | +0.29%        |
| Frequency | 2016.1     | 0.006 (CI = +/-0.035; p = 0.667)  | -0.026 (CI = +/-0.080; p = 0.441) | -0.142       | +0.62%        |
| Frequency | 2016.2     | -0.012 (CI = +/-0.020; p = 0.166) | -0.005 (CI = +/-0.040; p = 0.761) | 0.138        | -1.19%        |
| Frequency | 2017.1     | -0.006 (CI = +/-0.031; p = 0.553) | 0.002 (CI = +/-0.053; p = 0.920)  | -0.410       | -0.64%        |

**Bodily Injury**

Coverage = BI

End Trend Period = 2019.1

Excluded Points = NA

Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R <sup>2</sup> | Implied Trend |
|-----------|------------|-----------------------------------|-----------------------------------|-------------------------|---------------|
|           |            |                                   |                                   |                         | Rate          |
| Loss Cost | 2005.2     | 0.051 (CI = +/-0.009; p = 0.000)  | -0.156 (CI = +/-0.076; p = 0.000) | 0.836                   | +5.26%        |
| Loss Cost | 2006.1     | 0.053 (CI = +/-0.010; p = 0.000)  | -0.146 (CI = +/-0.075; p = 0.001) | 0.848                   | +5.49%        |
| Loss Cost | 2006.2     | 0.056 (CI = +/-0.010; p = 0.000)  | -0.158 (CI = +/-0.074; p = 0.000) | 0.856                   | +5.78%        |
| Loss Cost | 2007.1     | 0.060 (CI = +/-0.010; p = 0.000)  | -0.142 (CI = +/-0.069; p = 0.000) | 0.886                   | +6.16%        |
| Loss Cost | 2007.2     | 0.062 (CI = +/-0.010; p = 0.000)  | -0.154 (CI = +/-0.068; p = 0.000) | 0.891                   | +6.45%        |
| Loss Cost | 2008.1     | 0.066 (CI = +/-0.010; p = 0.000)  | -0.140 (CI = +/-0.063; p = 0.000) | 0.912                   | +6.83%        |
| Loss Cost | 2008.2     | 0.071 (CI = +/-0.008; p = 0.000)  | -0.159 (CI = +/-0.053; p = 0.000) | 0.942                   | +7.35%        |
| Loss Cost | 2009.1     | 0.074 (CI = +/-0.008; p = 0.000)  | -0.146 (CI = +/-0.047; p = 0.000) | 0.957                   | +7.73%        |
| Loss Cost | 2009.2     | 0.077 (CI = +/-0.008; p = 0.000)  | -0.156 (CI = +/-0.045; p = 0.000) | 0.960                   | +8.01%        |
| Loss Cost | 2010.1     | 0.081 (CI = +/-0.007; p = 0.000)  | -0.144 (CI = +/-0.038; p = 0.000) | 0.974                   | +8.41%        |
| Loss Cost | 2010.2     | 0.078 (CI = +/-0.007; p = 0.000)  | -0.135 (CI = +/-0.035; p = 0.000) | 0.975                   | +8.09%        |
| Loss Cost | 2011.1     | 0.080 (CI = +/-0.007; p = 0.000)  | -0.129 (CI = +/-0.034; p = 0.000) | 0.977                   | +8.31%        |
| Loss Cost | 2011.2     | 0.078 (CI = +/-0.007; p = 0.000)  | -0.123 (CI = +/-0.034; p = 0.000) | 0.973                   | +8.07%        |
| Loss Cost | 2012.1     | 0.078 (CI = +/-0.008; p = 0.000)  | -0.122 (CI = +/-0.036; p = 0.000) | 0.970                   | +8.10%        |
| Loss Cost | 2012.2     | 0.079 (CI = +/-0.010; p = 0.000)  | -0.125 (CI = +/-0.040; p = 0.000) | 0.962                   | +8.21%        |
| Loss Cost | 2013.1     | 0.079 (CI = +/-0.012; p = 0.000)  | -0.124 (CI = +/-0.043; p = 0.000) | 0.958                   | +8.24%        |
| Loss Cost | 2013.2     | 0.079 (CI = +/-0.014; p = 0.000)  | -0.123 (CI = +/-0.049; p = 0.000) | 0.940                   | +8.21%        |
| Loss Cost | 2014.1     | 0.080 (CI = +/-0.017; p = 0.000)  | -0.122 (CI = +/-0.054; p = 0.001) | 0.934                   | +8.32%        |
| Loss Cost | 2014.2     | 0.071 (CI = +/-0.015; p = 0.000)  | -0.105 (CI = +/-0.044; p = 0.001) | 0.935                   | +7.34%        |
| Loss Cost | 2015.1     | 0.071 (CI = +/-0.020; p = 0.000)  | -0.104 (CI = +/-0.052; p = 0.003) | 0.925                   | +7.40%        |
| Loss Cost | 2015.2     | 0.068 (CI = +/-0.027; p = 0.001)  | -0.098 (CI = +/-0.062; p = 0.010) | 0.870                   | +7.00%        |
| Loss Cost | 2016.1     | 0.075 (CI = +/-0.034; p = 0.004)  | -0.090 (CI = +/-0.070; p = 0.023) | 0.887                   | +7.78%        |
| Loss Cost | 2016.2     | 0.063 (CI = +/-0.050; p = 0.028)  | -0.076 (CI = +/-0.085; p = 0.066) | 0.773                   | +6.49%        |
| Loss Cost | 2017.1     | 0.083 (CI = +/-0.039; p = 0.012)  | -0.060 (CI = +/-0.056; p = 0.045) | 0.963                   | +8.60%        |
|           |            |                                   |                                   |                         |               |
| Severity  | 2005.2     | 0.056 (CI = +/-0.006; p = 0.000)  | -0.089 (CI = +/-0.049; p = 0.001) | 0.932                   | +5.80%        |
| Severity  | 2006.1     | 0.056 (CI = +/-0.007; p = 0.000)  | -0.090 (CI = +/-0.051; p = 0.001) | 0.925                   | +5.78%        |
| Severity  | 2006.2     | 0.056 (CI = +/-0.007; p = 0.000)  | -0.089 (CI = +/-0.054; p = 0.002) | 0.915                   | +5.77%        |
| Severity  | 2007.1     | 0.057 (CI = +/-0.008; p = 0.000)  | -0.087 (CI = +/-0.056; p = 0.004) | 0.909                   | +5.83%        |
| Severity  | 2007.2     | 0.057 (CI = +/-0.008; p = 0.000)  | -0.088 (CI = +/-0.058; p = 0.005) | 0.897                   | +5.86%        |
| Severity  | 2008.1     | 0.059 (CI = +/-0.009; p = 0.000)  | -0.081 (CI = +/-0.058; p = 0.009) | 0.902                   | +6.07%        |
| Severity  | 2008.2     | 0.062 (CI = +/-0.009; p = 0.000)  | -0.094 (CI = +/-0.054; p = 0.002) | 0.918                   | +6.44%        |
| Severity  | 2009.1     | 0.066 (CI = +/-0.008; p = 0.000)  | -0.082 (CI = +/-0.049; p = 0.003) | 0.937                   | +6.80%        |
| Severity  | 2009.2     | 0.069 (CI = +/-0.008; p = 0.000)  | -0.092 (CI = +/-0.047; p = 0.001) | 0.944                   | +7.11%        |
| Severity  | 2010.1     | 0.072 (CI = +/-0.008; p = 0.000)  | -0.082 (CI = +/-0.043; p = 0.001) | 0.956                   | +7.46%        |
| Severity  | 2010.2     | 0.071 (CI = +/-0.009; p = 0.000)  | -0.077 (CI = +/-0.045; p = 0.002) | 0.947                   | +7.31%        |
| Severity  | 2011.1     | 0.071 (CI = +/-0.010; p = 0.000)  | -0.076 (CI = +/-0.048; p = 0.004) | 0.941                   | +7.38%        |
| Severity  | 2011.2     | 0.066 (CI = +/-0.009; p = 0.000)  | -0.062 (CI = +/-0.041; p = 0.006) | 0.945                   | +6.87%        |
| Severity  | 2012.1     | 0.069 (CI = +/-0.009; p = 0.000)  | -0.055 (CI = +/-0.040; p = 0.011) | 0.951                   | +7.17%        |
| Severity  | 2012.2     | 0.073 (CI = +/-0.009; p = 0.000)  | -0.065 (CI = +/-0.037; p = 0.002) | 0.960                   | +7.61%        |
| Severity  | 2013.1     | 0.075 (CI = +/-0.010; p = 0.000)  | -0.062 (CI = +/-0.039; p = 0.005) | 0.956                   | +7.76%        |
| Severity  | 2013.2     | 0.077 (CI = +/-0.012; p = 0.000)  | -0.068 (CI = +/-0.042; p = 0.005) | 0.950                   | +8.05%        |
| Severity  | 2014.1     | 0.075 (CI = +/-0.014; p = 0.000)  | -0.073 (CI = +/-0.044; p = 0.005) | 0.943                   | +7.75%        |
| Severity  | 2014.2     | 0.069 (CI = +/-0.015; p = 0.000)  | -0.062 (CI = +/-0.042; p = 0.010) | 0.932                   | +7.12%        |
| Severity  | 2015.1     | 0.065 (CI = +/-0.017; p = 0.000)  | -0.068 (CI = +/-0.045; p = 0.010) | 0.922                   | +6.72%        |
| Severity  | 2015.2     | 0.061 (CI = +/-0.023; p = 0.001)  | -0.062 (CI = +/-0.053; p = 0.030) | 0.868                   | +6.27%        |
| Severity  | 2016.1     | 0.064 (CI = +/-0.033; p = 0.006)  | -0.058 (CI = +/-0.066; p = 0.070) | 0.849                   | +6.59%        |
| Severity  | 2016.2     | 0.080 (CI = +/-0.035; p = 0.005)  | -0.077 (CI = +/-0.059; p = 0.025) | 0.919                   | +8.33%        |
| Severity  | 2017.1     | 0.094 (CI = +/-0.022; p = 0.003)  | -0.065 (CI = +/-0.031; p = 0.012) | 0.991                   | +9.84%        |
|           |            |                                   |                                   |                         |               |
| Frequency | 2005.2     | -0.005 (CI = +/-0.007; p = 0.134) | -0.067 (CI = +/-0.056; p = 0.021) | 0.206                   | -0.52%        |
| Frequency | 2006.1     | -0.003 (CI = +/-0.007; p = 0.410) | -0.056 (CI = +/-0.052; p = 0.037) | 0.122                   | -0.27%        |
| Frequency | 2006.2     | 0.000 (CI = +/-0.006; p = 0.990)  | -0.068 (CI = +/-0.047; p = 0.007) | 0.216                   | +0.00%        |
| Frequency | 2007.1     | 0.003 (CI = +/-0.005; p = 0.243)  | -0.055 (CI = +/-0.039; p = 0.008) | 0.251                   | +0.31%        |
| Frequency | 2007.2     | 0.006 (CI = +/-0.005; p = 0.033)  | -0.065 (CI = +/-0.035; p = 0.001) | 0.426                   | +0.55%        |
| Frequency | 2008.1     | 0.007 (CI = +/-0.005; p = 0.009)  | -0.059 (CI = +/-0.034; p = 0.002) | 0.473                   | +0.71%        |
| Frequency | 2008.2     | 0.009 (CI = +/-0.005; p = 0.003)  | -0.065 (CI = +/-0.033; p = 0.001) | 0.534                   | +0.86%        |
| Frequency | 2009.1     | 0.009 (CI = +/-0.006; p = 0.006)  | -0.065 (CI = +/-0.035; p = 0.001) | 0.531                   | +0.87%        |
| Frequency | 2009.2     | 0.008 (CI = +/-0.006; p = 0.014)  | -0.064 (CI = +/-0.037; p = 0.002) | 0.470                   | +0.84%        |
| Frequency | 2010.1     | 0.009 (CI = +/-0.007; p = 0.020)  | -0.062 (CI = +/-0.039; p = 0.004) | 0.470                   | +0.88%        |
| Frequency | 2010.2     | 0.007 (CI = +/-0.008; p = 0.069)  | -0.057 (CI = +/-0.041; p = 0.009) | 0.367                   | +0.72%        |
| Frequency | 2011.1     | 0.009 (CI = +/-0.009; p = 0.049)  | -0.053 (CI = +/-0.042; p = 0.017) | 0.384                   | +0.87%        |
| Frequency | 2011.2     | 0.011 (CI = +/-0.009; p = 0.021)  | -0.061 (CI = +/-0.042; p = 0.009) | 0.463                   | +1.13%        |
| Frequency | 2012.1     | 0.009 (CI = +/-0.010; p = 0.078)  | -0.067 (CI = +/-0.043; p = 0.005) | 0.490                   | +0.87%        |
| Frequency | 2012.2     | 0.006 (CI = +/-0.011; p = 0.272)  | -0.059 (CI = +/-0.043; p = 0.011) | 0.377                   | +0.56%        |
| Frequency | 2013.1     | 0.004 (CI = +/-0.012; p = 0.441)  | -0.062 (CI = +/-0.046; p = 0.014) | 0.380                   | +0.45%        |
| Frequency | 2013.2     | 0.001 (CI = +/-0.014; p = 0.821)  | -0.055 (CI = +/-0.050; p = 0.033) | 0.283                   | +0.15%        |
| Frequency | 2014.1     | 0.005 (CI = +/-0.016; p = 0.476)  | -0.048 (CI = +/-0.051; p = 0.063) | 0.244                   | +0.53%        |
| Frequency | 2014.2     | 0.002 (CI = +/-0.020; p = 0.818)  | -0.042 (CI = +/-0.058; p = 0.127) | 0.101                   | +0.20%        |
| Frequency | 2015.1     | 0.006 (CI = +/-0.024; p = 0.550)  | -0.036 (CI = +/-0.064; p = 0.217) | 0.037                   | +0.63%        |
| Frequency | 2015.2     | 0.007 (CI = +/-0.034; p = 0.632)  | -0.037 (CI = +/-0.079; p = 0.287) | -0.079                  | +0.69%        |
| Frequency | 2016.1     | 0.011 (CI = +/-0.049; p = 0.560)  | -0.032 (CI = +/-0.098; p = 0.421) | -0.153                  | +1.12%        |
| Frequency | 2016.2     | -0.017 (CI = +/-0.032; p = 0.184) | 0.001 (CI = +/-0.054; p = 0.948)  | 0.189                   | -1.69%        |
| Frequency | 2017.1     | -0.011 (CI = +/-0.060; p = 0.498) | 0.006 (CI = +/-0.086; p = 0.796)  | -0.450                  | -1.13%        |

**Bodily Injury**

Coverage = BI

End Trend Period = 2022.1

Excluded Points = NA

Parameters Included: time

| Fit       | Start Date | Time                              | Adjusted R <sup>2</sup> | Implied Trend Rate |
|-----------|------------|-----------------------------------|-------------------------|--------------------|
| Loss Cost | 2005.2     | 0.036 (CI = +/-0.011; p = 0.000)  | 0.553                   | +3.69%             |
| Loss Cost | 2006.1     | 0.038 (CI = +/-0.012; p = 0.000)  | 0.557                   | +3.84%             |
| Loss Cost | 2006.2     | 0.038 (CI = +/-0.013; p = 0.000)  | 0.532                   | +3.83%             |
| Loss Cost | 2007.1     | 0.040 (CI = +/-0.013; p = 0.000)  | 0.547                   | +4.06%             |
| Loss Cost | 2007.2     | 0.039 (CI = +/-0.014; p = 0.000)  | 0.514                   | +4.00%             |
| Loss Cost | 2008.1     | 0.041 (CI = +/-0.015; p = 0.000)  | 0.517                   | +4.19%             |
| Loss Cost | 2008.2     | 0.041 (CI = +/-0.016; p = 0.000)  | 0.491                   | +4.21%             |
| Loss Cost | 2009.1     | 0.043 (CI = +/-0.018; p = 0.000)  | 0.481                   | +4.35%             |
| Loss Cost | 2009.2     | 0.041 (CI = +/-0.019; p = 0.000)  | 0.430                   | +4.14%             |
| Loss Cost | 2010.1     | 0.041 (CI = +/-0.020; p = 0.000)  | 0.411                   | +4.23%             |
| Loss Cost | 2010.2     | 0.035 (CI = +/-0.021; p = 0.002)  | 0.335                   | +3.61%             |
| Loss Cost | 2011.1     | 0.035 (CI = +/-0.023; p = 0.004)  | 0.294                   | +3.53%             |
| Loss Cost | 2011.2     | 0.028 (CI = +/-0.023; p = 0.020)  | 0.204                   | +2.88%             |
| Loss Cost | 2012.1     | 0.026 (CI = +/-0.026; p = 0.047)  | 0.149                   | +2.64%             |
| Loss Cost | 2012.2     | 0.020 (CI = +/-0.027; p = 0.140)  | 0.068                   | +2.04%             |
| Loss Cost | 2013.1     | 0.017 (CI = +/-0.030; p = 0.253)  | 0.022                   | +1.71%             |
| Loss Cost | 2013.2     | 0.009 (CI = +/-0.032; p = 0.575)  | -0.041                  | +0.87%             |
| Loss Cost | 2014.1     | 0.005 (CI = +/-0.036; p = 0.787)  | -0.061                  | +0.46%             |
| Loss Cost | 2014.2     | -0.009 (CI = +/-0.036; p = 0.599) | -0.050                  | -0.90%             |
| Loss Cost | 2015.1     | -0.015 (CI = +/-0.041; p = 0.446) | -0.028                  | -1.47%             |
| Loss Cost | 2015.2     | -0.029 (CI = +/-0.043; p = 0.170) | 0.080                   | -2.84%             |
| Loss Cost | 2016.1     | -0.035 (CI = +/-0.050; p = 0.152) | 0.103                   | -3.43%             |
| Loss Cost | 2016.2     | -0.054 (CI = +/-0.052; p = 0.041) | 0.289                   | -5.30%             |
| Loss Cost | 2017.1     | -0.062 (CI = +/-0.062; p = 0.049) | 0.295                   | -6.05%             |
| Severity  | 2005.2     | 0.056 (CI = +/-0.006; p = 0.000)  | 0.928                   | +5.78%             |
| Severity  | 2006.1     | 0.056 (CI = +/-0.006; p = 0.000)  | 0.922                   | +5.81%             |
| Severity  | 2006.2     | 0.056 (CI = +/-0.006; p = 0.000)  | 0.915                   | +5.75%             |
| Severity  | 2007.1     | 0.057 (CI = +/-0.007; p = 0.000)  | 0.912                   | +5.84%             |
| Severity  | 2007.2     | 0.056 (CI = +/-0.007; p = 0.000)  | 0.903                   | +5.80%             |
| Severity  | 2008.1     | 0.058 (CI = +/-0.007; p = 0.000)  | 0.908                   | +5.99%             |
| Severity  | 2008.2     | 0.059 (CI = +/-0.008; p = 0.000)  | 0.906                   | +6.13%             |
| Severity  | 2009.1     | 0.062 (CI = +/-0.007; p = 0.000)  | 0.918                   | +6.40%             |
| Severity  | 2009.2     | 0.063 (CI = +/-0.008; p = 0.000)  | 0.912                   | +6.47%             |
| Severity  | 2010.1     | 0.065 (CI = +/-0.008; p = 0.000)  | 0.917                   | +6.71%             |
| Severity  | 2010.2     | 0.063 (CI = +/-0.009; p = 0.000)  | 0.910                   | +6.48%             |
| Severity  | 2011.1     | 0.063 (CI = +/-0.009; p = 0.000)  | 0.901                   | +6.53%             |
| Severity  | 2011.2     | 0.059 (CI = +/-0.009; p = 0.000)  | 0.904                   | +6.11%             |
| Severity  | 2012.1     | 0.061 (CI = +/-0.009; p = 0.000)  | 0.900                   | +6.28%             |
| Severity  | 2012.2     | 0.061 (CI = +/-0.010; p = 0.000)  | 0.887                   | +6.30%             |
| Severity  | 2013.1     | 0.062 (CI = +/-0.012; p = 0.000)  | 0.872                   | +6.35%             |
| Severity  | 2013.2     | 0.060 (CI = +/-0.013; p = 0.000)  | 0.849                   | +6.19%             |
| Severity  | 2014.1     | 0.058 (CI = +/-0.015; p = 0.000)  | 0.820                   | +6.02%             |
| Severity  | 2014.2     | 0.053 (CI = +/-0.015; p = 0.000)  | 0.799                   | +5.42%             |
| Severity  | 2015.1     | 0.051 (CI = +/-0.017; p = 0.000)  | 0.756                   | +5.24%             |
| Severity  | 2015.2     | 0.046 (CI = +/-0.018; p = 0.000)  | 0.702                   | +4.70%             |
| Severity  | 2016.1     | 0.046 (CI = +/-0.021; p = 0.000)  | 0.655                   | +4.75%             |
| Severity  | 2016.2     | 0.044 (CI = +/-0.025; p = 0.003)  | 0.569                   | +4.48%             |
| Severity  | 2017.1     | 0.044 (CI = +/-0.030; p = 0.009)  | 0.500                   | +4.53%             |
| Frequency | 2005.2     | -0.020 (CI = +/-0.009; p = 0.000) | 0.365                   | -1.98%             |
| Frequency | 2006.1     | -0.019 (CI = +/-0.010; p = 0.000) | 0.319                   | -1.86%             |
| Frequency | 2006.2     | -0.018 (CI = +/-0.010; p = 0.001) | 0.286                   | -1.81%             |
| Frequency | 2007.1     | -0.017 (CI = +/-0.011; p = 0.003) | 0.238                   | -1.68%             |
| Frequency | 2007.2     | -0.017 (CI = +/-0.012; p = 0.005) | 0.222                   | -1.70%             |
| Frequency | 2008.1     | -0.017 (CI = +/-0.012; p = 0.008) | 0.201                   | -1.70%             |
| Frequency | 2008.2     | -0.018 (CI = +/-0.013; p = 0.009) | 0.207                   | -1.81%             |
| Frequency | 2009.1     | -0.019 (CI = +/-0.014; p = 0.009) | 0.212                   | -1.93%             |
| Frequency | 2009.2     | -0.022 (CI = +/-0.015; p = 0.005) | 0.250                   | -2.19%             |
| Frequency | 2010.1     | -0.023 (CI = +/-0.016; p = 0.006) | 0.250                   | -2.32%             |
| Frequency | 2010.2     | -0.027 (CI = +/-0.017; p = 0.003) | 0.309                   | -2.70%             |
| Frequency | 2011.1     | -0.029 (CI = +/-0.018; p = 0.004) | 0.299                   | -2.81%             |
| Frequency | 2011.2     | -0.031 (CI = +/-0.020; p = 0.004) | 0.309                   | -3.04%             |
| Frequency | 2012.1     | -0.035 (CI = +/-0.021; p = 0.003) | 0.345                   | -3.42%             |
| Frequency | 2012.2     | -0.041 (CI = +/-0.022; p = 0.001) | 0.420                   | -4.01%             |
| Frequency | 2013.1     | -0.045 (CI = +/-0.024; p = 0.001) | 0.434                   | -4.36%             |
| Frequency | 2013.2     | -0.051 (CI = +/-0.026; p = 0.001) | 0.497                   | -5.01%             |
| Frequency | 2014.1     | -0.054 (CI = +/-0.029; p = 0.001) | 0.477                   | -5.24%             |
| Frequency | 2014.2     | -0.062 (CI = +/-0.031; p = 0.001) | 0.534                   | -6.00%             |
| Frequency | 2015.1     | -0.066 (CI = +/-0.035; p = 0.001) | 0.521                   | -6.38%             |
| Frequency | 2015.2     | -0.075 (CI = +/-0.039; p = 0.001) | 0.556                   | -7.20%             |
| Frequency | 2016.1     | -0.081 (CI = +/-0.045; p = 0.002) | 0.551                   | -7.81%             |
| Frequency | 2016.2     | -0.098 (CI = +/-0.048; p = 0.001) | 0.648                   | -9.36%             |
| Frequency | 2017.1     | -0.107 (CI = +/-0.056; p = 0.002) | 0.633                   | -10.12%            |



**Bodily Injury**

Coverage = BI

End Trend Period = 2019.2

Excluded Points = NA

Parameters Included: time

| Fit       | Start Date | Time                              | Adjusted R <sup>2</sup> | Implied Trend Rate |
|-----------|------------|-----------------------------------|-------------------------|--------------------|
| Loss Cost | 2005.2     | 0.052 (CI = +/-0.011; p = 0.000)  | 0.756                   | +5.33%             |
| Loss Cost | 2006.1     | 0.055 (CI = +/-0.011; p = 0.000)  | 0.782                   | +5.68%             |
| Loss Cost | 2006.2     | 0.057 (CI = +/-0.012; p = 0.000)  | 0.774                   | +5.82%             |
| Loss Cost | 2007.1     | 0.061 (CI = +/-0.012; p = 0.000)  | 0.822                   | +6.33%             |
| Loss Cost | 2007.2     | 0.062 (CI = +/-0.013; p = 0.000)  | 0.811                   | +6.45%             |
| Loss Cost | 2008.1     | 0.067 (CI = +/-0.012; p = 0.000)  | 0.848                   | +6.97%             |
| Loss Cost | 2008.2     | 0.070 (CI = +/-0.013; p = 0.000)  | 0.851                   | +7.26%             |
| Loss Cost | 2009.1     | 0.075 (CI = +/-0.013; p = 0.000)  | 0.881                   | +7.81%             |
| Loss Cost | 2009.2     | 0.076 (CI = +/-0.014; p = 0.000)  | 0.866                   | +7.85%             |
| Loss Cost | 2010.1     | 0.081 (CI = +/-0.013; p = 0.000)  | 0.893                   | +8.45%             |
| Loss Cost | 2010.2     | 0.076 (CI = +/-0.013; p = 0.000)  | 0.887                   | +7.92%             |
| Loss Cost | 2011.1     | 0.080 (CI = +/-0.014; p = 0.000)  | 0.895                   | +8.36%             |
| Loss Cost | 2011.2     | 0.076 (CI = +/-0.015; p = 0.000)  | 0.882                   | +7.89%             |
| Loss Cost | 2012.1     | 0.079 (CI = +/-0.016; p = 0.000)  | 0.877                   | +8.20%             |
| Loss Cost | 2012.2     | 0.077 (CI = +/-0.018; p = 0.000)  | 0.850                   | +7.95%             |
| Loss Cost | 2013.1     | 0.080 (CI = +/-0.021; p = 0.000)  | 0.843                   | +8.36%             |
| Loss Cost | 2013.2     | 0.076 (CI = +/-0.024; p = 0.000)  | 0.803                   | +7.87%             |
| Loss Cost | 2014.1     | 0.081 (CI = +/-0.027; p = 0.000)  | 0.800                   | +8.47%             |
| Loss Cost | 2014.2     | 0.069 (CI = +/-0.027; p = 0.000)  | 0.769                   | +7.13%             |
| Loss Cost | 2015.1     | 0.075 (CI = +/-0.032; p = 0.001)  | 0.765                   | +7.82%             |
| Loss Cost | 2015.2     | 0.066 (CI = +/-0.037; p = 0.004)  | 0.674                   | +6.82%             |
| Loss Cost | 2016.1     | 0.080 (CI = +/-0.042; p = 0.003)  | 0.747                   | +8.37%             |
| Loss Cost | 2016.2     | 0.064 (CI = +/-0.050; p = 0.021)  | 0.623                   | +6.62%             |
| Loss Cost | 2017.1     | 0.090 (CI = +/-0.047; p = 0.006)  | 0.846                   | +9.47%             |
| Severity  | 2005.2     | 0.057 (CI = +/-0.007; p = 0.000)  | 0.907                   | +5.87%             |
| Severity  | 2006.1     | 0.058 (CI = +/-0.008; p = 0.000)  | 0.900                   | +5.92%             |
| Severity  | 2006.2     | 0.057 (CI = +/-0.008; p = 0.000)  | 0.889                   | +5.84%             |
| Severity  | 2007.1     | 0.058 (CI = +/-0.009; p = 0.000)  | 0.886                   | +5.99%             |
| Severity  | 2007.2     | 0.058 (CI = +/-0.009; p = 0.000)  | 0.872                   | +5.94%             |
| Severity  | 2008.1     | 0.061 (CI = +/-0.009; p = 0.000)  | 0.884                   | +6.24%             |
| Severity  | 2008.2     | 0.063 (CI = +/-0.010; p = 0.000)  | 0.886                   | +6.47%             |
| Severity  | 2009.1     | 0.067 (CI = +/-0.009; p = 0.000)  | 0.913                   | +6.93%             |
| Severity  | 2009.2     | 0.069 (CI = +/-0.010; p = 0.000)  | 0.909                   | +7.09%             |
| Severity  | 2010.1     | 0.073 (CI = +/-0.010; p = 0.000)  | 0.929                   | +7.55%             |
| Severity  | 2010.2     | 0.070 (CI = +/-0.010; p = 0.000)  | 0.920                   | +7.29%             |
| Severity  | 2011.1     | 0.072 (CI = +/-0.011; p = 0.000)  | 0.916                   | +7.50%             |
| Severity  | 2011.2     | 0.067 (CI = +/-0.010; p = 0.000)  | 0.922                   | +6.92%             |
| Severity  | 2012.1     | 0.071 (CI = +/-0.010; p = 0.000)  | 0.935                   | +7.35%             |
| Severity  | 2012.2     | 0.073 (CI = +/-0.012; p = 0.000)  | 0.929                   | +7.57%             |
| Severity  | 2013.1     | 0.076 (CI = +/-0.013; p = 0.000)  | 0.929                   | +7.91%             |
| Severity  | 2013.2     | 0.076 (CI = +/-0.015; p = 0.000)  | 0.912                   | +7.92%             |
| Severity  | 2014.1     | 0.077 (CI = +/-0.018; p = 0.000)  | 0.891                   | +7.96%             |
| Severity  | 2014.2     | 0.069 (CI = +/-0.018; p = 0.000)  | 0.878                   | +7.14%             |
| Severity  | 2015.1     | 0.070 (CI = +/-0.023; p = 0.000)  | 0.844                   | +7.23%             |
| Severity  | 2015.2     | 0.063 (CI = +/-0.027; p = 0.001)  | 0.787                   | +6.51%             |
| Severity  | 2016.1     | 0.072 (CI = +/-0.032; p = 0.002)  | 0.803                   | +7.44%             |
| Severity  | 2016.2     | 0.076 (CI = +/-0.045; p = 0.007)  | 0.752                   | +7.90%             |
| Severity  | 2017.1     | 0.097 (CI = +/-0.048; p = 0.005)  | 0.857                   | +10.21%            |
| Frequency | 2005.2     | -0.005 (CI = +/-0.007; p = 0.150) | 0.041                   | -0.51%             |
| Frequency | 2006.1     | -0.002 (CI = +/-0.007; p = 0.494) | -0.020                  | -0.22%             |
| Frequency | 2006.2     | 0.000 (CI = +/-0.007; p = 0.945)  | -0.040                  | -0.02%             |
| Frequency | 2007.1     | 0.003 (CI = +/-0.006; p = 0.259)  | 0.013                   | +0.32%             |
| Frequency | 2007.2     | 0.005 (CI = +/-0.006; p = 0.106)  | 0.071                   | +0.48%             |
| Frequency | 2008.1     | 0.007 (CI = +/-0.006; p = 0.024)  | 0.174                   | +0.69%             |
| Frequency | 2008.2     | 0.007 (CI = +/-0.006; p = 0.024)  | 0.181                   | +0.75%             |
| Frequency | 2009.1     | 0.008 (CI = +/-0.007; p = 0.022)  | 0.197                   | +0.83%             |
| Frequency | 2009.2     | 0.007 (CI = +/-0.007; p = 0.063)  | 0.127                   | +0.71%             |
| Frequency | 2010.1     | 0.008 (CI = +/-0.008; p = 0.047)  | 0.158                   | +0.83%             |
| Frequency | 2010.2     | 0.006 (CI = +/-0.008; p = 0.165)  | 0.058                   | +0.59%             |
| Frequency | 2011.1     | 0.008 (CI = +/-0.009; p = 0.078)  | 0.130                   | +0.81%             |
| Frequency | 2011.2     | 0.009 (CI = +/-0.010; p = 0.079)  | 0.138                   | +0.90%             |
| Frequency | 2012.1     | 0.008 (CI = +/-0.011; p = 0.161)  | 0.073                   | +0.79%             |
| Frequency | 2012.2     | 0.004 (CI = +/-0.012; p = 0.523)  | -0.042                  | +0.35%             |
| Frequency | 2013.1     | 0.004 (CI = +/-0.014; p = 0.521)  | -0.045                  | +0.41%             |
| Frequency | 2013.2     | 0.000 (CI = +/-0.014; p = 0.949)  | -0.090                  | -0.04%             |
| Frequency | 2014.1     | 0.005 (CI = +/-0.015; p = 0.513)  | -0.052                  | +0.47%             |
| Frequency | 2014.2     | 0.000 (CI = +/-0.017; p = 0.988)  | -0.111                  | -0.01%             |
| Frequency | 2015.1     | 0.005 (CI = +/-0.020; p = 0.539)  | -0.070                  | +0.55%             |
| Frequency | 2015.2     | 0.003 (CI = +/-0.025; p = 0.787)  | -0.130                  | +0.29%             |
| Frequency | 2016.1     | 0.009 (CI = +/-0.031; p = 0.526)  | -0.085                  | +0.87%             |
| Frequency | 2016.2     | -0.012 (CI = +/-0.017; p = 0.121) | 0.292                   | -1.19%             |
| Frequency | 2017.1     | -0.007 (CI = +/-0.022; p = 0.447) | -0.062                  | -0.67%             |

**Property Damage**

Coverage = Total PD

End Trend Period = 2022.1

Excluded Points = NA

Parameters Included: time, seasonality

| Implied Trend |            |                                   |                                   |              |        |
|---------------|------------|-----------------------------------|-----------------------------------|--------------|--------|
| Fit           | Start Date | Time                              | Seasonality                       | Adjusted R^2 | Rate   |
| Loss Cost     | 2005.2     | 0.007 (CI = +/-0.010; p = 0.135)  | -0.068 (CI = +/-0.095; p = 0.156) | 0.064        | +0.73% |
| Loss Cost     | 2006.1     | 0.005 (CI = +/-0.010; p = 0.340)  | -0.083 (CI = +/-0.093; p = 0.078) | 0.066        | +0.46% |
| Loss Cost     | 2006.2     | 0.002 (CI = +/-0.010; p = 0.710)  | -0.067 (CI = +/-0.090; p = 0.138) | 0.013        | +0.18% |
| Loss Cost     | 2007.1     | 0.000 (CI = +/-0.010; p = 0.929)  | -0.074 (CI = +/-0.092; p = 0.109) | 0.024        | +0.04% |
| Loss Cost     | 2007.2     | -0.001 (CI = +/-0.011; p = 0.898) | -0.068 (CI = +/-0.095; p = 0.150) | 0.008        | -0.07% |
| Loss Cost     | 2008.1     | -0.001 (CI = +/-0.012; p = 0.821) | -0.071 (CI = +/-0.098; p = 0.146) | 0.010        | -0.13% |
| Loss Cost     | 2008.2     | -0.002 (CI = +/-0.013; p = 0.747) | -0.068 (CI = +/-0.102; p = 0.181) | 0.002        | -0.20% |
| Loss Cost     | 2009.1     | -0.003 (CI = +/-0.014; p = 0.662) | -0.072 (CI = +/-0.105; p = 0.171) | 0.007        | -0.29% |
| Loss Cost     | 2009.2     | -0.004 (CI = +/-0.015; p = 0.566) | -0.067 (CI = +/-0.109; p = 0.220) | 0.001        | -0.41% |
| Loss Cost     | 2010.1     | -0.005 (CI = +/-0.016; p = 0.502) | -0.071 (CI = +/-0.114; p = 0.208) | 0.006        | -0.52% |
| Loss Cost     | 2010.2     | -0.009 (CI = +/-0.017; p = 0.282) | -0.056 (CI = +/-0.115; p = 0.321) | 0.018        | -0.88% |
| Loss Cost     | 2011.1     | -0.011 (CI = +/-0.018; p = 0.225) | -0.064 (CI = +/-0.119; p = 0.278) | 0.036        | -1.07% |
| Loss Cost     | 2011.2     | -0.011 (CI = +/-0.020; p = 0.246) | -0.062 (CI = +/-0.125; p = 0.317) | 0.032        | -1.12% |
| Loss Cost     | 2012.1     | -0.015 (CI = +/-0.021; p = 0.142) | -0.076 (CI = +/-0.127; p = 0.227) | 0.088        | -1.53% |
| Loss Cost     | 2012.2     | -0.021 (CI = +/-0.022; p = 0.068) | -0.057 (CI = +/-0.129; p = 0.361) | 0.138        | -2.04% |
| Loss Cost     | 2013.1     | -0.023 (CI = +/-0.025; p = 0.070) | -0.064 (CI = +/-0.136; p = 0.335) | 0.132        | -2.24% |
| Loss Cost     | 2013.2     | -0.027 (CI = +/-0.027; p = 0.053) | -0.050 (CI = +/-0.142; p = 0.464) | 0.163        | -2.65% |
| Loss Cost     | 2014.1     | -0.028 (CI = +/-0.031; p = 0.073) | -0.053 (CI = +/-0.151; p = 0.468) | 0.126        | -2.75% |
| Loss Cost     | 2014.2     | -0.031 (CI = +/-0.035; p = 0.075) | -0.042 (CI = +/-0.162; p = 0.581) | 0.135        | -3.10% |
| Loss Cost     | 2015.1     | -0.033 (CI = +/-0.040; p = 0.099) | -0.047 (CI = +/-0.175; p = 0.572) | 0.099        | -3.26% |
| Loss Cost     | 2015.2     | -0.036 (CI = +/-0.047; p = 0.128) | -0.041 (CI = +/-0.191; p = 0.650) | 0.083        | -3.49% |
| Loss Cost     | 2016.1     | -0.037 (CI = +/-0.056; p = 0.168) | -0.044 (CI = +/-0.210; p = 0.648) | 0.035        | -3.66% |
| Loss Cost     | 2016.2     | -0.050 (CI = +/-0.065; p = 0.113) | -0.016 (CI = +/-0.224; p = 0.876) | 0.102        | -4.91% |
| Loss Cost     | 2017.1     | -0.057 (CI = +/-0.079; p = 0.135) | -0.027 (CI = +/-0.249; p = 0.807) | 0.076        | -5.50% |
| Severity      | 2005.2     | 0.027 (CI = +/-0.003; p = 0.000)  | -0.038 (CI = +/-0.033; p = 0.028) | 0.887        | +2.71% |
| Severity      | 2006.1     | 0.027 (CI = +/-0.004; p = 0.000)  | -0.038 (CI = +/-0.034; p = 0.033) | 0.879        | +2.71% |
| Severity      | 2006.2     | 0.026 (CI = +/-0.004; p = 0.000)  | -0.036 (CI = +/-0.035; p = 0.047) | 0.865        | +2.68% |
| Severity      | 2007.1     | 0.027 (CI = +/-0.004; p = 0.000)  | -0.036 (CI = +/-0.037; p = 0.056) | 0.856        | +2.69% |
| Severity      | 2007.2     | 0.027 (CI = +/-0.004; p = 0.000)  | -0.039 (CI = +/-0.037; p = 0.039) | 0.854        | +2.76% |
| Severity      | 2008.1     | 0.029 (CI = +/-0.004; p = 0.000)  | -0.032 (CI = +/-0.035; p = 0.069) | 0.880        | +2.92% |
| Severity      | 2008.2     | 0.030 (CI = +/-0.004; p = 0.000)  | -0.038 (CI = +/-0.034; p = 0.027) | 0.892        | +3.05% |
| Severity      | 2009.1     | 0.031 (CI = +/-0.004; p = 0.000)  | -0.033 (CI = +/-0.032; p = 0.049) | 0.904        | +3.18% |
| Severity      | 2009.2     | 0.032 (CI = +/-0.004; p = 0.000)  | -0.036 (CI = +/-0.033; p = 0.032) | 0.902        | +3.27% |
| Severity      | 2010.1     | 0.033 (CI = +/-0.005; p = 0.000)  | -0.033 (CI = +/-0.034; p = 0.052) | 0.900        | +3.34% |
| Severity      | 2010.2     | 0.033 (CI = +/-0.005; p = 0.000)  | -0.035 (CI = +/-0.035; p = 0.053) | 0.889        | +3.37% |
| Severity      | 2011.1     | 0.033 (CI = +/-0.006; p = 0.000)  | -0.036 (CI = +/-0.037; p = 0.055) | 0.876        | +3.34% |
| Severity      | 2011.2     | 0.032 (CI = +/-0.006; p = 0.000)  | -0.034 (CI = +/-0.038; p = 0.082) | 0.855        | +3.29% |
| Severity      | 2012.1     | 0.034 (CI = +/-0.006; p = 0.000)  | -0.030 (CI = +/-0.039; p = 0.131) | 0.856        | +3.41% |
| Severity      | 2012.2     | 0.034 (CI = +/-0.007; p = 0.000)  | -0.031 (CI = +/-0.042; p = 0.138) | 0.836        | +3.44% |
| Severity      | 2013.1     | 0.035 (CI = +/-0.008; p = 0.000)  | -0.026 (CI = +/-0.042; p = 0.213) | 0.838        | +3.60% |
| Severity      | 2013.2     | 0.036 (CI = +/-0.009; p = 0.000)  | -0.028 (CI = +/-0.045; p = 0.215) | 0.814        | +3.65% |
| Severity      | 2014.1     | 0.037 (CI = +/-0.010; p = 0.000)  | -0.024 (CI = +/-0.047; p = 0.303) | 0.808        | +3.79% |
| Severity      | 2014.2     | 0.038 (CI = +/-0.011; p = 0.000)  | -0.024 (CI = +/-0.051; p = 0.321) | 0.773        | +3.82% |
| Severity      | 2015.1     | 0.039 (CI = +/-0.012; p = 0.000)  | -0.020 (CI = +/-0.054; p = 0.443) | 0.769        | +4.03% |
| Severity      | 2015.2     | 0.041 (CI = +/-0.014; p = 0.000)  | -0.023 (CI = +/-0.058; p = 0.396) | 0.739        | +4.19% |
| Severity      | 2016.1     | 0.045 (CI = +/-0.016; p = 0.000)  | -0.015 (CI = +/-0.059; p = 0.591) | 0.764        | +4.60% |
| Severity      | 2016.2     | 0.045 (CI = +/-0.019; p = 0.000)  | -0.015 (CI = +/-0.066; p = 0.616) | 0.706        | +4.63% |
| Severity      | 2017.1     | 0.048 (CI = +/-0.023; p = 0.001)  | -0.010 (CI = +/-0.072; p = 0.767) | 0.686        | +4.95% |
| Frequency     | 2005.2     | -0.019 (CI = +/-0.010; p = 0.000) | -0.030 (CI = +/-0.098; p = 0.532) | 0.305        | -1.93% |
| Frequency     | 2006.1     | -0.022 (CI = +/-0.010; p = 0.000) | -0.045 (CI = +/-0.096; p = 0.344) | 0.375        | -2.19% |
| Frequency     | 2006.2     | -0.025 (CI = +/-0.010; p = 0.000) | -0.031 (CI = +/-0.095; p = 0.505) | 0.426        | -2.44% |
| Frequency     | 2007.1     | -0.026 (CI = +/-0.011; p = 0.000) | -0.039 (CI = +/-0.097; p = 0.421) | 0.435        | -2.57% |
| Frequency     | 2007.2     | -0.028 (CI = +/-0.011; p = 0.000) | -0.029 (CI = +/-0.098; p = 0.550) | 0.456        | -2.75% |
| Frequency     | 2008.1     | -0.030 (CI = +/-0.012; p = 0.000) | -0.039 (CI = +/-0.099; p = 0.423) | 0.481        | -2.96% |
| Frequency     | 2008.2     | -0.032 (CI = +/-0.013; p = 0.000) | -0.030 (CI = +/-0.101; p = 0.551) | 0.497        | -3.15% |
| Frequency     | 2009.1     | -0.034 (CI = +/-0.013; p = 0.000) | -0.039 (CI = +/-0.103; p = 0.436) | 0.512        | -3.36% |
| Frequency     | 2009.2     | -0.036 (CI = +/-0.014; p = 0.000) | -0.030 (CI = +/-0.106; p = 0.558) | 0.522        | -3.56% |
| Frequency     | 2010.1     | -0.038 (CI = +/-0.015; p = 0.000) | -0.038 (CI = +/-0.109; p = 0.478) | 0.519        | -3.73% |
| Frequency     | 2010.2     | -0.042 (CI = +/-0.016; p = 0.000) | -0.021 (CI = +/-0.108; p = 0.685) | 0.564        | -4.11% |
| Frequency     | 2011.1     | -0.044 (CI = +/-0.017; p = 0.000) | -0.028 (CI = +/-0.113; p = 0.613) | 0.551        | -4.27% |
| Frequency     | 2011.2     | -0.044 (CI = +/-0.019; p = 0.000) | -0.028 (CI = +/-0.119; p = 0.630) | 0.518        | -4.27% |
| Frequency     | 2012.1     | -0.049 (CI = +/-0.019; p = 0.000) | -0.046 (CI = +/-0.117; p = 0.416) | 0.576        | -4.77% |
| Frequency     | 2012.2     | -0.055 (CI = +/-0.020; p = 0.000) | -0.027 (CI = +/-0.116; p = 0.634) | 0.625        | -5.31% |
| Frequency     | 2013.1     | -0.058 (CI = +/-0.022; p = 0.000) | -0.038 (CI = +/-0.120; p = 0.516) | 0.625        | -5.63% |
| Frequency     | 2013.2     | -0.063 (CI = +/-0.024; p = 0.000) | -0.022 (CI = +/-0.124; p = 0.704) | 0.640        | -6.08% |
| Frequency     | 2014.1     | -0.065 (CI = +/-0.027; p = 0.000) | -0.029 (CI = +/-0.131; p = 0.642) | 0.614        | -6.30% |
| Frequency     | 2014.2     | -0.069 (CI = +/-0.030; p = 0.000) | -0.018 (CI = +/-0.140; p = 0.785) | 0.604        | -6.67% |
| Frequency     | 2015.1     | -0.073 (CI = +/-0.034; p = 0.001) | -0.027 (CI = +/-0.149; p = 0.700) | 0.580        | -7.00% |
| Frequency     | 2015.2     | -0.077 (CI = +/-0.040; p = 0.001) | -0.017 (CI = +/-0.162; p = 0.820) | 0.555        | -7.37% |
| Frequency     | 2016.1     | -0.082 (CI = +/-0.046; p = 0.003) | -0.030 (CI = +/-0.174; p = 0.712) | 0.535        | -7.90% |
| Frequency     | 2016.2     | -0.096 (CI = +/-0.053; p = 0.003) | -0.001 (CI = +/-0.181; p = 0.993) | 0.582        | -9.12% |
| Frequency     | 2017.1     | -0.105 (CI = +/-0.062; p = 0.005) | -0.018 (CI = +/-0.197; p = 0.841) | 0.570        | -9.95% |

**Property Damage**

Coverage = Total PD

End Trend Period = 2021.2

Excluded Points = NA

Parameters Included: time, seasonality

|           |            |                                   |                                   |              | Implied Trend |
|-----------|------------|-----------------------------------|-----------------------------------|--------------|---------------|
| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R^2 | Rate          |
| Loss Cost | 2005.2     | 0.007 (CI = +/-0.010; p = 0.203)  | -0.072 (CI = +/-0.098; p = 0.143) | 0.058        | +0.66%        |
| Loss Cost | 2006.1     | 0.004 (CI = +/-0.010; p = 0.491)  | -0.089 (CI = +/-0.095; p = 0.066) | 0.069        | +0.35%        |
| Loss Cost | 2006.2     | 0.001 (CI = +/-0.010; p = 0.912)  | -0.074 (CI = +/-0.092; p = 0.113) | 0.023        | +0.06%        |
| Loss Cost | 2007.1     | -0.001 (CI = +/-0.011; p = 0.843) | -0.082 (CI = +/-0.094; p = 0.085) | 0.040        | -0.11%        |
| Loss Cost | 2007.2     | -0.002 (CI = +/-0.012; p = 0.687) | -0.076 (CI = +/-0.096; p = 0.117) | 0.027        | -0.23%        |
| Loss Cost | 2008.1     | -0.003 (CI = +/-0.012; p = 0.605) | -0.080 (CI = +/-0.100; p = 0.111) | 0.032        | -0.31%        |
| Loss Cost | 2008.2     | -0.004 (CI = +/-0.013; p = 0.547) | -0.077 (CI = +/-0.104; p = 0.140) | 0.026        | -0.39%        |
| Loss Cost | 2009.1     | -0.005 (CI = +/-0.014; p = 0.461) | -0.082 (CI = +/-0.108; p = 0.127) | 0.036        | -0.52%        |
| Loss Cost | 2009.2     | -0.007 (CI = +/-0.015; p = 0.390) | -0.077 (CI = +/-0.112; p = 0.168) | 0.032        | -0.65%        |
| Loss Cost | 2010.1     | -0.008 (CI = +/-0.017; p = 0.327) | -0.083 (CI = +/-0.116; p = 0.151) | 0.043        | -0.81%        |
| Loss Cost | 2010.2     | -0.012 (CI = +/-0.018; p = 0.170) | -0.068 (CI = +/-0.117; p = 0.236) | 0.065        | -1.19%        |
| Loss Cost | 2011.1     | -0.015 (CI = +/-0.019; p = 0.122) | -0.079 (CI = +/-0.121; p = 0.188) | 0.094        | -1.46%        |
| Loss Cost | 2011.2     | -0.015 (CI = +/-0.021; p = 0.138) | -0.076 (CI = +/-0.127; p = 0.224) | 0.091        | -1.54%        |
| Loss Cost | 2012.1     | -0.021 (CI = +/-0.022; p = 0.063) | -0.095 (CI = +/-0.128; p = 0.135) | 0.172        | -2.07%        |
| Loss Cost | 2012.2     | -0.027 (CI = +/-0.023; p = 0.027) | -0.077 (CI = +/-0.128; p = 0.220) | 0.237        | -2.65%        |
| Loss Cost | 2013.1     | -0.030 (CI = +/-0.026; p = 0.025) | -0.088 (CI = +/-0.134; p = 0.184) | 0.247        | -2.98%        |
| Loss Cost | 2013.2     | -0.035 (CI = +/-0.028; p = 0.018) | -0.074 (CI = +/-0.139; p = 0.274) | 0.287        | -3.47%        |
| Loss Cost | 2014.1     | -0.038 (CI = +/-0.032; p = 0.024) | -0.082 (CI = +/-0.149; p = 0.255) | 0.264        | -3.75%        |
| Loss Cost | 2014.2     | -0.043 (CI = +/-0.037; p = 0.025) | -0.071 (CI = +/-0.158; p = 0.349) | 0.281        | -4.19%        |
| Loss Cost | 2015.1     | -0.048 (CI = +/-0.042; p = 0.031) | -0.083 (CI = +/-0.171; p = 0.309) | 0.266        | -4.66%        |
| Loss Cost | 2015.2     | -0.051 (CI = +/-0.050; p = 0.044) | -0.075 (CI = +/-0.186; p = 0.391) | 0.256        | -5.01%        |
| Loss Cost | 2016.1     | -0.058 (CI = +/-0.060; p = 0.054) | -0.090 (CI = +/-0.206; p = 0.347) | 0.235        | -5.68%        |
| Loss Cost | 2016.2     | -0.075 (CI = +/-0.067; p = 0.033) | -0.060 (CI = +/-0.212; p = 0.530) | 0.336        | -7.19%        |
| Loss Cost | 2017.1     | -0.092 (CI = +/-0.080; p = 0.030) | -0.093 (CI = +/-0.231; p = 0.374) | 0.383        | -8.81%        |
|           |            |                                   |                                   |              |               |
| Severity  | 2005.2     | 0.025 (CI = +/-0.003; p = 0.000)  | -0.048 (CI = +/-0.024; p = 0.000) | 0.927        | +2.51%        |
| Severity  | 2006.1     | 0.025 (CI = +/-0.003; p = 0.000)  | -0.050 (CI = +/-0.025; p = 0.000) | 0.922        | +2.49%        |
| Severity  | 2006.2     | 0.024 (CI = +/-0.003; p = 0.000)  | -0.048 (CI = +/-0.026; p = 0.001) | 0.912        | +2.45%        |
| Severity  | 2007.1     | 0.024 (CI = +/-0.003; p = 0.000)  | -0.048 (CI = +/-0.027; p = 0.001) | 0.906        | +2.43%        |
| Severity  | 2007.2     | 0.025 (CI = +/-0.003; p = 0.000)  | -0.052 (CI = +/-0.027; p = 0.000) | 0.906        | +2.50%        |
| Severity  | 2008.1     | 0.026 (CI = +/-0.003; p = 0.000)  | -0.045 (CI = +/-0.024; p = 0.001) | 0.931        | +2.64%        |
| Severity  | 2008.2     | 0.027 (CI = +/-0.003; p = 0.000)  | -0.050 (CI = +/-0.021; p = 0.000) | 0.948        | +2.77%        |
| Severity  | 2009.1     | 0.028 (CI = +/-0.003; p = 0.000)  | -0.046 (CI = +/-0.019; p = 0.000) | 0.959        | +2.88%        |
| Severity  | 2009.2     | 0.029 (CI = +/-0.003; p = 0.000)  | -0.049 (CI = +/-0.018; p = 0.000) | 0.961        | +2.96%        |
| Severity  | 2010.1     | 0.030 (CI = +/-0.003; p = 0.000)  | -0.047 (CI = +/-0.019; p = 0.000) | 0.959        | +3.00%        |
| Severity  | 2010.2     | 0.030 (CI = +/-0.003; p = 0.000)  | -0.048 (CI = +/-0.020; p = 0.000) | 0.954        | +3.02%        |
| Severity  | 2011.1     | 0.029 (CI = +/-0.003; p = 0.000)  | -0.051 (CI = +/-0.020; p = 0.000) | 0.953        | +2.93%        |
| Severity  | 2011.2     | 0.028 (CI = +/-0.003; p = 0.000)  | -0.048 (CI = +/-0.020; p = 0.000) | 0.947        | +2.86%        |
| Severity  | 2012.1     | 0.029 (CI = +/-0.003; p = 0.000)  | -0.046 (CI = +/-0.020; p = 0.000) | 0.947        | +2.93%        |
| Severity  | 2012.2     | 0.029 (CI = +/-0.004; p = 0.000)  | -0.046 (CI = +/-0.021; p = 0.000) | 0.937        | +2.94%        |
| Severity  | 2013.1     | 0.030 (CI = +/-0.004; p = 0.000)  | -0.044 (CI = +/-0.022; p = 0.001) | 0.937        | +3.03%        |
| Severity  | 2013.2     | 0.030 (CI = +/-0.005; p = 0.000)  | -0.044 (CI = +/-0.024; p = 0.001) | 0.924        | +3.05%        |
| Severity  | 2014.1     | 0.030 (CI = +/-0.005; p = 0.000)  | -0.043 (CI = +/-0.025; p = 0.003) | 0.917        | +3.09%        |
| Severity  | 2014.2     | 0.030 (CI = +/-0.006; p = 0.000)  | -0.043 (CI = +/-0.027; p = 0.005) | 0.895        | +3.08%        |
| Severity  | 2015.1     | 0.031 (CI = +/-0.007; p = 0.000)  | -0.041 (CI = +/-0.030; p = 0.011) | 0.886        | +3.14%        |
| Severity  | 2015.2     | 0.032 (CI = +/-0.009; p = 0.000)  | -0.043 (CI = +/-0.032; p = 0.013) | 0.864        | +3.25%        |
| Severity  | 2016.1     | 0.034 (CI = +/-0.010; p = 0.000)  | -0.038 (CI = +/-0.033; p = 0.031) | 0.875        | +3.50%        |
| Severity  | 2016.2     | 0.034 (CI = +/-0.012; p = 0.000)  | -0.036 (CI = +/-0.037; p = 0.054) | 0.825        | +3.43%        |
| Severity  | 2017.1     | 0.034 (CI = +/-0.015; p = 0.001)  | -0.037 (CI = +/-0.043; p = 0.085) | 0.793        | +3.41%        |
|           |            |                                   |                                   |              |               |
| Frequency | 2005.2     | -0.018 (CI = +/-0.011; p = 0.001) | -0.024 (CI = +/-0.100; p = 0.632) | 0.253        | -1.81%        |
| Frequency | 2006.1     | -0.021 (CI = +/-0.011; p = 0.000) | -0.039 (CI = +/-0.098; p = 0.421) | 0.322        | -2.09%        |
| Frequency | 2006.2     | -0.024 (CI = +/-0.011; p = 0.000) | -0.026 (CI = +/-0.097; p = 0.588) | 0.377        | -2.34%        |
| Frequency | 2007.1     | -0.025 (CI = +/-0.012; p = 0.000) | -0.034 (CI = +/-0.100; p = 0.496) | 0.385        | -2.48%        |
| Frequency | 2007.2     | -0.027 (CI = +/-0.012; p = 0.000) | -0.024 (CI = +/-0.101; p = 0.625) | 0.408        | -2.66%        |
| Frequency | 2008.1     | -0.029 (CI = +/-0.013; p = 0.000) | -0.035 (CI = +/-0.103; p = 0.485) | 0.433        | -2.88%        |
| Frequency | 2008.2     | -0.031 (CI = +/-0.013; p = 0.000) | -0.026 (CI = +/-0.105; p = 0.610) | 0.450        | -3.08%        |
| Frequency | 2009.1     | -0.034 (CI = +/-0.014; p = 0.000) | -0.037 (CI = +/-0.107; p = 0.485) | 0.466        | -3.31%        |
| Frequency | 2009.2     | -0.036 (CI = +/-0.015; p = 0.000) | -0.028 (CI = +/-0.110; p = 0.601) | 0.477        | -3.51%        |
| Frequency | 2010.1     | -0.038 (CI = +/-0.016; p = 0.000) | -0.036 (CI = +/-0.114; p = 0.515) | 0.474        | -3.70%        |
| Frequency | 2010.2     | -0.042 (CI = +/-0.017; p = 0.000) | -0.021 (CI = +/-0.114; p = 0.708) | 0.523        | -4.09%        |
| Frequency | 2011.1     | -0.044 (CI = +/-0.019; p = 0.000) | -0.028 (CI = +/-0.119; p = 0.629) | 0.510        | -4.27%        |
| Frequency | 2011.2     | -0.044 (CI = +/-0.021; p = 0.000) | -0.028 (CI = +/-0.125; p = 0.645) | 0.473        | -4.27%        |
| Frequency | 2012.1     | -0.050 (CI = +/-0.021; p = 0.000) | -0.049 (CI = +/-0.124; p = 0.411) | 0.538        | -4.86%        |
| Frequency | 2012.2     | -0.056 (CI = +/-0.022; p = 0.000) | -0.031 (CI = +/-0.123; p = 0.603) | 0.593        | -5.43%        |
| Frequency | 2013.1     | -0.060 (CI = +/-0.025; p = 0.000) | -0.044 (CI = +/-0.128; p = 0.470) | 0.597        | -5.83%        |
| Frequency | 2013.2     | -0.065 (CI = +/-0.027; p = 0.000) | -0.030 (CI = +/-0.131; p = 0.634) | 0.617        | -6.32%        |
| Frequency | 2014.1     | -0.069 (CI = +/-0.030; p = 0.000) | -0.039 (CI = +/-0.140; p = 0.555) | 0.593        | -6.64%        |
| Frequency | 2014.2     | -0.073 (CI = +/-0.034; p = 0.001) | -0.028 (CI = +/-0.148; p = 0.686) | 0.586        | -7.05%        |
| Frequency | 2015.1     | -0.079 (CI = +/-0.040; p = 0.001) | -0.042 (CI = +/-0.159; p = 0.573) | 0.569        | -7.56%        |
| Frequency | 2015.2     | -0.083 (CI = +/-0.046; p = 0.002) | -0.032 (CI = +/-0.172; p = 0.690) | 0.547        | -8.00%        |
| Frequency | 2016.1     | -0.093 (CI = +/-0.054; p = 0.004) | -0.052 (CI = +/-0.187; p = 0.541) | 0.544        | -8.87%        |
| Frequency | 2016.2     | -0.108 (CI = +/-0.060; p = 0.003) | -0.024 (CI = +/-0.191; p = 0.778) | 0.606        | -10.27%       |
| Frequency | 2017.1     | -0.126 (CI = +/-0.071; p = 0.004) | -0.056 (CI = +/-0.204; p = 0.537) | 0.633        | -11.82%       |

**Property Damage**

Coverage = Total PD  
 End Trend Period = 2022.1  
 Excluded Points = NA  
 Parameters Included: time

| Fit       | Start Date | Time                              | Adjusted R <sup>2</sup> | Implied Trend Rate |
|-----------|------------|-----------------------------------|-------------------------|--------------------|
| Loss Cost | 2005.2     | 0.007 (CI = +/-0.010; p = 0.160)  | 0.031                   | +0.70%             |
| Loss Cost | 2006.1     | 0.005 (CI = +/-0.010; p = 0.357)  | -0.004                  | +0.46%             |
| Loss Cost | 2006.2     | 0.001 (CI = +/-0.010; p = 0.776)  | -0.030                  | +0.14%             |
| Loss Cost | 2007.1     | 0.000 (CI = +/-0.011; p = 0.931)  | -0.034                  | +0.04%             |
| Loss Cost | 2007.2     | -0.001 (CI = +/-0.011; p = 0.835) | -0.034                  | -0.11%             |
| Loss Cost | 2008.1     | -0.001 (CI = +/-0.012; p = 0.825) | -0.035                  | -0.13%             |
| Loss Cost | 2008.2     | -0.003 (CI = +/-0.013; p = 0.689) | -0.032                  | -0.25%             |
| Loss Cost | 2009.1     | -0.003 (CI = +/-0.014; p = 0.668) | -0.032                  | -0.29%             |
| Loss Cost | 2009.2     | -0.005 (CI = +/-0.015; p = 0.516) | -0.023                  | -0.47%             |
| Loss Cost | 2010.1     | -0.005 (CI = +/-0.016; p = 0.508) | -0.023                  | -0.52%             |
| Loss Cost | 2010.2     | -0.009 (CI = +/-0.016; p = 0.251) | 0.017                   | -0.93%             |
| Loss Cost | 2011.1     | -0.011 (CI = +/-0.018; p = 0.227) | 0.024                   | -1.07%             |
| Loss Cost | 2011.2     | -0.012 (CI = +/-0.020; p = 0.215) | 0.029                   | -1.20%             |
| Loss Cost | 2012.1     | -0.015 (CI = +/-0.021; p = 0.146) | 0.061                   | -1.53%             |
| Loss Cost | 2012.2     | -0.022 (CI = +/-0.022; p = 0.056) | 0.144                   | -2.13%             |
| Loss Cost | 2013.1     | -0.023 (CI = +/-0.025; p = 0.069) | 0.133                   | -2.24%             |
| Loss Cost | 2013.2     | -0.028 (CI = +/-0.027; p = 0.042) | 0.186                   | -2.74%             |
| Loss Cost | 2014.1     | -0.028 (CI = +/-0.030; p = 0.068) | 0.152                   | -2.75%             |
| Loss Cost | 2014.2     | -0.032 (CI = +/-0.034; p = 0.059) | 0.177                   | -3.20%             |
| Loss Cost | 2015.1     | -0.033 (CI = +/-0.039; p = 0.089) | 0.145                   | -3.26%             |
| Loss Cost | 2015.2     | -0.037 (CI = +/-0.045; p = 0.101) | 0.142                   | -3.61%             |
| Loss Cost | 2016.1     | -0.037 (CI = +/-0.053; p = 0.151) | 0.103                   | -3.66%             |
| Loss Cost | 2016.2     | -0.051 (CI = +/-0.060; p = 0.088) | 0.190                   | -4.98%             |
| Loss Cost | 2017.1     | -0.057 (CI = +/-0.073; p = 0.113) | 0.172                   | -5.50%             |
| Severity  | 2005.2     | 0.027 (CI = +/-0.004; p = 0.000)  | 0.872                   | +2.69%             |
| Severity  | 2006.1     | 0.027 (CI = +/-0.004; p = 0.000)  | 0.863                   | +2.71%             |
| Severity  | 2006.2     | 0.026 (CI = +/-0.004; p = 0.000)  | 0.850                   | +2.66%             |
| Severity  | 2007.1     | 0.027 (CI = +/-0.004; p = 0.000)  | 0.841                   | +2.69%             |
| Severity  | 2007.2     | 0.027 (CI = +/-0.005; p = 0.000)  | 0.834                   | +2.73%             |
| Severity  | 2008.1     | 0.029 (CI = +/-0.004; p = 0.000)  | 0.868                   | +2.92%             |
| Severity  | 2008.2     | 0.030 (CI = +/-0.004; p = 0.000)  | 0.873                   | +3.02%             |
| Severity  | 2009.1     | 0.031 (CI = +/-0.004; p = 0.000)  | 0.891                   | +3.18%             |
| Severity  | 2009.2     | 0.032 (CI = +/-0.005; p = 0.000)  | 0.884                   | +3.23%             |
| Severity  | 2010.1     | 0.033 (CI = +/-0.005; p = 0.000)  | 0.886                   | +3.34%             |
| Severity  | 2010.2     | 0.033 (CI = +/-0.005; p = 0.000)  | 0.873                   | +3.34%             |
| Severity  | 2011.1     | 0.033 (CI = +/-0.006; p = 0.000)  | 0.858                   | +3.34%             |
| Severity  | 2011.2     | 0.032 (CI = +/-0.006; p = 0.000)  | 0.837                   | +3.24%             |
| Severity  | 2012.1     | 0.034 (CI = +/-0.007; p = 0.000)  | 0.845                   | +3.41%             |
| Severity  | 2012.2     | 0.033 (CI = +/-0.007; p = 0.000)  | 0.823                   | +3.40%             |
| Severity  | 2013.1     | 0.035 (CI = +/-0.008; p = 0.000)  | 0.832                   | +3.60%             |
| Severity  | 2013.2     | 0.035 (CI = +/-0.009; p = 0.000)  | 0.807                   | +3.60%             |
| Severity  | 2014.1     | 0.037 (CI = +/-0.010; p = 0.000)  | 0.806                   | +3.79%             |
| Severity  | 2014.2     | 0.037 (CI = +/-0.011; p = 0.000)  | 0.772                   | +3.76%             |
| Severity  | 2015.1     | 0.039 (CI = +/-0.012; p = 0.000)  | 0.775                   | +4.03%             |
| Severity  | 2015.2     | 0.040 (CI = +/-0.014; p = 0.000)  | 0.744                   | +4.11%             |
| Severity  | 2016.1     | 0.045 (CI = +/-0.015; p = 0.000)  | 0.779                   | +4.60%             |
| Severity  | 2016.2     | 0.045 (CI = +/-0.018; p = 0.000)  | 0.727                   | +4.56%             |
| Severity  | 2017.1     | 0.048 (CI = +/-0.021; p = 0.001)  | 0.718                   | +4.95%             |
| Frequency | 2005.2     | -0.020 (CI = +/-0.010; p = 0.000) | 0.318                   | -1.94%             |
| Frequency | 2006.1     | -0.022 (CI = +/-0.010; p = 0.000) | 0.376                   | -2.19%             |
| Frequency | 2006.2     | -0.025 (CI = +/-0.010; p = 0.000) | 0.437                   | -2.45%             |
| Frequency | 2007.1     | -0.026 (CI = +/-0.011; p = 0.000) | 0.442                   | -2.57%             |
| Frequency | 2007.2     | -0.028 (CI = +/-0.011; p = 0.000) | 0.468                   | -2.77%             |
| Frequency | 2008.1     | -0.030 (CI = +/-0.012; p = 0.000) | 0.487                   | -2.96%             |
| Frequency | 2008.2     | -0.032 (CI = +/-0.012; p = 0.000) | 0.509                   | -3.18%             |
| Frequency | 2009.1     | -0.034 (CI = +/-0.013; p = 0.000) | 0.520                   | -3.36%             |
| Frequency | 2009.2     | -0.037 (CI = +/-0.014; p = 0.000) | 0.535                   | -3.58%             |
| Frequency | 2010.1     | -0.038 (CI = +/-0.015; p = 0.000) | 0.529                   | -3.73%             |
| Frequency | 2010.2     | -0.042 (CI = +/-0.015; p = 0.000) | 0.580                   | -4.13%             |
| Frequency | 2011.1     | -0.044 (CI = +/-0.017; p = 0.000) | 0.567                   | -4.27%             |
| Frequency | 2011.2     | -0.044 (CI = +/-0.018; p = 0.000) | 0.536                   | -4.30%             |
| Frequency | 2012.1     | -0.049 (CI = +/-0.019; p = 0.000) | 0.583                   | -4.77%             |
| Frequency | 2012.2     | -0.055 (CI = +/-0.020; p = 0.000) | 0.641                   | -5.34%             |
| Frequency | 2013.1     | -0.058 (CI = +/-0.021; p = 0.000) | 0.637                   | -5.63%             |
| Frequency | 2013.2     | -0.063 (CI = +/-0.023; p = 0.000) | 0.660                   | -6.12%             |
| Frequency | 2014.1     | -0.065 (CI = +/-0.026; p = 0.000) | 0.634                   | -6.30%             |
| Frequency | 2014.2     | -0.069 (CI = +/-0.029; p = 0.000) | 0.630                   | -6.71%             |
| Frequency | 2015.1     | -0.073 (CI = +/-0.033; p = 0.000) | 0.607                   | -7.00%             |
| Frequency | 2015.2     | -0.077 (CI = +/-0.038; p = 0.001) | 0.590                   | -7.42%             |
| Frequency | 2016.1     | -0.082 (CI = +/-0.044; p = 0.002) | 0.571                   | -7.90%             |
| Frequency | 2016.2     | -0.096 (CI = +/-0.049; p = 0.001) | 0.624                   | -9.12%             |
| Frequency | 2017.1     | -0.105 (CI = +/-0.057; p = 0.003) | 0.616                   | -9.95%             |

**Property Damage**

Coverage = Total PD  
 End Trend Period = 2021.2  
 Excluded Points = NA  
 Parameters Included: time

| Fit       | Start Date | Time                              | Adjusted R <sup>2</sup> | Implied Trend Rate |
|-----------|------------|-----------------------------------|-------------------------|--------------------|
| Loss Cost | 2005.2     | 0.007 (CI = +/-0.010; p = 0.211)  | 0.019                   | +0.66%             |
| Loss Cost | 2006.1     | 0.004 (CI = +/-0.011; p = 0.448)  | -0.013                  | +0.40%             |
| Loss Cost | 2006.2     | 0.001 (CI = +/-0.011; p = 0.914)  | -0.034                  | +0.06%             |
| Loss Cost | 2007.1     | -0.001 (CI = +/-0.011; p = 0.927) | -0.035                  | -0.05%             |
| Loss Cost | 2007.2     | -0.002 (CI = +/-0.012; p = 0.695) | -0.031                  | -0.23%             |
| Loss Cost | 2008.1     | -0.003 (CI = +/-0.013; p = 0.685) | -0.032                  | -0.25%             |
| Loss Cost | 2008.2     | -0.004 (CI = +/-0.014; p = 0.557) | -0.025                  | -0.39%             |
| Loss Cost | 2009.1     | -0.004 (CI = +/-0.015; p = 0.537) | -0.025                  | -0.45%             |
| Loss Cost | 2009.2     | -0.007 (CI = +/-0.016; p = 0.399) | -0.011                  | -0.65%             |
| Loss Cost | 2010.1     | -0.007 (CI = +/-0.017; p = 0.391) | -0.010                  | -0.72%             |
| Loss Cost | 2010.2     | -0.012 (CI = +/-0.018; p = 0.174) | 0.043                   | -1.19%             |
| Loss Cost | 2011.1     | -0.014 (CI = +/-0.019; p = 0.153) | 0.054                   | -1.37%             |
| Loss Cost | 2011.2     | -0.015 (CI = +/-0.021; p = 0.143) | 0.063                   | -1.54%             |
| Loss Cost | 2012.1     | -0.020 (CI = +/-0.023; p = 0.090) | 0.104                   | -1.93%             |
| Loss Cost | 2012.2     | -0.027 (CI = +/-0.024; p = 0.028) | 0.209                   | -2.65%             |
| Loss Cost | 2013.1     | -0.029 (CI = +/-0.026; p = 0.035) | 0.202                   | -2.83%             |
| Loss Cost | 2013.2     | -0.035 (CI = +/-0.028; p = 0.018) | 0.273                   | -3.47%             |
| Loss Cost | 2014.1     | -0.036 (CI = +/-0.032; p = 0.031) | 0.242                   | -3.57%             |
| Loss Cost | 2014.2     | -0.043 (CI = +/-0.036; p = 0.024) | 0.284                   | -4.19%             |
| Loss Cost | 2015.1     | -0.045 (CI = +/-0.042; p = 0.037) | 0.257                   | -4.41%             |
| Loss Cost | 2015.2     | -0.051 (CI = +/-0.049; p = 0.040) | 0.269                   | -5.01%             |
| Loss Cost | 2016.1     | -0.055 (CI = +/-0.058; p = 0.062) | 0.237                   | -5.32%             |
| Loss Cost | 2016.2     | -0.075 (CI = +/-0.063; p = 0.026) | 0.378                   | -7.19%             |
| Loss Cost | 2017.1     | -0.087 (CI = +/-0.077; p = 0.031) | 0.391                   | -8.30%             |
| Severity  | 2005.2     | 0.025 (CI = +/-0.003; p = 0.000)  | 0.890                   | +2.51%             |
| Severity  | 2006.1     | 0.025 (CI = +/-0.003; p = 0.000)  | 0.882                   | +2.52%             |
| Severity  | 2006.2     | 0.024 (CI = +/-0.003; p = 0.000)  | 0.872                   | +2.45%             |
| Severity  | 2007.1     | 0.024 (CI = +/-0.004; p = 0.000)  | 0.862                   | +2.47%             |
| Severity  | 2007.2     | 0.025 (CI = +/-0.004; p = 0.000)  | 0.854                   | +2.50%             |
| Severity  | 2008.1     | 0.026 (CI = +/-0.004; p = 0.000)  | 0.893                   | +2.68%             |
| Severity  | 2008.2     | 0.027 (CI = +/-0.004; p = 0.000)  | 0.897                   | +2.77%             |
| Severity  | 2009.1     | 0.029 (CI = +/-0.004; p = 0.000)  | 0.918                   | +2.93%             |
| Severity  | 2009.2     | 0.029 (CI = +/-0.004; p = 0.000)  | 0.911                   | +2.96%             |
| Severity  | 2010.1     | 0.030 (CI = +/-0.004; p = 0.000)  | 0.913                   | +3.05%             |
| Severity  | 2010.2     | 0.030 (CI = +/-0.004; p = 0.000)  | 0.901                   | +3.02%             |
| Severity  | 2011.1     | 0.030 (CI = +/-0.005; p = 0.000)  | 0.887                   | +3.00%             |
| Severity  | 2011.2     | 0.028 (CI = +/-0.005; p = 0.000)  | 0.875                   | +2.86%             |
| Severity  | 2012.1     | 0.030 (CI = +/-0.005; p = 0.000)  | 0.883                   | +3.00%             |
| Severity  | 2012.2     | 0.029 (CI = +/-0.006; p = 0.000)  | 0.863                   | +2.94%             |
| Severity  | 2013.1     | 0.031 (CI = +/-0.006; p = 0.000)  | 0.872                   | +3.11%             |
| Severity  | 2013.2     | 0.030 (CI = +/-0.007; p = 0.000)  | 0.847                   | +3.05%             |
| Severity  | 2014.1     | 0.031 (CI = +/-0.007; p = 0.000)  | 0.844                   | +3.19%             |
| Severity  | 2014.2     | 0.030 (CI = +/-0.008; p = 0.000)  | 0.810                   | +3.08%             |
| Severity  | 2015.1     | 0.032 (CI = +/-0.009; p = 0.000)  | 0.808                   | +3.27%             |
| Severity  | 2015.2     | 0.032 (CI = +/-0.011; p = 0.000)  | 0.766                   | +3.25%             |
| Severity  | 2016.1     | 0.036 (CI = +/-0.012; p = 0.000)  | 0.806                   | +3.66%             |
| Severity  | 2016.2     | 0.034 (CI = +/-0.014; p = 0.000)  | 0.745                   | +3.43%             |
| Severity  | 2017.1     | 0.036 (CI = +/-0.017; p = 0.001)  | 0.716                   | +3.64%             |
| Frequency | 2005.2     | -0.018 (CI = +/-0.010; p = 0.001) | 0.271                   | -1.81%             |
| Frequency | 2006.1     | -0.021 (CI = +/-0.011; p = 0.000) | 0.330                   | -2.06%             |
| Frequency | 2006.2     | -0.024 (CI = +/-0.011; p = 0.000) | 0.392                   | -2.34%             |
| Frequency | 2007.1     | -0.025 (CI = +/-0.011; p = 0.000) | 0.397                   | -2.46%             |
| Frequency | 2007.2     | -0.027 (CI = +/-0.012; p = 0.000) | 0.424                   | -2.66%             |
| Frequency | 2008.1     | -0.029 (CI = +/-0.013; p = 0.000) | 0.443                   | -2.86%             |
| Frequency | 2008.2     | -0.031 (CI = +/-0.013; p = 0.000) | 0.466                   | -3.08%             |
| Frequency | 2009.1     | -0.033 (CI = +/-0.014; p = 0.000) | 0.477                   | -3.28%             |
| Frequency | 2009.2     | -0.036 (CI = +/-0.015; p = 0.000) | 0.493                   | -3.51%             |
| Frequency | 2010.1     | -0.037 (CI = +/-0.016; p = 0.000) | 0.487                   | -3.66%             |
| Frequency | 2010.2     | -0.042 (CI = +/-0.017; p = 0.000) | 0.542                   | -4.09%             |
| Frequency | 2011.1     | -0.043 (CI = +/-0.018; p = 0.000) | 0.528                   | -4.24%             |
| Frequency | 2011.2     | -0.044 (CI = +/-0.020; p = 0.000) | 0.495                   | -4.27%             |
| Frequency | 2012.1     | -0.049 (CI = +/-0.021; p = 0.000) | 0.546                   | -4.79%             |
| Frequency | 2012.2     | -0.056 (CI = +/-0.022; p = 0.000) | 0.611                   | -5.43%             |
| Frequency | 2013.1     | -0.059 (CI = +/-0.024; p = 0.000) | 0.609                   | -5.76%             |
| Frequency | 2013.2     | -0.065 (CI = +/-0.026; p = 0.000) | 0.636                   | -6.32%             |
| Frequency | 2014.1     | -0.068 (CI = +/-0.029; p = 0.000) | 0.612                   | -6.55%             |
| Frequency | 2014.2     | -0.073 (CI = +/-0.033; p = 0.000) | 0.612                   | -7.05%             |
| Frequency | 2015.1     | -0.077 (CI = +/-0.038; p = 0.001) | 0.593                   | -7.44%             |
| Frequency | 2015.2     | -0.083 (CI = +/-0.044; p = 0.001) | 0.581                   | -8.00%             |
| Frequency | 2016.1     | -0.091 (CI = +/-0.051; p = 0.003) | 0.571                   | -8.67%             |
| Frequency | 2016.2     | -0.108 (CI = +/-0.056; p = 0.002) | 0.646                   | -10.27%            |
| Frequency | 2017.1     | -0.122 (CI = +/-0.066; p = 0.003) | 0.659                   | -11.52%            |

**Property Damage**

Coverage = Total PD

End Trend Period = 2019.2

Excluded Points = NA

Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R <sup>2</sup> | Implied Trend |
|-----------|------------|-----------------------------------|-----------------------------------|-------------------------|---------------|
|           |            |                                   |                                   |                         | Rate          |
| Loss Cost | 2005.2     | 0.022 (CI = +/-0.007; p = 0.000)  | -0.060 (CI = +/-0.055; p = 0.033) | 0.639                   | +2.19%        |
| Loss Cost | 2006.1     | 0.019 (CI = +/-0.006; p = 0.000)  | -0.073 (CI = +/-0.050; p = 0.006) | 0.650                   | +1.92%        |
| Loss Cost | 2006.2     | 0.016 (CI = +/-0.005; p = 0.000)  | -0.060 (CI = +/-0.043; p = 0.008) | 0.627                   | +1.63%        |
| Loss Cost | 2007.1     | 0.015 (CI = +/-0.006; p = 0.000)  | -0.064 (CI = +/-0.044; p = 0.007) | 0.609                   | +1.56%        |
| Loss Cost | 2007.2     | 0.015 (CI = +/-0.006; p = 0.000)  | -0.062 (CI = +/-0.046; p = 0.010) | 0.556                   | +1.52%        |
| Loss Cost | 2008.1     | 0.016 (CI = +/-0.007; p = 0.000)  | -0.059 (CI = +/-0.048; p = 0.017) | 0.556                   | +1.58%        |
| Loss Cost | 2008.2     | 0.016 (CI = +/-0.008; p = 0.000)  | -0.061 (CI = +/-0.050; p = 0.019) | 0.527                   | +1.62%        |
| Loss Cost | 2009.1     | 0.017 (CI = +/-0.008; p = 0.000)  | -0.059 (CI = +/-0.053; p = 0.029) | 0.522                   | +1.67%        |
| Loss Cost | 2009.2     | 0.017 (CI = +/-0.009; p = 0.001)  | -0.059 (CI = +/-0.055; p = 0.037) | 0.470                   | +1.68%        |
| Loss Cost | 2010.1     | 0.017 (CI = +/-0.010; p = 0.002)  | -0.057 (CI = +/-0.058; p = 0.055) | 0.466                   | +1.74%        |
| Loss Cost | 2010.2     | 0.014 (CI = +/-0.010; p = 0.011)  | -0.047 (CI = +/-0.056; p = 0.099) | 0.344                   | +1.41%        |
| Loss Cost | 2011.1     | 0.014 (CI = +/-0.012; p = 0.024)  | -0.048 (CI = +/-0.060; p = 0.112) | 0.321                   | +1.37%        |
| Loss Cost | 2011.2     | 0.016 (CI = +/-0.013; p = 0.021)  | -0.053 (CI = +/-0.063; p = 0.092) | 0.334                   | +1.57%        |
| Loss Cost | 2012.1     | 0.012 (CI = +/-0.014; p = 0.085)  | -0.063 (CI = +/-0.064; p = 0.052) | 0.319                   | +1.20%        |
| Loss Cost | 2012.2     | 0.006 (CI = +/-0.014; p = 0.319)  | -0.050 (CI = +/-0.059; p = 0.090) | 0.151                   | +0.65%        |
| Loss Cost | 2013.1     | 0.007 (CI = +/-0.016; p = 0.344)  | -0.048 (CI = +/-0.064; p = 0.129) | 0.142                   | +0.72%        |
| Loss Cost | 2013.2     | 0.004 (CI = +/-0.018; p = 0.670)  | -0.040 (CI = +/-0.067; p = 0.211) | -0.002                  | +0.35%        |
| Loss Cost | 2014.1     | 0.008 (CI = +/-0.021; p = 0.431)  | -0.031 (CI = +/-0.072; p = 0.350) | -0.006                  | +0.76%        |
| Loss Cost | 2014.2     | 0.006 (CI = +/-0.025; p = 0.612)  | -0.028 (CI = +/-0.080; p = 0.443) | -0.120                  | +0.58%        |
| Loss Cost | 2015.1     | 0.011 (CI = +/-0.031; p = 0.435)  | -0.019 (CI = +/-0.089; p = 0.639) | -0.111                  | +1.09%        |
| Loss Cost | 2015.2     | 0.013 (CI = +/-0.040; p = 0.460)  | -0.022 (CI = +/-0.104; p = 0.629) | -0.162                  | +1.30%        |
| Loss Cost | 2016.1     | 0.023 (CI = +/-0.053; p = 0.312)  | -0.006 (CI = +/-0.120; p = 0.897) | -0.091                  | +2.32%        |
| Loss Cost | 2016.2     | -0.003 (CI = +/-0.038; p = 0.841) | 0.024 (CI = +/-0.077; p = 0.437)  | -0.252                  | -0.29%        |
| Loss Cost | 2017.1     | -0.010 (CI = +/-0.063; p = 0.640) | 0.015 (CI = +/-0.108; p = 0.683)  | -0.364                  | -1.02%        |
|           |            |                                   |                                   |                         |               |
| Severity  | 2005.2     | 0.023 (CI = +/-0.003; p = 0.000)  | -0.049 (CI = +/-0.024; p = 0.000) | 0.912                   | +2.37%        |
| Severity  | 2006.1     | 0.023 (CI = +/-0.003; p = 0.000)  | -0.051 (CI = +/-0.025; p = 0.000) | 0.906                   | +2.33%        |
| Severity  | 2006.2     | 0.022 (CI = +/-0.003; p = 0.000)  | -0.048 (CI = +/-0.025; p = 0.001) | 0.894                   | +2.27%        |
| Severity  | 2007.1     | 0.022 (CI = +/-0.003; p = 0.000)  | -0.050 (CI = +/-0.026; p = 0.001) | 0.886                   | +2.23%        |
| Severity  | 2007.2     | 0.023 (CI = +/-0.004; p = 0.000)  | -0.053 (CI = +/-0.026; p = 0.000) | 0.884                   | +2.30%        |
| Severity  | 2008.1     | 0.024 (CI = +/-0.003; p = 0.000)  | -0.045 (CI = +/-0.023; p = 0.000) | 0.921                   | +2.48%        |
| Severity  | 2008.2     | 0.026 (CI = +/-0.003; p = 0.000)  | -0.051 (CI = +/-0.019; p = 0.000) | 0.947                   | +2.64%        |
| Severity  | 2009.1     | 0.027 (CI = +/-0.003; p = 0.000)  | -0.046 (CI = +/-0.016; p = 0.000) | 0.964                   | +2.78%        |
| Severity  | 2009.2     | 0.028 (CI = +/-0.003; p = 0.000)  | -0.049 (CI = +/-0.015; p = 0.000) | 0.968                   | +2.87%        |
| Severity  | 2010.1     | 0.029 (CI = +/-0.003; p = 0.000)  | -0.048 (CI = +/-0.016; p = 0.000) | 0.968                   | +2.93%        |
| Severity  | 2010.2     | 0.029 (CI = +/-0.003; p = 0.000)  | -0.048 (CI = +/-0.017; p = 0.000) | 0.962                   | +2.95%        |
| Severity  | 2011.1     | 0.028 (CI = +/-0.003; p = 0.000)  | -0.053 (CI = +/-0.014; p = 0.000) | 0.970                   | +2.79%        |
| Severity  | 2011.2     | 0.026 (CI = +/-0.002; p = 0.000)  | -0.049 (CI = +/-0.012; p = 0.000) | 0.975                   | +2.66%        |
| Severity  | 2012.1     | 0.027 (CI = +/-0.003; p = 0.000)  | -0.047 (CI = +/-0.012; p = 0.000) | 0.977                   | +2.74%        |
| Severity  | 2012.2     | 0.027 (CI = +/-0.003; p = 0.000)  | -0.047 (CI = +/-0.013; p = 0.000) | 0.971                   | +2.72%        |
| Severity  | 2013.1     | 0.028 (CI = +/-0.003; p = 0.000)  | -0.044 (CI = +/-0.013; p = 0.000) | 0.974                   | +2.82%        |
| Severity  | 2013.2     | 0.028 (CI = +/-0.004; p = 0.000)  | -0.044 (CI = +/-0.014; p = 0.000) | 0.965                   | +2.81%        |
| Severity  | 2014.1     | 0.028 (CI = +/-0.004; p = 0.000)  | -0.044 (CI = +/-0.015; p = 0.000) | 0.961                   | +2.83%        |
| Severity  | 2014.2     | 0.027 (CI = +/-0.005; p = 0.000)  | -0.042 (CI = +/-0.017; p = 0.000) | 0.946                   | +2.74%        |
| Severity  | 2015.1     | 0.027 (CI = +/-0.007; p = 0.000)  | -0.041 (CI = +/-0.019; p = 0.001) | 0.939                   | +2.76%        |
| Severity  | 2015.2     | 0.028 (CI = +/-0.008; p = 0.000)  | -0.043 (CI = +/-0.022; p = 0.003) | 0.916                   | +2.85%        |
| Severity  | 2016.1     | 0.032 (CI = +/-0.008; p = 0.000)  | -0.036 (CI = +/-0.019; p = 0.005) | 0.954                   | +3.29%        |
| Severity  | 2016.2     | 0.029 (CI = +/-0.008; p = 0.001)  | -0.032 (CI = +/-0.016; p = 0.005) | 0.956                   | +2.91%        |
| Severity  | 2017.1     | 0.024 (CI = +/-0.007; p = 0.002)  | -0.037 (CI = +/-0.012; p = 0.003) | 0.983                   | +2.48%        |
|           |            |                                   |                                   |                         |               |
| Frequency | 2005.2     | -0.002 (CI = +/-0.006; p = 0.564) | -0.011 (CI = +/-0.052; p = 0.662) | -0.055                  | -0.18%        |
| Frequency | 2006.1     | -0.004 (CI = +/-0.006; p = 0.178) | -0.022 (CI = +/-0.049; p = 0.355) | 0.024                   | -0.41%        |
| Frequency | 2006.2     | -0.006 (CI = +/-0.006; p = 0.038) | -0.013 (CI = +/-0.046; p = 0.573) | 0.109                   | -0.62%        |
| Frequency | 2007.1     | -0.007 (CI = +/-0.006; p = 0.043) | -0.014 (CI = +/-0.047; p = 0.546) | 0.101                   | -0.65%        |
| Frequency | 2007.2     | -0.008 (CI = +/-0.007; p = 0.026) | -0.009 (CI = +/-0.048; p = 0.693) | 0.138                   | -0.77%        |
| Frequency | 2008.1     | -0.009 (CI = +/-0.007; p = 0.018) | -0.014 (CI = +/-0.050; p = 0.562) | 0.170                   | -0.88%        |
| Frequency | 2008.2     | -0.010 (CI = +/-0.008; p = 0.014) | -0.010 (CI = +/-0.051; p = 0.693) | 0.198                   | -0.99%        |
| Frequency | 2009.1     | -0.011 (CI = +/-0.008; p = 0.014) | -0.013 (CI = +/-0.053; p = 0.612) | 0.203                   | -1.08%        |
| Frequency | 2009.2     | -0.012 (CI = +/-0.009; p = 0.015) | -0.010 (CI = +/-0.056; p = 0.711) | 0.211                   | -1.17%        |
| Frequency | 2010.1     | -0.012 (CI = +/-0.010; p = 0.029) | -0.009 (CI = +/-0.059; p = 0.743) | 0.162                   | -1.15%        |
| Frequency | 2010.2     | -0.015 (CI = +/-0.010; p = 0.007) | 0.002 (CI = +/-0.056; p = 0.952)  | 0.297                   | -1.49%        |
| Frequency | 2011.1     | -0.014 (CI = +/-0.012; p = 0.021) | 0.005 (CI = +/-0.060; p = 0.859)  | 0.221                   | -1.38%        |
| Frequency | 2011.2     | -0.011 (CI = +/-0.012; p = 0.079) | -0.004 (CI = +/-0.059; p = 0.886) | 0.091                   | -1.06%        |
| Frequency | 2012.1     | -0.015 (CI = +/-0.012; p = 0.022) | -0.016 (CI = +/-0.058; p = 0.548) | 0.246                   | -1.49%        |
| Frequency | 2012.2     | -0.020 (CI = +/-0.012; p = 0.003) | -0.003 (CI = +/-0.051; p = 0.898) | 0.468                   | -2.02%        |
| Frequency | 2013.1     | -0.021 (CI = +/-0.014; p = 0.007) | -0.004 (CI = +/-0.056; p = 0.884) | 0.405                   | -2.05%        |
| Frequency | 2013.2     | -0.024 (CI = +/-0.015; p = 0.005) | 0.004 (CI = +/-0.057; p = 0.882)  | 0.467                   | -2.40%        |
| Frequency | 2014.1     | -0.020 (CI = +/-0.018; p = 0.028) | 0.012 (CI = +/-0.061; p = 0.657)  | 0.336                   | -2.02%        |
| Frequency | 2014.2     | -0.021 (CI = +/-0.021; p = 0.051) | 0.014 (CI = +/-0.068; p = 0.648)  | 0.257                   | -2.10%        |
| Frequency | 2015.1     | -0.016 (CI = +/-0.026; p = 0.183) | 0.023 (CI = +/-0.075; p = 0.496)  | 0.114                   | -1.63%        |
| Frequency | 2015.2     | -0.015 (CI = +/-0.034; p = 0.313) | 0.021 (CI = +/-0.088; p = 0.577)  | -0.058                  | -1.51%        |
| Frequency | 2016.1     | -0.009 (CI = +/-0.046; p = 0.625) | 0.030 (CI = +/-0.106; p = 0.499)  | -0.164                  | -0.93%        |
| Frequency | 2016.2     | -0.032 (CI = +/-0.036; p = 0.069) | 0.056 (CI = +/-0.072; p = 0.097)  | 0.593                   | -3.11%        |
| Frequency | 2017.1     | -0.035 (CI = +/-0.062; p = 0.171) | 0.052 (CI = +/-0.105; p = 0.212)  | 0.548                   | -3.41%        |

**Property Damage**

Coverage = Total PD

End Trend Period = 2019.1

Excluded Points = NA

Parameters Included: time, seasonality

| Fit       | Start Date | Time   |                            | Seasonality |                            | Adjusted R <sup>2</sup> | Implied Trend Rate |
|-----------|------------|--------|----------------------------|-------------|----------------------------|-------------------------|--------------------|
|           |            |        |                            |             |                            |                         |                    |
| Loss Cost | 2005.2     | 0.023  | (CI = +/-0.007; p = 0.000) | -0.068      | (CI = +/-0.054; p = 0.016) | 0.665                   | +2.36%             |
| Loss Cost | 2006.1     | 0.021  | (CI = +/-0.006; p = 0.000) | -0.080      | (CI = +/-0.049; p = 0.002) | 0.681                   | +2.08%             |
| Loss Cost | 2006.2     | 0.018  | (CI = +/-0.006; p = 0.000) | -0.067      | (CI = +/-0.042; p = 0.003) | 0.658                   | +1.78%             |
| Loss Cost | 2007.1     | 0.017  | (CI = +/-0.006; p = 0.000) | -0.070      | (CI = +/-0.044; p = 0.003) | 0.641                   | +1.71%             |
| Loss Cost | 2007.2     | 0.017  | (CI = +/-0.007; p = 0.000) | -0.069      | (CI = +/-0.046; p = 0.005) | 0.591                   | +1.68%             |
| Loss Cost | 2008.1     | 0.017  | (CI = +/-0.007; p = 0.000) | -0.066      | (CI = +/-0.048; p = 0.009) | 0.593                   | +1.75%             |
| Loss Cost | 2008.2     | 0.018  | (CI = +/-0.008; p = 0.000) | -0.069      | (CI = +/-0.050; p = 0.009) | 0.571                   | +1.83%             |
| Loss Cost | 2009.1     | 0.019  | (CI = +/-0.009; p = 0.000) | -0.067      | (CI = +/-0.052; p = 0.015) | 0.568                   | +1.89%             |
| Loss Cost | 2009.2     | 0.019  | (CI = +/-0.010; p = 0.001) | -0.068      | (CI = +/-0.055; p = 0.018) | 0.524                   | +1.94%             |
| Loss Cost | 2010.1     | 0.020  | (CI = +/-0.011; p = 0.001) | -0.066      | (CI = +/-0.058; p = 0.029) | 0.523                   | +2.02%             |
| Loss Cost | 2010.2     | 0.017  | (CI = +/-0.011; p = 0.006) | -0.055      | (CI = +/-0.057; p = 0.059) | 0.400                   | +1.68%             |
| Loss Cost | 2011.1     | 0.016  | (CI = +/-0.012; p = 0.014) | -0.056      | (CI = +/-0.061; p = 0.072) | 0.378                   | +1.65%             |
| Loss Cost | 2011.2     | 0.019  | (CI = +/-0.014; p = 0.010) | -0.064      | (CI = +/-0.064; p = 0.049) | 0.413                   | +1.95%             |
| Loss Cost | 2012.1     | 0.016  | (CI = +/-0.015; p = 0.040) | -0.073      | (CI = +/-0.064; p = 0.030) | 0.401                   | +1.58%             |
| Loss Cost | 2012.2     | 0.010  | (CI = +/-0.015; p = 0.183) | -0.058      | (CI = +/-0.061; p = 0.061) | 0.223                   | +0.98%             |
| Loss Cost | 2013.1     | 0.011  | (CI = +/-0.018; p = 0.207) | -0.056      | (CI = +/-0.067; p = 0.092) | 0.215                   | +1.08%             |
| Loss Cost | 2013.2     | 0.007  | (CI = +/-0.021; p = 0.460) | -0.048      | (CI = +/-0.072; p = 0.168) | 0.049                   | +0.72%             |
| Loss Cost | 2014.1     | 0.012  | (CI = +/-0.024; p = 0.288) | -0.039      | (CI = +/-0.077; p = 0.272) | 0.064                   | +1.20%             |
| Loss Cost | 2014.2     | 0.011  | (CI = +/-0.031; p = 0.428) | -0.038      | (CI = +/-0.089; p = 0.351) | -0.064                  | +1.11%             |
| Loss Cost | 2015.1     | 0.017  | (CI = +/-0.038; p = 0.308) | -0.028      | (CI = +/-0.099; p = 0.511) | -0.035                  | +1.75%             |
| Loss Cost | 2015.2     | 0.024  | (CI = +/-0.052; p = 0.298) | -0.038      | (CI = +/-0.119; p = 0.456) | -0.049                  | +2.38%             |
| Loss Cost | 2016.1     | 0.037  | (CI = +/-0.067; p = 0.207) | -0.022      | (CI = +/-0.136; p = 0.674) | 0.073                   | +3.73%             |
| Loss Cost | 2016.2     | 0.001  | (CI = +/-0.065; p = 0.947) | 0.019       | (CI = +/-0.111; p = 0.631) | -0.496                  | +0.15%             |
| Loss Cost | 2017.1     | -0.006 | (CI = +/-0.131; p = 0.851) | 0.012       | (CI = +/-0.189; p = 0.809) | -0.886                  | -0.64%             |
|           |            |        |                            |             |                            |                         |                    |
| Severity  | 2005.2     | 0.023  | (CI = +/-0.003; p = 0.000) | -0.048      | (CI = +/-0.025; p = 0.001) | 0.899                   | +2.36%             |
| Severity  | 2006.1     | 0.023  | (CI = +/-0.003; p = 0.000) | -0.050      | (CI = +/-0.026; p = 0.001) | 0.892                   | +2.32%             |
| Severity  | 2006.2     | 0.022  | (CI = +/-0.003; p = 0.000) | -0.047      | (CI = +/-0.026; p = 0.001) | 0.877                   | +2.24%             |
| Severity  | 2007.1     | 0.022  | (CI = +/-0.004; p = 0.000) | -0.048      | (CI = +/-0.027; p = 0.001) | 0.867                   | +2.20%             |
| Severity  | 2007.2     | 0.023  | (CI = +/-0.004; p = 0.000) | -0.052      | (CI = +/-0.027; p = 0.001) | 0.865                   | +2.28%             |
| Severity  | 2008.1     | 0.024  | (CI = +/-0.004; p = 0.000) | -0.045      | (CI = +/-0.024; p = 0.001) | 0.908                   | +2.46%             |
| Severity  | 2008.2     | 0.026  | (CI = +/-0.003; p = 0.000) | -0.052      | (CI = +/-0.020; p = 0.000) | 0.938                   | +2.65%             |
| Severity  | 2009.1     | 0.028  | (CI = +/-0.003; p = 0.000) | -0.047      | (CI = +/-0.017; p = 0.000) | 0.957                   | +2.79%             |
| Severity  | 2009.2     | 0.029  | (CI = +/-0.003; p = 0.000) | -0.051      | (CI = +/-0.016; p = 0.000) | 0.963                   | +2.91%             |
| Severity  | 2010.1     | 0.029  | (CI = +/-0.003; p = 0.000) | -0.049      | (CI = +/-0.016; p = 0.000) | 0.963                   | +2.96%             |
| Severity  | 2010.2     | 0.030  | (CI = +/-0.003; p = 0.000) | -0.050      | (CI = +/-0.017; p = 0.000) | 0.956                   | +2.99%             |
| Severity  | 2011.1     | 0.028  | (CI = +/-0.003; p = 0.000) | -0.054      | (CI = +/-0.015; p = 0.000) | 0.965                   | +2.84%             |
| Severity  | 2011.2     | 0.026  | (CI = +/-0.003; p = 0.000) | -0.050      | (CI = +/-0.013; p = 0.000) | 0.969                   | +2.68%             |
| Severity  | 2012.1     | 0.027  | (CI = +/-0.003; p = 0.000) | -0.048      | (CI = +/-0.013; p = 0.000) | 0.972                   | +2.77%             |
| Severity  | 2012.2     | 0.027  | (CI = +/-0.003; p = 0.000) | -0.047      | (CI = +/-0.014; p = 0.000) | 0.963                   | +2.76%             |
| Severity  | 2013.1     | 0.028  | (CI = +/-0.004; p = 0.000) | -0.045      | (CI = +/-0.014; p = 0.000) | 0.967                   | +2.87%             |
| Severity  | 2013.2     | 0.028  | (CI = +/-0.004; p = 0.000) | -0.045      | (CI = +/-0.015; p = 0.000) | 0.954                   | +2.87%             |
| Severity  | 2014.1     | 0.029  | (CI = +/-0.005; p = 0.000) | -0.045      | (CI = +/-0.017; p = 0.000) | 0.949                   | +2.89%             |
| Severity  | 2014.2     | 0.027  | (CI = +/-0.007; p = 0.000) | -0.043      | (CI = +/-0.019; p = 0.001) | 0.922                   | +2.79%             |
| Severity  | 2015.1     | 0.028  | (CI = +/-0.009; p = 0.000) | -0.042      | (CI = +/-0.022; p = 0.004) | 0.912                   | +2.82%             |
| Severity  | 2015.2     | 0.029  | (CI = +/-0.012; p = 0.001) | -0.045      | (CI = +/-0.027; p = 0.008) | 0.874                   | +2.98%             |
| Severity  | 2016.1     | 0.034  | (CI = +/-0.011; p = 0.001) | -0.039      | (CI = +/-0.022; p = 0.009) | 0.941                   | +3.49%             |
| Severity  | 2016.2     | 0.029  | (CI = +/-0.014; p = 0.006) | -0.033      | (CI = +/-0.023; p = 0.021) | 0.911                   | +2.99%             |
| Severity  | 2017.1     | 0.025  | (CI = +/-0.015; p = 0.020) | -0.037      | (CI = +/-0.022; p = 0.019) | 0.961                   | +2.49%             |
|           |            |        |                            |             |                            |                         |                    |
| Frequency | 2005.2     | 0.000  | (CI = +/-0.006; p = 0.999) | -0.020      | (CI = +/-0.051; p = 0.432) | -0.053                  | +0.00%             |
| Frequency | 2006.1     | -0.002 | (CI = +/-0.006; p = 0.440) | -0.030      | (CI = +/-0.047; p = 0.201) | 0.013                   | -0.23%             |
| Frequency | 2006.2     | -0.005 | (CI = +/-0.006; p = 0.129) | -0.020      | (CI = +/-0.045; p = 0.357) | 0.059                   | -0.45%             |
| Frequency | 2007.1     | -0.005 | (CI = +/-0.006; p = 0.137) | -0.021      | (CI = +/-0.046; p = 0.351) | 0.051                   | -0.48%             |
| Frequency | 2007.2     | -0.006 | (CI = +/-0.007; p = 0.093) | -0.017      | (CI = +/-0.048; p = 0.468) | 0.074                   | -0.58%             |
| Frequency | 2008.1     | -0.007 | (CI = +/-0.007; p = 0.064) | -0.021      | (CI = +/-0.049; p = 0.378) | 0.108                   | -0.69%             |
| Frequency | 2008.2     | -0.008 | (CI = +/-0.008; p = 0.053) | -0.017      | (CI = +/-0.051; p = 0.485) | 0.126                   | -0.79%             |
| Frequency | 2009.1     | -0.009 | (CI = +/-0.009; p = 0.051) | -0.020      | (CI = +/-0.053; p = 0.435) | 0.131                   | -0.87%             |
| Frequency | 2009.2     | -0.010 | (CI = +/-0.010; p = 0.056) | -0.018      | (CI = +/-0.056; p = 0.516) | 0.133                   | -0.95%             |
| Frequency | 2010.1     | -0.009 | (CI = +/-0.011; p = 0.093) | -0.017      | (CI = +/-0.060; p = 0.560) | 0.080                   | -0.92%             |
| Frequency | 2010.2     | -0.013 | (CI = +/-0.011; p = 0.028) | -0.005      | (CI = +/-0.058; p = 0.852) | 0.196                   | -1.28%             |
| Frequency | 2011.1     | -0.012 | (CI = +/-0.013; p = 0.068) | -0.002      | (CI = +/-0.062; p = 0.958) | 0.107                   | -1.15%             |
| Frequency | 2011.2     | -0.007 | (CI = +/-0.013; p = 0.256) | -0.014      | (CI = +/-0.060; p = 0.621) | -0.012                  | -0.71%             |
| Frequency | 2012.1     | -0.012 | (CI = +/-0.013; p = 0.083) | -0.025      | (CI = +/-0.058; p = 0.362) | 0.151                   | -1.15%             |
| Frequency | 2012.2     | -0.017 | (CI = +/-0.013; p = 0.014) | -0.011      | (CI = +/-0.053; p = 0.669) | 0.355                   | -1.72%             |
| Frequency | 2013.1     | -0.017 | (CI = +/-0.015; p = 0.031) | -0.011      | (CI = +/-0.058; p = 0.689) | 0.273                   | -1.73%             |
| Frequency | 2013.2     | -0.021 | (CI = +/-0.018; p = 0.026) | -0.003      | (CI = +/-0.062; p = 0.920) | 0.325                   | -2.09%             |
| Frequency | 2014.1     | -0.017 | (CI = +/-0.020; p = 0.098) | 0.005       | (CI = +/-0.065; p = 0.851) | 0.134                   | -1.65%             |
| Frequency | 2014.2     | -0.016 | (CI = +/-0.026; p = 0.183) | 0.005       | (CI = +/-0.075; p = 0.876) | 0.022                   | -1.63%             |
| Frequency | 2015.1     | -0.010 | (CI = +/-0.032; p = 0.450) | 0.014       | (CI = +/-0.083; p = 0.691) | -0.172                  | -1.04%             |
| Frequency | 2015.2     | -0.006 | (CI = +/-0.044; p = 0.747) | 0.007       | (CI = +/-0.100; p = 0.864) | -0.365                  | -0.58%             |
| Frequency | 2016.1     | 0.002  | (CI = +/-0.060; p = 0.922) | 0.016       | (CI = +/-0.121; p = 0.725) | -0.445                  | +0.22%             |
| Frequency | 2016.2     | -0.028 | (CI = +/-0.061; p = 0.243) | 0.052       | (CI = +/-0.105; p = 0.215) | 0.234                   | -2.76%             |
| Frequency | 2017.1     | -0.031 | (CI = +/-0.128; p = 0.406) | 0.049       | (CI = +/-0.185; p = 0.370) | 0.092                   | -3.05%             |

**Property Damage**

Coverage = Total PD  
 End Trend Period = 2019.2  
 Excluded Points = NA  
 Parameters Included: time

| Fit       | Start Date | Time                              | Adjusted R <sup>2</sup> | Implied Trend Rate |
|-----------|------------|-----------------------------------|-------------------------|--------------------|
| Loss Cost | 2005.2     | 0.022 (CI = +/-0.007; p = 0.000)  | 0.585                   | +2.19%             |
| Loss Cost | 2006.1     | 0.020 (CI = +/-0.007; p = 0.000)  | 0.540                   | +1.97%             |
| Loss Cost | 2006.2     | 0.016 (CI = +/-0.006; p = 0.000)  | 0.515                   | +1.63%             |
| Loss Cost | 2007.1     | 0.016 (CI = +/-0.007; p = 0.000)  | 0.480                   | +1.62%             |
| Loss Cost | 2007.2     | 0.015 (CI = +/-0.007; p = 0.000)  | 0.424                   | +1.52%             |
| Loss Cost | 2008.1     | 0.016 (CI = +/-0.008; p = 0.000)  | 0.442                   | +1.64%             |
| Loss Cost | 2008.2     | 0.016 (CI = +/-0.008; p = 0.001)  | 0.402                   | +1.62%             |
| Loss Cost | 2009.1     | 0.017 (CI = +/-0.009; p = 0.001)  | 0.412                   | +1.75%             |
| Loss Cost | 2009.2     | 0.017 (CI = +/-0.010; p = 0.003)  | 0.356                   | +1.68%             |
| Loss Cost | 2010.1     | 0.018 (CI = +/-0.011; p = 0.003)  | 0.370                   | +1.83%             |
| Loss Cost | 2010.2     | 0.014 (CI = +/-0.011; p = 0.014)  | 0.263                   | +1.41%             |
| Loss Cost | 2011.1     | 0.015 (CI = +/-0.012; p = 0.022)  | 0.242                   | +1.46%             |
| Loss Cost | 2011.2     | 0.016 (CI = +/-0.014; p = 0.029)  | 0.233                   | +1.57%             |
| Loss Cost | 2012.1     | 0.013 (CI = +/-0.015; p = 0.081)  | 0.144                   | +1.35%             |
| Loss Cost | 2012.2     | 0.006 (CI = +/-0.015; p = 0.357)  | -0.006                  | +0.65%             |
| Loss Cost | 2013.1     | 0.009 (CI = +/-0.017; p = 0.283)  | 0.020                   | +0.87%             |
| Loss Cost | 2013.2     | 0.004 (CI = +/-0.018; p = 0.679)  | -0.073                  | +0.35%             |
| Loss Cost | 2014.1     | 0.009 (CI = +/-0.020; p = 0.350)  | -0.004                  | +0.89%             |
| Loss Cost | 2014.2     | 0.006 (CI = +/-0.024; p = 0.603)  | -0.076                  | +0.58%             |
| Loss Cost | 2015.1     | 0.012 (CI = +/-0.028; p = 0.359)  | -0.006                  | +1.21%             |
| Loss Cost | 2015.2     | 0.013 (CI = +/-0.036; p = 0.431)  | -0.039                  | +1.30%             |
| Loss Cost | 2016.1     | 0.024 (CI = +/-0.045; p = 0.244)  | 0.088                   | +2.39%             |
| Loss Cost | 2016.2     | -0.003 (CI = +/-0.034; p = 0.835) | -0.188                  | -0.29%             |
| Loss Cost | 2017.1     | -0.013 (CI = +/-0.047; p = 0.490) | -0.092                  | -1.28%             |
| Severity  | 2005.2     | 0.023 (CI = +/-0.004; p = 0.000)  | 0.860                   | +2.37%             |
| Severity  | 2006.1     | 0.023 (CI = +/-0.004; p = 0.000)  | 0.846                   | +2.37%             |
| Severity  | 2006.2     | 0.022 (CI = +/-0.004; p = 0.000)  | 0.833                   | +2.27%             |
| Severity  | 2007.1     | 0.022 (CI = +/-0.004; p = 0.000)  | 0.817                   | +2.27%             |
| Severity  | 2007.2     | 0.023 (CI = +/-0.005; p = 0.000)  | 0.803                   | +2.30%             |
| Severity  | 2008.1     | 0.025 (CI = +/-0.004; p = 0.000)  | 0.862                   | +2.53%             |
| Severity  | 2008.2     | 0.026 (CI = +/-0.004; p = 0.000)  | 0.869                   | +2.64%             |
| Severity  | 2009.1     | 0.028 (CI = +/-0.004; p = 0.000)  | 0.902                   | +2.84%             |
| Severity  | 2009.2     | 0.028 (CI = +/-0.005; p = 0.000)  | 0.892                   | +2.87%             |
| Severity  | 2010.1     | 0.030 (CI = +/-0.005; p = 0.000)  | 0.895                   | +3.00%             |
| Severity  | 2010.2     | 0.029 (CI = +/-0.005; p = 0.000)  | 0.878                   | +2.95%             |
| Severity  | 2011.1     | 0.029 (CI = +/-0.006; p = 0.000)  | 0.856                   | +2.90%             |
| Severity  | 2011.2     | 0.026 (CI = +/-0.006; p = 0.000)  | 0.844                   | +2.66%             |
| Severity  | 2012.1     | 0.028 (CI = +/-0.006; p = 0.000)  | 0.858                   | +2.85%             |
| Severity  | 2012.2     | 0.027 (CI = +/-0.007; p = 0.000)  | 0.828                   | +2.72%             |
| Severity  | 2013.1     | 0.029 (CI = +/-0.007; p = 0.000)  | 0.847                   | +2.96%             |
| Severity  | 2013.2     | 0.028 (CI = +/-0.009; p = 0.000)  | 0.808                   | +2.81%             |
| Severity  | 2014.1     | 0.030 (CI = +/-0.010; p = 0.000)  | 0.805                   | +3.02%             |
| Severity  | 2014.2     | 0.027 (CI = +/-0.011; p = 0.000)  | 0.747                   | +2.74%             |
| Severity  | 2015.1     | 0.030 (CI = +/-0.013; p = 0.001)  | 0.748                   | +3.02%             |
| Severity  | 2015.2     | 0.028 (CI = +/-0.017; p = 0.005)  | 0.655                   | +2.85%             |
| Severity  | 2016.1     | 0.036 (CI = +/-0.017; p = 0.002)  | 0.784                   | +3.64%             |
| Severity  | 2016.2     | 0.029 (CI = +/-0.019; p = 0.013)  | 0.691                   | +2.91%             |
| Severity  | 2017.1     | 0.031 (CI = +/-0.029; p = 0.043)  | 0.601                   | +3.13%             |
| Frequency | 2005.2     | -0.002 (CI = +/-0.006; p = 0.558) | -0.024                  | -0.18%             |
| Frequency | 2006.1     | -0.004 (CI = +/-0.006; p = 0.194) | 0.028                   | -0.39%             |
| Frequency | 2006.2     | -0.006 (CI = +/-0.006; p = 0.035) | 0.133                   | -0.62%             |
| Frequency | 2007.1     | -0.006 (CI = +/-0.006; p = 0.043) | 0.124                   | -0.64%             |
| Frequency | 2007.2     | -0.008 (CI = +/-0.007; p = 0.023) | 0.169                   | -0.77%             |
| Frequency | 2008.1     | -0.009 (CI = +/-0.007; p = 0.018) | 0.195                   | -0.86%             |
| Frequency | 2008.2     | -0.010 (CI = +/-0.008; p = 0.012) | 0.231                   | -0.99%             |
| Frequency | 2009.1     | -0.011 (CI = +/-0.008; p = 0.013) | 0.233                   | -1.06%             |
| Frequency | 2009.2     | -0.012 (CI = +/-0.009; p = 0.013) | 0.247                   | -1.17%             |
| Frequency | 2010.1     | -0.011 (CI = +/-0.010; p = 0.026) | 0.204                   | -1.13%             |
| Frequency | 2010.2     | -0.015 (CI = +/-0.010; p = 0.005) | 0.338                   | -1.49%             |
| Frequency | 2011.1     | -0.014 (CI = +/-0.011; p = 0.016) | 0.268                   | -1.39%             |
| Frequency | 2011.2     | -0.011 (CI = +/-0.012; p = 0.069) | 0.150                   | -1.06%             |
| Frequency | 2012.1     | -0.015 (CI = +/-0.012; p = 0.020) | 0.280                   | -1.46%             |
| Frequency | 2012.2     | -0.020 (CI = +/-0.011; p = 0.002) | 0.508                   | -2.02%             |
| Frequency | 2013.1     | -0.021 (CI = +/-0.013; p = 0.005) | 0.453                   | -2.04%             |
| Frequency | 2013.2     | -0.024 (CI = +/-0.014; p = 0.003) | 0.515                   | -2.40%             |
| Frequency | 2014.1     | -0.021 (CI = +/-0.016; p = 0.018) | 0.388                   | -2.07%             |
| Frequency | 2014.2     | -0.021 (CI = +/-0.020; p = 0.040) | 0.321                   | -2.10%             |
| Frequency | 2015.1     | -0.018 (CI = +/-0.024; p = 0.132) | 0.168                   | -1.76%             |
| Frequency | 2015.2     | -0.015 (CI = +/-0.031; p = 0.285) | 0.041                   | -1.51%             |
| Frequency | 2016.1     | -0.012 (CI = +/-0.041; p = 0.495) | -0.073                  | -1.21%             |
| Frequency | 2016.2     | -0.032 (CI = +/-0.043; p = 0.120) | 0.295                   | -3.11%             |
| Frequency | 2017.1     | -0.044 (CI = +/-0.060; p = 0.114) | 0.379                   | -4.28%             |



**Property Damage**

Coverage = Total PD  
 End Trend Period = 2019.1  
 Excluded Points = NA  
 Parameters Included: time

| Fit       | Start Date | Time                              | Adjusted R <sup>2</sup> | Implied Trend Rate |
|-----------|------------|-----------------------------------|-------------------------|--------------------|
| Loss Cost | 2005.2     | 0.023 (CI = +/-0.007; p = 0.000)  | 0.592                   | +2.31%             |
| Loss Cost | 2006.1     | 0.021 (CI = +/-0.007; p = 0.000)  | 0.547                   | +2.08%             |
| Loss Cost | 2006.2     | 0.017 (CI = +/-0.007; p = 0.000)  | 0.519                   | +1.72%             |
| Loss Cost | 2007.1     | 0.017 (CI = +/-0.007; p = 0.000)  | 0.485                   | +1.71%             |
| Loss Cost | 2007.2     | 0.016 (CI = +/-0.008; p = 0.000)  | 0.428                   | +1.61%             |
| Loss Cost | 2008.1     | 0.017 (CI = +/-0.008; p = 0.000)  | 0.450                   | +1.75%             |
| Loss Cost | 2008.2     | 0.017 (CI = +/-0.009; p = 0.001)  | 0.411                   | +1.75%             |
| Loss Cost | 2009.1     | 0.019 (CI = +/-0.010; p = 0.001)  | 0.426                   | +1.89%             |
| Loss Cost | 2009.2     | 0.018 (CI = +/-0.011; p = 0.003)  | 0.370                   | +1.83%             |
| Loss Cost | 2010.1     | 0.020 (CI = +/-0.012; p = 0.003)  | 0.390                   | +2.02%             |
| Loss Cost | 2010.2     | 0.016 (CI = +/-0.012; p = 0.014)  | 0.281                   | +1.57%             |
| Loss Cost | 2011.1     | 0.016 (CI = +/-0.014; p = 0.021)  | 0.262                   | +1.65%             |
| Loss Cost | 2011.2     | 0.018 (CI = +/-0.015; p = 0.026)  | 0.258                   | +1.79%             |
| Loss Cost | 2012.1     | 0.016 (CI = +/-0.017; p = 0.073)  | 0.168                   | +1.58%             |
| Loss Cost | 2012.2     | 0.008 (CI = +/-0.017; p = 0.321)  | 0.005                   | +0.80%             |
| Loss Cost | 2013.1     | 0.011 (CI = +/-0.019; p = 0.248)  | 0.039                   | +1.08%             |
| Loss Cost | 2013.2     | 0.005 (CI = +/-0.022; p = 0.609)  | -0.070                  | +0.51%             |
| Loss Cost | 2014.1     | 0.012 (CI = +/-0.024; p = 0.294)  | 0.023                   | +1.20%             |
| Loss Cost | 2014.2     | 0.009 (CI = +/-0.030; p = 0.517)  | -0.064                  | +0.88%             |
| Loss Cost | 2015.1     | 0.017 (CI = +/-0.035; p = 0.285)  | 0.041                   | +1.75%             |
| Loss Cost | 2015.2     | 0.020 (CI = +/-0.047; p = 0.338)  | 0.012                   | +2.02%             |
| Loss Cost | 2016.1     | 0.037 (CI = +/-0.057; p = 0.162)  | 0.220                   | +3.73%             |
| Loss Cost | 2016.2     | 0.005 (CI = +/-0.049; p = 0.805)  | -0.229                  | +0.47%             |
| Loss Cost | 2017.1     | -0.006 (CI = +/-0.080; p = 0.815) | -0.305                  | -0.64%             |
| Severity  | 2005.2     | 0.023 (CI = +/-0.004; p = 0.000)  | 0.844                   | +2.32%             |
| Severity  | 2006.1     | 0.023 (CI = +/-0.004; p = 0.000)  | 0.828                   | +2.32%             |
| Severity  | 2006.2     | 0.022 (CI = +/-0.004; p = 0.000)  | 0.813                   | +2.20%             |
| Severity  | 2007.1     | 0.022 (CI = +/-0.005; p = 0.000)  | 0.793                   | +2.20%             |
| Severity  | 2007.2     | 0.022 (CI = +/-0.005; p = 0.000)  | 0.777                   | +2.22%             |
| Severity  | 2008.1     | 0.024 (CI = +/-0.005; p = 0.000)  | 0.843                   | +2.46%             |
| Severity  | 2008.2     | 0.025 (CI = +/-0.005; p = 0.000)  | 0.850                   | +2.58%             |
| Severity  | 2009.1     | 0.028 (CI = +/-0.005; p = 0.000)  | 0.886                   | +2.79%             |
| Severity  | 2009.2     | 0.028 (CI = +/-0.005; p = 0.000)  | 0.874                   | +2.83%             |
| Severity  | 2010.1     | 0.029 (CI = +/-0.005; p = 0.000)  | 0.878                   | +2.96%             |
| Severity  | 2010.2     | 0.029 (CI = +/-0.006; p = 0.000)  | 0.856                   | +2.90%             |
| Severity  | 2011.1     | 0.028 (CI = +/-0.007; p = 0.000)  | 0.829                   | +2.84%             |
| Severity  | 2011.2     | 0.025 (CI = +/-0.007; p = 0.000)  | 0.812                   | +2.56%             |
| Severity  | 2012.1     | 0.027 (CI = +/-0.007; p = 0.000)  | 0.827                   | +2.77%             |
| Severity  | 2012.2     | 0.026 (CI = +/-0.008; p = 0.000)  | 0.787                   | +2.61%             |
| Severity  | 2013.1     | 0.028 (CI = +/-0.009; p = 0.000)  | 0.808                   | +2.87%             |
| Severity  | 2013.2     | 0.026 (CI = +/-0.010; p = 0.000)  | 0.754                   | +2.67%             |
| Severity  | 2014.1     | 0.029 (CI = +/-0.012; p = 0.000)  | 0.746                   | +2.89%             |
| Severity  | 2014.2     | 0.025 (CI = +/-0.013; p = 0.003)  | 0.660                   | +2.52%             |
| Severity  | 2015.1     | 0.028 (CI = +/-0.016; p = 0.005)  | 0.652                   | +2.82%             |
| Severity  | 2015.2     | 0.025 (CI = +/-0.021; p = 0.028)  | 0.509                   | +2.54%             |
| Severity  | 2016.1     | 0.034 (CI = +/-0.024; p = 0.014)  | 0.679                   | +3.49%             |
| Severity  | 2016.2     | 0.024 (CI = +/-0.028; p = 0.074)  | 0.488                   | +2.41%             |
| Severity  | 2017.1     | 0.025 (CI = +/-0.048; p = 0.203)  | 0.290                   | +2.49%             |
| Frequency | 2005.2     | 0.000 (CI = +/-0.006; p = 0.962)  | -0.038                  | -0.01%             |
| Frequency | 2006.1     | -0.002 (CI = +/-0.006; p = 0.446) | -0.016                  | -0.23%             |
| Frequency | 2006.2     | -0.005 (CI = +/-0.006; p = 0.113) | 0.064                   | -0.47%             |
| Frequency | 2007.1     | -0.005 (CI = +/-0.006; p = 0.136) | 0.055                   | -0.48%             |
| Frequency | 2007.2     | -0.006 (CI = +/-0.007; p = 0.080) | 0.093                   | -0.60%             |
| Frequency | 2008.1     | -0.007 (CI = +/-0.007; p = 0.062) | 0.116                   | -0.69%             |
| Frequency | 2008.2     | -0.008 (CI = +/-0.008; p = 0.043) | 0.148                   | -0.81%             |
| Frequency | 2009.1     | -0.009 (CI = +/-0.009; p = 0.048) | 0.148                   | -0.87%             |
| Frequency | 2009.2     | -0.010 (CI = +/-0.010; p = 0.046) | 0.160                   | -0.97%             |
| Frequency | 2010.1     | -0.009 (CI = +/-0.011; p = 0.086) | 0.114                   | -0.92%             |
| Frequency | 2010.2     | -0.013 (CI = +/-0.011; p = 0.022) | 0.244                   | -1.29%             |
| Frequency | 2011.1     | -0.012 (CI = +/-0.012; p = 0.059) | 0.166                   | -1.15%             |
| Frequency | 2011.2     | -0.007 (CI = +/-0.012; p = 0.219) | 0.042                   | -0.75%             |
| Frequency | 2012.1     | -0.012 (CI = +/-0.013; p = 0.080) | 0.157                   | -1.15%             |
| Frequency | 2012.2     | -0.018 (CI = +/-0.012; p = 0.009) | 0.398                   | -1.76%             |
| Frequency | 2013.1     | -0.017 (CI = +/-0.015; p = 0.024) | 0.328                   | -1.73%             |
| Frequency | 2013.2     | -0.021 (CI = +/-0.017; p = 0.017) | 0.392                   | -2.10%             |
| Frequency | 2014.1     | -0.017 (CI = +/-0.019; p = 0.079) | 0.227                   | -1.65%             |
| Frequency | 2014.2     | -0.016 (CI = +/-0.024; p = 0.154) | 0.141                   | -1.60%             |
| Frequency | 2015.1     | -0.010 (CI = +/-0.029; p = 0.418) | -0.034                  | -1.04%             |
| Frequency | 2015.2     | -0.005 (CI = +/-0.037; p = 0.747) | -0.145                  | -0.51%             |
| Frequency | 2016.1     | 0.002 (CI = +/-0.050; p = 0.913)  | -0.197                  | +0.22%             |
| Frequency | 2016.2     | -0.019 (CI = +/-0.060; p = 0.426) | -0.045                  | -1.89%             |
| Frequency | 2017.1     | -0.031 (CI = +/-0.099; p = 0.394) | -0.003                  | -3.05%             |

**Accident Benefits Total**

Coverage = AB Total

End Trend Period = 2022.1

Excluded Points = NA

Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R <sup>2</sup> | Implied Trend |
|-----------|------------|-----------------------------------|-----------------------------------|-------------------------|---------------|
|           |            |                                   |                                   |                         | Rate          |
| Loss Cost | 2005.2     | 0.048 (CI = +/-0.008; p = 0.000)  | -0.186 (CI = +/-0.081; p = 0.000) | 0.827                   | +4.96%        |
| Loss Cost | 2006.1     | 0.051 (CI = +/-0.008; p = 0.000)  | -0.171 (CI = +/-0.077; p = 0.000) | 0.854                   | +5.25%        |
| Loss Cost | 2006.2     | 0.052 (CI = +/-0.009; p = 0.000)  | -0.177 (CI = +/-0.079; p = 0.000) | 0.846                   | +5.35%        |
| Loss Cost | 2007.1     | 0.053 (CI = +/-0.009; p = 0.000)  | -0.170 (CI = +/-0.080; p = 0.000) | 0.847                   | +5.48%        |
| Loss Cost | 2007.2     | 0.055 (CI = +/-0.009; p = 0.000)  | -0.177 (CI = +/-0.082; p = 0.000) | 0.840                   | +5.61%        |
| Loss Cost | 2008.1     | 0.057 (CI = +/-0.010; p = 0.000)  | -0.167 (CI = +/-0.082; p = 0.000) | 0.849                   | +5.83%        |
| Loss Cost | 2008.2     | 0.058 (CI = +/-0.010; p = 0.000)  | -0.174 (CI = +/-0.084; p = 0.000) | 0.841                   | +5.98%        |
| Loss Cost | 2009.1     | 0.061 (CI = +/-0.011; p = 0.000)  | -0.161 (CI = +/-0.083; p = 0.000) | 0.855                   | +6.26%        |
| Loss Cost | 2009.2     | 0.063 (CI = +/-0.011; p = 0.000)  | -0.173 (CI = +/-0.083; p = 0.000) | 0.857                   | +6.53%        |
| Loss Cost | 2010.1     | 0.066 (CI = +/-0.012; p = 0.000)  | -0.163 (CI = +/-0.084; p = 0.001) | 0.864                   | +6.78%        |
| Loss Cost | 2010.2     | 0.067 (CI = +/-0.013; p = 0.000)  | -0.168 (CI = +/-0.087; p = 0.001) | 0.849                   | +6.90%        |
| Loss Cost | 2011.1     | 0.069 (CI = +/-0.013; p = 0.000)  | -0.159 (CI = +/-0.089; p = 0.001) | 0.853                   | +7.15%        |
| Loss Cost | 2011.2     | 0.070 (CI = +/-0.015; p = 0.000)  | -0.161 (CI = +/-0.094; p = 0.002) | 0.831                   | +7.21%        |
| Loss Cost | 2012.1     | 0.070 (CI = +/-0.016; p = 0.000)  | -0.160 (CI = +/-0.099; p = 0.003) | 0.819                   | +7.22%        |
| Loss Cost | 2012.2     | 0.071 (CI = +/-0.018; p = 0.000)  | -0.165 (CI = +/-0.104; p = 0.004) | 0.794                   | +7.34%        |
| Loss Cost | 2013.1     | 0.074 (CI = +/-0.020; p = 0.000)  | -0.154 (CI = +/-0.107; p = 0.008) | 0.801                   | +7.72%        |
| Loss Cost | 2013.2     | 0.074 (CI = +/-0.022; p = 0.000)  | -0.151 (CI = +/-0.115; p = 0.013) | 0.758                   | +7.65%        |
| Loss Cost | 2014.1     | 0.074 (CI = +/-0.025; p = 0.000)  | -0.152 (CI = +/-0.122; p = 0.019) | 0.738                   | +7.64%        |
| Loss Cost | 2014.2     | 0.067 (CI = +/-0.027; p = 0.000)  | -0.133 (CI = +/-0.125; p = 0.039) | 0.662                   | +6.94%        |
| Loss Cost | 2015.1     | 0.062 (CI = +/-0.030; p = 0.001)  | -0.146 (CI = +/-0.131; p = 0.032) | 0.630                   | +6.39%        |
| Loss Cost | 2015.2     | 0.058 (CI = +/-0.035; p = 0.004)  | -0.136 (CI = +/-0.142; p = 0.059) | 0.517                   | +5.97%        |
| Loss Cost | 2016.1     | 0.058 (CI = +/-0.041; p = 0.011)  | -0.136 (CI = +/-0.156; p = 0.080) | 0.490                   | +5.97%        |
| Loss Cost | 2016.2     | 0.044 (CI = +/-0.046; p = 0.057)  | -0.106 (CI = +/-0.158; p = 0.163) | 0.279                   | +4.51%        |
| Loss Cost | 2017.1     | 0.039 (CI = +/-0.055; p = 0.142)  | -0.116 (CI = +/-0.174; p = 0.164) | 0.231                   | +3.95%        |
|           |            |                                   |                                   |                         |               |
| Severity  | 2005.2     | 0.064 (CI = +/-0.009; p = 0.000)  | -0.094 (CI = +/-0.093; p = 0.048) | 0.853                   | +6.63%        |
| Severity  | 2006.1     | 0.067 (CI = +/-0.010; p = 0.000)  | -0.080 (CI = +/-0.091; p = 0.082) | 0.865                   | +6.89%        |
| Severity  | 2006.2     | 0.067 (CI = +/-0.010; p = 0.000)  | -0.080 (CI = +/-0.094; p = 0.092) | 0.852                   | +6.90%        |
| Severity  | 2007.1     | 0.067 (CI = +/-0.011; p = 0.000)  | -0.079 (CI = +/-0.097; p = 0.110) | 0.842                   | +6.94%        |
| Severity  | 2007.2     | 0.067 (CI = +/-0.012; p = 0.000)  | -0.080 (CI = +/-0.101; p = 0.118) | 0.827                   | +6.96%        |
| Severity  | 2008.1     | 0.069 (CI = +/-0.012; p = 0.000)  | -0.072 (CI = +/-0.103; p = 0.166) | 0.825                   | +7.13%        |
| Severity  | 2008.2     | 0.070 (CI = +/-0.013; p = 0.000)  | -0.076 (CI = +/-0.107; p = 0.155) | 0.812                   | +7.23%        |
| Severity  | 2009.1     | 0.074 (CI = +/-0.013; p = 0.000)  | -0.059 (CI = +/-0.104; p = 0.254) | 0.833                   | +7.65%        |
| Severity  | 2009.2     | 0.078 (CI = +/-0.014; p = 0.000)  | -0.077 (CI = +/-0.101; p = 0.130) | 0.849                   | +8.09%        |
| Severity  | 2010.1     | 0.082 (CI = +/-0.014; p = 0.000)  | -0.060 (CI = +/-0.098; p = 0.219) | 0.867                   | +8.53%        |
| Severity  | 2010.2     | 0.086 (CI = +/-0.014; p = 0.000)  | -0.077 (CI = +/-0.095; p = 0.107) | 0.879                   | +8.99%        |
| Severity  | 2011.1     | 0.091 (CI = +/-0.014; p = 0.000)  | -0.059 (CI = +/-0.090; p = 0.187) | 0.898                   | +9.50%        |
| Severity  | 2011.2     | 0.093 (CI = +/-0.015; p = 0.000)  | -0.066 (CI = +/-0.094; p = 0.157) | 0.890                   | +9.70%        |
| Severity  | 2012.1     | 0.098 (CI = +/-0.015; p = 0.000)  | -0.049 (CI = +/-0.089; p = 0.268) | 0.906                   | +10.26%       |
| Severity  | 2012.2     | 0.103 (CI = +/-0.015; p = 0.000)  | -0.068 (CI = +/-0.084; p = 0.104) | 0.921                   | +10.88%       |
| Severity  | 2013.1     | 0.112 (CI = +/-0.011; p = 0.000)  | -0.041 (CI = +/-0.058; p = 0.152) | 0.966                   | +11.84%       |
| Severity  | 2013.2     | 0.114 (CI = +/-0.011; p = 0.000)  | -0.049 (CI = +/-0.059; p = 0.098) | 0.964                   | +12.12%       |
| Severity  | 2014.1     | 0.118 (CI = +/-0.012; p = 0.000)  | -0.040 (CI = +/-0.059; p = 0.169) | 0.965                   | +12.48%       |
| Severity  | 2014.2     | 0.115 (CI = +/-0.013; p = 0.000)  | -0.032 (CI = +/-0.061; p = 0.279) | 0.959                   | +12.17%       |
| Severity  | 2015.1     | 0.114 (CI = +/-0.015; p = 0.000)  | -0.033 (CI = +/-0.066; p = 0.296) | 0.950                   | +12.11%       |
| Severity  | 2015.2     | 0.115 (CI = +/-0.018; p = 0.000)  | -0.036 (CI = +/-0.072; p = 0.298) | 0.939                   | +12.24%       |
| Severity  | 2016.1     | 0.123 (CI = +/-0.017; p = 0.000)  | -0.020 (CI = +/-0.065; p = 0.512) | 0.954                   | +13.06%       |
| Severity  | 2016.2     | 0.121 (CI = +/-0.021; p = 0.000)  | -0.015 (CI = +/-0.072; p = 0.646) | 0.940                   | +12.82%       |
| Severity  | 2017.1     | 0.124 (CI = +/-0.024; p = 0.000)  | -0.008 (CI = +/-0.078; p = 0.819) | 0.931                   | +13.26%       |
|           |            |                                   |                                   |                         |               |
| Frequency | 2005.2     | -0.016 (CI = +/-0.008; p = 0.001) | -0.093 (CI = +/-0.081; p = 0.027) | 0.370                   | -1.57%        |
| Frequency | 2006.1     | -0.015 (CI = +/-0.009; p = 0.001) | -0.091 (CI = +/-0.084; p = 0.034) | 0.331                   | -1.54%        |
| Frequency | 2006.2     | -0.015 (CI = +/-0.009; p = 0.003) | -0.096 (CI = +/-0.086; p = 0.030) | 0.315                   | -1.45%        |
| Frequency | 2007.1     | -0.014 (CI = +/-0.010; p = 0.008) | -0.092 (CI = +/-0.089; p = 0.043) | 0.260                   | -1.36%        |
| Frequency | 2007.2     | -0.013 (CI = +/-0.011; p = 0.021) | -0.097 (CI = +/-0.091; p = 0.037) | 0.247                   | -1.26%        |
| Frequency | 2008.1     | -0.012 (CI = +/-0.011; p = 0.035) | -0.095 (CI = +/-0.095; p = 0.048) | 0.205                   | -1.21%        |
| Frequency | 2008.2     | -0.012 (CI = +/-0.012; p = 0.057) | -0.097 (CI = +/-0.098; p = 0.053) | 0.198                   | -1.17%        |
| Frequency | 2009.1     | -0.013 (CI = +/-0.013; p = 0.050) | -0.103 (CI = +/-0.102; p = 0.048) | 0.202                   | -1.29%        |
| Frequency | 2009.2     | -0.014 (CI = +/-0.014; p = 0.043) | -0.096 (CI = +/-0.105; p = 0.072) | 0.212                   | -1.44%        |
| Frequency | 2010.1     | -0.016 (CI = +/-0.015; p = 0.035) | -0.103 (CI = +/-0.108; p = 0.061) | 0.225                   | -1.61%        |
| Frequency | 2010.2     | -0.019 (CI = +/-0.016; p = 0.020) | -0.091 (CI = +/-0.110; p = 0.103) | 0.257                   | -1.92%        |
| Frequency | 2011.1     | -0.022 (CI = +/-0.017; p = 0.016) | -0.100 (CI = +/-0.114; p = 0.083) | 0.275                   | -2.15%        |
| Frequency | 2011.2     | -0.023 (CI = +/-0.019; p = 0.019) | -0.095 (CI = +/-0.119; p = 0.114) | 0.277                   | -2.27%        |
| Frequency | 2012.1     | -0.028 (CI = +/-0.020; p = 0.008) | -0.112 (CI = +/-0.118; p = 0.063) | 0.354                   | -2.76%        |
| Frequency | 2012.2     | -0.032 (CI = +/-0.021; p = 0.005) | -0.096 (CI = +/-0.121; p = 0.111) | 0.398                   | -3.19%        |
| Frequency | 2013.1     | -0.038 (CI = +/-0.022; p = 0.002) | -0.112 (CI = +/-0.122; p = 0.068) | 0.450                   | -3.68%        |
| Frequency | 2013.2     | -0.041 (CI = +/-0.025; p = 0.003) | -0.102 (CI = +/-0.128; p = 0.109) | 0.461                   | -3.99%        |
| Frequency | 2014.1     | -0.044 (CI = +/-0.027; p = 0.004) | -0.112 (CI = +/-0.135; p = 0.097) | 0.447                   | -4.30%        |
| Frequency | 2014.2     | -0.048 (CI = +/-0.031; p = 0.006) | -0.101 (CI = +/-0.144; p = 0.153) | 0.454                   | -4.66%        |
| Frequency | 2015.1     | -0.052 (CI = +/-0.035; p = 0.007) | -0.113 (CI = +/-0.152; p = 0.132) | 0.444                   | -5.11%        |
| Frequency | 2015.2     | -0.057 (CI = +/-0.041; p = 0.010) | -0.100 (CI = +/-0.164; p = 0.207) | 0.450                   | -5.59%        |
| Frequency | 2016.1     | -0.065 (CI = +/-0.047; p = 0.011) | -0.116 (CI = +/-0.175; p = 0.169) | 0.450                   | -6.27%        |
| Frequency | 2016.2     | -0.076 (CI = +/-0.054; p = 0.011) | -0.091 (CI = +/-0.186; p = 0.297) | 0.497                   | -7.36%        |
| Frequency | 2017.1     | -0.086 (CI = +/-0.064; p = 0.014) | -0.108 (CI = +/-0.202; p = 0.253) | 0.479                   | -8.22%        |

**Accident Benefits Total**

Coverage = AB Total  
 End Trend Period = 2022.1  
 Excluded Points = NA  
 Parameters Included: time

| Fit       | Start Date | Time                              | Adjusted R <sup>2</sup> | Implied Trend Rate |
|-----------|------------|-----------------------------------|-------------------------|--------------------|
| Loss Cost | 2005.2     | 0.047 (CI = +/-0.011; p = 0.000)  | 0.713                   | +4.86%             |
| Loss Cost | 2006.1     | 0.051 (CI = +/-0.010; p = 0.000)  | 0.761                   | +5.25%             |
| Loss Cost | 2006.2     | 0.051 (CI = +/-0.011; p = 0.000)  | 0.743                   | +5.24%             |
| Loss Cost | 2007.1     | 0.053 (CI = +/-0.011; p = 0.000)  | 0.752                   | +5.48%             |
| Loss Cost | 2007.2     | 0.053 (CI = +/-0.012; p = 0.000)  | 0.734                   | +5.49%             |
| Loss Cost | 2008.1     | 0.057 (CI = +/-0.012; p = 0.000)  | 0.757                   | +5.83%             |
| Loss Cost | 2008.2     | 0.057 (CI = +/-0.013; p = 0.000)  | 0.736                   | +5.83%             |
| Loss Cost | 2009.1     | 0.061 (CI = +/-0.013; p = 0.000)  | 0.767                   | +6.26%             |
| Loss Cost | 2009.2     | 0.062 (CI = +/-0.014; p = 0.000)  | 0.753                   | +6.37%             |
| Loss Cost | 2010.1     | 0.066 (CI = +/-0.015; p = 0.000)  | 0.773                   | +6.78%             |
| Loss Cost | 2010.2     | 0.065 (CI = +/-0.016; p = 0.000)  | 0.747                   | +6.71%             |
| Loss Cost | 2011.1     | 0.069 (CI = +/-0.017; p = 0.000)  | 0.763                   | +7.15%             |
| Loss Cost | 2011.2     | 0.068 (CI = +/-0.019; p = 0.000)  | 0.731                   | +6.99%             |
| Loss Cost | 2012.1     | 0.070 (CI = +/-0.020; p = 0.000)  | 0.718                   | +7.22%             |
| Loss Cost | 2012.2     | 0.068 (CI = +/-0.022; p = 0.000)  | 0.679                   | +7.08%             |
| Loss Cost | 2013.1     | 0.074 (CI = +/-0.024; p = 0.000)  | 0.704                   | +7.72%             |
| Loss Cost | 2013.2     | 0.071 (CI = +/-0.026; p = 0.000)  | 0.652                   | +7.34%             |
| Loss Cost | 2014.1     | 0.074 (CI = +/-0.029; p = 0.000)  | 0.632                   | +7.64%             |
| Loss Cost | 2014.2     | 0.064 (CI = +/-0.031; p = 0.001)  | 0.559                   | +6.60%             |
| Loss Cost | 2015.1     | 0.062 (CI = +/-0.035; p = 0.002)  | 0.490                   | +6.39%             |
| Loss Cost | 2015.2     | 0.054 (CI = +/-0.039; p = 0.011)  | 0.379                   | +5.52%             |
| Loss Cost | 2016.1     | 0.058 (CI = +/-0.046; p = 0.018)  | 0.360                   | +5.97%             |
| Loss Cost | 2016.2     | 0.040 (CI = +/-0.047; p = 0.091)  | 0.185                   | +4.05%             |
| Loss Cost | 2017.1     | 0.039 (CI = +/-0.058; p = 0.163)  | 0.116                   | +3.95%             |
| Severity  | 2005.2     | 0.064 (CI = +/-0.010; p = 0.000)  | 0.838                   | +6.58%             |
| Severity  | 2006.1     | 0.067 (CI = +/-0.010; p = 0.000)  | 0.855                   | +6.89%             |
| Severity  | 2006.2     | 0.066 (CI = +/-0.011; p = 0.000)  | 0.841                   | +6.85%             |
| Severity  | 2007.1     | 0.067 (CI = +/-0.011; p = 0.000)  | 0.833                   | +6.94%             |
| Severity  | 2007.2     | 0.067 (CI = +/-0.012; p = 0.000)  | 0.817                   | +6.90%             |
| Severity  | 2008.1     | 0.069 (CI = +/-0.013; p = 0.000)  | 0.818                   | +7.13%             |
| Severity  | 2008.2     | 0.069 (CI = +/-0.013; p = 0.000)  | 0.803                   | +7.17%             |
| Severity  | 2009.1     | 0.074 (CI = +/-0.013; p = 0.000)  | 0.831                   | +7.65%             |
| Severity  | 2009.2     | 0.077 (CI = +/-0.014; p = 0.000)  | 0.840                   | +8.01%             |
| Severity  | 2010.1     | 0.082 (CI = +/-0.014; p = 0.000)  | 0.864                   | +8.53%             |
| Severity  | 2010.2     | 0.085 (CI = +/-0.014; p = 0.000)  | 0.869                   | +8.90%             |
| Severity  | 2011.1     | 0.091 (CI = +/-0.014; p = 0.000)  | 0.894                   | +9.50%             |
| Severity  | 2011.2     | 0.092 (CI = +/-0.015; p = 0.000)  | 0.883                   | +9.61%             |
| Severity  | 2012.1     | 0.098 (CI = +/-0.015; p = 0.000)  | 0.905                   | +10.26%            |
| Severity  | 2012.2     | 0.102 (CI = +/-0.015; p = 0.000)  | 0.913                   | +10.77%            |
| Severity  | 2013.1     | 0.112 (CI = +/-0.011; p = 0.000)  | 0.963                   | +11.84%            |
| Severity  | 2013.2     | 0.113 (CI = +/-0.012; p = 0.000)  | 0.959                   | +12.01%            |
| Severity  | 2014.1     | 0.118 (CI = +/-0.012; p = 0.000)  | 0.963                   | +12.48%            |
| Severity  | 2014.2     | 0.114 (CI = +/-0.013; p = 0.000)  | 0.958                   | +12.08%            |
| Severity  | 2015.1     | 0.114 (CI = +/-0.015; p = 0.000)  | 0.950                   | +12.11%            |
| Severity  | 2015.2     | 0.114 (CI = +/-0.018; p = 0.000)  | 0.938                   | +12.11%            |
| Severity  | 2016.1     | 0.123 (CI = +/-0.017; p = 0.000)  | 0.956                   | +13.06%            |
| Severity  | 2016.2     | 0.120 (CI = +/-0.019; p = 0.000)  | 0.944                   | +12.75%            |
| Severity  | 2017.1     | 0.124 (CI = +/-0.023; p = 0.000)  | 0.939                   | +13.26%            |
| Frequency | 2005.2     | -0.016 (CI = +/-0.009; p = 0.001) | 0.284                   | -1.61%             |
| Frequency | 2006.1     | -0.015 (CI = +/-0.009; p = 0.002) | 0.246                   | -1.54%             |
| Frequency | 2006.2     | -0.015 (CI = +/-0.010; p = 0.004) | 0.219                   | -1.50%             |
| Frequency | 2007.1     | -0.014 (CI = +/-0.010; p = 0.012) | 0.171                   | -1.36%             |
| Frequency | 2007.2     | -0.013 (CI = +/-0.011; p = 0.022) | 0.145                   | -1.32%             |
| Frequency | 2008.1     | -0.012 (CI = +/-0.012; p = 0.046) | 0.108                   | -1.21%             |
| Frequency | 2008.2     | -0.013 (CI = +/-0.013; p = 0.055) | 0.101                   | -1.25%             |
| Frequency | 2009.1     | -0.013 (CI = +/-0.014; p = 0.065) | 0.095                   | -1.29%             |
| Frequency | 2009.2     | -0.015 (CI = +/-0.015; p = 0.041) | 0.127                   | -1.52%             |
| Frequency | 2010.1     | -0.016 (CI = +/-0.016; p = 0.045) | 0.126                   | -1.61%             |
| Frequency | 2010.2     | -0.020 (CI = +/-0.017; p = 0.018) | 0.192                   | -2.01%             |
| Frequency | 2011.1     | -0.022 (CI = +/-0.018; p = 0.020) | 0.194                   | -2.15%             |
| Frequency | 2011.2     | -0.024 (CI = +/-0.019; p = 0.018) | 0.213                   | -2.39%             |
| Frequency | 2012.1     | -0.028 (CI = +/-0.021; p = 0.012) | 0.254                   | -2.76%             |
| Frequency | 2012.2     | -0.034 (CI = +/-0.022; p = 0.004) | 0.337                   | -3.33%             |
| Frequency | 2013.1     | -0.038 (CI = +/-0.024; p = 0.004) | 0.358                   | -3.68%             |
| Frequency | 2013.2     | -0.043 (CI = +/-0.026; p = 0.003) | 0.397                   | -4.17%             |
| Frequency | 2014.1     | -0.044 (CI = +/-0.029; p = 0.006) | 0.368                   | -4.30%             |
| Frequency | 2014.2     | -0.050 (CI = +/-0.032; p = 0.005) | 0.403                   | -4.89%             |
| Frequency | 2015.1     | -0.052 (CI = +/-0.037; p = 0.009) | 0.375                   | -5.11%             |
| Frequency | 2015.2     | -0.061 (CI = +/-0.041; p = 0.008) | 0.414                   | -5.88%             |
| Frequency | 2016.1     | -0.065 (CI = +/-0.048; p = 0.013) | 0.390                   | -6.27%             |
| Frequency | 2016.2     | -0.080 (CI = +/-0.053; p = 0.007) | 0.486                   | -7.71%             |
| Frequency | 2017.1     | -0.086 (CI = +/-0.064; p = 0.014) | 0.449                   | -8.22%             |

**Accident Benefits Total**

Coverage = AB Total

End Trend Period = 2022.1

Excluded Points = NA

Parameters Included: time, scalar\_level\_change, trend\_level\_change, seasonality

Scalar Level Change Start Date = 2015-01-01

Future Trend Start Date = 2015-01-01

| Fit       | Start Date | Time                              | Seasonality                       | Scalar Shift                      | Trend Shift                       | Adjusted R <sup>2</sup> | Implied Past<br>Trend Rate | Implied Future<br>Trend Rate |
|-----------|------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|----------------------------|------------------------------|
| Loss Cost | 2005.2     | 0.014 (CI = +/-0.014; p = 0.058)  | -0.190 (CI = +/-0.059; p = 0.000) | 0.157 (CI = +/-0.121; p = 0.013)  | 0.048 (CI = +/-0.025; p = 0.001)  | 0.908                   | +1.41%                     | +6.39%                       |
| Loss Cost | 2006.1     | 0.018 (CI = +/-0.015; p = 0.022)  | -0.182 (CI = +/-0.059; p = 0.000) | 0.144 (CI = +/-0.120; p = 0.020)  | 0.044 (CI = +/-0.025; p = 0.002)  | 0.914                   | +1.85%                     | +6.39%                       |
| Loss Cost | 2006.2     | 0.017 (CI = +/-0.017; p = 0.054)  | -0.179 (CI = +/-0.061; p = 0.000) | 0.148 (CI = +/-0.123; p = 0.020)  | 0.045 (CI = +/-0.027; p = 0.002)  | 0.908                   | +1.69%                     | +6.39%                       |
| Loss Cost | 2007.1     | 0.015 (CI = +/-0.019; p = 0.111)  | -0.182 (CI = +/-0.063; p = 0.000) | 0.152 (CI = +/-0.127; p = 0.021)  | 0.047 (CI = +/-0.028; p = 0.002)  | 0.906                   | +1.54%                     | +6.39%                       |
| Loss Cost | 2007.2     | 0.014 (CI = +/-0.021; p = 0.195)  | -0.180 (CI = +/-0.065; p = 0.000) | 0.155 (CI = +/-0.131; p = 0.022)  | 0.048 (CI = +/-0.030; p = 0.003)  | 0.899                   | +1.39%                     | +6.39%                       |
| Loss Cost | 2008.1     | 0.015 (CI = +/-0.024; p = 0.216)  | -0.178 (CI = +/-0.068; p = 0.000) | 0.153 (CI = +/-0.136; p = 0.029)  | 0.047 (CI = +/-0.033; p = 0.007)  | 0.897                   | +1.51%                     | +6.39%                       |
| Loss Cost | 2008.2     | 0.013 (CI = +/-0.028; p = 0.349)  | -0.176 (CI = +/-0.071; p = 0.000) | 0.157 (CI = +/-0.141; p = 0.030)  | 0.049 (CI = +/-0.035; p = 0.009)  | 0.889                   | +1.28%                     | +6.39%                       |
| Loss Cost | 2009.1     | 0.017 (CI = +/-0.032; p = 0.294)  | -0.172 (CI = +/-0.073; p = 0.000) | 0.150 (CI = +/-0.146; p = 0.045)  | 0.045 (CI = +/-0.039; p = 0.025)  | 0.888                   | +1.67%                     | +6.39%                       |
| Loss Cost | 2009.2     | 0.020 (CI = +/-0.037; p = 0.268)  | -0.175 (CI = +/-0.076; p = 0.000) | 0.144 (CI = +/-0.152; p = 0.062)  | 0.042 (CI = +/-0.044; p = 0.060)  | 0.881                   | +2.04%                     | +6.39%                       |
| Loss Cost | 2010.1     | 0.024 (CI = +/-0.044; p = 0.271)  | -0.172 (CI = +/-0.080; p = 0.000) | 0.138 (CI = +/-0.160; p = 0.086)  | 0.038 (CI = +/-0.050; p = 0.128)  | 0.878                   | +2.42%                     | +6.39%                       |
| Loss Cost | 2010.2     | 0.020 (CI = +/-0.053; p = 0.435)  | -0.170 (CI = +/-0.084; p = 0.000) | 0.143 (CI = +/-0.168; p = 0.090)  | 0.042 (CI = +/-0.058; p = 0.148)  | 0.863                   | +2.03%                     | +6.39%                       |
| Loss Cost | 2011.1     | 0.025 (CI = +/-0.065; p = 0.427)  | -0.167 (CI = +/-0.088; p = 0.001) | 0.137 (CI = +/-0.178; p = 0.124)  | 0.037 (CI = +/-0.070; p = 0.286)  | 0.859                   | +2.56%                     | +6.39%                       |
| Loss Cost | 2011.2     | 0.016 (CI = +/-0.082; p = 0.679)  | -0.164 (CI = +/-0.092; p = 0.002) | 0.145 (CI = +/-0.188; p = 0.122)  | 0.046 (CI = +/-0.086; p = 0.276)  | 0.838                   | +1.64%                     | +6.39%                       |
| Loss Cost | 2012.1     | -0.007 (CI = +/-0.106; p = 0.897) | -0.172 (CI = +/-0.097; p = 0.002) | 0.165 (CI = +/-0.201; p = 0.100)  | 0.069 (CI = +/-0.110; p = 0.204)  | 0.831                   | -0.66%                     | +6.39%                       |
| Loss Cost | 2012.2     | -0.023 (CI = +/-0.144; p = 0.741) | -0.169 (CI = +/-0.102; p = 0.003) | 0.176 (CI = +/-0.216; p = 0.103)  | 0.085 (CI = +/-0.146; p = 0.237)  | 0.807                   | -2.24%                     | +6.39%                       |
| Loss Cost | 2013.1     | 0.018 (CI = +/-0.214; p = 0.858)  | -0.161 (CI = +/-0.110; p = 0.007) | 0.154 (CI = +/-0.236; p = 0.184)  | 0.044 (CI = +/-0.216; p = 0.670)  | 0.804                   | +1.83%                     | +6.39%                       |
| Loss Cost | 2013.2     | 0.008 (CI = +/-0.346; p = 0.961)  | -0.160 (CI = +/-0.117; p = 0.011) | 0.157 (CI = +/-0.261; p = 0.215)  | 0.054 (CI = +/-0.347; p = 0.742)  | 0.759                   | +0.80%                     | +6.39%                       |
| Loss Cost | 2014.1     | 0.194 (CI = +/-0.762; p = 0.589)  | -0.146 (CI = +/-0.131; p = 0.032) | 0.124 (CI = +/-0.296; p = 0.382)  | -0.132 (CI = +/-0.763; p = 0.712) | 0.744                   | +21.44%                    | +6.39%                       |
| Loss Cost | 2014.2     | 0.062 (CI = +/-0.030; p = 0.001)  | -0.146 (CI = +/-0.131; p = 0.032) | 0.124 (CI = +/-0.296; p = 0.382)  | NA (CI = +/-NA; p = NA)           | 0.657                   | +6.39%                     | +6.39%                       |
| Loss Cost | 2015.1     | 0.062 (CI = +/-0.030; p = 0.001)  | -0.146 (CI = +/-0.131; p = 0.032) | NA (CI = +/-NA; p = NA)           | NA (CI = +/-NA; p = NA)           | 0.630                   | +6.39%                     | +6.39%                       |
| Loss Cost | 2015.2     | 0.058 (CI = +/-0.035; p = 0.004)  | -0.136 (CI = +/-0.142; p = 0.059) | NA (CI = +/-NA; p = NA)           | NA (CI = +/-NA; p = NA)           | 0.517                   | +5.97%                     | +5.97%                       |
| Loss Cost | 2016.1     | 0.058 (CI = +/-0.041; p = 0.011)  | -0.136 (CI = +/-0.156; p = 0.080) | NA (CI = +/-NA; p = NA)           | NA (CI = +/-NA; p = NA)           | 0.490                   | +5.97%                     | +5.97%                       |
| Loss Cost | 2016.2     | 0.044 (CI = +/-0.046; p = 0.057)  | -0.106 (CI = +/-0.158; p = 0.163) | NA (CI = +/-NA; p = NA)           | NA (CI = +/-NA; p = NA)           | 0.279                   | +4.51%                     | +4.51%                       |
| Loss Cost | 2017.1     | 0.039 (CI = +/-0.055; p = 0.142)  | -0.116 (CI = +/-0.174; p = 0.164) | NA (CI = +/-NA; p = NA)           | NA (CI = +/-NA; p = NA)           | 0.231                   | +3.95%                     | +3.95%                       |
| Severity  | 2005.2     | 0.030 (CI = +/-0.014; p = 0.000)  | -0.095 (CI = +/-0.058; p = 0.002) | -0.026 (CI = +/-0.118; p = 0.654) | 0.085 (CI = +/-0.025; p = 0.000)  | 0.943                   | +3.03%                     | +12.11%                      |
| Severity  | 2006.1     | 0.033 (CI = +/-0.015; p = 0.000)  | -0.090 (CI = +/-0.059; p = 0.004) | -0.034 (CI = +/-0.120; p = 0.561) | 0.082 (CI = +/-0.025; p = 0.000)  | 0.944                   | +3.32%                     | +12.11%                      |
| Severity  | 2006.2     | 0.027 (CI = +/-0.016; p = 0.002)  | -0.081 (CI = +/-0.057; p = 0.007) | -0.019 (CI = +/-0.116; p = 0.733) | 0.088 (CI = +/-0.025; p = 0.000)  | 0.945                   | +2.72%                     | +12.11%                      |
| Severity  | 2007.1     | 0.020 (CI = +/-0.017; p = 0.020)  | -0.091 (CI = +/-0.056; p = 0.002) | -0.002 (CI = +/-0.112; p = 0.966) | 0.094 (CI = +/-0.025; p = 0.000)  | 0.949                   | +2.04%                     | +12.11%                      |
| Severity  | 2007.2     | 0.012 (CI = +/-0.017; p = 0.167)  | -0.080 (CI = +/-0.052; p = 0.004) | 0.017 (CI = +/-0.103; p = 0.738)  | 0.103 (CI = +/-0.024; p = 0.000)  | 0.955                   | +1.17%                     | +12.11%                      |
| Severity  | 2008.1     | 0.006 (CI = +/-0.018; p = 0.494)  | -0.087 (CI = +/-0.052; p = 0.002) | 0.029 (CI = +/-0.103; p = 0.566)  | 0.108 (CI = +/-0.025; p = 0.000)  | 0.957                   | +0.62%                     | +12.11%                      |
| Severity  | 2008.2     | -0.004 (CI = +/-0.018; p = 0.644) | -0.077 (CI = +/-0.047; p = 0.003) | 0.049 (CI = +/-0.094; p = 0.290)  | 0.119 (CI = +/-0.024; p = 0.000)  | 0.964                   | -0.42%                     | +12.11%                      |
| Severity  | 2009.1     | -0.009 (CI = +/-0.021; p = 0.746) | -0.076 (CI = +/-0.049; p = 0.004) | 0.048 (CI = +/-0.098; p = 0.325)  | 0.118 (CI = +/-0.026; p = 0.000)  | 0.963                   | -0.34%                     | +12.11%                      |
| Severity  | 2009.2     | -0.003 (CI = +/-0.025; p = 0.807) | -0.076 (CI = +/-0.051; p = 0.006) | 0.047 (CI = +/-0.103; p = 0.351)  | 0.117 (CI = +/-0.029; p = 0.000)  | 0.961                   | -0.30%                     | +12.11%                      |
| Severity  | 2010.1     | -0.003 (CI = +/-0.030; p = 0.834) | -0.076 (CI = +/-0.054; p = 0.008) | 0.047 (CI = +/-0.108; p = 0.374)  | 0.117 (CI = +/-0.034; p = 0.000)  | 0.960                   | -0.30%                     | +12.11%                      |
| Severity  | 2010.2     | -0.004 (CI = +/-0.036; p = 0.806) | -0.076 (CI = +/-0.057; p = 0.012) | 0.049 (CI = +/-0.114; p = 0.381)  | 0.119 (CI = +/-0.039; p = 0.000)  | 0.958                   | -0.42%                     | +12.11%                      |
| Severity  | 2011.1     | -0.003 (CI = +/-0.044; p = 0.891) | -0.075 (CI = +/-0.060; p = 0.018) | 0.047 (CI = +/-0.121; p = 0.424)  | 0.117 (CI = +/-0.048; p = 0.000)  | 0.956                   | -0.29%                     | +12.11%                      |
| Severity  | 2011.2     | -0.032 (CI = +/-0.049; p = 0.181) | -0.064 (CI = +/-0.056; p = 0.026) | 0.075 (CI = +/-0.113; p = 0.177)  | 0.147 (CI = +/-0.051; p = 0.000)  | 0.962                   | -3.19%                     | +12.11%                      |
| Severity  | 2012.1     | -0.043 (CI = +/-0.064; p = 0.171) | -0.068 (CI = +/-0.059; p = 0.026) | 0.085 (CI = +/-0.121; p = 0.156)  | 0.158 (CI = +/-0.066; p = 0.000)  | 0.961                   | -4.25%                     | +12.11%                      |
| Severity  | 2012.2     | -0.053 (CI = +/-0.087; p = 0.216) | -0.066 (CI = +/-0.062; p = 0.038) | 0.091 (CI = +/-0.130; p = 0.158)  | 0.167 (CI = +/-0.088; p = 0.001)  | 0.958                   | -5.12%                     | +12.11%                      |
| Severity  | 2013.1     | 0.028 (CI = +/-0.114; p = 0.613)  | -0.050 (CI = +/-0.059; p = 0.090) | 0.049 (CI = +/-0.126; p = 0.422)  | 0.087 (CI = +/-0.115; p = 0.128)  | 0.967                   | +2.79%                     | +12.11%                      |
| Severity  | 2013.2     | 0.022 (CI = +/-0.185; p = 0.800)  | -0.050 (CI = +/-0.062; p = 0.110) | 0.050 (CI = +/-0.139; p = 0.448)  | 0.092 (CI = +/-0.185; p = 0.302)  | 0.962                   | +2.24%                     | +12.11%                      |
| Severity  | 2014.1     | 0.240 (CI = +/-0.383; p = 0.197)  | -0.033 (CI = +/-0.066; p = 0.296) | 0.011 (CI = +/-0.149; p = 0.877)  | -0.126 (CI = +/-0.383; p = 0.489) | 0.963                   | +27.12%                    | +12.11%                      |
| Severity  | 2014.2     | 0.114 (CI = +/-0.015; p = 0.000)  | -0.033 (CI = +/-0.066; p = 0.296) | 0.011 (CI = +/-0.149; p = 0.877)  | NA (CI = +/-NA; p = NA)           | 0.956                   | +12.11%                    | +12.11%                      |
| Severity  | 2015.1     | 0.114 (CI = +/-0.015; p = 0.000)  | -0.033 (CI = +/-0.066; p = 0.296) | NA (CI = +/-NA; p = NA)           | NA (CI = +/-NA; p = NA)           | 0.950                   | +12.11%                    | +12.11%                      |
| Severity  | 2015.2     | 0.115 (CI = +/-0.018; p = 0.000)  | -0.036 (CI = +/-0.072; p = 0.298) | NA (CI = +/-NA; p = NA)           | NA (CI = +/-NA; p = NA)           | 0.939                   | +12.24%                    | +12.24%                      |
| Severity  | 2016.1     | 0.123 (CI = +/-0.017; p = 0.000)  | -0.020 (CI = +/-0.065; p = 0.512) | NA (CI = +/-NA; p = NA)           | NA (CI = +/-NA; p = NA)           | 0.954                   | +13.06%                    | +13.06%                      |
| Severity  | 2016.2     | 0.121 (CI = +/-0.021; p = 0.000)  | -0.015 (CI = +/-0.072; p = 0.646) | NA (CI = +/-NA; p = NA)           | NA (CI = +/-NA; p = NA)           | 0.940                   | +12.82%                    | +12.82%                      |
| Severity  | 2017.1     | 0.124 (CI = +/-0.024; p = 0.000)  | -0.008 (CI = +/-0.078; p = 0.819) | NA (CI = +/-NA; p = NA)           | NA (CI = +/-NA; p = NA)           | 0.931                   | +13.26%                    | +13.26%                      |
| Frequency | 2005.2     | -0.016 (CI = +/-0.018; p = 0.079) | -0.095 (CI = +/-0.073; p = 0.013) | 0.183 (CI = +/-0.149; p = 0.018)  | -0.037 (CI = +/-0.031; p = 0.023) | 0.496                   | -1.57%                     | -5.11%                       |
| Frequency | 2006.1     | -0.014 (CI = +/-0.020; p = 0.148) | -0.092 (CI = +/-0.076; p = 0.019) | 0.179 (CI = +/-0.153; p = 0.024)  | -0.038 (CI = +/-0.032; p = 0.023) | 0.465                   | -1.42%                     | -5.11%                       |
| Frequency | 2006.2     | -0.010 (CI = +/-0.021; p = 0.342) | -0.098 (CI = +/-0.077; p = 0.014) | 0.168 (CI = +/-0.155; p = 0.035)  | -0.042 (CI = +/-0.034; p = 0.015) | 0.463                   | -1.00%                     | -5.11%                       |
| Frequency | 2007.1     | -0.005 (CI = +/-0.023; p = 0.670) | -0.091 (CI = +/-0.078; p = 0.024) | 0.154 (CI = +/-0.156; p = 0.053)  | -0.047 (CI = +/-0.035; p = 0.010) | 0.437                   | -0.49%                     | -5.11%                       |
| Frequency | 2007.2     | 0.002 (CI = +/-0.025; p = 0.863)  | -0.100 (CI = +/-0.078; p = 0.014) | 0.138 (CI = +/-0.156; p = 0.079)  | -0.055 (CI = +/-0.036; p = 0.004) | 0.458                   | +0.22%                     | -5.11%                       |
| Frequency | 2008.1     | 0.009 (CI = +/-0.028; p = 0.529)  | -0.091 (CI = +/-0.079; p = 0.026) | 0.124 (CI = +/-0.158; p = 0.120)  | -0.061 (CI = +/-0.038; p = 0.003) | 0.452                   | +0.88%                     | -5.11%                       |
| Frequency | 2008.2     | 0.017 (CI = +/-0.031; p = 0.273)  | -0.100 (CI = +/-0.080; p = 0.017) | 0.108 (CI = +/-0.159; p = 0.174)  | -0.069 (CI = +/-0.040; p = 0.002) | 0.478                   | +1.71%                     | -5.11%                       |
| Frequency | 2009.1     | 0.020 (CI = +/-0.036; p = 0.265)  | -0.097 (CI = +/-0.083; p = 0.025) | 0.102 (CI = +/-0.166; p = 0.214)  | -0.072 (CI = +/-0.044; p = 0.003) | 0.475                   | +2.01%                     | -5.11%                       |
| Frequency | 2009.2     | 0.023 (CI = +/-0.042; p = 0.263)  | -0.099 (CI = +/-0.087; p = 0.027) | 0.097 (CI = +/-0.173; p = 0.256)  | -0.076 (CI = +/-0.050; p = 0.005) | 0.472                   | +2.35%                     | -5.11%                       |
| Frequency | 2010.1     | 0.027 (CI = +/-0.050; p = 0.274)  | -0.096 (CI = +/-0.091; p = 0.039) | 0.091 (CI = +/-0.181; p = 0.308)  | -0.079 (CI = +/-0.057; p = 0.009) | 0.468                   | +2.73%                     | -5.11%                       |
| Frequency | 2010.2     | 0.024 (CI = +/-0.060; p = 0.406)  | -0.095 (CI = +/-0.095; p = 0.051) | 0.094 (CI = +/-0.191; p = 0.313)  | -0.077 (CI = +/-0.066; p = 0.025) | 0.456                   | +2.47%                     | -5.11%                       |
| Frequency | 2011.1     | 0.028 (CI = +/-0.074; p = 0.436)  | -0.093 (CI = +/-0.101; p = 0.070) | 0.090 (CI = +/-0.203; p = 0.365)  | -0.081 (CI = +/-0.080; p = 0.048) | 0.448                   | +2.86%                     | -5.11%                       |
| Frequency | 2011.2     | 0.049 (CI = +/-0.092; p = 0.278)  | -0.100 (CI = +/-0.104; p = 0.058) | 0.070 (CI = +/-0.211; p = 0.494)  | -0.101 (CI = +/-0.096; p = 0.040) | 0.463                   | +4.99%                     | -5.11%                       |
| Frequency | 2012.1     | 0.037 (CI = +/-0.121; p = 0.528)  | -0.104 (CI = +/-0.111; p = 0.063) | 0.080 (CI = +/-0.228; p = 0.466)  | -0.089 (CI = +/-0.125; p = 0.149) | 0.460                   | +3.75%                     | -5.11%                       |
| Frequency | 2012.2     | 0.030 (CI = +/-0.164; p = 0.703)  | -0.103 (CI = +/-0.117; p = 0.080) | 0.085 (CI = +/-0.246; p = 0.474)  | -0.082 (CI = +/-0.167; p = 0.310) | 0.451                   | +3.04%                     | -5.11%                       |
| Frequency | 2013.1     | -0.009 (CI = +/-0.245; p = 0.936) | -0.111 (CI = +/-0.126; p = 0.080) | 0.105 (CI = +/-0.271; p = 0.418)  | -0.043 (CI = +/-0.247; p = 0.715) | 0.448                   | -0.94%                     | -5.11%                       |
| Frequency | 2013.2     | -0.014 (CI = +/-0.396; p = 0.940) | -0.111 (CI = +/-0.134; p = 0.097) | 0.107 (CI = +/-0.299; p = 0.453)  | -0.038 (CI = +/-0.398; p = 0.839) | 0.437                   | -1.41%                     | -5.11%                       |
| Frequency | 2014.1     | -0.046 (CI = +/-0.886; p = 0.912) | -0.113 (CI = +/-0.152; p = 0.132) | 0.113 (CI = +/-0.344; p = 0.490)  | -0.007 (CI = +/-0.887; p = 0.987) | 0.399                   | -4.47%                     | -5.11%                       |
| Frequency | 2014.2     | -0.052 (CI = +/-0.035; p = 0.007) | -0.113 (CI = +/-0.152; p = 0.132) | 0.113 (CI = +/-0.344; p = 0.490)  | NA (CI = +/-NA; p = NA)           | 0.432                   | -5.11%                     | -5.11%                       |
| Frequency | 2015.1     | -0.052 (CI = +/-0.035; p = 0.007) | -0.113 (CI = +/-0.152; p = 0.132) | NA (CI = +/-NA; p = NA)           | NA (CI = +/-NA; p = NA)           | 0.444                   | -5.11%                     | -5.11%                       |
| Frequency | 2015.2     | -0.057 (CI = +/-0.041; p = 0.010) | -0.100 (CI = +/-0.164; p = 0.207) | NA (CI = +/-NA; p = NA)           | NA (CI = +/-NA; p = NA)           | 0.450                   | -5.59%                     | -5.59%                       |
| Frequency | 2016.1     | -0.065 (CI = +/-0.047; p = 0.011) | -0.116 (CI = +/-0.175; p = 0.169) | NA (CI = +/-NA; p = NA)           | NA (CI = +/-NA; p = NA)           | 0.450                   | -6.27%                     | -6.27%                       |
| Frequency | 2016.2     | -0.076 (CI = +/-0.054; p = 0.011) | -0.091 (CI = +/-0.186; p = 0.297) | NA (CI = +/-NA; p = NA)           | NA (CI = +/-NA; p = NA)           | 0.497                   | -7.36%                     | -7.36%                       |
| Frequency | 2017.1     | -0.086 (CI = +/-0.064; p = 0.014) | -0.108 (CI = +/-0.202; p = 0.253) | NA (CI = +/-NA; p = NA)           | NA (CI = +/-NA; p = NA)           | 0.479                   | -8.22%                     | -8.22%                       |

## Accident Benefits Total

Coverage = AB Total

End Trend Period = 2022.1

Excluded Points = NA

Parameters Included: time, scalar\_level\_change, seasonality

Scalar Level Change Start Date = 2015-01-01

| Fit       | Start Date | Time                              | Seasonality                       | Scalar Shift                      | Adjusted R <sup>2</sup> | Implied Trend Rate |
|-----------|------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|--------------------|
| Loss Cost | 2005.2     | 0.030 (CI = +/-0.014; p = 0.000)  | -0.190 (CI = +/-0.072; p = 0.000) | 0.215 (CI = +/-0.142; p = 0.004)  | 0.864                   | +3.02%             |
| Loss Cost | 2006.1     | 0.034 (CI = +/-0.014; p = 0.000)  | -0.178 (CI = +/-0.070; p = 0.000) | 0.186 (CI = +/-0.138; p = 0.010)  | 0.881                   | +3.50%             |
| Loss Cost | 2006.2     | 0.035 (CI = +/-0.015; p = 0.000)  | -0.179 (CI = +/-0.072; p = 0.000) | 0.182 (CI = +/-0.143; p = 0.015)  | 0.872                   | +3.58%             |
| Loss Cost | 2007.1     | 0.036 (CI = +/-0.017; p = 0.000)  | -0.176 (CI = +/-0.074; p = 0.000) | 0.175 (CI = +/-0.148; p = 0.023)  | 0.870                   | +3.71%             |
| Loss Cost | 2007.2     | 0.038 (CI = +/-0.018; p = 0.000)  | -0.180 (CI = +/-0.077; p = 0.000) | 0.167 (CI = +/-0.153; p = 0.033)  | 0.861                   | +3.86%             |
| Loss Cost | 2008.1     | 0.041 (CI = +/-0.019; p = 0.000)  | -0.172 (CI = +/-0.078; p = 0.000) | 0.152 (CI = +/-0.155; p = 0.055)  | 0.865                   | +4.18%             |
| Loss Cost | 2008.2     | 0.043 (CI = +/-0.020; p = 0.000)  | -0.176 (CI = +/-0.080; p = 0.000) | 0.145 (CI = +/-0.160; p = 0.073)  | 0.855                   | +4.35%             |
| Loss Cost | 2009.1     | 0.047 (CI = +/-0.020; p = 0.000)  | -0.166 (CI = +/-0.080; p = 0.000) | 0.128 (CI = +/-0.159; p = 0.110)  | 0.865                   | +4.78%             |
| Loss Cost | 2009.2     | 0.050 (CI = +/-0.021; p = 0.000)  | -0.175 (CI = +/-0.081; p = 0.000) | 0.116 (CI = +/-0.158; p = 0.143)  | 0.865                   | +5.15%             |
| Loss Cost | 2010.1     | 0.053 (CI = +/-0.022; p = 0.000)  | -0.166 (CI = +/-0.082; p = 0.000) | 0.106 (CI = +/-0.159; p = 0.180)  | 0.869                   | +5.48%             |
| Loss Cost | 2010.2     | 0.055 (CI = +/-0.023; p = 0.000)  | -0.170 (CI = +/-0.086; p = 0.001) | 0.104 (CI = +/-0.163; p = 0.199)  | 0.855                   | +5.61%             |
| Loss Cost | 2011.1     | 0.057 (CI = +/-0.023; p = 0.000)  | -0.162 (CI = +/-0.088; p = 0.001) | 0.100 (CI = +/-0.163; p = 0.218)  | 0.857                   | +5.89%             |
| Loss Cost | 2011.2     | 0.058 (CI = +/-0.025; p = 0.000)  | -0.164 (CI = +/-0.093; p = 0.002) | 0.100 (CI = +/-0.168; p = 0.229)  | 0.836                   | +5.95%             |
| Loss Cost | 2012.1     | 0.058 (CI = +/-0.026; p = 0.000)  | -0.163 (CI = +/-0.098; p = 0.003) | 0.100 (CI = +/-0.174; p = 0.242)  | 0.824                   | +5.97%             |
| Loss Cost | 2012.2     | 0.059 (CI = +/-0.027; p = 0.000)  | -0.169 (CI = +/-0.103; p = 0.003) | 0.106 (CI = +/-0.180; p = 0.232)  | 0.800                   | +6.08%             |
| Loss Cost | 2013.1     | 0.061 (CI = +/-0.027; p = 0.000)  | -0.156 (CI = +/-0.104; p = 0.006) | 0.125 (CI = +/-0.180; p = 0.161)  | 0.814                   | +6.31%             |
| Loss Cost | 2013.2     | 0.062 (CI = +/-0.028; p = 0.000)  | -0.160 (CI = +/-0.112; p = 0.008) | 0.132 (CI = +/-0.196; p = 0.171)  | 0.774                   | +6.35%             |
| Loss Cost | 2014.1     | 0.062 (CI = +/-0.029; p = 0.000)  | -0.154 (CI = +/-0.118; p = 0.015) | 0.156 (CI = +/-0.220; p = 0.150)  | 0.761                   | +6.41%             |
| Loss Cost | 2014.2     | 0.062 (CI = +/-0.030; p = 0.001)  | -0.146 (CI = +/-0.131; p = 0.032) | 0.124 (CI = +/-0.296; p = 0.382)  | 0.657                   | +6.39%             |
| Loss Cost | 2015.1     | 0.062 (CI = +/-0.030; p = 0.001)  | -0.146 (CI = +/-0.131; p = 0.032) | NA (CI = +/-NA; p = NA)           | 0.630                   | +6.39%             |
| Loss Cost | 2015.2     | 0.058 (CI = +/-0.035; p = 0.004)  | -0.136 (CI = +/-0.142; p = 0.059) | NA (CI = +/-NA; p = NA)           | 0.517                   | +5.97%             |
| Loss Cost | 2016.1     | 0.058 (CI = +/-0.041; p = 0.011)  | -0.136 (CI = +/-0.156; p = 0.080) | NA (CI = +/-NA; p = NA)           | 0.490                   | +5.97%             |
| Loss Cost | 2016.2     | 0.044 (CI = +/-0.046; p = 0.057)  | -0.106 (CI = +/-0.158; p = 0.163) | NA (CI = +/-NA; p = NA)           | 0.279                   | +4.51%             |
| Loss Cost | 2017.1     | 0.039 (CI = +/-0.055; p = 0.142)  | -0.116 (CI = +/-0.174; p = 0.164) | NA (CI = +/-NA; p = NA)           | 0.231                   | +3.95%             |
|           |            |                                   |                                   |                                   |                         |                    |
| Severity  | 2005.2     | 0.058 (CI = +/-0.019; p = 0.000)  | -0.095 (CI = +/-0.094; p = 0.047) | 0.075 (CI = +/-0.185; p = 0.411)  | 0.851                   | +5.94%             |
| Severity  | 2006.1     | 0.063 (CI = +/-0.019; p = 0.000)  | -0.082 (CI = +/-0.092; p = 0.082) | 0.045 (CI = +/-0.184; p = 0.624)  | 0.861                   | +6.47%             |
| Severity  | 2006.2     | 0.062 (CI = +/-0.021; p = 0.000)  | -0.081 (CI = +/-0.096; p = 0.094) | 0.046 (CI = +/-0.191; p = 0.627)  | 0.848                   | +6.44%             |
| Severity  | 2007.1     | 0.063 (CI = +/-0.022; p = 0.000)  | -0.080 (CI = +/-0.099; p = 0.110) | 0.043 (CI = +/-0.198; p = 0.658)  | 0.837                   | +6.49%             |
| Severity  | 2007.2     | 0.063 (CI = +/-0.024; p = 0.000)  | -0.080 (CI = +/-0.103; p = 0.121) | 0.043 (CI = +/-0.206; p = 0.674)  | 0.821                   | +6.50%             |
| Severity  | 2008.1     | 0.066 (CI = +/-0.025; p = 0.000)  | -0.073 (CI = +/-0.106; p = 0.169) | 0.027 (CI = +/-0.211; p = 0.793)  | 0.818                   | +6.83%             |
| Severity  | 2008.2     | 0.068 (CI = +/-0.027; p = 0.000)  | -0.077 (CI = +/-0.110; p = 0.162) | 0.020 (CI = +/-0.218; p = 0.848)  | 0.804                   | +7.00%             |
| Severity  | 2009.1     | 0.075 (CI = +/-0.027; p = 0.000)  | -0.058 (CI = +/-0.107; p = 0.268) | -0.010 (CI = +/-0.211; p = 0.925) | 0.826                   | +7.77%             |
| Severity  | 2009.2     | 0.081 (CI = +/-0.027; p = 0.000)  | -0.076 (CI = +/-0.104; p = 0.142) | -0.031 (CI = +/-0.203; p = 0.753) | 0.843                   | +8.47%             |
| Severity  | 2010.1     | 0.088 (CI = +/-0.026; p = 0.000)  | -0.058 (CI = +/-0.100; p = 0.240) | -0.052 (CI = +/-0.193; p = 0.579) | 0.863                   | +9.19%             |
| Severity  | 2010.2     | 0.093 (CI = +/-0.026; p = 0.000)  | -0.076 (CI = +/-0.097; p = 0.119) | -0.063 (CI = +/-0.184; p = 0.483) | 0.876                   | +9.79%             |
| Severity  | 2011.1     | 0.099 (CI = +/-0.024; p = 0.000)  | -0.057 (CI = +/-0.091; p = 0.207) | -0.072 (CI = +/-0.170; p = 0.385) | 0.897                   | +10.44%            |
| Severity  | 2011.2     | 0.101 (CI = +/-0.025; p = 0.000)  | -0.064 (CI = +/-0.095; p = 0.175) | -0.071 (CI = +/-0.173; p = 0.397) | 0.888                   | +10.63%            |
| Severity  | 2012.1     | 0.105 (CI = +/-0.024; p = 0.000)  | -0.047 (CI = +/-0.090; p = 0.291) | -0.065 (CI = +/-0.161; p = 0.403) | 0.905                   | +11.10%            |
| Severity  | 2012.2     | 0.109 (CI = +/-0.022; p = 0.000)  | -0.066 (CI = +/-0.086; p = 0.122) | -0.047 (CI = +/-0.150; p = 0.513) | 0.919                   | +11.47%            |
| Severity  | 2013.1     | 0.113 (CI = +/-0.015; p = 0.000)  | -0.041 (CI = +/-0.060; p = 0.167) | -0.010 (CI = +/-0.104; p = 0.844) | 0.963                   | +11.95%            |
| Severity  | 2013.2     | 0.114 (CI = +/-0.016; p = 0.000)  | -0.050 (CI = +/-0.062; p = 0.110) | 0.007 (CI = +/-0.109; p = 0.889)  | 0.961                   | +12.04%            |
| Severity  | 2014.1     | 0.115 (CI = +/-0.015; p = 0.000)  | -0.040 (CI = +/-0.060; p = 0.170) | 0.042 (CI = +/-0.112; p = 0.438)  | 0.964                   | +12.14%            |
| Severity  | 2014.2     | 0.114 (CI = +/-0.015; p = 0.000)  | -0.033 (CI = +/-0.066; p = 0.296) | 0.011 (CI = +/-0.149; p = 0.877)  | 0.956                   | +12.11%            |
| Severity  | 2015.1     | 0.114 (CI = +/-0.015; p = 0.000)  | -0.033 (CI = +/-0.066; p = 0.296) | NA (CI = +/-NA; p = NA)           | 0.950                   | +12.11%            |
| Severity  | 2015.2     | 0.115 (CI = +/-0.018; p = 0.000)  | -0.036 (CI = +/-0.072; p = 0.298) | NA (CI = +/-NA; p = NA)           | 0.939                   | +12.24%            |
| Severity  | 2016.1     | 0.123 (CI = +/-0.017; p = 0.000)  | -0.020 (CI = +/-0.065; p = 0.512) | NA (CI = +/-NA; p = NA)           | 0.954                   | +13.06%            |
| Severity  | 2016.2     | 0.121 (CI = +/-0.021; p = 0.000)  | -0.015 (CI = +/-0.072; p = 0.646) | NA (CI = +/-NA; p = NA)           | 0.940                   | +12.82%            |
| Severity  | 2017.1     | 0.124 (CI = +/-0.024; p = 0.000)  | -0.008 (CI = +/-0.078; p = 0.819) | NA (CI = +/-NA; p = NA)           | 0.931                   | +13.26%            |
|           |            |                                   |                                   |                                   |                         |                    |
| Frequency | 2005.2     | -0.028 (CI = +/-0.016; p = 0.001) | -0.095 (CI = +/-0.079; p = 0.020) | 0.139 (CI = +/-0.155; p = 0.076)  | 0.415                   | -2.75%             |
| Frequency | 2006.1     | -0.028 (CI = +/-0.017; p = 0.002) | -0.096 (CI = +/-0.081; p = 0.022) | 0.142 (CI = +/-0.161; p = 0.083)  | 0.377                   | -2.79%             |
| Frequency | 2006.2     | -0.027 (CI = +/-0.018; p = 0.004) | -0.098 (CI = +/-0.084; p = 0.023) | 0.136 (CI = +/-0.167; p = 0.106)  | 0.354                   | -2.69%             |
| Frequency | 2007.1     | -0.026 (CI = +/-0.019; p = 0.009) | -0.096 (CI = +/-0.087; p = 0.031) | 0.131 (CI = +/-0.174; p = 0.132)  | 0.295                   | -2.61%             |
| Frequency | 2007.2     | -0.025 (CI = +/-0.021; p = 0.020) | -0.100 (CI = +/-0.090; p = 0.031) | 0.125 (CI = +/-0.180; p = 0.165)  | 0.275                   | -2.48%             |
| Frequency | 2008.1     | -0.025 (CI = +/-0.022; p = 0.029) | -0.099 (CI = +/-0.093; p = 0.038) | 0.125 (CI = +/-0.187; p = 0.181)  | 0.231                   | -2.48%             |
| Frequency | 2008.2     | -0.025 (CI = +/-0.024; p = 0.040) | -0.100 (CI = +/-0.097; p = 0.045) | 0.125 (CI = +/-0.193; p = 0.196)  | 0.222                   | -2.48%             |
| Frequency | 2009.1     | -0.028 (CI = +/-0.025; p = 0.030) | -0.107 (CI = +/-0.100; p = 0.036) | 0.137 (CI = +/-0.198; p = 0.164)  | 0.236                   | -2.77%             |
| Frequency | 2009.2     | -0.031 (CI = +/-0.026; p = 0.023) | -0.099 (CI = +/-0.103; p = 0.058) | 0.147 (CI = +/-0.201; p = 0.142)  | 0.254                   | -3.06%             |
| Frequency | 2010.1     | -0.035 (CI = +/-0.028; p = 0.017) | -0.108 (CI = +/-0.105; p = 0.044) | 0.158 (CI = +/-0.203; p = 0.120)  | 0.278                   | -3.39%             |
| Frequency | 2010.2     | -0.039 (CI = +/-0.028; p = 0.009) | -0.095 (CI = +/-0.106; p = 0.077) | 0.167 (CI = +/-0.201; p = 0.098)  | 0.322                   | -3.81%             |
| Frequency | 2011.1     | -0.042 (CI = +/-0.029; p = 0.007) | -0.105 (CI = +/-0.108; p = 0.058) | 0.172 (CI = +/-0.202; p = 0.091)  | 0.346                   | -4.12%             |
| Frequency | 2011.2     | -0.043 (CI = +/-0.030; p = 0.008) | -0.100 (CI = +/-0.114; p = 0.082) | 0.171 (CI = +/-0.207; p = 0.100)  | 0.346                   | -4.23%             |
| Frequency | 2012.1     | -0.047 (CI = +/-0.030; p = 0.004) | -0.116 (CI = +/-0.113; p = 0.044) | 0.165 (CI = +/-0.201; p = 0.101)  | 0.419                   | -4.62%             |
| Frequency | 2012.2     | -0.050 (CI = +/-0.030; p = 0.003) | -0.103 (CI = +/-0.117; p = 0.080) | 0.153 (CI = +/-0.203; p = 0.130)  | 0.448                   | -4.84%             |
| Frequency | 2013.1     | -0.052 (CI = +/-0.031; p = 0.003) | -0.115 (CI = +/-0.119; p = 0.056) | 0.134 (CI = +/-0.206; p = 0.185)  | 0.480                   | -5.04%             |
| Frequency | 2013.2     | -0.052 (CI = +/-0.032; p = 0.004) | -0.111 (CI = +/-0.128; p = 0.085) | 0.125 (CI = +/-0.224; p = 0.252)  | 0.476                   | -5.08%             |
| Frequency | 2014.1     | -0.052 (CI = +/-0.033; p = 0.005) | -0.113 (CI = +/-0.136; p = 0.095) | 0.114 (CI = +/-0.255; p = 0.349)  | 0.445                   | -5.10%             |
| Frequency | 2014.2     | -0.052 (CI = +/-0.035; p = 0.007) | -0.113 (CI = +/-0.152; p = 0.132) | 0.113 (CI = +/-0.344; p = 0.490)  | 0.432                   | -5.11%             |
| Frequency | 2015.1     | -0.052 (CI = +/-0.035; p = 0.007) | -0.113 (CI = +/-0.152; p = 0.132) | NA (CI = +/-NA; p = NA)           | 0.444                   | -5.11%             |
| Frequency | 2015.2     | -0.057 (CI = +/-0.041; p = 0.010) | -0.100 (CI = +/-0.164; p = 0.207) | NA (CI = +/-NA; p = NA)           | 0.450                   | -5.59%             |
| Frequency | 2016.1     | -0.065 (CI = +/-0.047; p = 0.011) | -0.116 (CI = +/-0.175; p = 0.169) | NA (CI = +/-NA; p = NA)           | 0.450                   | -6.27%             |
| Frequency | 2016.2     | -0.076 (CI = +/-0.054; p = 0.011) | -0.091 (CI = +/-0.186; p = 0.297) | NA (CI = +/-NA; p = NA)           | 0.497                   | -7.36%             |
| Frequency | 2017.1     | -0.086 (CI = +/-0.064; p = 0.014) | -0.108 (CI = +/-0.202; p = 0.253) | NA (CI = +/-NA; p = NA)           | 0.479                   | -8.22%             |

**Accident Benefits Total**

Coverage = AB Total

End Trend Period = 2022.1

Excluded Points = NA

Parameters Included: trend\_level\_change, seasonality

Future Trend Start Date = 2015-01-01

| Fit       | Start Date | Seasonality                       | Trend Shift                       | Adjusted R^2 | Implied Past Trend Rate | Implied Future Trend Rate |
|-----------|------------|-----------------------------------|-----------------------------------|--------------|-------------------------|---------------------------|
| Loss Cost | 2005.2     | -0.185 (CI = +/-0.077; p = 0.000) | 0.098 (CI = +/-0.016; p = 0.000)  | 0.844        | 0.00%                   | +10.30%                   |
| Loss Cost | 2006.1     | -0.184 (CI = +/-0.079; p = 0.000) | 0.098 (CI = +/-0.016; p = 0.000)  | 0.844        | 0.00%                   | +10.31%                   |
| Loss Cost | 2006.2     | -0.175 (CI = +/-0.079; p = 0.000) | 0.097 (CI = +/-0.016; p = 0.000)  | 0.842        | 0.00%                   | +10.15%                   |
| Loss Cost | 2007.1     | -0.183 (CI = +/-0.080; p = 0.000) | 0.095 (CI = +/-0.016; p = 0.000)  | 0.847        | 0.00%                   | +10.01%                   |
| Loss Cost | 2007.2     | -0.175 (CI = +/-0.081; p = 0.000) | 0.094 (CI = +/-0.016; p = 0.000)  | 0.843        | 0.00%                   | +9.86%                    |
| Loss Cost | 2008.1     | -0.179 (CI = +/-0.084; p = 0.000) | 0.093 (CI = +/-0.016; p = 0.000)  | 0.843        | 0.00%                   | +9.78%                    |
| Loss Cost | 2008.2     | -0.171 (CI = +/-0.085; p = 0.000) | 0.092 (CI = +/-0.017; p = 0.000)  | 0.838        | 0.00%                   | +9.62%                    |
| Loss Cost | 2009.1     | -0.173 (CI = +/-0.088; p = 0.000) | 0.091 (CI = +/-0.017; p = 0.000)  | 0.836        | 0.00%                   | +9.57%                    |
| Loss Cost | 2009.2     | -0.169 (CI = +/-0.092; p = 0.001) | 0.091 (CI = +/-0.018; p = 0.000)  | 0.826        | 0.00%                   | +9.49%                    |
| Loss Cost | 2010.1     | -0.175 (CI = +/-0.095; p = 0.001) | 0.090 (CI = +/-0.018; p = 0.000)  | 0.825        | 0.00%                   | +9.39%                    |
| Loss Cost | 2010.2     | -0.164 (CI = +/-0.096; p = 0.002) | 0.088 (CI = +/-0.019; p = 0.000)  | 0.816        | 0.00%                   | +9.16%                    |
| Loss Cost | 2011.1     | -0.169 (CI = +/-0.100; p = 0.002) | 0.087 (CI = +/-0.019; p = 0.000)  | 0.813        | 0.00%                   | +9.04%                    |
| Loss Cost | 2011.2     | -0.157 (CI = +/-0.102; p = 0.004) | 0.084 (CI = +/-0.020; p = 0.000)  | 0.801        | 0.00%                   | +8.76%                    |
| Loss Cost | 2012.1     | -0.169 (CI = +/-0.103; p = 0.003) | 0.081 (CI = +/-0.020; p = 0.000)  | 0.804        | 0.00%                   | +8.48%                    |
| Loss Cost | 2012.2     | -0.161 (CI = +/-0.107; p = 0.006) | 0.079 (CI = +/-0.021; p = 0.000)  | 0.781        | 0.00%                   | +8.27%                    |
| Loss Cost | 2013.1     | -0.161 (CI = +/-0.114; p = 0.009) | 0.080 (CI = +/-0.023; p = 0.000)  | 0.775        | 0.00%                   | +8.28%                    |
| Loss Cost | 2013.2     | -0.149 (CI = +/-0.119; p = 0.018) | 0.076 (CI = +/-0.024; p = 0.000)  | 0.740        | 0.00%                   | +7.74%                    |
| Loss Cost | 2014.1     | -0.156 (CI = +/-0.126; p = 0.019) | 0.074 (CI = +/-0.026; p = 0.000)  | 0.724        | 0.00%                   | +7.72%                    |
| Loss Cost | 2014.2     | -0.133 (CI = +/-0.125; p = 0.039) | 0.067 (CI = +/-0.027; p = 0.000)  | 0.662        | 0.00%                   | +6.94%                    |
| Loss Cost | 2015.1     | -0.146 (CI = +/-0.131; p = 0.032) | 0.062 (CI = +/-0.030; p = 0.001)  | 0.630        | 0.00%                   | +6.39%                    |
| Loss Cost | 2015.2     | -0.136 (CI = +/-0.142; p = 0.059) | 0.058 (CI = +/-0.035; p = 0.004)  | 0.517        | 0.00%                   | +5.97%                    |
| Loss Cost | 2016.1     | -0.136 (CI = +/-0.156; p = 0.080) | 0.058 (CI = +/-0.041; p = 0.011)  | 0.490        | 0.00%                   | +5.97%                    |
| Loss Cost | 2016.2     | -0.106 (CI = +/-0.158; p = 0.163) | 0.044 (CI = +/-0.046; p = 0.057)  | 0.279        | 0.00%                   | +4.51%                    |
| Loss Cost | 2017.1     | -0.116 (CI = +/-0.174; p = 0.164) | 0.039 (CI = +/-0.055; p = 0.142)  | 0.231        | 0.00%                   | +3.95%                    |
| Severity  | 2005.2     | -0.093 (CI = +/-0.075; p = 0.017) | 0.132 (CI = +/-0.015; p = 0.000)  | 0.903        | 0.00%                   | +14.12%                   |
| Severity  | 2006.1     | -0.098 (CI = +/-0.077; p = 0.015) | 0.131 (CI = +/-0.016; p = 0.000)  | 0.903        | 0.00%                   | +14.04%                   |
| Severity  | 2006.2     | -0.079 (CI = +/-0.069; p = 0.026) | 0.129 (CI = +/-0.014; p = 0.000)  | 0.920        | 0.00%                   | +13.71%                   |
| Severity  | 2007.1     | -0.095 (CI = +/-0.062; p = 0.004) | 0.126 (CI = +/-0.012; p = 0.000)  | 0.937        | 0.00%                   | +13.44%                   |
| Severity  | 2007.2     | -0.079 (CI = +/-0.053; p = 0.005) | 0.123 (CI = +/-0.011; p = 0.000)  | 0.952        | 0.00%                   | +13.14%                   |
| Severity  | 2008.1     | -0.088 (CI = +/-0.051; p = 0.002) | 0.122 (CI = +/-0.010; p = 0.000)  | 0.957        | 0.00%                   | +12.98%                   |
| Severity  | 2008.2     | -0.076 (CI = +/-0.046; p = 0.002) | 0.120 (CI = +/-0.009; p = 0.000)  | 0.965        | 0.00%                   | +12.75%                   |
| Severity  | 2009.1     | -0.075 (CI = +/-0.048; p = 0.004) | 0.120 (CI = +/-0.009; p = 0.000)  | 0.964        | 0.00%                   | +12.77%                   |
| Severity  | 2009.2     | -0.075 (CI = +/-0.050; p = 0.005) | 0.120 (CI = +/-0.010; p = 0.000)  | 0.963        | 0.00%                   | +12.77%                   |
| Severity  | 2010.1     | -0.075 (CI = +/-0.052; p = 0.007) | 0.120 (CI = +/-0.010; p = 0.000)  | 0.962        | 0.00%                   | +12.77%                   |
| Severity  | 2010.2     | -0.074 (CI = +/-0.055; p = 0.011) | 0.120 (CI = +/-0.011; p = 0.000)  | 0.960        | 0.00%                   | +12.75%                   |
| Severity  | 2011.1     | -0.074 (CI = +/-0.058; p = 0.015) | 0.120 (CI = +/-0.011; p = 0.000)  | 0.959        | 0.00%                   | +12.76%                   |
| Severity  | 2011.2     | -0.063 (CI = +/-0.056; p = 0.029) | 0.118 (CI = +/-0.011; p = 0.000)  | 0.961        | 0.00%                   | +12.51%                   |
| Severity  | 2012.1     | -0.061 (CI = +/-0.058; p = 0.041) | 0.118 (CI = +/-0.011; p = 0.000)  | 0.960        | 0.00%                   | +12.54%                   |
| Severity  | 2012.2     | -0.064 (CI = +/-0.062; p = 0.043) | 0.119 (CI = +/-0.012; p = 0.000)  | 0.957        | 0.00%                   | +12.61%                   |
| Severity  | 2013.1     | -0.052 (CI = +/-0.058; p = 0.077) | 0.122 (CI = +/-0.012; p = 0.000)  | 0.965        | 0.00%                   | +12.93%                   |
| Severity  | 2013.2     | -0.045 (CI = +/-0.060; p = 0.132) | 0.120 (CI = +/-0.012; p = 0.000)  | 0.962        | 0.00%                   | +12.73%                   |
| Severity  | 2014.1     | -0.046 (CI = +/-0.064; p = 0.144) | 0.119 (CI = +/-0.013; p = 0.000)  | 0.958        | 0.00%                   | +12.69%                   |
| Severity  | 2014.2     | -0.032 (CI = +/-0.061; p = 0.279) | 0.115 (CI = +/-0.013; p = 0.000)  | 0.959        | 0.00%                   | +12.17%                   |
| Severity  | 2015.1     | -0.033 (CI = +/-0.066; p = 0.296) | 0.114 (CI = +/-0.015; p = 0.000)  | 0.950        | 0.00%                   | +12.11%                   |
| Severity  | 2015.2     | -0.036 (CI = +/-0.072; p = 0.298) | 0.115 (CI = +/-0.018; p = 0.000)  | 0.939        | 0.00%                   | +12.24%                   |
| Severity  | 2016.1     | -0.020 (CI = +/-0.065; p = 0.512) | 0.123 (CI = +/-0.017; p = 0.000)  | 0.954        | 0.00%                   | +13.06%                   |
| Severity  | 2016.2     | -0.015 (CI = +/-0.072; p = 0.646) | 0.121 (CI = +/-0.021; p = 0.000)  | 0.940        | 0.00%                   | +12.82%                   |
| Severity  | 2017.1     | -0.008 (CI = +/-0.078; p = 0.819) | 0.124 (CI = +/-0.024; p = 0.000)  | 0.931        | 0.00%                   | +13.26%                   |
| Frequency | 2005.2     | -0.093 (CI = +/-0.078; p = 0.022) | -0.034 (CI = +/-0.016; p = 0.000) | 0.420        | 0.00%                   | -3.35%                    |
| Frequency | 2006.1     | -0.087 (CI = +/-0.080; p = 0.034) | -0.033 (CI = +/-0.016; p = 0.000) | 0.398        | 0.00%                   | -3.27%                    |
| Frequency | 2006.2     | -0.096 (CI = +/-0.080; p = 0.021) | -0.032 (CI = +/-0.016; p = 0.000) | 0.407        | 0.00%                   | -3.14%                    |
| Frequency | 2007.1     | -0.088 (CI = +/-0.081; p = 0.035) | -0.031 (CI = +/-0.016; p = 0.001) | 0.380        | 0.00%                   | -3.02%                    |
| Frequency | 2007.2     | -0.096 (CI = +/-0.082; p = 0.024) | -0.029 (CI = +/-0.016; p = 0.001) | 0.386        | 0.00%                   | -2.90%                    |
| Frequency | 2008.1     | -0.091 (CI = +/-0.085; p = 0.036) | -0.029 (CI = +/-0.017; p = 0.002) | 0.359        | 0.00%                   | -2.83%                    |
| Frequency | 2008.2     | -0.095 (CI = +/-0.088; p = 0.035) | -0.028 (CI = +/-0.017; p = 0.003) | 0.358        | 0.00%                   | -2.77%                    |
| Frequency | 2009.1     | -0.099 (CI = +/-0.091; p = 0.035) | -0.029 (CI = +/-0.018; p = 0.003) | 0.357        | 0.00%                   | -2.83%                    |
| Frequency | 2009.2     | -0.094 (CI = +/-0.095; p = 0.051) | -0.030 (CI = +/-0.018; p = 0.003) | 0.361        | 0.00%                   | -2.91%                    |
| Frequency | 2010.1     | -0.099 (CI = +/-0.098; p = 0.047) | -0.030 (CI = +/-0.019; p = 0.003) | 0.365        | 0.00%                   | -3.00%                    |
| Frequency | 2010.2     | -0.089 (CI = +/-0.100; p = 0.078) | -0.032 (CI = +/-0.019; p = 0.002) | 0.383        | 0.00%                   | -3.18%                    |
| Frequency | 2011.1     | -0.096 (CI = +/-0.104; p = 0.071) | -0.033 (CI = +/-0.020; p = 0.002) | 0.387        | 0.00%                   | -3.29%                    |
| Frequency | 2011.2     | -0.094 (CI = +/-0.110; p = 0.090) | -0.034 (CI = +/-0.021; p = 0.004) | 0.385        | 0.00%                   | -3.33%                    |
| Frequency | 2012.1     | -0.108 (CI = +/-0.111; p = 0.056) | -0.037 (CI = +/-0.022; p = 0.002) | 0.433        | 0.00%                   | -3.61%                    |
| Frequency | 2012.2     | -0.097 (CI = +/-0.115; p = 0.094) | -0.039 (CI = +/-0.023; p = 0.002) | 0.454        | 0.00%                   | -3.85%                    |
| Frequency | 2013.1     | -0.109 (CI = +/-0.119; p = 0.070) | -0.042 (CI = +/-0.023; p = 0.002) | 0.478        | 0.00%                   | -4.12%                    |
| Frequency | 2013.2     | -0.103 (CI = +/-0.126; p = 0.101) | -0.043 (CI = +/-0.026; p = 0.002) | 0.477        | 0.00%                   | -4.25%                    |
| Frequency | 2014.1     | -0.109 (CI = +/-0.134; p = 0.102) | -0.045 (CI = +/-0.028; p = 0.004) | 0.454        | 0.00%                   | -4.41%                    |
| Frequency | 2014.2     | -0.101 (CI = +/-0.144; p = 0.153) | -0.048 (CI = +/-0.031; p = 0.006) | 0.454        | 0.00%                   | -4.66%                    |
| Frequency | 2015.1     | -0.113 (CI = +/-0.152; p = 0.132) | -0.052 (CI = +/-0.035; p = 0.007) | 0.444        | 0.00%                   | -5.11%                    |
| Frequency | 2015.2     | -0.100 (CI = +/-0.164; p = 0.207) | -0.057 (CI = +/-0.041; p = 0.010) | 0.450        | 0.00%                   | -5.59%                    |
| Frequency | 2016.1     | -0.116 (CI = +/-0.175; p = 0.169) | -0.065 (CI = +/-0.047; p = 0.011) | 0.450        | 0.00%                   | -6.27%                    |
| Frequency | 2016.2     | -0.091 (CI = +/-0.186; p = 0.297) | -0.076 (CI = +/-0.054; p = 0.011) | 0.497        | 0.00%                   | -7.36%                    |
| Frequency | 2017.1     | -0.108 (CI = +/-0.202; p = 0.253) | -0.086 (CI = +/-0.064; p = 0.014) | 0.479        | 0.00%                   | -8.22%                    |

## Accident Benefits Total

Coverage = AB Total

End Trend Period = 2021.2

Excluded Points = NA

Parameters Included: trend\_level\_change, seasonality

Future Trend Start Date = 2015-01-01

| Fit       | Start Date | Seasonality                       | Trend Shift                       | Adjusted R^2 | Implied Past Trend Rate | Implied Future Trend Rate |
|-----------|------------|-----------------------------------|-----------------------------------|--------------|-------------------------|---------------------------|
| Loss Cost | 2005.2     | -0.184 (CI = +/-0.079; p = 0.000) | 0.098 (CI = +/-0.017; p = 0.000)  | 0.830        | 0.00%                   | +10.34%                   |
| Loss Cost | 2006.1     | -0.184 (CI = +/-0.082; p = 0.000) | 0.099 (CI = +/-0.018; p = 0.000)  | 0.829        | 0.00%                   | +10.36%                   |
| Loss Cost | 2006.2     | -0.174 (CI = +/-0.082; p = 0.000) | 0.097 (CI = +/-0.018; p = 0.000)  | 0.827        | 0.00%                   | +10.20%                   |
| Loss Cost | 2007.1     | -0.183 (CI = +/-0.083; p = 0.000) | 0.096 (CI = +/-0.018; p = 0.000)  | 0.832        | 0.00%                   | +10.03%                   |
| Loss Cost | 2007.2     | -0.174 (CI = +/-0.084; p = 0.000) | 0.094 (CI = +/-0.018; p = 0.000)  | 0.828        | 0.00%                   | +9.89%                    |
| Loss Cost | 2008.1     | -0.179 (CI = +/-0.087; p = 0.000) | 0.093 (CI = +/-0.018; p = 0.000)  | 0.828        | 0.00%                   | +9.80%                    |
| Loss Cost | 2008.2     | -0.170 (CI = +/-0.088; p = 0.001) | 0.092 (CI = +/-0.019; p = 0.000)  | 0.822        | 0.00%                   | +9.64%                    |
| Loss Cost | 2009.1     | -0.173 (CI = +/-0.092; p = 0.001) | 0.091 (CI = +/-0.019; p = 0.000)  | 0.820        | 0.00%                   | +9.58%                    |
| Loss Cost | 2009.2     | -0.169 (CI = +/-0.096; p = 0.001) | 0.091 (CI = +/-0.020; p = 0.000)  | 0.810        | 0.00%                   | +9.50%                    |
| Loss Cost | 2010.1     | -0.175 (CI = +/-0.099; p = 0.001) | 0.090 (CI = +/-0.021; p = 0.000)  | 0.809        | 0.00%                   | +9.37%                    |
| Loss Cost | 2010.2     | -0.164 (CI = +/-0.101; p = 0.003) | 0.088 (CI = +/-0.021; p = 0.000)  | 0.798        | 0.00%                   | +9.15%                    |
| Loss Cost | 2011.1     | -0.170 (CI = +/-0.106; p = 0.003) | 0.086 (CI = +/-0.022; p = 0.000)  | 0.796        | 0.00%                   | +9.01%                    |
| Loss Cost | 2011.2     | -0.157 (CI = +/-0.107; p = 0.006) | 0.084 (CI = +/-0.022; p = 0.000)  | 0.781        | 0.00%                   | +8.73%                    |
| Loss Cost | 2012.1     | -0.172 (CI = +/-0.109; p = 0.004) | 0.080 (CI = +/-0.023; p = 0.000)  | 0.785        | 0.00%                   | +8.38%                    |
| Loss Cost | 2012.2     | -0.163 (CI = +/-0.114; p = 0.008) | 0.079 (CI = +/-0.024; p = 0.000)  | 0.760        | 0.00%                   | +8.17%                    |
| Loss Cost | 2013.1     | -0.163 (CI = +/-0.122; p = 0.012) | 0.079 (CI = +/-0.026; p = 0.000)  | 0.754        | 0.00%                   | +8.17%                    |
| Loss Cost | 2013.2     | -0.151 (CI = +/-0.127; p = 0.023) | 0.075 (CI = +/-0.027; p = 0.000)  | 0.715        | 0.00%                   | +7.82%                    |
| Loss Cost | 2014.1     | -0.160 (CI = +/-0.135; p = 0.024) | 0.073 (CI = +/-0.030; p = 0.000)  | 0.699        | 0.00%                   | +7.54%                    |
| Loss Cost | 2014.2     | -0.138 (CI = +/-0.135; p = 0.045) | 0.065 (CI = +/-0.031; p = 0.001)  | 0.629        | 0.00%                   | +6.72%                    |
| Loss Cost | 2015.1     | -0.156 (CI = +/-0.142; p = 0.034) | 0.058 (CI = +/-0.035; p = 0.004)  | 0.600        | 0.00%                   | +5.98%                    |
| Loss Cost | 2015.2     | -0.146 (CI = +/-0.153; p = 0.060) | 0.053 (CI = +/-0.041; p = 0.015)  | 0.479        | 0.00%                   | +5.49%                    |
| Loss Cost | 2016.1     | -0.149 (CI = +/-0.172; p = 0.082) | 0.052 (CI = +/-0.050; p = 0.042)  | 0.451        | 0.00%                   | +5.35%                    |
| Loss Cost | 2016.2     | -0.120 (CI = +/-0.172; p = 0.146) | 0.037 (CI = +/-0.054; p = 0.158)  | 0.232        | 0.00%                   | +3.72%                    |
| Loss Cost | 2017.1     | -0.139 (CI = +/-0.193; p = 0.133) | 0.026 (CI = +/-0.067; p = 0.387)  | 0.212        | 0.00%                   | +2.66%                    |
|           |            |                                   |                                   |              |                         |                           |
| Severity  | 2005.2     | -0.093 (CI = +/-0.078; p = 0.021) | 0.132 (CI = +/-0.017; p = 0.000)  | 0.888        | 0.00%                   | +14.10%                   |
| Severity  | 2006.1     | -0.098 (CI = +/-0.080; p = 0.017) | 0.131 (CI = +/-0.017; p = 0.000)  | 0.888        | 0.00%                   | +14.01%                   |
| Severity  | 2006.2     | -0.080 (CI = +/-0.071; p = 0.030) | 0.128 (CI = +/-0.015; p = 0.000)  | 0.907        | 0.00%                   | +13.69%                   |
| Severity  | 2007.1     | -0.097 (CI = +/-0.064; p = 0.004) | 0.125 (CI = +/-0.014; p = 0.000)  | 0.926        | 0.00%                   | +13.36%                   |
| Severity  | 2007.2     | -0.080 (CI = +/-0.055; p = 0.006) | 0.123 (CI = +/-0.012; p = 0.000)  | 0.944        | 0.00%                   | +13.07%                   |
| Severity  | 2008.1     | -0.090 (CI = +/-0.053; p = 0.002) | 0.121 (CI = +/-0.011; p = 0.000)  | 0.949        | 0.00%                   | +12.88%                   |
| Severity  | 2008.2     | -0.078 (CI = +/-0.048; p = 0.003) | 0.119 (CI = +/-0.010; p = 0.000)  | 0.959        | 0.00%                   | +12.64%                   |
| Severity  | 2009.1     | -0.077 (CI = +/-0.050; p = 0.004) | 0.119 (CI = +/-0.010; p = 0.000)  | 0.958        | 0.00%                   | +12.66%                   |
| Severity  | 2009.2     | -0.077 (CI = +/-0.052; p = 0.006) | 0.119 (CI = +/-0.011; p = 0.000)  | 0.957        | 0.00%                   | +12.67%                   |
| Severity  | 2010.1     | -0.077 (CI = +/-0.055; p = 0.008) | 0.119 (CI = +/-0.011; p = 0.000)  | 0.955        | 0.00%                   | +12.66%                   |
| Severity  | 2010.2     | -0.076 (CI = +/-0.057; p = 0.012) | 0.119 (CI = +/-0.012; p = 0.000)  | 0.953        | 0.00%                   | +12.64%                   |
| Severity  | 2011.1     | -0.076 (CI = +/-0.060; p = 0.016) | 0.119 (CI = +/-0.012; p = 0.000)  | 0.951        | 0.00%                   | +12.65%                   |
| Severity  | 2011.2     | -0.065 (CI = +/-0.058; p = 0.030) | 0.117 (CI = +/-0.012; p = 0.000)  | 0.955        | 0.00%                   | +12.40%                   |
| Severity  | 2012.1     | -0.064 (CI = +/-0.062; p = 0.043) | 0.117 (CI = +/-0.013; p = 0.000)  | 0.953        | 0.00%                   | +12.43%                   |
| Severity  | 2012.2     | -0.067 (CI = +/-0.065; p = 0.046) | 0.118 (CI = +/-0.014; p = 0.000)  | 0.950        | 0.00%                   | +12.50%                   |
| Severity  | 2013.1     | -0.053 (CI = +/-0.062; p = 0.089) | 0.121 (CI = +/-0.013; p = 0.000)  | 0.959        | 0.00%                   | +12.88%                   |
| Severity  | 2013.2     | -0.046 (CI = +/-0.064; p = 0.144) | 0.119 (CI = +/-0.014; p = 0.000)  | 0.955        | 0.00%                   | +12.68%                   |
| Severity  | 2014.1     | -0.048 (CI = +/-0.070; p = 0.157) | 0.119 (CI = +/-0.015; p = 0.000)  | 0.950        | 0.00%                   | +12.62%                   |
| Severity  | 2014.2     | -0.034 (CI = +/-0.066; p = 0.278) | 0.114 (CI = +/-0.015; p = 0.000)  | 0.950        | 0.00%                   | +12.06%                   |
| Severity  | 2015.1     | -0.036 (CI = +/-0.072; p = 0.291) | 0.113 (CI = +/-0.018; p = 0.000)  | 0.939        | 0.00%                   | +11.97%                   |
| Severity  | 2015.2     | -0.039 (CI = +/-0.079; p = 0.300) | 0.114 (CI = +/-0.021; p = 0.000)  | 0.925        | 0.00%                   | +12.09%                   |
| Severity  | 2016.1     | -0.019 (CI = +/-0.073; p = 0.576) | 0.123 (CI = +/-0.021; p = 0.000)  | 0.942        | 0.00%                   | +13.13%                   |
| Severity  | 2016.2     | -0.014 (CI = +/-0.081; p = 0.692) | 0.121 (CI = +/-0.025; p = 0.000)  | 0.922        | 0.00%                   | +12.86%                   |
| Severity  | 2017.1     | -0.004 (CI = +/-0.090; p = 0.913) | 0.126 (CI = +/-0.031; p = 0.000)  | 0.912        | 0.00%                   | +13.48%                   |
|           |            |                                   |                                   |              |                         |                           |
| Frequency | 2005.2     | -0.092 (CI = +/-0.081; p = 0.027) | -0.034 (CI = +/-0.018; p = 0.001) | 0.358        | 0.00%                   | -3.30%                    |
| Frequency | 2006.1     | -0.085 (CI = +/-0.082; p = 0.043) | -0.033 (CI = +/-0.018; p = 0.001) | 0.333        | 0.00%                   | -3.20%                    |
| Frequency | 2006.2     | -0.094 (CI = +/-0.083; p = 0.028) | -0.031 (CI = +/-0.018; p = 0.001) | 0.342        | 0.00%                   | -3.07%                    |
| Frequency | 2007.1     | -0.086 (CI = +/-0.084; p = 0.046) | -0.030 (CI = +/-0.018; p = 0.002) | 0.311        | 0.00%                   | -2.93%                    |
| Frequency | 2007.2     | -0.094 (CI = +/-0.085; p = 0.032) | -0.028 (CI = +/-0.018; p = 0.004) | 0.318        | 0.00%                   | -2.81%                    |
| Frequency | 2008.1     | -0.089 (CI = +/-0.088; p = 0.048) | -0.028 (CI = +/-0.019; p = 0.005) | 0.288        | 0.00%                   | -2.73%                    |
| Frequency | 2008.2     | -0.093 (CI = +/-0.091; p = 0.047) | -0.027 (CI = +/-0.019; p = 0.008) | 0.287        | 0.00%                   | -2.67%                    |
| Frequency | 2009.1     | -0.097 (CI = +/-0.095; p = 0.047) | -0.028 (CI = +/-0.020; p = 0.009) | 0.287        | 0.00%                   | -2.74%                    |
| Frequency | 2009.2     | -0.092 (CI = +/-0.099; p = 0.067) | -0.029 (CI = +/-0.021; p = 0.009) | 0.289        | 0.00%                   | -2.82%                    |
| Frequency | 2010.1     | -0.098 (CI = +/-0.103; p = 0.062) | -0.030 (CI = +/-0.021; p = 0.009) | 0.294        | 0.00%                   | -2.92%                    |
| Frequency | 2010.2     | -0.087 (CI = +/-0.105; p = 0.099) | -0.032 (CI = +/-0.022; p = 0.007) | 0.310        | 0.00%                   | -3.10%                    |
| Frequency | 2011.1     | -0.094 (CI = +/-0.110; p = 0.090) | -0.033 (CI = +/-0.023; p = 0.007) | 0.315        | 0.00%                   | -3.23%                    |
| Frequency | 2011.2     | -0.092 (CI = +/-0.116; p = 0.112) | -0.033 (CI = +/-0.024; p = 0.009) | 0.312        | 0.00%                   | -3.27%                    |
| Frequency | 2012.1     | -0.108 (CI = +/-0.118; p = 0.070) | -0.037 (CI = +/-0.024; p = 0.006) | 0.365        | 0.00%                   | -3.60%                    |
| Frequency | 2012.2     | -0.097 (CI = +/-0.122; p = 0.113) | -0.039 (CI = +/-0.025; p = 0.005) | 0.385        | 0.00%                   | -3.85%                    |
| Frequency | 2013.1     | -0.110 (CI = +/-0.127; p = 0.084) | -0.043 (CI = +/-0.027; p = 0.004) | 0.414        | 0.00%                   | -4.17%                    |
| Frequency | 2013.2     | -0.105 (CI = +/-0.135; p = 0.117) | -0.044 (CI = +/-0.029; p = 0.006) | 0.413        | 0.00%                   | -4.31%                    |
| Frequency | 2014.1     | -0.112 (CI = +/-0.145; p = 0.119) | -0.046 (CI = +/-0.032; p = 0.008) | 0.389        | 0.00%                   | -4.51%                    |
| Frequency | 2014.2     | -0.104 (CI = +/-0.155; p = 0.170) | -0.049 (CI = +/-0.036; p = 0.012) | 0.390        | 0.00%                   | -4.77%                    |
| Frequency | 2015.1     | -0.120 (CI = +/-0.166; p = 0.142) | -0.055 (CI = +/-0.041; p = 0.014) | 0.384        | 0.00%                   | -5.36%                    |
| Frequency | 2015.2     | -0.107 (CI = +/-0.179; p = 0.212) | -0.061 (CI = +/-0.048; p = 0.018) | 0.394        | 0.00%                   | -5.89%                    |
| Frequency | 2016.1     | -0.130 (CI = +/-0.193; p = 0.162) | -0.071 (CI = +/-0.056; p = 0.018) | 0.407        | 0.00%                   | -6.87%                    |
| Frequency | 2016.2     | -0.106 (CI = +/-0.203; p = 0.266) | -0.084 (CI = +/-0.064; p = 0.016) | 0.465        | 0.00%                   | -8.10%                    |
| Frequency | 2017.1     | -0.134 (CI = +/-0.223; p = 0.198) | -0.100 (CI = +/-0.078; p = 0.019) | 0.474        | 0.00%                   | -9.54%                    |

## Accident Benefits Total - Adjusted

Coverage = AB Total - Adjusted

End Trend Period = 2022.1

Excluded Points = NA

Parameters Included: time, trend\_level\_change, seasonality

Future Trend Start Date = 2015-01-01

| Fit       | Start Date | Time                              | Seasonality                       | Trend Shift                       | Adjusted R <sup>2</sup> | Implied Past Trend Rate | Implied Future Trend Rate |
|-----------|------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|-------------------------|---------------------------|
| Loss Cost | 2005.2     | 0.026 (CI = +/-0.014; p = 0.001)  | -0.189 (CI = +/-0.067; p = 0.000) | 0.047 (CI = +/-0.028; p = 0.002)  | 0.870                   | +2.60%                  | +7.53%                    |
| Loss Cost | 2006.1     | 0.030 (CI = +/-0.015; p = 0.000)  | -0.179 (CI = +/-0.066; p = 0.000) | 0.040 (CI = +/-0.028; p = 0.006)  | 0.882                   | +3.07%                  | +7.32%                    |
| Loss Cost | 2006.2     | 0.030 (CI = +/-0.016; p = 0.001)  | -0.179 (CI = +/-0.069; p = 0.000) | 0.041 (CI = +/-0.030; p = 0.009)  | 0.872                   | +3.05%                  | +7.33%                    |
| Loss Cost | 2007.1     | 0.030 (CI = +/-0.018; p = 0.002)  | -0.179 (CI = +/-0.071; p = 0.000) | 0.040 (CI = +/-0.032; p = 0.015)  | 0.869                   | +3.08%                  | +7.32%                    |
| Loss Cost | 2007.2     | 0.031 (CI = +/-0.020; p = 0.004)  | -0.179 (CI = +/-0.074; p = 0.000) | 0.040 (CI = +/-0.034; p = 0.024)  | 0.858                   | +3.11%                  | +7.31%                    |
| Loss Cost | 2008.1     | 0.033 (CI = +/-0.022; p = 0.005)  | -0.175 (CI = +/-0.076; p = 0.000) | 0.036 (CI = +/-0.037; p = 0.052)  | 0.858                   | +3.40%                  | +7.22%                    |
| Loss Cost | 2008.2     | 0.034 (CI = +/-0.025; p = 0.010)  | -0.175 (CI = +/-0.079; p = 0.000) | 0.036 (CI = +/-0.040; p = 0.076)  | 0.845                   | +3.44%                  | +7.21%                    |
| Loss Cost | 2009.1     | 0.039 (CI = +/-0.028; p = 0.008)  | -0.168 (CI = +/-0.081; p = 0.000) | 0.029 (CI = +/-0.043; p = 0.181)  | 0.848                   | +4.03%                  | +7.06%                    |
| Loss Cost | 2009.2     | 0.045 (CI = +/-0.032; p = 0.008)  | -0.175 (CI = +/-0.084; p = 0.000) | 0.022 (CI = +/-0.047; p = 0.347)  | 0.841                   | +4.64%                  | +6.94%                    |
| Loss Cost | 2010.1     | 0.052 (CI = +/-0.037; p = 0.009)  | -0.168 (CI = +/-0.087; p = 0.001) | 0.014 (CI = +/-0.052; p = 0.585)  | 0.841                   | +5.33%                  | +6.81%                    |
| Loss Cost | 2010.2     | 0.053 (CI = +/-0.044; p = 0.021)  | -0.169 (CI = +/-0.091; p = 0.001) | 0.012 (CI = +/-0.060; p = 0.675)  | 0.821                   | +5.49%                  | +6.78%                    |
| Loss Cost | 2011.1     | 0.063 (CI = +/-0.054; p = 0.023)  | -0.162 (CI = +/-0.094; p = 0.002) | 0.001 (CI = +/-0.069; p = 0.982)  | 0.820                   | +6.56%                  | +6.64%                    |
| Loss Cost | 2011.2     | 0.064 (CI = +/-0.067; p = 0.057)  | -0.163 (CI = +/-0.099; p = 0.003) | 0.000 (CI = +/-0.082; p = 0.995)  | 0.790                   | +6.66%                  | +6.63%                    |
| Loss Cost | 2012.1     | 0.061 (CI = +/-0.086; p = 0.158)  | -0.165 (CI = +/-0.105; p = 0.004) | 0.004 (CI = +/-0.102; p = 0.936)  | 0.775                   | +6.25%                  | +6.66%                    |
| Loss Cost | 2012.2     | 0.067 (CI = +/-0.117; p = 0.242)  | -0.167 (CI = +/-0.111; p = 0.006) | -0.003 (CI = +/-0.132; p = 0.964) | 0.739                   | +6.93%                  | +6.62%                    |
| Loss Cost | 2013.1     | 0.128 (CI = +/-0.165; p = 0.119)  | -0.152 (CI = +/-0.115; p = 0.013) | -0.067 (CI = +/-0.180; p = 0.441) | 0.751                   | +13.68%                 | +6.34%                    |
| Loss Cost | 2013.2     | 0.169 (CI = +/-0.271; p = 0.202)  | -0.157 (CI = +/-0.122; p = 0.015) | -0.109 (CI = +/-0.284; p = 0.426) | 0.696                   | +18.45%                 | +6.24%                    |
| Loss Cost | 2014.1     | 0.437 (CI = +/-0.587; p = 0.131)  | -0.135 (CI = +/-0.129; p = 0.041) | -0.380 (CI = +/-0.598; p = 0.193) | 0.698                   | +54.84%                 | +5.93%                    |
| Loss Cost | 2014.2     | 0.058 (CI = +/-0.028; p = 0.001)  | -0.135 (CI = +/-0.129; p = 0.041) | NA (CI = +/-NA; p = NA)           | 0.585                   | +5.93%                  | +5.93%                    |
| Loss Cost | 2015.1     | 0.051 (CI = +/-0.031; p = 0.003)  | -0.151 (CI = +/-0.132; p = 0.029) | NA (CI = +/-NA; p = NA)           | 0.556                   | +5.27%                  | +5.27%                    |
| Loss Cost | 2015.2     | 0.046 (CI = +/-0.035; p = 0.015)  | -0.137 (CI = +/-0.142; p = 0.056) | NA (CI = +/-NA; p = NA)           | 0.422                   | +4.71%                  | +4.71%                    |
| Loss Cost | 2016.1     | 0.044 (CI = +/-0.041; p = 0.038)  | -0.141 (CI = +/-0.155; p = 0.071) | NA (CI = +/-NA; p = NA)           | 0.394                   | +4.55%                  | +4.55%                    |
| Loss Cost | 2016.2     | 0.029 (CI = +/-0.044; p = 0.174)  | -0.107 (CI = +/-0.152; p = 0.147) | NA (CI = +/-NA; p = NA)           | 0.161                   | +2.92%                  | +2.92%                    |
| Loss Cost | 2017.1     | 0.021 (CI = +/-0.052; p = 0.378)  | -0.121 (CI = +/-0.165; p = 0.130) | NA (CI = +/-NA; p = NA)           | 0.147                   | +2.13%                  | +2.13%                    |
| Severity  | 2005.2     | 0.030 (CI = +/-0.011; p = 0.000)  | -0.097 (CI = +/-0.055; p = 0.001) | 0.074 (CI = +/-0.023; p = 0.000)  | 0.944                   | +3.02%                  | +10.92%                   |
| Severity  | 2006.1     | 0.032 (CI = +/-0.012; p = 0.000)  | -0.092 (CI = +/-0.056; p = 0.002) | 0.071 (CI = +/-0.024; p = 0.000)  | 0.944                   | +3.25%                  | +10.82%                   |
| Severity  | 2006.2     | 0.027 (CI = +/-0.013; p = 0.000)  | -0.083 (CI = +/-0.054; p = 0.004) | 0.077 (CI = +/-0.024; p = 0.000)  | 0.946                   | +2.77%                  | +11.01%                   |
| Severity  | 2007.1     | 0.022 (CI = +/-0.013; p = 0.002)  | -0.093 (CI = +/-0.053; p = 0.001) | 0.084 (CI = +/-0.023; p = 0.000)  | 0.950                   | +2.24%                  | +11.21%                   |
| Severity  | 2007.2     | 0.016 (CI = +/-0.013; p = 0.021)  | -0.082 (CI = +/-0.049; p = 0.002) | 0.093 (CI = +/-0.022; p = 0.000)  | 0.956                   | +1.57%                  | +11.43%                   |
| Severity  | 2008.1     | 0.012 (CI = +/-0.014; p = 0.099)  | -0.088 (CI = +/-0.049; p = 0.001) | 0.098 (CI = +/-0.024; p = 0.000)  | 0.956                   | +1.19%                  | +11.56%                   |
| Severity  | 2008.2     | 0.004 (CI = +/-0.014; p = 0.530)  | -0.078 (CI = +/-0.046; p = 0.002) | 0.107 (CI = +/-0.031; p = 0.000)  | 0.962                   | +0.45%                  | +11.77%                   |
| Severity  | 2009.1     | 0.006 (CI = +/-0.016; p = 0.449)  | -0.076 (CI = +/-0.047; p = 0.003) | 0.105 (CI = +/-0.025; p = 0.000)  | 0.961                   | +0.62%                  | +11.72%                   |
| Severity  | 2009.2     | 0.008 (CI = +/-0.019; p = 0.405)  | -0.077 (CI = +/-0.049; p = 0.004) | 0.103 (CI = +/-0.028; p = 0.000)  | 0.960                   | +0.78%                  | +11.68%                   |
| Severity  | 2010.1     | 0.009 (CI = +/-0.022; p = 0.395)  | -0.076 (CI = +/-0.052; p = 0.006) | 0.101 (CI = +/-0.031; p = 0.000)  | 0.959                   | +0.94%                  | +11.65%                   |
| Severity  | 2010.2     | 0.010 (CI = +/-0.027; p = 0.421)  | -0.077 (CI = +/-0.054; p = 0.008) | 0.100 (CI = +/-0.036; p = 0.000)  | 0.957                   | +1.05%                  | +11.63%                   |
| Severity  | 2011.1     | 0.014 (CI = +/-0.032; p = 0.372)  | -0.074 (CI = +/-0.057; p = 0.013) | 0.095 (CI = +/-0.041; p = 0.000)  | 0.955                   | +1.42%                  | +11.58%                   |
| Severity  | 2011.2     | -0.004 (CI = +/-0.037; p = 0.824) | -0.065 (CI = +/-0.055; p = 0.023) | 0.115 (CI = +/-0.045; p = 0.000)  | 0.958                   | -0.39%                  | +11.78%                   |
| Severity  | 2012.1     | -0.005 (CI = +/-0.048; p = 0.839) | -0.065 (CI = +/-0.058; p = 0.031) | 0.116 (CI = +/-0.056; p = 0.000)  | 0.956                   | -0.47%                  | +11.78%                   |
| Severity  | 2012.2     | -0.001 (CI = +/-0.064; p = 0.984) | -0.066 (CI = +/-0.061; p = 0.036) | 0.112 (CI = +/-0.073; p = 0.005)  | 0.952                   | -0.06%                  | +11.76%                   |
| Severity  | 2013.1     | 0.073 (CI = +/-0.076; p = 0.061)  | -0.048 (CI = +/-0.053; p = 0.070) | 0.035 (CI = +/-0.083; p = 0.376)  | 0.968                   | +7.52%                  | +11.40%                   |
| Severity  | 2013.2     | 0.089 (CI = +/-0.125; p = 0.147)  | -0.050 (CI = +/-0.056; p = 0.074) | 0.018 (CI = +/-0.131; p = 0.771)  | 0.963                   | +9.36%                  | +11.36%                   |
| Severity  | 2014.1     | 0.295 (CI = +/-0.247; p = 0.023)  | -0.034 (CI = +/-0.054; p = 0.202) | -0.190 (CI = +/-0.251; p = 0.127) | 0.969                   | +34.32%                 | +11.11%                   |
| Severity  | 2014.2     | 0.105 (CI = +/-0.012; p = 0.000)  | -0.034 (CI = +/-0.054; p = 0.202) | NA (CI = +/-NA; p = NA)           | 0.962                   | +11.11%                 | +11.11%                   |
| Severity  | 2015.1     | 0.104 (CI = +/-0.013; p = 0.000)  | -0.038 (CI = +/-0.057; p = 0.178) | NA (CI = +/-NA; p = NA)           | 0.954                   | +10.93%                 | +10.93%                   |
| Severity  | 2015.2     | 0.104 (CI = +/-0.016; p = 0.000)  | -0.037 (CI = +/-0.063; p = 0.220) | NA (CI = +/-NA; p = NA)           | 0.942                   | +10.91%                 | +10.91%                   |
| Severity  | 2016.1     | 0.109 (CI = +/-0.016; p = 0.000)  | -0.025 (CI = +/-0.060; p = 0.376) | NA (CI = +/-NA; p = NA)           | 0.951                   | +11.55%                 | +11.55%                   |
| Severity  | 2016.2     | 0.105 (CI = +/-0.018; p = 0.000)  | -0.016 (CI = +/-0.063; p = 0.580) | NA (CI = +/-NA; p = NA)           | 0.939                   | +11.10%                 | +11.10%                   |
| Severity  | 2017.1     | 0.107 (CI = +/-0.022; p = 0.000)  | -0.013 (CI = +/-0.070; p = 0.677) | NA (CI = +/-NA; p = NA)           | 0.924                   | +11.27%                 | +11.27%                   |
| Frequency | 2005.2     | -0.004 (CI = +/-0.016; p = 0.614) | -0.092 (CI = +/-0.079; p = 0.024) | -0.027 (CI = +/-0.033; p = 0.101) | 0.406                   | -0.41%                  | -3.06%                    |
| Frequency | 2006.1     | -0.002 (CI = +/-0.018; p = 0.846) | -0.087 (CI = +/-0.081; p = 0.036) | -0.030 (CI = +/-0.034; p = 0.080) | 0.378                   | -0.17%                  | -3.15%                    |
| Frequency | 2006.2     | 0.003 (CI = +/-0.019; p = 0.767)  | -0.096 (CI = +/-0.082; p = 0.023) | -0.036 (CI = +/-0.035; p = 0.044) | 0.388                   | +0.28%                  | -3.31%                    |
| Frequency | 2007.1     | 0.008 (CI = +/-0.020; p = 0.421)  | -0.086 (CI = +/-0.082; p = 0.040) | -0.044 (CI = +/-0.037; p = 0.021) | 0.373                   | +0.82%                  | -3.50%                    |
| Frequency | 2007.2     | 0.015 (CI = +/-0.022; p = 0.167)  | -0.097 (CI = +/-0.081; p = 0.021) | -0.053 (CI = +/-0.037; p = 0.008) | 0.409                   | +1.52%                  | -3.70%                    |
| Frequency | 2008.1     | 0.022 (CI = +/-0.024; p = 0.072)  | -0.087 (CI = +/-0.081; p = 0.037) | -0.061 (CI = +/-0.039; p = 0.003) | 0.416                   | +2.18%                  | -3.89%                    |
| Frequency | 2008.2     | 0.029 (CI = +/-0.026; p = 0.027)  | -0.098 (CI = +/-0.081; p = 0.020) | -0.071 (CI = +/-0.041; p = 0.001) | 0.457                   | +2.98%                  | -4.08%                    |
| Frequency | 2009.1     | 0.033 (CI = +/-0.029; p = 0.027)  | -0.093 (CI = +/-0.084; p = 0.032) | -0.076 (CI = +/-0.044; p = 0.002) | 0.460                   | +3.39%                  | -4.17%                    |
| Frequency | 2009.2     | 0.038 (CI = +/-0.034; p = 0.030)  | -0.097 (CI = +/-0.087; p = 0.030) | -0.081 (CI = +/-0.049; p = 0.002) | 0.463                   | +3.83%                  | -4.25%                    |
| Frequency | 2010.1     | 0.043 (CI = +/-0.039; p = 0.034)  | -0.092 (CI = +/-0.091; p = 0.046) | -0.087 (CI = +/-0.055; p = 0.003) | 0.465                   | +4.35%                  | -4.34%                    |
| Frequency | 2010.2     | 0.043 (CI = +/-0.047; p = 0.068)  | -0.093 (CI = +/-0.095; p = 0.055) | -0.087 (CI = +/-0.062; p = 0.008) | 0.454                   | +4.40%                  | -4.34%                    |
| Frequency | 2011.1     | 0.049 (CI = +/-0.057; p = 0.083)  | -0.088 (CI = +/-0.100; p = 0.080) | -0.095 (CI = +/-0.073; p = 0.013) | 0.452                   | +5.07%                  | -4.43%                    |
| Frequency | 2011.2     | 0.068 (CI = +/-0.068; p = 0.050)  | -0.098 (CI = +/-0.102; p = 0.058) | -0.116 (CI = +/-0.084; p = 0.010) | 0.478                   | +7.08%                  | -4.61%                    |
| Frequency | 2012.1     | 0.065 (CI = +/-0.089; p = 0.139)  | -0.100 (CI = +/-0.108; p = 0.068) | -0.112 (CI = +/-0.105; p = 0.037) | 0.474                   | +6.74%                  | -4.58%                    |
| Frequency | 2012.2     | 0.068 (CI = +/-0.120; p = 0.249)  | -0.100 (CI = +/-0.114; p = 0.081) | -0.115 (CI = +/-0.135; p = 0.092) | 0.467                   | +7.00%                  | -4.59%                    |
| Frequency | 2013.1     | 0.056 (CI = +/-0.176; p = 0.511)  | -0.103 (CI = +/-0.122; p = 0.092) | -0.102 (CI = +/-0.192; p = 0.274) | 0.459                   | +5.73%                  | -4.54%                    |
| Frequency | 2013.2     | 0.080 (CI = +/-0.290; p = 0.565)  | -0.106 (CI = +/-0.130; p = 0.102) | -0.127 (CI = +/-0.305; p = 0.387) | 0.453                   | +8.31%                  | -4.59%                    |
| Frequency | 2014.1     | 0.142 (CI = +/-0.656; p = 0.648)  | -0.101 (CI = +/-0.144; p = 0.153) | -0.190 (CI = +/-0.669; p = 0.550) | 0.421                   | +15.27%                 | -4.66%                    |
| Frequency | 2014.2     | -0.048 (CI = +/-0.031; p = 0.006) | -0.101 (CI = +/-0.144; p = 0.153) | NA (CI = +/-NA; p = NA)           | 0.454                   | -4.66%                  | -4.66%                    |
| Frequency | 2015.1     | -0.052 (CI = +/-0.035; p = 0.007) | -0.113 (CI = +/-0.152; p = 0.132) | NA (CI = +/-NA; p = NA)           | 0.444                   | -5.11%                  | -5.11%                    |
| Frequency | 2015.2     | -0.057 (CI = +/-0.041; p = 0.010) | -0.100 (CI = +/-0.164; p = 0.207) | NA (CI = +/-NA; p = NA)           | 0.450                   | -5.59%                  | -5.59%                    |
| Frequency | 2016.1     | -0.065 (CI = +/-0.047; p = 0.011) | -0.116 (CI = +/-0.175; p = 0.169) | NA (CI = +/-NA; p = NA)           | 0.450                   | -6.27%                  | -5.97%                    |
| Frequency | 2016.2     | -0.076 (CI = +/-0.054; p = 0.011) | -0.091 (CI = +/-0.186; p = 0.297) | NA (CI = +/-NA; p = NA)           | 0.497                   | -7.36%                  | -7.36%                    |
| Frequency | 2017.1     | -0.086 (CI = +/-0.064; p = 0.014) | -0.108 (CI = +/-0.202; p = 0.253) | NA (CI = +/-NA; p = NA)           | 0.479                   | -8.22%                  | -8.22%                    |



## Accident Benefits Total - Adjusted

Coverage = AB Total - Adjusted

End Trend Period = 2021.2

Excluded Points = NA

Parameters Included: time, trend\_level\_change, seasonality

Future Trend Start Date = 2015-01-01

| Fit       | Start Date | Time                              | Seasonality                       | Trend Shift                       | Adjusted R <sup>2</sup> | Implied Past<br>Trend Rate | Implied Future<br>Trend Rate |
|-----------|------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|----------------------------|------------------------------|
| Loss Cost | 2005.2     | 0.026 (CI = +/-0.014; p = 0.001)  | -0.189 (CI = +/-0.070; p = 0.000) | 0.047 (CI = +/-0.030; p = 0.003)  | 0.861                   | +2.61%                     | +7.52%                       |
| Loss Cost | 2006.1     | 0.030 (CI = +/-0.015; p = 0.000)  | -0.180 (CI = +/-0.069; p = 0.000) | 0.040 (CI = +/-0.030; p = 0.011)  | 0.873                   | +3.08%                     | +7.31%                       |
| Loss Cost | 2006.2     | 0.030 (CI = +/-0.017; p = 0.001)  | -0.179 (CI = +/-0.071; p = 0.000) | 0.041 (CI = +/-0.032; p = 0.015)  | 0.862                   | +3.05%                     | +7.32%                       |
| Loss Cost | 2007.1     | 0.030 (CI = +/-0.018; p = 0.002)  | -0.179 (CI = +/-0.074; p = 0.000) | 0.040 (CI = +/-0.034; p = 0.023)  | 0.859                   | +3.08%                     | +7.31%                       |
| Loss Cost | 2007.2     | 0.031 (CI = +/-0.020; p = 0.005)  | -0.179 (CI = +/-0.077; p = 0.000) | 0.040 (CI = +/-0.037; p = 0.035)  | 0.847                   | +3.12%                     | +7.30%                       |
| Loss Cost | 2008.1     | 0.033 (CI = +/-0.023; p = 0.006)  | -0.175 (CI = +/-0.079; p = 0.000) | 0.036 (CI = +/-0.039; p = 0.070)  | 0.847                   | +3.41%                     | +7.21%                       |
| Loss Cost | 2008.2     | 0.034 (CI = +/-0.026; p = 0.013)  | -0.176 (CI = +/-0.083; p = 0.000) | 0.036 (CI = +/-0.043; p = 0.099)  | 0.833                   | +3.45%                     | +7.20%                       |
| Loss Cost | 2009.1     | 0.040 (CI = +/-0.029; p = 0.010)  | -0.169 (CI = +/-0.085; p = 0.000) | 0.029 (CI = +/-0.046; p = 0.211)  | 0.836                   | +4.03%                     | +7.05%                       |
| Loss Cost | 2009.2     | 0.046 (CI = +/-0.033; p = 0.010)  | -0.175 (CI = +/-0.088; p = 0.000) | 0.021 (CI = +/-0.050; p = 0.393)  | 0.830                   | +4.66%                     | +6.90%                       |
| Loss Cost | 2010.1     | 0.052 (CI = +/-0.039; p = 0.011)  | -0.169 (CI = +/-0.091; p = 0.001) | 0.013 (CI = +/-0.056; p = 0.623)  | 0.830                   | +5.35%                     | +6.76%                       |
| Loss Cost | 2010.2     | 0.054 (CI = +/-0.046; p = 0.025)  | -0.170 (CI = +/-0.095; p = 0.001) | 0.011 (CI = +/-0.064; p = 0.714)  | 0.808                   | +5.53%                     | +6.73%                       |
| Loss Cost | 2011.1     | 0.064 (CI = +/-0.056; p = 0.027)  | -0.163 (CI = +/-0.099; p = 0.003) | 0.000 (CI = +/-0.073; p = 0.999)  | 0.807                   | +6.59%                     | +6.59%                       |
| Loss Cost | 2011.2     | 0.065 (CI = +/-0.070; p = 0.066)  | -0.164 (CI = +/-0.105; p = 0.004) | -0.001 (CI = +/-0.087; p = 0.976) | 0.775                   | +6.71%                     | +6.57%                       |
| Loss Cost | 2012.1     | 0.061 (CI = +/-0.090; p = 0.170)  | -0.166 (CI = +/-0.112; p = 0.006) | 0.003 (CI = +/-0.108; p = 0.956)  | 0.759                   | +6.30%                     | +6.61%                       |
| Loss Cost | 2012.2     | 0.068 (CI = +/-0.123; p = 0.256)  | -0.168 (CI = +/-0.119; p = 0.009) | -0.005 (CI = +/-0.141; p = 0.946) | 0.720                   | +7.04%                     | +6.56%                       |
| Loss Cost | 2013.1     | 0.129 (CI = +/-0.173; p = 0.132)  | -0.153 (CI = +/-0.123; p = 0.018) | -0.068 (CI = +/-0.190; p = 0.453) | 0.734                   | +13.78%                    | +6.28%                       |
| Loss Cost | 2013.2     | 0.172 (CI = +/-0.286; p = 0.217)  | -0.159 (CI = +/-0.131; p = 0.021) | -0.112 (CI = +/-0.302; p = 0.436) | 0.674                   | +18.79%                    | +6.15%                       |
| Loss Cost | 2014.1     | 0.439 (CI = +/-0.616; p = 0.147)  | -0.137 (CI = +/-0.139; p = 0.053) | -0.382 (CI = +/-0.629; p = 0.211) | 0.677                   | +55.05%                    | +5.86%                       |
| Loss Cost | 2014.2     | 0.057 (CI = +/-0.032; p = 0.002)  | -0.137 (CI = +/-0.139; p = 0.053) | NA (CI = +/-NA; p = NA)           | 0.556                   | +5.86%                     | +5.86%                       |
| Loss Cost | 2015.1     | 0.049 (CI = +/-0.036; p = 0.012)  | -0.157 (CI = +/-0.145; p = 0.036) | NA (CI = +/-NA; p = NA)           | 0.531                   | +5.01%                     | +5.01%                       |
| Loss Cost | 2015.2     | 0.043 (CI = +/-0.041; p = 0.042)  | -0.144 (CI = +/-0.155; p = 0.065) | NA (CI = +/-NA; p = NA)           | 0.392                   | +4.40%                     | +4.40%                       |
| Loss Cost | 2016.1     | 0.040 (CI = +/-0.050; p = 0.103)  | -0.150 (CI = +/-0.173; p = 0.080) | NA (CI = +/-NA; p = NA)           | 0.367                   | +4.09%                     | +4.09%                       |
| Loss Cost | 2016.2     | 0.023 (CI = +/-0.053; p = 0.352)  | -0.118 (CI = +/-0.167; p = 0.142) | NA (CI = +/-NA; p = NA)           | 0.141                   | +2.28%                     | +2.28%                       |
| Loss Cost | 2017.1     | 0.010 (CI = +/-0.064; p = 0.733)  | -0.142 (CI = +/-0.184; p = 0.110) | NA (CI = +/-NA; p = NA)           | 0.167                   | +0.96%                     | +0.96%                       |
| Severity  | 2005.2     | 0.030 (CI = +/-0.012; p = 0.000)  | -0.099 (CI = +/-0.057; p = 0.001) | 0.073 (CI = +/-0.024; p = 0.000)  | 0.936                   | +3.05%                     | +10.80%                      |
| Severity  | 2006.1     | 0.032 (CI = +/-0.013; p = 0.000)  | -0.094 (CI = +/-0.058; p = 0.003) | 0.069 (CI = +/-0.025; p = 0.000)  | 0.937                   | +3.28%                     | +10.70%                      |
| Severity  | 2006.2     | 0.028 (CI = +/-0.013; p = 0.000)  | -0.084 (CI = +/-0.056; p = 0.005) | 0.076 (CI = +/-0.025; p = 0.000)  | 0.938                   | +2.79%                     | +10.92%                      |
| Severity  | 2007.1     | 0.022 (CI = +/-0.013; p = 0.002)  | -0.094 (CI = +/-0.054; p = 0.002) | 0.083 (CI = +/-0.025; p = 0.000)  | 0.942                   | +2.26%                     | +11.13%                      |
| Severity  | 2007.2     | 0.016 (CI = +/-0.014; p = 0.024)  | -0.082 (CI = +/-0.051; p = 0.003) | 0.092 (CI = +/-0.024; p = 0.000)  | 0.949                   | +1.58%                     | +11.40%                      |
| Severity  | 2008.1     | 0.012 (CI = +/-0.015; p = 0.106)  | -0.088 (CI = +/-0.051; p = 0.002) | 0.097 (CI = +/-0.025; p = 0.000)  | 0.950                   | +1.21%                     | +11.52%                      |
| Severity  | 2008.2     | 0.004 (CI = +/-0.015; p = 0.546)  | -0.078 (CI = +/-0.048; p = 0.003) | 0.107 (CI = +/-0.025; p = 0.000)  | 0.956                   | +0.44%                     | +11.77%                      |
| Severity  | 2009.1     | 0.006 (CI = +/-0.017; p = 0.466)  | -0.076 (CI = +/-0.050; p = 0.004) | 0.105 (CI = +/-0.027; p = 0.000)  | 0.955                   | +0.61%                     | +11.73%                      |
| Severity  | 2009.2     | 0.008 (CI = +/-0.020; p = 0.422)  | -0.077 (CI = +/-0.052; p = 0.005) | 0.103 (CI = +/-0.030; p = 0.000)  | 0.954                   | +0.78%                     | +11.68%                      |
| Severity  | 2010.1     | 0.009 (CI = +/-0.023; p = 0.411)  | -0.076 (CI = +/-0.054; p = 0.008) | 0.101 (CI = +/-0.033; p = 0.000)  | 0.952                   | +0.94%                     | +11.65%                      |
| Severity  | 2010.2     | 0.010 (CI = +/-0.028; p = 0.438)  | -0.077 (CI = +/-0.057; p = 0.011) | 0.100 (CI = +/-0.038; p = 0.000)  | 0.950                   | +1.05%                     | +11.63%                      |
| Severity  | 2011.1     | 0.014 (CI = +/-0.033; p = 0.389)  | -0.074 (CI = +/-0.060; p = 0.017) | 0.095 (CI = +/-0.034; p = 0.000)  | 0.948                   | +1.42%                     | +11.57%                      |
| Severity  | 2011.2     | -0.004 (CI = +/-0.038; p = 0.813) | -0.064 (CI = +/-0.058; p = 0.033) | 0.116 (CI = +/-0.048; p = 0.000)  | 0.951                   | -0.44%                     | +11.82%                      |
| Severity  | 2012.1     | -0.005 (CI = +/-0.050; p = 0.831) | -0.064 (CI = +/-0.062; p = 0.042) | 0.117 (CI = +/-0.060; p = 0.001)  | 0.949                   | -0.51%                     | +11.83%                      |
| Severity  | 2012.2     | -0.001 (CI = +/-0.068; p = 0.969) | -0.065 (CI = +/-0.066; p = 0.050) | 0.113 (CI = +/-0.078; p = 0.007)  | 0.945                   | -0.12%                     | +11.80%                      |
| Severity  | 2013.1     | 0.072 (CI = +/-0.080; p = 0.074)  | -0.047 (CI = +/-0.056; p = 0.093) | 0.037 (CI = +/-0.087; p = 0.385)  | 0.963                   | +7.45%                     | +11.45%                      |
| Severity  | 2013.2     | 0.088 (CI = +/-0.132; p = 0.172)  | -0.050 (CI = +/-0.060; p = 0.099) | 0.020 (CI = +/-0.125; p = 0.766)  | 0.957                   | +9.23%                     | +11.40%                      |
| Severity  | 2014.1     | 0.294 (CI = +/-0.259; p = 0.029)  | -0.032 (CI = +/-0.058; p = 0.249) | -0.188 (CI = +/-0.264; p = 0.146) | 0.963                   | +34.19%                    | +11.16%                      |
| Severity  | 2014.2     | 0.106 (CI = +/-0.013; p = 0.000)  | -0.032 (CI = +/-0.058; p = 0.249) | NA (CI = +/-NA; p = NA)           | 0.954                   | +11.16%                    | +11.16%                      |
| Severity  | 2015.1     | 0.104 (CI = +/-0.016; p = 0.000)  | -0.037 (CI = +/-0.063; p = 0.221) | NA (CI = +/-NA; p = NA)           | 0.945                   | +10.95%                    | +10.95%                      |
| Severity  | 2015.2     | 0.104 (CI = +/-0.018; p = 0.000)  | -0.037 (CI = +/-0.069; p = 0.263) | NA (CI = +/-NA; p = NA)           | 0.929                   | +10.93%                    | +10.93%                      |
| Severity  | 2016.1     | 0.111 (CI = +/-0.019; p = 0.000)  | -0.021 (CI = +/-0.066; p = 0.500) | NA (CI = +/-NA; p = NA)           | 0.942                   | +11.77%                    | +11.77%                      |
| Severity  | 2016.2     | 0.107 (CI = +/-0.022; p = 0.000)  | -0.013 (CI = +/-0.070; p = 0.686) | NA (CI = +/-NA; p = NA)           | 0.925                   | +11.30%                    | +11.30%                      |
| Severity  | 2017.1     | 0.110 (CI = +/-0.028; p = 0.000)  | -0.008 (CI = +/-0.081; p = 0.829) | NA (CI = +/-NA; p = NA)           | 0.907                   | +11.61%                    | +11.61%                      |
| Frequency | 2005.2     | -0.004 (CI = +/-0.017; p = 0.601) | -0.091 (CI = +/-0.082; p = 0.031) | -0.026 (CI = +/-0.035; p = 0.144) | 0.342                   | -0.43%                     | -2.96%                       |
| Frequency | 2006.1     | -0.002 (CI = +/-0.018; p = 0.828) | -0.086 (CI = +/-0.084; p = 0.046) | -0.029 (CI = +/-0.037; p = 0.116) | 0.310                   | -0.20%                     | -3.06%                       |
| Frequency | 2006.2     | 0.003 (CI = +/-0.020; p = 0.790)  | -0.095 (CI = +/-0.085; p = 0.030) | -0.036 (CI = +/-0.038; p = 0.066) | 0.320                   | +0.26%                     | -3.24%                       |
| Frequency | 2007.1     | 0.008 (CI = +/-0.021; p = 0.445)  | -0.085 (CI = +/-0.085; p = 0.050) | -0.043 (CI = +/-0.039; p = 0.033) | 0.301                   | +0.80%                     | -3.43%                       |
| Frequency | 2007.2     | 0.015 (CI = +/-0.022; p = 0.183)  | -0.097 (CI = +/-0.084; p = 0.026) | -0.052 (CI = +/-0.040; p = 0.013) | 0.341                   | +1.51%                     | -3.68%                       |
| Frequency | 2008.1     | 0.022 (CI = +/-0.024; p = 0.081)  | -0.087 (CI = +/-0.085; p = 0.045) | -0.061 (CI = +/-0.042; p = 0.006) | 0.349                   | +2.18%                     | -3.87%                       |
| Frequency | 2008.2     | 0.029 (CI = +/-0.027; p = 0.031)  | -0.098 (CI = +/-0.085; p = 0.025) | -0.071 (CI = +/-0.044; p = 0.003) | 0.395                   | +2.99%                     | -4.10%                       |
| Frequency | 2009.1     | 0.033 (CI = +/-0.030; p = 0.032)  | -0.093 (CI = +/-0.088; p = 0.038) | -0.076 (CI = +/-0.047; p = 0.003) | 0.399                   | +3.40%                     | -4.19%                       |
| Frequency | 2009.2     | 0.038 (CI = +/-0.035; p = 0.035)  | -0.098 (CI = +/-0.091; p = 0.036) | -0.082 (CI = +/-0.052; p = 0.004) | 0.400                   | +3.85%                     | -4.29%                       |
| Frequency | 2010.1     | 0.043 (CI = +/-0.041; p = 0.040)  | -0.093 (CI = +/-0.095; p = 0.054) | -0.088 (CI = +/-0.058; p = 0.005) | 0.403                   | +4.37%                     | -4.38%                       |
| Frequency | 2010.2     | 0.043 (CI = +/-0.049; p = 0.077)  | -0.093 (CI = +/-0.100; p = 0.065) | -0.088 (CI = +/-0.067; p = 0.012) | 0.386                   | +4.43%                     | -4.39%                       |
| Frequency | 2011.1     | 0.050 (CI = +/-0.053; p = 0.092)  | -0.089 (CI = +/-0.105; p = 0.091) | -0.095 (CI = +/-0.077; p = 0.018) | 0.385                   | +5.10%                     | -4.47%                       |
| Frequency | 2011.2     | 0.069 (CI = +/-0.071; p = 0.056)  | -0.100 (CI = +/-0.108; p = 0.066) | -0.117 (CI = +/-0.090; p = 0.013) | 0.415                   | +7.18%                     | -4.70%                       |
| Frequency | 2012.1     | 0.066 (CI = +/-0.092; p = 0.149)  | -0.102 (CI = +/-0.114; p = 0.078) | -0.114 (CI = +/-0.111; p = 0.044) | 0.410                   | +6.84%                     | -4.67%                       |
| Frequency | 2012.2     | 0.069 (CI = +/-0.126; p = 0.259)  | -0.103 (CI = +/-0.122; p = 0.093) | -0.117 (CI = +/-0.144; p = 0.104) | 0.399                   | +7.17%                     | -4.69%                       |
| Frequency | 2013.1     | 0.057 (CI = +/-0.185; p = 0.517)  | -0.106 (CI = +/-0.131; p = 0.105) | -0.105 (CI = +/-0.202; p = 0.285) | 0.391                   | +5.89%                     | -4.64%                       |
| Frequency | 2013.2     | 0.084 (CI = +/-0.307; p = 0.565)  | -0.109 (CI = +/-0.140; p = 0.116) | -0.132 (CI = +/-0.323; p = 0.394) | 0.385                   | +8.74%                     | -4.71%                       |
| Frequency | 2014.1     | 0.144 (CI = +/-0.689; p = 0.656)  | -0.104 (CI = +/-0.155; p = 0.170) | -0.193 (CI = +/-0.703; p = 0.560) | 0.349                   | +15.54%                    | -4.77%                       |
| Frequency | 2014.2     | -0.049 (CI = +/-0.036; p = 0.012) | -0.104 (CI = +/-0.155; p = 0.170) | NA (CI = +/-NA; p = NA)           | 0.390                   | -4.77%                     | -4.77%                       |
| Frequency | 2015.1     | -0.055 (CI = +/-0.041; p = 0.014) | -0.120 (CI = +/-0.166; p = 0.142) | NA (CI = +/-NA; p = NA)           | 0.384                   | -5.36%                     | -5.36%                       |
| Frequency | 2015.2     | -0.061 (CI = +/-0.048; p = 0.018) | -0.107 (CI = +/-0.179; p = 0.212) | NA (CI = +/-NA; p = NA)           | 0.394                   | -5.89%                     | -5.89%                       |
| Frequency | 2016.1     | -0.071 (CI = +/-0.056; p = 0.018) | -0.130 (CI = +/-0.193; p = 0.162) | NA (CI = +/-NA; p = NA)           | 0.407                   | -6.87%                     | -6.87%                       |
| Frequency | 2016.2     | -0.084 (CI = +/-0.064; p = 0.016) | -0.106 (CI = +/-0.203; p = 0.266) | NA (CI = +/-NA; p = NA)           | 0.465                   | -8.10%                     | -8.10%                       |
| Frequency | 2017.1     | -0.100 (CI = +/-0.078; p = 0.019) | -0.134 (CI = +/-0.223; p = 0.198) | NA (CI = +/-NA; p = NA)           | 0.474                   | -9.54%                     | -9.54%                       |

## Accident Benefits Total

Coverage = AB Total

End Trend Period = 2019.2

Excluded Points = NA

Parameters Included: trend\_level\_change, seasonality

Future Trend Start Date = 2015-01-01

| Fit       | Start Date | Seasonality                       | Trend Shift                       | Adjusted R^2 | Implied Past Trend Rate | Implied Future Trend Rate |
|-----------|------------|-----------------------------------|-----------------------------------|--------------|-------------------------|---------------------------|
| Loss Cost | 2005.2     | -0.170 (CI = +/-0.065; p = 0.000) | 0.134 (CI = +/-0.021; p = 0.000)  | 0.880        | 0.00%                   | +14.31%                   |
| Loss Cost | 2006.1     | -0.168 (CI = +/-0.067; p = 0.000) | 0.134 (CI = +/-0.021; p = 0.000)  | 0.881        | 0.00%                   | +14.38%                   |
| Loss Cost | 2006.2     | -0.157 (CI = +/-0.066; p = 0.000) | 0.132 (CI = +/-0.021; p = 0.000)  | 0.885        | 0.00%                   | +14.15%                   |
| Loss Cost | 2007.1     | -0.165 (CI = +/-0.067; p = 0.000) | 0.131 (CI = +/-0.021; p = 0.000)  | 0.891        | 0.00%                   | +13.95%                   |
| Loss Cost | 2007.2     | -0.156 (CI = +/-0.066; p = 0.000) | 0.129 (CI = +/-0.020; p = 0.000)  | 0.892        | 0.00%                   | +13.76%                   |
| Loss Cost | 2008.1     | -0.160 (CI = +/-0.069; p = 0.000) | 0.128 (CI = +/-0.021; p = 0.000)  | 0.892        | 0.00%                   | +13.67%                   |
| Loss Cost | 2008.2     | -0.150 (CI = +/-0.069; p = 0.000) | 0.126 (CI = +/-0.021; p = 0.000)  | 0.892        | 0.00%                   | +13.46%                   |
| Loss Cost | 2009.1     | -0.151 (CI = +/-0.073; p = 0.000) | 0.126 (CI = +/-0.022; p = 0.000)  | 0.891        | 0.00%                   | +13.44%                   |
| Loss Cost | 2009.2     | -0.147 (CI = +/-0.076; p = 0.001) | 0.125 (CI = +/-0.023; p = 0.000)  | 0.885        | 0.00%                   | +13.34%                   |
| Loss Cost | 2010.1     | -0.150 (CI = +/-0.081; p = 0.001) | 0.124 (CI = +/-0.024; p = 0.000)  | 0.884        | 0.00%                   | +13.25%                   |
| Loss Cost | 2010.2     | -0.138 (CI = +/-0.081; p = 0.002) | 0.122 (CI = +/-0.023; p = 0.000)  | 0.883        | 0.00%                   | +12.94%                   |
| Loss Cost | 2011.1     | -0.141 (CI = +/-0.086; p = 0.003) | 0.121 (CI = +/-0.025; p = 0.000)  | 0.881        | 0.00%                   | +12.85%                   |
| Loss Cost | 2011.2     | -0.127 (CI = +/-0.085; p = 0.006) | 0.117 (CI = +/-0.024; p = 0.000)  | 0.880        | 0.00%                   | +12.46%                   |
| Loss Cost | 2012.1     | -0.139 (CI = +/-0.087; p = 0.004) | 0.114 (CI = +/-0.025; p = 0.000)  | 0.884        | 0.00%                   | +12.08%                   |
| Loss Cost | 2012.2     | -0.131 (CI = +/-0.092; p = 0.009) | 0.112 (CI = +/-0.026; p = 0.000)  | 0.871        | 0.00%                   | +11.82%                   |
| Loss Cost | 2013.1     | -0.123 (CI = +/-0.099; p = 0.019) | 0.114 (CI = +/-0.028; p = 0.000)  | 0.873        | 0.00%                   | +12.11%                   |
| Loss Cost | 2013.2     | -0.111 (CI = +/-0.104; p = 0.039) | 0.110 (CI = +/-0.030; p = 0.000)  | 0.855        | 0.00%                   | +11.65%                   |
| Loss Cost | 2014.1     | -0.110 (CI = +/-0.116; p = 0.060) | 0.110 (CI = +/-0.035; p = 0.000)  | 0.842        | 0.00%                   | +11.68%                   |
| Loss Cost | 2014.2     | -0.086 (CI = +/-0.109; p = 0.107) | 0.099 (CI = +/-0.034; p = 0.000)  | 0.821        | 0.00%                   | +10.45%                   |
| Loss Cost | 2015.1     | -0.090 (CI = +/-0.126; p = 0.135) | 0.097 (CI = +/-0.044; p = 0.001)  | 0.781        | 0.00%                   | +10.18%                   |
| Loss Cost | 2015.2     | -0.082 (CI = +/-0.145; p = 0.214) | 0.092 (CI = +/-0.056; p = 0.007)  | 0.668        | 0.00%                   | +9.59%                    |
| Loss Cost | 2016.1     | -0.058 (CI = +/-0.165; p = 0.404) | 0.108 (CI = +/-0.072; p = 0.012)  | 0.696        | 0.00%                   | +11.35%                   |
| Loss Cost | 2016.2     | -0.018 (CI = +/-0.110; p = 0.677) | 0.073 (CI = +/-0.054; p = 0.021)  | 0.667        | 0.00%                   | +7.54%                    |
| Loss Cost | 2017.1     | -0.017 (CI = +/-0.162; p = 0.767) | 0.074 (CI = +/-0.095; p = 0.090)  | 0.514        | 0.00%                   | +7.65%                    |
| Severity  | 2005.2     | -0.100 (CI = +/-0.088; p = 0.028) | 0.129 (CI = +/-0.028; p = 0.000)  | 0.767        | 0.00%                   | +13.78%                   |
| Severity  | 2006.1     | -0.107 (CI = +/-0.091; p = 0.023) | 0.128 (CI = +/-0.029; p = 0.000)  | 0.768        | 0.00%                   | +13.63%                   |
| Severity  | 2006.2     | -0.086 (CI = +/-0.082; p = 0.041) | 0.124 (CI = +/-0.026; p = 0.000)  | 0.798        | 0.00%                   | +13.19%                   |
| Severity  | 2007.1     | -0.106 (CI = +/-0.073; p = 0.006) | 0.119 (CI = +/-0.023; p = 0.000)  | 0.840        | 0.00%                   | +12.69%                   |
| Severity  | 2007.2     | -0.087 (CI = +/-0.062; p = 0.008) | 0.116 (CI = +/-0.019; p = 0.000)  | 0.874        | 0.00%                   | +12.27%                   |
| Severity  | 2008.1     | -0.099 (CI = +/-0.059; p = 0.002) | 0.113 (CI = +/-0.018; p = 0.000)  | 0.890        | 0.00%                   | +11.97%                   |
| Severity  | 2008.2     | -0.084 (CI = +/-0.052; p = 0.003) | 0.110 (CI = +/-0.016; p = 0.000)  | 0.911        | 0.00%                   | +11.64%                   |
| Severity  | 2009.1     | -0.084 (CI = +/-0.055; p = 0.005) | 0.110 (CI = +/-0.016; p = 0.000)  | 0.910        | 0.00%                   | +11.65%                   |
| Severity  | 2009.2     | -0.084 (CI = +/-0.058; p = 0.007) | 0.110 (CI = +/-0.017; p = 0.000)  | 0.906        | 0.00%                   | +11.66%                   |
| Severity  | 2010.1     | -0.086 (CI = +/-0.061; p = 0.009) | 0.110 (CI = +/-0.018; p = 0.000)  | 0.904        | 0.00%                   | +11.62%                   |
| Severity  | 2010.2     | -0.084 (CI = +/-0.065; p = 0.015) | 0.110 (CI = +/-0.019; p = 0.000)  | 0.898        | 0.00%                   | +11.58%                   |
| Severity  | 2011.1     | -0.085 (CI = +/-0.070; p = 0.020) | 0.109 (CI = +/-0.020; p = 0.000)  | 0.896        | 0.00%                   | +11.54%                   |
| Severity  | 2011.2     | -0.071 (CI = +/-0.066; p = 0.036) | 0.106 (CI = +/-0.019; p = 0.000)  | 0.904        | 0.00%                   | +11.16%                   |
| Severity  | 2012.1     | -0.071 (CI = +/-0.071; p = 0.049) | 0.106 (CI = +/-0.020; p = 0.000)  | 0.900        | 0.00%                   | +11.15%                   |
| Severity  | 2012.2     | -0.074 (CI = +/-0.077; p = 0.059) | 0.106 (CI = +/-0.022; p = 0.000)  | 0.892        | 0.00%                   | +11.22%                   |
| Severity  | 2013.1     | -0.059 (CI = +/-0.075; p = 0.115) | 0.111 (CI = +/-0.022; p = 0.000)  | 0.911        | 0.00%                   | +11.75%                   |
| Severity  | 2013.2     | -0.048 (CI = +/-0.078; p = 0.198) | 0.108 (CI = +/-0.023; p = 0.000)  | 0.904        | 0.00%                   | +11.36%                   |
| Severity  | 2014.1     | -0.054 (CI = +/-0.086; p = 0.188) | 0.105 (CI = +/-0.026; p = 0.000)  | 0.891        | 0.00%                   | +11.11%                   |
| Severity  | 2014.2     | -0.031 (CI = +/-0.067; p = 0.326) | 0.095 (CI = +/-0.021; p = 0.000)  | 0.913        | 0.00%                   | +9.93%                    |
| Severity  | 2015.1     | -0.043 (CI = +/-0.071; p = 0.197) | 0.088 (CI = +/-0.025; p = 0.000)  | 0.896        | 0.00%                   | +9.20%                    |
| Severity  | 2015.2     | -0.037 (CI = +/-0.080; p = 0.306) | 0.084 (CI = +/-0.031; p = 0.001)  | 0.845        | 0.00%                   | +8.75%                    |
| Severity  | 2016.1     | -0.019 (CI = +/-0.084; p = 0.587) | 0.096 (CI = +/-0.036; p = 0.001)  | 0.872        | 0.00%                   | +10.04%                   |
| Severity  | 2016.2     | 0.000 (CI = +/-0.065; p = 0.990)  | 0.079 (CI = +/-0.032; p = 0.002)  | 0.882        | 0.00%                   | +8.25%                    |
| Severity  | 2017.1     | -0.003 (CI = +/-0.095; p = 0.937) | 0.077 (CI = +/-0.056; p = 0.022)  | 0.793        | 0.00%                   | +7.98%                    |
| Frequency | 2005.2     | -0.070 (CI = +/-0.056; p = 0.017) | 0.005 (CI = +/-0.018; p = 0.605)  | 0.149        | 0.00%                   | +0.46%                    |
| Frequency | 2006.1     | -0.061 (CI = +/-0.055; p = 0.032) | 0.007 (CI = +/-0.018; p = 0.450)  | 0.129        | 0.00%                   | +0.65%                    |
| Frequency | 2006.2     | -0.072 (CI = +/-0.052; p = 0.009) | 0.009 (CI = +/-0.016; p = 0.294)  | 0.221        | 0.00%                   | +0.86%                    |
| Frequency | 2007.1     | -0.059 (CI = +/-0.047; p = 0.016) | 0.011 (CI = +/-0.015; p = 0.131)  | 0.236        | 0.00%                   | +1.12%                    |
| Frequency | 2007.2     | -0.070 (CI = +/-0.044; p = 0.003) | 0.013 (CI = +/-0.013; p = 0.054)  | 0.361        | 0.00%                   | +1.32%                    |
| Frequency | 2008.1     | -0.061 (CI = +/-0.041; p = 0.006) | 0.015 (CI = +/-0.013; p = 0.021)  | 0.388        | 0.00%                   | +1.52%                    |
| Frequency | 2008.2     | -0.066 (CI = +/-0.042; p = 0.003) | 0.016 (CI = +/-0.013; p = 0.014)  | 0.433        | 0.00%                   | +1.62%                    |
| Frequency | 2009.1     | -0.067 (CI = +/-0.044; p = 0.005) | 0.016 (CI = +/-0.013; p = 0.019)  | 0.432        | 0.00%                   | +1.61%                    |
| Frequency | 2009.2     | -0.063 (CI = +/-0.045; p = 0.009) | 0.015 (CI = +/-0.013; p = 0.029)  | 0.387        | 0.00%                   | +1.51%                    |
| Frequency | 2010.1     | -0.065 (CI = +/-0.047; p = 0.011) | 0.014 (CI = +/-0.014; p = 0.042)  | 0.389        | 0.00%                   | +1.46%                    |
| Frequency | 2010.2     | -0.054 (CI = +/-0.044; p = 0.018) | 0.012 (CI = +/-0.013; p = 0.059)  | 0.343        | 0.00%                   | +1.22%                    |
| Frequency | 2011.1     | -0.056 (CI = +/-0.046; p = 0.021) | 0.012 (CI = +/-0.013; p = 0.084)  | 0.344        | 0.00%                   | +1.17%                    |
| Frequency | 2011.2     | -0.056 (CI = +/-0.050; p = 0.029) | 0.012 (CI = +/-0.014; p = 0.101)  | 0.311        | 0.00%                   | +1.17%                    |
| Frequency | 2012.1     | -0.068 (CI = +/-0.046; p = 0.007) | 0.008 (CI = +/-0.013; p = 0.191)  | 0.426        | 0.00%                   | +0.84%                    |
| Frequency | 2012.2     | -0.057 (CI = +/-0.041; p = 0.010) | 0.005 (CI = +/-0.012; p = 0.340)  | 0.374        | 0.00%                   | +0.54%                    |
| Frequency | 2013.1     | -0.064 (CI = +/-0.042; p = 0.006) | 0.003 (CI = +/-0.012; p = 0.576)  | 0.445        | 0.00%                   | +0.31%                    |
| Frequency | 2013.2     | -0.063 (CI = +/-0.046; p = 0.012) | 0.003 (CI = +/-0.013; p = 0.670)  | 0.389        | 0.00%                   | +0.26%                    |
| Frequency | 2014.1     | -0.056 (CI = +/-0.048; p = 0.027) | 0.005 (CI = +/-0.014; p = 0.449)  | 0.362        | 0.00%                   | +0.51%                    |
| Frequency | 2014.2     | -0.055 (CI = +/-0.054; p = 0.046) | 0.005 (CI = +/-0.017; p = 0.545)  | 0.283        | 0.00%                   | +0.47%                    |
| Frequency | 2015.1     | -0.048 (CI = +/-0.059; p = 0.100) | 0.009 (CI = +/-0.021; p = 0.339)  | 0.279        | 0.00%                   | +0.90%                    |
| Frequency | 2015.2     | -0.046 (CI = +/-0.069; p = 0.157) | 0.008 (CI = +/-0.027; p = 0.503)  | 0.124        | 0.00%                   | +0.78%                    |
| Frequency | 2016.1     | -0.040 (CI = +/-0.084; p = 0.279) | 0.012 (CI = +/-0.037; p = 0.443)  | 0.095        | 0.00%                   | +1.19%                    |
| Frequency | 2016.2     | -0.018 (CI = +/-0.050; p = 0.370) | -0.007 (CI = +/-0.025; p = 0.499) | -0.077       | 0.00%                   | -0.65%                    |
| Frequency | 2017.1     | -0.014 (CI = +/-0.072; p = 0.578) | -0.003 (CI = +/-0.042; p = 0.830) | -0.475       | 0.00%                   | -0.31%                    |

**Accident Benefits Total**

Coverage = AB Total

End Trend Period = 2022.1

Excluded Points = NA

Parameters Included: time, scalar\_level\_change, trend\_level\_change, seasonality

Scalar Level Change Start Date = 2020-11-01

Future Trend Start Date = 2015-01-01

| Fit       | Start Date | Time                              | Seasonality                       | Scalar Shift                      | Trend Shift                       | Adjusted R <sup>2</sup> | Implied Past<br>Trend Rate | Implied Future<br>Trend Rate |
|-----------|------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|----------------------------|------------------------------|
| Loss Cost | 2005.2     | 0.023 (CI = +/-0.014; p = 0.002)  | -0.186 (CI = +/-0.066; p = 0.000) | -0.064 (CI = +/-0.170; p = 0.445) | 0.064 (CI = +/-0.034; p = 0.001)  | 0.888                   | +2.30%                     | +9.05%                       |
| Loss Cost | 2006.1     | 0.027 (CI = +/-0.015; p = 0.001)  | -0.177 (CI = +/-0.065; p = 0.000) | -0.058 (CI = +/-0.166; p = 0.481) | 0.057 (CI = +/-0.034; p = 0.002)  | 0.897                   | +2.76%                     | +8.78%                       |
| Loss Cost | 2006.2     | 0.027 (CI = +/-0.016; p = 0.002)  | -0.176 (CI = +/-0.067; p = 0.000) | -0.059 (CI = +/-0.169; p = 0.482) | 0.058 (CI = +/-0.036; p = 0.003)  | 0.889                   | +2.70%                     | +8.81%                       |
| Loss Cost | 2007.1     | 0.027 (CI = +/-0.018; p = 0.005)  | -0.176 (CI = +/-0.069; p = 0.000) | -0.059 (CI = +/-0.173; p = 0.491) | 0.058 (CI = +/-0.038; p = 0.004)  | 0.886                   | +2.69%                     | +8.81%                       |
| Loss Cost | 2007.2     | 0.026 (CI = +/-0.020; p = 0.012)  | -0.176 (CI = +/-0.072; p = 0.000) | -0.059 (CI = +/-0.177; p = 0.499) | 0.058 (CI = +/-0.041; p = 0.007)  | 0.877                   | +2.68%                     | +8.82%                       |
| Loss Cost | 2008.1     | 0.029 (CI = +/-0.023; p = 0.014)  | -0.172 (CI = +/-0.075; p = 0.000) | -0.056 (CI = +/-0.180; p = 0.526) | 0.055 (CI = +/-0.044; p = 0.016)  | 0.876                   | +2.94%                     | +8.71%                       |
| Loss Cost | 2008.2     | 0.029 (CI = +/-0.026; p = 0.029)  | -0.172 (CI = +/-0.078; p = 0.000) | -0.057 (CI = +/-0.185; p = 0.534) | 0.055 (CI = +/-0.047; p = 0.024)  | 0.865                   | +2.92%                     | +8.72%                       |
| Loss Cost | 2009.1     | 0.034 (CI = +/-0.029; p = 0.023)  | -0.166 (CI = +/-0.080; p = 0.000) | -0.052 (CI = +/-0.187; p = 0.572) | 0.048 (CI = +/-0.051; p = 0.063)  | 0.867                   | +3.46%                     | +8.53%                       |
| Loss Cost | 2009.2     | 0.039 (CI = +/-0.033; p = 0.022)  | -0.171 (CI = +/-0.083; p = 0.000) | -0.046 (CI = +/-0.191; p = 0.620) | 0.041 (CI = +/-0.055; p = 0.136)  | 0.861                   | +4.00%                     | +8.36%                       |
| Loss Cost | 2010.1     | 0.045 (CI = +/-0.039; p = 0.023)  | -0.166 (CI = +/-0.086; p = 0.001) | -0.042 (CI = +/-0.194; p = 0.657) | 0.033 (CI = +/-0.061; p = 0.265)  | 0.860                   | +4.63%                     | +8.19%                       |
| Loss Cost | 2010.2     | 0.046 (CI = +/-0.046; p = 0.052)  | -0.166 (CI = +/-0.090; p = 0.001) | -0.042 (CI = +/-0.201; p = 0.669) | 0.033 (CI = +/-0.069; p = 0.328)  | 0.842                   | +4.67%                     | +8.18%                       |
| Loss Cost | 2011.1     | 0.055 (CI = +/-0.055; p = 0.053)  | -0.160 (CI = +/-0.094; p = 0.002) | -0.037 (CI = +/-0.205; p = 0.709) | 0.022 (CI = +/-0.078; p = 0.561)  | 0.840                   | +5.64%                     | +8.00%                       |
| Loss Cost | 2011.2     | 0.054 (CI = +/-0.069; p = 0.121)  | -0.159 (CI = +/-0.099; p = 0.004) | -0.038 (CI = +/-0.213; p = 0.714) | 0.023 (CI = +/-0.093; p = 0.601)  | 0.815                   | +5.51%                     | +8.02%                       |
| Loss Cost | 2012.1     | 0.047 (CI = +/-0.090; p = 0.280)  | -0.162 (CI = +/-0.105; p = 0.005) | -0.040 (CI = +/-0.221; p = 0.708) | 0.030 (CI = +/-0.113; p = 0.577)  | 0.801                   | +4.85%                     | +8.10%                       |
| Loss Cost | 2012.2     | 0.050 (CI = +/-0.122; p = 0.399)  | -0.162 (CI = +/-0.112; p = 0.007) | -0.039 (CI = +/-0.231; p = 0.724) | 0.028 (CI = +/-0.146; p = 0.688)  | 0.770                   | +5.09%                     | +8.08%                       |
| Loss Cost | 2013.1     | 0.108 (CI = +/-0.173; p = 0.203)  | -0.149 (CI = +/-0.116; p = 0.015) | -0.029 (CI = +/-0.233; p = 0.791) | -0.034 (CI = +/-0.195; p = 0.718) | 0.777                   | +11.36%                    | +7.69%                       |
| Loss Cost | 2013.2     | 0.139 (CI = +/-0.285; p = 0.311)  | -0.153 (CI = +/-0.124; p = 0.019) | -0.025 (CI = +/-0.245; p = 0.827) | -0.066 (CI = +/-0.306; p = 0.650) | 0.728                   | +14.88%                    | +7.55%                       |
| Loss Cost | 2014.1     | 0.393 (CI = +/-0.611; p = 0.187)  | -0.133 (CI = +/-0.132; p = 0.048) | -0.015 (CI = +/-0.247; p = 0.895) | -0.324 (CI = +/-0.629; p = 0.284) | 0.727                   | +48.10%                    | +7.14%                       |
| Loss Cost | 2014.2     | 0.069 (CI = +/-0.042; p = 0.004)  | -0.133 (CI = +/-0.132; p = 0.048) | -0.015 (CI = +/-0.247; p = 0.895) | NA (CI = +/-NA; p = NA)           | 0.634                   | +7.14%                     | +7.14%                       |
| Loss Cost | 2015.1     | 0.060 (CI = +/-0.048; p = 0.020)  | -0.147 (CI = +/-0.139; p = 0.040) | 0.015 (CI = +/-0.264; p = 0.902)  | NA (CI = +/-NA; p = NA)           | 0.597                   | +6.17%                     | +6.17%                       |
| Loss Cost | 2015.2     | 0.052 (CI = +/-0.058; p = 0.071)  | -0.137 (CI = +/-0.150; p = 0.070) | 0.036 (CI = +/-0.286; p = 0.785)  | NA (CI = +/-NA; p = NA)           | 0.473                   | +5.38%                     | +5.38%                       |
| Loss Cost | 2016.1     | 0.051 (CI = +/-0.072; p = 0.145)  | -0.138 (CI = +/-0.167; p = 0.093) | 0.040 (CI = +/-0.325; p = 0.785)  | NA (CI = +/-NA; p = NA)           | 0.438                   | +5.22%                     | +5.22%                       |
| Loss Cost | 2016.2     | 0.022 (CI = +/-0.080; p = 0.552)  | -0.102 (CI = +/-0.164; p = 0.170) | 0.113 (CI = +/-0.324; p = 0.447)  | NA (CI = +/-NA; p = NA)           | 0.249                   | +2.19%                     | +2.19%                       |
| Loss Cost | 2017.1     | 0.000 (CI = +/-0.101; p = 0.994)  | -0.127 (CI = +/-0.179; p = 0.137) | 0.167 (CI = +/-0.368; p = 0.319)  | NA (CI = +/-NA; p = NA)           | 0.245                   | +0.03%                     | +0.03%                       |
| Severity  | 2005.2     | 0.030 (CI = +/-0.012; p = 0.000)  | -0.097 (CI = +/-0.056; p = 0.001) | 0.107 (CI = +/-0.145; p = 0.143)  | 0.070 (CI = +/-0.029; p = 0.000)  | 0.947                   | +3.09%                     | +10.59%                      |
| Severity  | 2006.1     | 0.033 (CI = +/-0.013; p = 0.000)  | -0.093 (CI = +/-0.057; p = 0.002) | 0.111 (CI = +/-0.146; p = 0.132)  | 0.067 (CI = +/-0.030; p = 0.000)  | 0.947                   | +3.33%                     | +10.45%                      |
| Severity  | 2006.2     | 0.028 (CI = +/-0.013; p = 0.000)  | -0.084 (CI = +/-0.055; p = 0.005) | 0.101 (CI = +/-0.140; p = 0.149)  | 0.074 (CI = +/-0.030; p = 0.000)  | 0.949                   | +2.83%                     | +10.73%                      |
| Severity  | 2007.1     | 0.023 (CI = +/-0.014; p = 0.002)  | -0.093 (CI = +/-0.054; p = 0.001) | 0.094 (CI = +/-0.133; p = 0.158)  | 0.082 (CI = +/-0.029; p = 0.000)  | 0.953                   | +2.29%                     | +11.02%                      |
| Severity  | 2007.2     | 0.016 (CI = +/-0.014; p = 0.027)  | -0.082 (CI = +/-0.050; p = 0.002) | 0.083 (CI = +/-0.122; p = 0.173)  | 0.092 (CI = +/-0.028; p = 0.000)  | 0.958                   | +1.59%                     | +11.36%                      |
| Severity  | 2008.1     | 0.012 (CI = +/-0.015; p = 0.117)  | -0.088 (CI = +/-0.050; p = 0.001) | 0.079 (CI = +/-0.122; p = 0.192)  | 0.091 (CI = +/-0.029; p = 0.000)  | 0.959                   | +1.20%                     | +11.53%                      |
| Severity  | 2008.2     | 0.004 (CI = +/-0.015; p = 0.583)  | -0.078 (CI = +/-0.047; p = 0.002) | 0.069 (CI = +/-0.112; p = 0.216)  | 0.108 (CI = +/-0.028; p = 0.000)  | 0.964                   | +0.42%                     | +11.86%                      |
| Severity  | 2009.1     | 0.009 (CI = +/-0.018; p = 0.497)  | -0.076 (CI = +/-0.049; p = 0.004) | 0.070 (CI = +/-0.114; p = 0.215)  | 0.106 (CI = +/-0.031; p = 0.000)  | 0.964                   | +0.59%                     | +11.80%                      |
| Severity  | 2009.2     | 0.008 (CI = +/-0.020; p = 0.449)  | -0.077 (CI = +/-0.051; p = 0.005) | 0.072 (CI = +/-0.117; p = 0.215)  | 0.103 (CI = +/-0.034; p = 0.000)  | 0.963                   | +0.76%                     | +11.74%                      |
| Severity  | 2010.1     | 0.009 (CI = +/-0.024; p = 0.436)  | -0.076 (CI = +/-0.053; p = 0.007) | 0.073 (CI = +/-0.120; p = 0.220)  | 0.102 (CI = +/-0.038; p = 0.000)  | 0.962                   | +0.91%                     | +11.70%                      |
| Severity  | 2010.2     | 0.010 (CI = +/-0.028; p = 0.461)  | -0.077 (CI = +/-0.056; p = 0.010) | 0.074 (CI = +/-0.124; p = 0.228)  | 0.100 (CI = +/-0.043; p = 0.000)  | 0.959                   | +1.03%                     | +11.67%                      |
| Severity  | 2011.1     | 0.014 (CI = +/-0.035; p = 0.407)  | -0.074 (CI = +/-0.059; p = 0.016) | 0.076 (CI = +/-0.128; p = 0.229)  | 0.096 (CI = +/-0.049; p = 0.001)  | 0.958                   | +1.41%                     | +11.59%                      |
| Severity  | 2011.2     | -0.005 (CI = +/-0.040; p = 0.792) | -0.064 (CI = +/-0.057; p = 0.029) | 0.065 (CI = +/-0.122; p = 0.274)  | 0.118 (CI = +/-0.053; p = 0.000)  | 0.961                   | -0.50%                     | +11.92%                      |
| Severity  | 2012.1     | -0.006 (CI = +/-0.051; p = 0.807) | -0.065 (CI = +/-0.060; p = 0.037) | 0.065 (CI = +/-0.127; p = 0.293)  | 0.119 (CI = +/-0.065; p = 0.001)  | 0.959                   | -0.60%                     | +11.94%                      |
| Severity  | 2012.2     | -0.002 (CI = +/-0.070; p = 0.946) | -0.066 (CI = +/-0.064; p = 0.044) | 0.066 (CI = +/-0.132; p = 0.303)  | 0.115 (CI = +/-0.083; p = 0.010)  | 0.956                   | -0.22%                     | +11.90%                      |
| Severity  | 2013.1     | 0.073 (CI = +/-0.082; p = 0.078)  | -0.048 (CI = +/-0.055; p = 0.081) | 0.079 (CI = +/-0.111; p = 0.150)  | 0.035 (CI = +/-0.093; p = 0.434)  | 0.970                   | +7.56%                     | +11.38%                      |
| Severity  | 2013.2     | 0.091 (CI = +/-0.135; p = 0.171)  | -0.051 (CI = +/-0.059; p = 0.086) | 0.081 (CI = +/-0.116; p = 0.155)  | 0.016 (CI = +/-0.145; p = 0.811)  | 0.966                   | +9.49%                     | +11.30%                      |
| Severity  | 2014.1     | 0.301 (CI = +/-0.263; p = 0.028)  | -0.034 (CI = +/-0.057; p = 0.217) | 0.089 (CI = +/-0.106; p = 0.092)  | -0.197 (CI = +/-0.271; p = 0.138) | 0.971                   | +35.13%                    | +10.94%                      |
| Severity  | 2014.2     | 0.104 (CI = +/-0.018; p = 0.000)  | -0.034 (CI = +/-0.057; p = 0.217) | 0.089 (CI = +/-0.106; p = 0.092)  | NA (CI = +/-NA; p = NA)           | 0.965                   | +10.94%                    | +10.94%                      |
| Severity  | 2015.1     | 0.101 (CI = +/-0.021; p = 0.000)  | -0.039 (CI = +/-0.060; p = 0.182) | 0.100 (CI = +/-0.115; p = 0.080)  | NA (CI = +/-NA; p = NA)           | 0.960                   | +10.57%                    | +10.57%                      |
| Severity  | 2015.2     | 0.099 (CI = +/-0.026; p = 0.000)  | -0.038 (CI = +/-0.066; p = 0.234) | 0.103 (CI = +/-0.126; p = 0.098)  | NA (CI = +/-NA; p = NA)           | 0.950                   | +10.46%                    | +10.46%                      |
| Severity  | 2016.1     | 0.110 (CI = +/-0.028; p = 0.000)  | -0.024 (CI = +/-0.064; p = 0.412) | 0.072 (CI = +/-0.125; p = 0.227)  | NA (CI = +/-NA; p = NA)           | 0.957                   | +11.65%                    | +11.65%                      |
| Severity  | 2016.2     | 0.102 (CI = +/-0.033; p = 0.000)  | -0.016 (CI = +/-0.068; p = 0.599) | 0.091 (CI = +/-0.135; p = 0.159)  | NA (CI = +/-NA; p = NA)           | 0.948                   | +10.79%                    | +10.79%                      |
| Severity  | 2017.1     | 0.105 (CI = +/-0.044; p = 0.001)  | -0.014 (CI = +/-0.078; p = 0.691) | 0.084 (CI = +/-0.160; p = 0.255)  | NA (CI = +/-NA; p = NA)           | 0.936                   | +11.09%                    | +11.09%                      |
| Frequency | 2005.2     | -0.008 (CI = +/-0.016; p = 0.341) | -0.089 (CI = +/-0.077; p = 0.025) | -0.171 (CI = +/-0.199; p = 0.089) | -0.006 (CI = +/-0.040; p = 0.747) | 0.445                   | -0.77%                     | -1.39%                       |
| Frequency | 2006.1     | -0.006 (CI = +/-0.018; p = 0.528) | -0.084 (CI = +/-0.079; p = 0.037) | -0.168 (CI = +/-0.202; p = 0.099) | -0.010 (CI = +/-0.041; p = 0.636) | 0.417                   | -0.55%                     | -1.51%                       |
| Frequency | 2006.2     | -0.001 (CI = +/-0.019; p = 0.891) | -0.092 (CI = +/-0.080; p = 0.025) | -0.160 (CI = +/-0.201; p = 0.114) | -0.016 (CI = +/-0.043; p = 0.443) | 0.422                   | -0.13%                     | -1.74%                       |
| Frequency | 2007.1     | 0.004 (CI = +/-0.021; p = 0.700)  | -0.083 (CI = +/-0.080; p = 0.042) | -0.153 (CI = +/-0.199; p = 0.126) | -0.024 (CI = +/-0.044; p = 0.273) | 0.406                   | +0.39%                     | -1.98%                       |
| Frequency | 2007.2     | 0.011 (CI = +/-0.022; p = 0.331)  | -0.094 (CI = +/-0.079; p = 0.023) | -0.142 (CI = +/-0.195; p = 0.145) | -0.034 (CI = +/-0.045; p = 0.135) | 0.436                   | +1.07%                     | -2.28%                       |
| Frequency | 2008.1     | 0.017 (CI = +/-0.024; p = 0.158)  | -0.084 (CI = +/-0.080; p = 0.039) | -0.135 (CI = +/-0.193; p = 0.161) | -0.043 (CI = +/-0.047; p = 0.071) | 0.441                   | +1.72%                     | -2.53%                       |
| Frequency | 2008.2     | 0.025 (CI = +/-0.026; p = 0.066)  | -0.094 (CI = +/-0.080; p = 0.023) | -0.125 (CI = +/-0.191; p = 0.188) | -0.053 (CI = +/-0.049; p = 0.033) | 0.476                   | +2.49%                     | -2.81%                       |
| Frequency | 2009.1     | 0.028 (CI = +/-0.030; p = 0.065)  | -0.090 (CI = +/-0.083; p = 0.035) | -0.122 (CI = +/-0.195; p = 0.207) | -0.058 (CI = +/-0.053; p = 0.033) | 0.476                   | +2.85%                     | -2.92%                       |
| Frequency | 2009.2     | 0.032 (CI = +/-0.035; p = 0.071)  | -0.094 (CI = +/-0.086; p = 0.035) | -0.118 (CI = +/-0.199; p = 0.232) | -0.062 (CI = +/-0.058; p = 0.035) | 0.476                   | +3.22%                     | -3.03%                       |
| Frequency | 2010.1     | 0.036 (CI = +/-0.041; p = 0.077)  | -0.090 (CI = +/-0.090; p = 0.051) | -0.115 (CI = +/-0.204; p = 0.254) | -0.068 (CI = +/-0.064; p = 0.038) | 0.475                   | +3.69%                     | -3.14%                       |
| Frequency | 2010.2     | 0.035 (CI = +/-0.048; p = 0.142)  | -0.089 (CI = +/-0.095; p = 0.064) | -0.116 (CI = +/-0.211; p = 0.266) | -0.067 (CI = +/-0.072; p = 0.067) | 0.462                   | +3.60%                     | -3.12%                       |
| Frequency | 2011.1     | 0.041 (CI = +/-0.059; p = 0.162)  | -0.085 (CI = +/-0.100; p = 0.088) | -0.113 (CI = +/-0.218; p = 0.290) | -0.074 (CI = +/-0.083; p = 0.079) | 0.457                   | +4.17%                     | -3.22%                       |
| Frequency | 2011.2     | 0.059 (CI = +/-0.072; p = 0.103)  | -0.095 (CI = +/-0.103; p = 0.068) | -0.103 (CI = +/-0.221; p = 0.338) | -0.094 (CI = +/-0.096; p = 0.054) | 0.478                   | +6.04%                     | -3.49%                       |
| Frequency | 2012.1     | 0.053 (CI = +/-0.093; p = 0.241)  | -0.097 (CI = +/-0.109; p = 0.077) | -0.105 (CI = +/-0.229; p = 0.347) | -0.088 (CI = +/-0.117; p = 0.130) | 0.473                   | +5.49%                     | -3.43%                       |
| Frequency | 2012.2     | 0.052 (CI = +/-0.126; p = 0.394)  | -0.097 (CI = +/-0.116; p = 0.095) | -0.105 (CI = +/-0.239; p = 0.363) | -0.087 (CI = +/-0.151; p = 0.240) | 0.463                   | +5.33%                     | -3.42%                       |
| Frequency | 2013.1     | 0.035 (CI = +/-0.185; p = 0.693)  | -0.101 (CI = +/-0.124; p = 0.103) | -0.108 (CI = +/-0.249; p = 0.368) | -0.068 (CI = +/-0.209; p = 0.494) | 0.455                   | +3.53%                     | -3.31%                       |
| Frequency | 2013.2     | 0.048 (CI = +/-0.305; p = 0.739)  | -0.102 (CI = +/-0.133; p = 0.120) | -0.106 (CI = +/-0.262; p = 0.397) | -0.082 (CI = +/-0.328; p = 0.597) | 0.444                   | +4.93%                     | -3.36%                       |
| Frequency | 2014.1     | 0.092 (CI = +/-0.683; p = 0.775)  | -0.099 (CI = +/-0.147; p = 0.169) | -0.105 (CI = +/-0.276; p = 0.425) | -0.126 (CI = +/-0.703; p = 0.702) | 0.407                   | +5.95%                     | -3.43%                       |
| Frequency | 2014.2     | -0.035 (CI = +/-0.047; p = 0.129) | -0.099 (CI = +/-0.147; p = 0.169) | -0.105 (CI = +/-0.276; p = 0.425) | NA (CI = +/-NA; p = NA)           | 0.440                   | -3.43%                     | -3.43%                       |
| Frequency | 2015.1     | -0.041 (CI = +/-0.055; p = 0.134) | -0.108 (CI = +/-0.159; p = 0.163) | -0.085 (CI = +/-0.301; p = 0.546) | NA (CI = +/-NA; p = NA)           | 0.414                   | -3.98%                     | -3.98%                       |
| Frequency | 2015.2     | -0.047 (CI = +/-0.067; p = 0.146) | -0.099 (CI = +/-0.173; p = 0.231) | -0.067 (CI = +/-0.330; p = 0.659) | NA (CI = +/-NA; p = NA)           | 0.408                   | -4.60%                     | -4.60%                       |
| Frequency | 2016.1     | -0.059 (CI = +/-0.081; p = 0.133) | -0.114 (CI = +/-0.188; p = 0.203) | -0.031 (CI = +/-0.366; p = 0.851) | NA (CI = +/-NA; p = NA)           | 0.391                   | -5.76%                     | -5.76%                       |
| Frequency | 2016.2     | -0.081 (CI = +/-0.098; p = 0.094) | -0.091 (CI = +/-0.201; p = 0.326) | 0.022 (CI = +/-0.397; p = 0.902)  | NA (CI = +/-NA; p = NA)           | 0.435                   | -7.76%                     | -7.76%                       |
| Frequency | 2017.1     | -0.105 (CI = +/-0.125; p = 0.088) | -0.113 (CI = +/-0.220; p = 0.263) | 0.083 (CI = +/-0.453; p = 0.678)  | NA (CI = +/-NA; p = NA)           | 0.421                   | -9.95%                     | -9.95%                       |

**Accident Benefits Total**

Coverage = AB Total

End Trend Period = 2021.2

Excluded Points = NA

Parameters Included: time, scalar\_level\_change, trend\_level\_change, seasonality

Scalar Level Change Start Date = 2020-11-01

Future Trend Start Date = 2015-01-01

| Fit       | Start Date | Time                              | Seasonality                       | Scalar Shift                      | Trend Shift                       | Adjusted R^2 | Implied Past<br>Trend Rate | Implied Future<br>Trend Rate |
|-----------|------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|--------------|----------------------------|------------------------------|
| Loss Cost | 2005.2     | 0.023 (CI = +/-0.014; p = 0.002)  | -0.190 (CI = +/-0.067; p = 0.000) | -0.090 (CI = +/-0.186; p = 0.332) | 0.063 (CI = +/-0.034; p = 0.001)  | 0.879        | +2.32%                     | +9.01%                       |
| Loss Cost | 2006.1     | 0.027 (CI = +/-0.015; p = 0.001)  | -0.181 (CI = +/-0.066; p = 0.000) | -0.082 (CI = +/-0.181; p = 0.362) | 0.056 (CI = +/-0.034; p = 0.002)  | 0.889        | +2.77%                     | +8.74%                       |
| Loss Cost | 2006.2     | 0.027 (CI = +/-0.016; p = 0.002)  | -0.180 (CI = +/-0.069; p = 0.000) | -0.082 (CI = +/-0.185; p = 0.368) | 0.057 (CI = +/-0.036; p = 0.003)  | 0.880        | +2.72%                     | +8.77%                       |
| Loss Cost | 2007.1     | 0.027 (CI = +/-0.018; p = 0.006)  | -0.180 (CI = +/-0.071; p = 0.000) | -0.083 (CI = +/-0.189; p = 0.377) | 0.057 (CI = +/-0.039; p = 0.005)  | 0.877        | +2.71%                     | +8.78%                       |
| Loss Cost | 2007.2     | 0.027 (CI = +/-0.020; p = 0.012)  | -0.180 (CI = +/-0.074; p = 0.000) | -0.083 (CI = +/-0.194; p = 0.388) | 0.057 (CI = +/-0.041; p = 0.009)  | 0.867        | +2.71%                     | +8.78%                       |
| Loss Cost | 2008.1     | 0.029 (CI = +/-0.023; p = 0.015)  | -0.176 (CI = +/-0.077; p = 0.000) | -0.079 (CI = +/-0.198; p = 0.414) | 0.054 (CI = +/-0.044; p = 0.019)  | 0.867        | +2.96%                     | +8.67%                       |
| Loss Cost | 2008.2     | 0.029 (CI = +/-0.026; p = 0.030)  | -0.176 (CI = +/-0.080; p = 0.000) | -0.080 (CI = +/-0.203; p = 0.425) | 0.054 (CI = +/-0.048; p = 0.029)  | 0.854        | +2.95%                     | +8.67%                       |
| Loss Cost | 2009.1     | 0.034 (CI = +/-0.029; p = 0.025)  | -0.170 (CI = +/-0.083; p = 0.000) | -0.074 (CI = +/-0.206; p = 0.461) | 0.047 (CI = +/-0.052; p = 0.070)  | 0.856        | +3.48%                     | +8.49%                       |
| Loss Cost | 2009.2     | 0.040 (CI = +/-0.034; p = 0.023)  | -0.176 (CI = +/-0.086; p = 0.000) | -0.070 (CI = +/-0.209; p = 0.495) | 0.040 (CI = +/-0.056; p = 0.152)  | 0.850        | +4.05%                     | +8.31%                       |
| Loss Cost | 2010.1     | 0.046 (CI = +/-0.039; p = 0.025)  | -0.170 (CI = +/-0.089; p = 0.001) | -0.065 (CI = +/-0.213; p = 0.533) | 0.033 (CI = +/-0.062; p = 0.283)  | 0.849        | +4.67%                     | +8.15%                       |
| Loss Cost | 2010.2     | 0.046 (CI = +/-0.047; p = 0.053)  | -0.171 (CI = +/-0.094; p = 0.001) | -0.064 (CI = +/-0.221; p = 0.547) | 0.032 (CI = +/-0.070; p = 0.354)  | 0.829        | +4.74%                     | +8.13%                       |
| Loss Cost | 2011.1     | 0.055 (CI = +/-0.057; p = 0.056)  | -0.165 (CI = +/-0.098; p = 0.002) | -0.059 (CI = +/-0.226; p = 0.589) | 0.021 (CI = +/-0.080; p = 0.584)  | 0.827        | +5.68%                     | +7.95%                       |
| Loss Cost | 2011.2     | 0.055 (CI = +/-0.071; p = 0.124)  | -0.165 (CI = +/-0.104; p = 0.004) | -0.059 (CI = +/-0.235; p = 0.599) | 0.022 (CI = +/-0.095; p = 0.632)  | 0.799        | +5.61%                     | +7.96%                       |
| Loss Cost | 2012.1     | 0.048 (CI = +/-0.092; p = 0.287)  | -0.168 (CI = +/-0.111; p = 0.006) | -0.062 (CI = +/-0.244; p = 0.597) | 0.029 (CI = +/-0.117; p = 0.598)  | 0.784        | +4.91%                     | +8.05%                       |
| Loss Cost | 2012.2     | 0.051 (CI = +/-0.126; p = 0.396)  | -0.169 (CI = +/-0.118; p = 0.008) | -0.061 (CI = +/-0.255; p = 0.616) | 0.026 (CI = +/-0.151; p = 0.720)  | 0.750        | +5.27%                     | +8.01%                       |
| Loss Cost | 2013.1     | 0.108 (CI = +/-0.179; p = 0.215)  | -0.155 (CI = +/-0.123; p = 0.017) | -0.050 (CI = +/-0.259; p = 0.684) | -0.034 (CI = +/-0.202; p = 0.719) | 0.758        | +11.41%                    | +7.64%                       |
| Loss Cost | 2013.2     | 0.143 (CI = +/-0.296; p = 0.315)  | -0.160 (CI = +/-0.132; p = 0.022) | -0.046 (CI = +/-0.271; p = 0.717) | -0.070 (CI = +/-0.319; p = 0.640) | 0.704        | +15.33%                    | +7.50%                       |
| Loss Cost | 2014.1     | 0.389 (CI = +/-0.640; p = 0.208)  | -0.139 (CI = +/-0.142; p = 0.054) | -0.034 (CI = +/-0.277; p = 0.792) | -0.321 (CI = +/-0.659; p = 0.307) | 0.701        | +47.57%                    | +7.10%                       |
| Loss Cost | 2014.2     | 0.143 (CI = +/-0.044; p = 0.005)  | -0.139 (CI = +/-0.142; p = 0.054) | -0.034 (CI = +/-0.277; p = 0.792) | NA (CI = +/-NA; p = NA)           | 0.598        | +7.10%                     | +7.10%                       |
| Loss Cost | 2015.1     | 0.059 (CI = +/-0.051; p = 0.028)  | -0.156 (CI = +/-0.151; p = 0.044) | -0.006 (CI = +/-0.291; p = 0.965) | NA (CI = +/-NA; p = NA)           | 0.560        | +6.05%                     | +6.05%                       |
| Loss Cost | 2015.2     | 0.051 (CI = +/-0.061; p = 0.090)  | -0.145 (CI = +/-0.164; p = 0.076) | 0.015 (CI = +/-0.318; p = 0.916)  | NA (CI = +/-NA; p = NA)           | 0.422        | +5.27%                     | +5.27%                       |
| Loss Cost | 2016.1     | 0.049 (CI = +/-0.078; p = 0.187)  | -0.149 (CI = +/-0.186; p = 0.101) | 0.022 (CI = +/-0.359; p = 0.891)  | NA (CI = +/-NA; p = NA)           | 0.384        | +4.99%                     | +4.99%                       |
| Loss Cost | 2016.2     | 0.019 (CI = +/-0.087; p = 0.615)  | -0.118 (CI = +/-0.183; p = 0.172) | 0.094 (CI = +/-0.360; p = 0.555)  | NA (CI = +/-NA; p = NA)           | 0.168        | +1.96%                     | +1.96%                       |
| Loss Cost | 2017.1     | -0.006 (CI = +/-0.112; p = 0.895) | -0.145 (CI = +/-0.203; p = 0.130) | 0.150 (CI = +/-0.400; p = 0.394)  | NA (CI = +/-NA; p = NA)           | 0.194        | -0.63%                     | -0.63%                       |
| Severity  | 2005.2     | 0.030 (CI = +/-0.012; p = 0.000)  | -0.098 (CI = +/-0.058; p = 0.002) | 0.101 (CI = +/-0.160; p = 0.208)  | 0.070 (CI = +/-0.030; p = 0.000)  | 0.938        | +3.09%                     | +10.58%                      |
| Severity  | 2006.1     | 0.033 (CI = +/-0.013; p = 0.000)  | -0.094 (CI = +/-0.059; p = 0.003) | 0.105 (CI = +/-0.161; p = 0.192)  | 0.067 (CI = +/-0.031; p = 0.000)  | 0.939        | +3.33%                     | +10.44%                      |
| Severity  | 2006.2     | 0.028 (CI = +/-0.014; p = 0.000)  | -0.084 (CI = +/-0.057; p = 0.006) | 0.098 (CI = +/-0.154; p = 0.205)  | 0.074 (CI = +/-0.030; p = 0.000)  | 0.941        | +2.83%                     | +10.73%                      |
| Severity  | 2007.1     | 0.023 (CI = +/-0.014; p = 0.003)  | -0.094 (CI = +/-0.056; p = 0.002) | 0.090 (CI = +/-0.147; p = 0.221)  | 0.082 (CI = +/-0.030; p = 0.000)  | 0.945        | +2.29%                     | +11.01%                      |
| Severity  | 2007.2     | 0.016 (CI = +/-0.014; p = 0.031)  | -0.082 (CI = +/-0.052; p = 0.003) | 0.081 (CI = +/-0.135; p = 0.228)  | 0.092 (CI = +/-0.029; p = 0.000)  | 0.951        | +1.60%                     | +11.36%                      |
| Severity  | 2008.1     | 0.012 (CI = +/-0.016; p = 0.125)  | -0.088 (CI = +/-0.052; p = 0.002) | 0.076 (CI = +/-0.134; p = 0.253)  | 0.097 (CI = +/-0.030; p = 0.000)  | 0.952        | +1.20%                     | +11.53%                      |
| Severity  | 2008.2     | 0.004 (CI = +/-0.016; p = 0.591)  | -0.078 (CI = +/-0.049; p = 0.003) | 0.068 (CI = +/-0.123; p = 0.265)  | 0.108 (CI = +/-0.029; p = 0.000)  | 0.958        | +0.42%                     | +11.86%                      |
| Severity  | 2009.1     | 0.006 (CI = +/-0.018; p = 0.507)  | -0.076 (CI = +/-0.051; p = 0.005) | 0.070 (CI = +/-0.126; p = 0.263)  | 0.106 (CI = +/-0.032; p = 0.000)  | 0.957        | +0.59%                     | +11.80%                      |
| Severity  | 2009.2     | 0.008 (CI = +/-0.021; p = 0.460)  | -0.077 (CI = +/-0.053; p = 0.006) | 0.071 (CI = +/-0.130; p = 0.265)  | 0.103 (CI = +/-0.035; p = 0.000)  | 0.956        | +0.76%                     | +11.74%                      |
| Severity  | 2010.1     | 0.009 (CI = +/-0.025; p = 0.447)  | -0.076 (CI = +/-0.056; p = 0.010) | 0.072 (CI = +/-0.133; p = 0.270)  | 0.102 (CI = +/-0.039; p = 0.000)  | 0.954        | +0.92%                     | +11.70%                      |
| Severity  | 2010.2     | 0.010 (CI = +/-0.029; p = 0.473)  | -0.077 (CI = +/-0.059; p = 0.013) | 0.073 (CI = +/-0.138; p = 0.279)  | 0.100 (CI = +/-0.044; p = 0.000)  | 0.952        | +1.03%                     | +11.67%                      |
| Severity  | 2011.1     | 0.014 (CI = +/-0.036; p = 0.420)  | -0.074 (CI = +/-0.062; p = 0.021) | 0.075 (CI = +/-0.142; p = 0.279)  | 0.096 (CI = +/-0.051; p = 0.001)  | 0.950        | +1.41%                     | +11.59%                      |
| Severity  | 2011.2     | -0.005 (CI = +/-0.041; p = 0.795) | -0.064 (CI = +/-0.060; p = 0.039) | 0.067 (CI = +/-0.135; p = 0.309)  | 0.118 (CI = +/-0.055; p = 0.000)  | 0.953        | -0.51%                     | +11.93%                      |
| Severity  | 2012.1     | 0.006 (CI = +/-0.053; p = 0.812)  | -0.064 (CI = +/-0.064; p = 0.049) | 0.067 (CI = +/-0.141; p = 0.330)  | 0.119 (CI = +/-0.067; p = 0.002)  | 0.951        | -0.60%                     | +11.94%                      |
| Severity  | 2012.2     | -0.002 (CI = +/-0.073; p = 0.945) | -0.065 (CI = +/-0.068; p = 0.059) | 0.068 (CI = +/-0.147; p = 0.341)  | 0.115 (CI = +/-0.087; p = 0.013)  | 0.947        | -0.24%                     | +11.90%                      |
| Severity  | 2013.1     | 0.073 (CI = +/-0.086; p = 0.090)  | -0.047 (CI = +/-0.059; p = 0.107) | 0.082 (CI = +/-0.124; p = 0.174)  | 0.035 (CI = +/-0.097; p = 0.449)  | 0.964        | +7.55%                     | +11.39%                      |
| Severity  | 2013.2     | 0.090 (CI = +/-0.142; p = 0.192)  | -0.050 (CI = +/-0.063; p = 0.114) | 0.084 (CI = +/-0.130; p = 0.183)  | 0.017 (CI = +/-0.153; p = 0.812)  | 0.959        | +9.43%                     | +11.31%                      |
| Severity  | 2014.1     | 0.302 (CI = +/-0.277; p = 0.035)  | -0.032 (CI = +/-0.061; p = 0.275) | 0.095 (CI = +/-0.120; p = 0.108)  | -0.198 (CI = +/-0.285; p = 0.154) | 0.965        | +35.28%                    | +10.96%                      |
| Severity  | 2014.2     | 0.104 (CI = +/-0.019; p = 0.000)  | -0.032 (CI = +/-0.061; p = 0.275) | 0.095 (CI = +/-0.120; p = 0.108)  | NA (CI = +/-NA; p = NA)           | 0.958        | +10.96%                    | +10.96%                      |
| Severity  | 2015.1     | 0.101 (CI = +/-0.022; p = 0.000)  | -0.037 (CI = +/-0.066; p = 0.235) | 0.104 (CI = +/-0.128; p = 0.100)  | NA (CI = +/-NA; p = NA)           | 0.950        | +10.59%                    | +10.59%                      |
| Severity  | 2015.2     | 0.100 (CI = +/-0.027; p = 0.000)  | -0.036 (CI = +/-0.073; p = 0.293) | 0.107 (CI = +/-0.142; p = 0.121)  | NA (CI = +/-NA; p = NA)           | 0.937        | +10.48%                    | +10.48%                      |
| Severity  | 2016.1     | 0.111 (CI = +/-0.030; p = 0.000)  | -0.021 (CI = +/-0.071; p = 0.527) | 0.079 (CI = +/-0.138; p = 0.226)  | NA (CI = +/-NA; p = NA)           | 0.947        | +11.74%                    | +11.74%                      |
| Severity  | 2016.2     | 0.103 (CI = +/-0.036; p = 0.000)  | -0.012 (CI = +/-0.076; p = 0.715) | 0.098 (CI = +/-0.150; p = 0.168)  | NA (CI = +/-NA; p = NA)           | 0.934        | +10.88%                    | +10.88%                      |
| Severity  | 2017.1     | 0.107 (CI = +/-0.050; p = 0.002)  | -0.008 (CI = +/-0.090; p = 0.833) | 0.089 (CI = +/-0.178; p = 0.266)  | NA (CI = +/-NA; p = NA)           | 0.918        | +11.32%                    | +11.32%                      |
| Frequency | 2005.2     | -0.008 (CI = +/-0.017; p = 0.358) | -0.091 (CI = +/-0.079; p = 0.025) | -0.190 (CI = +/-0.219; p = 0.085) | -0.007 (CI = +/-0.040; p = 0.735) | 0.388        | -0.75%                     | -1.42%                       |
| Frequency | 2006.1     | -0.005 (CI = +/-0.018; p = 0.543) | -0.087 (CI = +/-0.081; p = 0.037) | -0.187 (CI = +/-0.222; p = 0.096) | -0.010 (CI = +/-0.042; p = 0.629) | 0.356        | -0.54%                     | -1.54%                       |
| Frequency | 2006.2     | -0.001 (CI = +/-0.020; p = 0.909) | -0.095 (CI = +/-0.082; p = 0.024) | -0.180 (CI = +/-0.221; p = 0.105) | -0.017 (CI = +/-0.043; p = 0.436) | 0.362        | -0.11%                     | -1.77%                       |
| Frequency | 2007.1     | 0.004 (CI = +/-0.021; p = 0.694)  | -0.086 (CI = +/-0.083; p = 0.041) | -0.172 (CI = +/-0.219; p = 0.118) | -0.024 (CI = +/-0.045; p = 0.273) | 0.342        | +0.41%                     | -2.01%                       |
| Frequency | 2007.2     | 0.011 (CI = +/-0.023; p = 0.327)  | -0.098 (CI = +/-0.082; p = 0.022) | -0.164 (CI = +/-0.214; p = 0.128) | -0.034 (CI = +/-0.046; p = 0.134) | 0.378        | +1.10%                     | -2.32%                       |
| Frequency | 2008.1     | 0.017 (CI = +/-0.025; p = 0.160)  | -0.088 (CI = +/-0.083; p = 0.038) | -0.156 (CI = +/-0.212; p = 0.143) | -0.043 (CI = +/-0.047; p = 0.073) | 0.382        | +1.74%                     | -2.56%                       |
| Frequency | 2008.2     | 0.025 (CI = +/-0.027; p = 0.067)  | -0.099 (CI = +/-0.083; p = 0.022) | -0.148 (CI = +/-0.209; p = 0.158) | -0.054 (CI = +/-0.049; p = 0.034) | 0.423        | +2.53%                     | -2.85%                       |
| Frequency | 2009.1     | 0.028 (CI = +/-0.031; p = 0.067)  | -0.094 (CI = +/-0.086; p = 0.033) | -0.144 (CI = +/-0.214; p = 0.176) | -0.058 (CI = +/-0.054; p = 0.034) | 0.424        | +2.88%                     | -2.96%                       |
| Frequency | 2009.2     | 0.032 (CI = +/-0.035; p = 0.072)  | -0.099 (CI = +/-0.090; p = 0.033) | -0.141 (CI = +/-0.219; p = 0.195) | -0.063 (CI = +/-0.059; p = 0.036) | 0.422        | +3.27%                     | -3.07%                       |
| Frequency | 2010.1     | 0.037 (CI = +/-0.041; p = 0.080)  | -0.094 (CI = +/-0.094; p = 0.049) | -0.137 (CI = +/-0.225; p = 0.217) | -0.069 (CI = +/-0.065; p = 0.040) | 0.421        | +3.72%                     | -3.18%                       |
| Frequency | 2010.2     | 0.036 (CI = +/-0.050; p = 0.144)  | -0.094 (CI = +/-0.099; p = 0.061) | -0.138 (CI = +/-0.232; p = 0.229) | -0.068 (CI = +/-0.074; p = 0.069) | 0.404        | +3.67%                     | -3.17%                       |
| Frequency | 2011.1     | 0.041 (CI = +/-0.060; p = 0.168)  | -0.091 (CI = +/-0.104; p = 0.084) | -0.134 (CI = +/-0.240; p = 0.253) | -0.074 (CI = +/-0.085; p = 0.083) | 0.398        | +4.21%                     | -3.26%                       |
| Frequency | 2011.2     | 0.060 (CI = +/-0.074; p = 0.105)  | -0.101 (CI = +/-0.107; p = 0.064) | -0.126 (CI = +/-0.243; p = 0.286) | -0.096 (CI = +/-0.099; p = 0.056) | 0.423        | +6.16%                     | -3.54%                       |
| Frequency | 2012.1     | 0.054 (CI = +/-0.096; p = 0.247)  | -0.103 (CI = +/-0.114; p = 0.073) | -0.129 (CI = +/-0.253; p = 0.295) | -0.089 (CI = +/-0.121; p = 0.136) | 0.417        | +5.55%                     | -3.48%                       |
| Frequency | 2012.2     | 0.054 (CI = +/-0.130; p = 0.391)  | -0.103 (CI = +/-0.122; p = 0.091) | -0.129 (CI = +/-0.264; p = 0.313) | -0.089 (CI = +/-0.156; p = 0.240) | 0.403        | +5.52%                     | -3.48%                       |
| Frequency | 2013.1     | 0.035 (CI = +/-0.191; p = 0.696)  | -0.108 (CI = +/-0.131; p = 0.100) | -0.132 (CI = +/-0.276; p = 0.320) | -0.070 (CI = +/-0.216; p = 0.499) | 0.394        | +3.59%                     | -3.37%                       |
| Frequency | 2013.2     | 0.053 (CI = +/-0.317; p = 0.725)  | -0.110 (CI = +/-0.141; p = 0.116) | -0.131 (CI = +/-0.291; p = 0.347) | -0.087 (CI = +/-0.342; p = 0.587) | 0.383        | +5.39%                     | -3.43%                       |
| Frequency | 2014.1     | 0.087 (CI = +/-0.714; p = 0.793)  | -0.107 (CI = +/-0.158; p = 0.164) | -0.129 (CI = +/-0.308; p = 0.378) | -0.122 (CI = +/-0.734; p = 0.721) | 0.341        | +9.09%                     | -3.48%                       |
| Frequency | 2014.2     | -0.035 (CI = +/-0.049; p = 0.138) | -0.107 (CI = +/-0.158; p = 0.164) | -0.129 (CI = +/-0.308; p = 0.378) | NA (CI = +/-NA; p = NA)           | 0.382        | -3.48%                     | -3.48%                       |
| Frequency | 2015.1     | -0.042 (CI = +/-0.058; p = 0.139) | -0.118 (CI = +/-0.172; p = 0.157) | -0.110 (CI = +/-0.333; p = 0.478) | NA (CI = +/-NA; p = NA)           | 0.358        | -4.11%                     | -4.11%                       |
| Frequency | 2015.2     | -0.048 (CI = +/-0.071; p = 0.156) | -0.109 (CI = +/-0.189; p = 0.222) | -0.092 (CI = +/-0.366; p = 0.584) | NA (CI = +/-NA; p = NA)           | 0.350        | -4.71%                     | -4.71%                       |
| Frequency | 2016.1     | -0.062 (CI = +/-0.087; p = 0.137) | -0.129 (CI = +/-0.208; p = 0.191) | -0.057 (CI = +/-0.401; p = 0.753) | NA (CI = +/-NA; p = NA)           | 0.341        | -6.04%                     | -6.04%                       |
| Frequency | 2016.2     | -0.084 (CI = +/-0.106; p = 0.104) | -0.106 (CI = +/-0.223; p = 0.300) | -0.003 (CI = +/-0.438; p = 0.986) | NA (CI = +/-NA; p = NA)           | 0.388        | -8.04%                     | -8.04%                       |
| Frequency | 2017.1     | -0.113 (CI = +/-0.137; p = 0.089) | -0.137 (CI = +/-0.249; p = 0.226) | 0.061 (CI = +/-0.491; p = 0.770)  | NA (CI = +/-NA; p = NA)           | 0.396        | -10.73%                    | -10.73%                      |

**Accident Benefits Total**

Coverage = AB Total

End Trend Period = 2019.2

Excluded Points = NA

Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R <sup>2</sup> | Implied Trend |
|-----------|------------|-----------------------------------|-----------------------------------|-------------------------|---------------|
|           |            |                                   |                                   |                         | Rate          |
| Loss Cost | 2005.2     | 0.047 (CI = +/-0.010; p = 0.000)  | -0.185 (CI = +/-0.088; p = 0.000) | 0.782                   | +4.76%        |
| Loss Cost | 2006.1     | 0.050 (CI = +/-0.010; p = 0.000)  | -0.166 (CI = +/-0.082; p = 0.000) | 0.822                   | +5.16%        |
| Loss Cost | 2006.2     | 0.052 (CI = +/-0.011; p = 0.000)  | -0.172 (CI = +/-0.085; p = 0.000) | 0.810                   | +5.29%        |
| Loss Cost | 2007.1     | 0.053 (CI = +/-0.012; p = 0.000)  | -0.164 (CI = +/-0.087; p = 0.001) | 0.813                   | +5.47%        |
| Loss Cost | 2007.2     | 0.055 (CI = +/-0.012; p = 0.000)  | -0.171 (CI = +/-0.089; p = 0.001) | 0.804                   | +5.65%        |
| Loss Cost | 2008.1     | 0.058 (CI = +/-0.013; p = 0.000)  | -0.157 (CI = +/-0.089; p = 0.001) | 0.821                   | +5.99%        |
| Loss Cost | 2008.2     | 0.060 (CI = +/-0.014; p = 0.000)  | -0.165 (CI = +/-0.092; p = 0.001) | 0.811                   | +6.20%        |
| Loss Cost | 2009.1     | 0.065 (CI = +/-0.014; p = 0.000)  | -0.147 (CI = +/-0.089; p = 0.003) | 0.840                   | +6.68%        |
| Loss Cost | 2009.2     | 0.069 (CI = +/-0.014; p = 0.000)  | -0.161 (CI = +/-0.087; p = 0.001) | 0.850                   | +7.10%        |
| Loss Cost | 2010.1     | 0.073 (CI = +/-0.015; p = 0.000)  | -0.145 (CI = +/-0.085; p = 0.002) | 0.870                   | +7.60%        |
| Loss Cost | 2010.2     | 0.075 (CI = +/-0.016; p = 0.000)  | -0.152 (CI = +/-0.089; p = 0.002) | 0.858                   | +7.84%        |
| Loss Cost | 2011.1     | 0.081 (CI = +/-0.017; p = 0.000)  | -0.134 (CI = +/-0.086; p = 0.005) | 0.879                   | +8.43%        |
| Loss Cost | 2011.2     | 0.083 (CI = +/-0.019; p = 0.000)  | -0.140 (CI = +/-0.091; p = 0.006) | 0.861                   | +8.63%        |
| Loss Cost | 2012.1     | 0.085 (CI = +/-0.021; p = 0.000)  | -0.132 (CI = +/-0.097; p = 0.012) | 0.856                   | +8.91%        |
| Loss Cost | 2012.2     | 0.089 (CI = +/-0.024; p = 0.000)  | -0.141 (CI = +/-0.103; p = 0.011) | 0.840                   | +9.29%        |
| Loss Cost | 2013.1     | 0.100 (CI = +/-0.023; p = 0.000)  | -0.114 (CI = +/-0.092; p = 0.020) | 0.890                   | +10.47%       |
| Loss Cost | 2013.2     | 0.101 (CI = +/-0.027; p = 0.000)  | -0.117 (CI = +/-0.101; p = 0.027) | 0.862                   | +10.65%       |
| Loss Cost | 2014.1     | 0.108 (CI = +/-0.031; p = 0.000)  | -0.102 (CI = +/-0.107; p = 0.059) | 0.867                   | +11.43%       |
| Loss Cost | 2014.2     | 0.099 (CI = +/-0.034; p = 0.000)  | -0.086 (CI = +/-0.109; p = 0.107) | 0.821                   | +10.45%       |
| Loss Cost | 2015.1     | 0.097 (CI = +/-0.044; p = 0.001)  | -0.090 (CI = +/-0.126; p = 0.135) | 0.781                   | +10.18%       |
| Loss Cost | 2015.2     | 0.092 (CI = +/-0.056; p = 0.007)  | -0.082 (CI = +/-0.145; p = 0.214) | 0.668                   | +9.59%        |
| Loss Cost | 2016.1     | 0.108 (CI = +/-0.072; p = 0.012)  | -0.058 (CI = +/-0.165; p = 0.404) | 0.696                   | +11.35%       |
| Loss Cost | 2016.2     | 0.073 (CI = +/-0.054; p = 0.021)  | -0.018 (CI = +/-0.110; p = 0.677) | 0.667                   | +7.54%        |
| Loss Cost | 2017.1     | 0.074 (CI = +/-0.095; p = 0.090)  | -0.017 (CI = +/-0.162; p = 0.767) | 0.514                   | +7.65%        |
|           |            |                                   |                                   |                         |               |
| Severity  | 2005.2     | 0.050 (CI = +/-0.009; p = 0.000)  | -0.114 (CI = +/-0.076; p = 0.005) | 0.828                   | +5.11%        |
| Severity  | 2006.1     | 0.052 (CI = +/-0.009; p = 0.000)  | -0.104 (CI = +/-0.076; p = 0.009) | 0.840                   | +5.34%        |
| Severity  | 2006.2     | 0.051 (CI = +/-0.010; p = 0.000)  | -0.099 (CI = +/-0.078; p = 0.015) | 0.817                   | +5.24%        |
| Severity  | 2007.1     | 0.050 (CI = +/-0.011; p = 0.000)  | -0.104 (CI = +/-0.081; p = 0.014) | 0.801                   | +5.13%        |
| Severity  | 2007.2     | 0.049 (CI = +/-0.012; p = 0.000)  | -0.100 (CI = +/-0.084; p = 0.022) | 0.771                   | +5.03%        |
| Severity  | 2008.1     | 0.050 (CI = +/-0.013; p = 0.000)  | -0.098 (CI = +/-0.088; p = 0.031) | 0.758                   | +5.08%        |
| Severity  | 2008.2     | 0.049 (CI = +/-0.014; p = 0.000)  | -0.097 (CI = +/-0.092; p = 0.041) | 0.724                   | +5.06%        |
| Severity  | 2009.1     | 0.053 (CI = +/-0.015; p = 0.000)  | -0.082 (CI = +/-0.092; p = 0.076) | 0.749                   | +5.45%        |
| Severity  | 2009.2     | 0.057 (CI = +/-0.015; p = 0.000)  | -0.097 (CI = +/-0.091; p = 0.038) | 0.771                   | +5.88%        |
| Severity  | 2010.1     | 0.061 (CI = +/-0.016; p = 0.000)  | -0.082 (CI = +/-0.091; p = 0.073) | 0.791                   | +6.31%        |
| Severity  | 2010.2     | 0.066 (CI = +/-0.016; p = 0.000)  | -0.096 (CI = +/-0.090; p = 0.038) | 0.806                   | +6.77%        |
| Severity  | 2011.1     | 0.071 (CI = +/-0.017; p = 0.000)  | -0.080 (CI = +/-0.089; p = 0.075) | 0.828                   | +7.31%        |
| Severity  | 2011.2     | 0.071 (CI = +/-0.019; p = 0.000)  | -0.082 (CI = +/-0.095; p = 0.086) | 0.798                   | +7.38%        |
| Severity  | 2012.1     | 0.077 (CI = +/-0.021; p = 0.000)  | -0.066 (CI = +/-0.096; p = 0.162) | 0.818                   | +8.00%        |
| Severity  | 2012.2     | 0.084 (CI = +/-0.021; p = 0.000)  | -0.083 (CI = +/-0.093; p = 0.075) | 0.842                   | +8.75%        |
| Severity  | 2013.1     | 0.097 (CI = +/-0.016; p = 0.000)  | -0.050 (CI = +/-0.063; p = 0.112) | 0.938                   | +10.21%       |
| Severity  | 2013.2     | 0.099 (CI = +/-0.018; p = 0.000)  | -0.054 (CI = +/-0.068; p = 0.105) | 0.926                   | +10.46%       |
| Severity  | 2014.1     | 0.103 (CI = +/-0.021; p = 0.000)  | -0.046 (CI = +/-0.074; p = 0.189) | 0.920                   | +10.88%       |
| Severity  | 2014.2     | 0.095 (CI = +/-0.021; p = 0.000)  | -0.031 (CI = +/-0.067; p = 0.326) | 0.913                   | +9.93%        |
| Severity  | 2015.1     | 0.088 (CI = +/-0.025; p = 0.000)  | -0.043 (CI = +/-0.071; p = 0.197) | 0.896                   | +9.20%        |
| Severity  | 2015.2     | 0.084 (CI = +/-0.031; p = 0.001)  | -0.037 (CI = +/-0.080; p = 0.306) | 0.845                   | +8.75%        |
| Severity  | 2016.1     | 0.096 (CI = +/-0.036; p = 0.001)  | -0.019 (CI = +/-0.084; p = 0.587) | 0.872                   | +10.04%       |
| Severity  | 2016.2     | 0.079 (CI = +/-0.032; p = 0.002)  | 0.000 (CI = +/-0.065; p = 0.990)  | 0.882                   | +8.25%        |
| Severity  | 2017.1     | 0.077 (CI = +/-0.056; p = 0.022)  | -0.003 (CI = +/-0.095; p = 0.937) | 0.793                   | +7.98%        |
|           |            |                                   |                                   |                         |               |
| Frequency | 2005.2     | -0.003 (CI = +/-0.007; p = 0.319) | -0.071 (CI = +/-0.056; p = 0.015) | 0.173                   | -0.33%        |
| Frequency | 2006.1     | -0.002 (CI = +/-0.007; p = 0.615) | -0.063 (CI = +/-0.055; p = 0.028) | 0.117                   | -0.17%        |
| Frequency | 2006.2     | 0.000 (CI = +/-0.007; p = 0.900)  | -0.072 (CI = +/-0.053; p = 0.010) | 0.184                   | +0.04%        |
| Frequency | 2007.1     | 0.003 (CI = +/-0.006; p = 0.315)  | -0.060 (CI = +/-0.049; p = 0.018) | 0.191                   | +0.32%        |
| Frequency | 2007.2     | 0.006 (CI = +/-0.006; p = 0.055)  | -0.071 (CI = +/-0.044; p = 0.003) | 0.361                   | +0.59%        |
| Frequency | 2008.1     | 0.009 (CI = +/-0.006; p = 0.004)  | -0.060 (CI = +/-0.038; p = 0.004) | 0.471                   | +0.87%        |
| Frequency | 2008.2     | 0.011 (CI = +/-0.005; p = 0.000)  | -0.068 (CI = +/-0.035; p = 0.001) | 0.595                   | +1.08%        |
| Frequency | 2009.1     | 0.012 (CI = +/-0.006; p = 0.000)  | -0.065 (CI = +/-0.036; p = 0.001) | 0.608                   | +1.17%        |
| Frequency | 2009.2     | 0.011 (CI = +/-0.006; p = 0.001)  | -0.064 (CI = +/-0.038; p = 0.002) | 0.555                   | +1.16%        |
| Frequency | 2010.1     | 0.012 (CI = +/-0.007; p = 0.002)  | -0.062 (CI = +/-0.040; p = 0.005) | 0.558                   | +1.22%        |
| Frequency | 2010.2     | 0.010 (CI = +/-0.007; p = 0.010)  | -0.055 (CI = +/-0.039; p = 0.009) | 0.462                   | +1.00%        |
| Frequency | 2011.1     | 0.010 (CI = +/-0.008; p = 0.016)  | -0.054 (CI = +/-0.042; p = 0.015) | 0.460                   | +1.04%        |
| Frequency | 2011.2     | 0.012 (CI = +/-0.009; p = 0.016)  | -0.057 (CI = +/-0.044; p = 0.015) | 0.454                   | +1.16%        |
| Frequency | 2012.1     | 0.008 (CI = +/-0.009; p = 0.075)  | -0.066 (CI = +/-0.043; p = 0.006) | 0.489                   | +0.84%        |
| Frequency | 2012.2     | 0.005 (CI = +/-0.009; p = 0.272)  | -0.058 (CI = +/-0.041; p = 0.009) | 0.389                   | +0.50%        |
| Frequency | 2013.1     | 0.002 (CI = +/-0.010; p = 0.623)  | -0.064 (CI = +/-0.042; p = 0.006) | 0.441                   | +0.24%        |
| Frequency | 2013.2     | 0.002 (CI = +/-0.012; p = 0.754)  | -0.063 (CI = +/-0.046; p = 0.012) | 0.384                   | +0.18%        |
| Frequency | 2014.1     | 0.005 (CI = +/-0.014; p = 0.444)  | -0.056 (CI = +/-0.048; p = 0.028) | 0.363                   | +0.50%        |
| Frequency | 2014.2     | 0.005 (CI = +/-0.017; p = 0.545)  | -0.055 (CI = +/-0.054; p = 0.046) | 0.283                   | +0.47%        |
| Frequency | 2015.1     | 0.009 (CI = +/-0.021; p = 0.339)  | -0.048 (CI = +/-0.059; p = 0.100) | 0.279                   | +0.90%        |
| Frequency | 2015.2     | 0.008 (CI = +/-0.027; p = 0.503)  | -0.046 (CI = +/-0.069; p = 0.157) | 0.124                   | +0.78%        |
| Frequency | 2016.1     | 0.012 (CI = +/-0.037; p = 0.443)  | -0.040 (CI = +/-0.084; p = 0.279) | 0.095                   | +1.19%        |
| Frequency | 2016.2     | -0.007 (CI = +/-0.025; p = 0.499) | -0.018 (CI = +/-0.050; p = 0.370) | -0.077                  | -0.65%        |
| Frequency | 2017.1     | -0.003 (CI = +/-0.042; p = 0.830) | -0.014 (CI = +/-0.072; p = 0.578) | -0.475                  | -0.31%        |

**Accident Benefits Total**

Coverage = AB Total

End Trend Period = 2019.1

Excluded Points = NA

Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R <sup>2</sup> | Implied Trend |
|-----------|------------|-----------------------------------|-----------------------------------|-------------------------|---------------|
|           |            |                                   |                                   |                         | Rate          |
| Loss Cost | 2005.2     | 0.045 (CI = +/-0.011; p = 0.000)  | -0.177 (CI = +/-0.090; p = 0.000) | 0.748                   | +4.60%        |
| Loss Cost | 2006.1     | 0.049 (CI = +/-0.011; p = 0.000)  | -0.160 (CI = +/-0.084; p = 0.001) | 0.794                   | +5.00%        |
| Loss Cost | 2006.2     | 0.050 (CI = +/-0.012; p = 0.000)  | -0.165 (CI = +/-0.087; p = 0.001) | 0.778                   | +5.12%        |
| Loss Cost | 2007.1     | 0.052 (CI = +/-0.012; p = 0.000)  | -0.157 (CI = +/-0.090; p = 0.001) | 0.782                   | +5.31%        |
| Loss Cost | 2007.2     | 0.053 (CI = +/-0.013; p = 0.000)  | -0.164 (CI = +/-0.093; p = 0.001) | 0.769                   | +5.49%        |
| Loss Cost | 2008.1     | 0.057 (CI = +/-0.014; p = 0.000)  | -0.152 (CI = +/-0.092; p = 0.003) | 0.789                   | +5.84%        |
| Loss Cost | 2008.2     | 0.059 (CI = +/-0.015; p = 0.000)  | -0.159 (CI = +/-0.096; p = 0.003) | 0.775                   | +6.05%        |
| Loss Cost | 2009.1     | 0.063 (CI = +/-0.015; p = 0.000)  | -0.143 (CI = +/-0.093; p = 0.005) | 0.808                   | +6.55%        |
| Loss Cost | 2009.2     | 0.068 (CI = +/-0.016; p = 0.000)  | -0.158 (CI = +/-0.092; p = 0.002) | 0.819                   | +7.02%        |
| Loss Cost | 2010.1     | 0.073 (CI = +/-0.016; p = 0.000)  | -0.143 (CI = +/-0.090; p = 0.004) | 0.843                   | +7.54%        |
| Loss Cost | 2010.2     | 0.075 (CI = +/-0.018; p = 0.000)  | -0.151 (CI = +/-0.095; p = 0.004) | 0.827                   | +7.81%        |
| Loss Cost | 2011.1     | 0.081 (CI = +/-0.019; p = 0.000)  | -0.134 (CI = +/-0.092; p = 0.008) | 0.853                   | +8.43%        |
| Loss Cost | 2011.2     | 0.083 (CI = +/-0.021; p = 0.000)  | -0.141 (CI = +/-0.099; p = 0.009) | 0.829                   | +8.67%        |
| Loss Cost | 2012.1     | 0.086 (CI = +/-0.024; p = 0.000)  | -0.134 (CI = +/-0.105; p = 0.017) | 0.823                   | +8.98%        |
| Loss Cost | 2012.2     | 0.090 (CI = +/-0.028; p = 0.000)  | -0.145 (CI = +/-0.112; p = 0.016) | 0.803                   | +9.47%        |
| Loss Cost | 2013.1     | 0.102 (CI = +/-0.027; p = 0.000)  | -0.119 (CI = +/-0.100; p = 0.024) | 0.867                   | +10.76%       |
| Loss Cost | 2013.2     | 0.105 (CI = +/-0.032; p = 0.000)  | -0.126 (CI = +/-0.111; p = 0.031) | 0.832                   | +11.08%       |
| Loss Cost | 2014.1     | 0.113 (CI = +/-0.037; p = 0.000)  | -0.111 (CI = +/-0.117; p = 0.059) | 0.842                   | +11.97%       |
| Loss Cost | 2014.2     | 0.103 (CI = +/-0.044; p = 0.001)  | -0.092 (CI = +/-0.126; p = 0.127) | 0.766                   | +10.83%       |
| Loss Cost | 2015.1     | 0.100 (CI = +/-0.056; p = 0.005)  | -0.096 (CI = +/-0.146; p = 0.161) | 0.710                   | +10.57%       |
| Loss Cost | 2015.2     | 0.094 (CI = +/-0.078; p = 0.027)  | -0.086 (CI = +/-0.180; p = 0.272) | 0.529                   | +9.88%        |
| Loss Cost | 2016.1     | 0.113 (CI = +/-0.103; p = 0.038)  | -0.065 (CI = +/-0.208; p = 0.438) | 0.572                   | +11.94%       |
| Loss Cost | 2016.2     | 0.056 (CI = +/-0.082; p = 0.120)  | 0.002 (CI = +/-0.141; p = 0.965)  | 0.386                   | +5.73%        |
| Loss Cost | 2017.1     | 0.054 (CI = +/-0.172; p = 0.313)  | 0.000 (CI = +/-0.248; p = 0.996)  | -0.055                  | +5.50%        |
|           |            |                                   |                                   |                         |               |
| Severity  | 2005.2     | 0.049 (CI = +/-0.010; p = 0.000)  | -0.108 (CI = +/-0.078; p = 0.008) | 0.803                   | +4.98%        |
| Severity  | 2006.1     | 0.051 (CI = +/-0.010; p = 0.000)  | -0.098 (CI = +/-0.078; p = 0.016) | 0.816                   | +5.21%        |
| Severity  | 2006.2     | 0.050 (CI = +/-0.011; p = 0.000)  | -0.092 (CI = +/-0.080; p = 0.026) | 0.788                   | +5.08%        |
| Severity  | 2007.1     | 0.048 (CI = +/-0.012; p = 0.000)  | -0.097 (CI = +/-0.083; p = 0.024) | 0.770                   | +4.96%        |
| Severity  | 2007.2     | 0.047 (CI = +/-0.012; p = 0.000)  | -0.092 (CI = +/-0.086; p = 0.038) | 0.731                   | +4.82%        |
| Severity  | 2008.1     | 0.048 (CI = +/-0.014; p = 0.000)  | -0.090 (CI = +/-0.090; p = 0.051) | 0.716                   | +4.87%        |
| Severity  | 2008.2     | 0.047 (CI = +/-0.015; p = 0.000)  | -0.088 (CI = +/-0.095; p = 0.069) | 0.672                   | +4.81%        |
| Severity  | 2009.1     | 0.051 (CI = +/-0.016; p = 0.000)  | -0.074 (CI = +/-0.095; p = 0.117) | 0.702                   | +5.21%        |
| Severity  | 2009.2     | 0.055 (CI = +/-0.016; p = 0.000)  | -0.090 (CI = +/-0.095; p = 0.063) | 0.724                   | +5.67%        |
| Severity  | 2010.1     | 0.059 (CI = +/-0.017; p = 0.000)  | -0.076 (CI = +/-0.095; p = 0.108) | 0.748                   | +6.11%        |
| Severity  | 2010.2     | 0.064 (CI = +/-0.018; p = 0.000)  | -0.092 (CI = +/-0.096; p = 0.059) | 0.762                   | +6.62%        |
| Severity  | 2011.1     | 0.069 (CI = +/-0.019; p = 0.000)  | -0.077 (CI = +/-0.095; p = 0.105) | 0.789                   | +7.18%        |
| Severity  | 2011.2     | 0.070 (CI = +/-0.022; p = 0.000)  | -0.078 (CI = +/-0.103; p = 0.123) | 0.749                   | +7.24%        |
| Severity  | 2012.1     | 0.076 (CI = +/-0.024; p = 0.000)  | -0.063 (CI = +/-0.103; p = 0.207) | 0.773                   | +7.89%        |
| Severity  | 2012.2     | 0.084 (CI = +/-0.025; p = 0.000)  | -0.084 (CI = +/-0.102; p = 0.097) | 0.802                   | +8.80%        |
| Severity  | 2013.1     | 0.099 (CI = +/-0.018; p = 0.000)  | -0.053 (CI = +/-0.069; p = 0.118) | 0.923                   | +10.38%       |
| Severity  | 2013.2     | 0.102 (CI = +/-0.022; p = 0.000)  | -0.060 (CI = +/-0.075; p = 0.104) | 0.910                   | +10.75%       |
| Severity  | 2014.1     | 0.106 (CI = +/-0.025; p = 0.000)  | -0.052 (CI = +/-0.081; p = 0.175) | 0.904                   | +11.23%       |
| Severity  | 2014.2     | 0.096 (CI = +/-0.027; p = 0.000)  | -0.033 (CI = +/-0.078; p = 0.354) | 0.883                   | +10.07%       |
| Severity  | 2015.1     | 0.089 (CI = +/-0.032; p = 0.000)  | -0.044 (CI = +/-0.083; p = 0.244) | 0.852                   | +9.26%        |
| Severity  | 2015.2     | 0.083 (CI = +/-0.043; p = 0.004)  | -0.035 (CI = +/-0.099; p = 0.409) | 0.759                   | +8.62%        |
| Severity  | 2016.1     | 0.096 (CI = +/-0.053; p = 0.007)  | -0.019 (CI = +/-0.106; p = 0.641) | 0.799                   | +10.08%       |
| Severity  | 2016.2     | 0.067 (CI = +/-0.046; p = 0.018)  | 0.014 (CI = +/-0.078; p = 0.607)  | 0.830                   | +6.98%        |
| Severity  | 2017.1     | 0.062 (CI = +/-0.092; p = 0.100)  | 0.010 (CI = +/-0.133; p = 0.785)  | 0.622                   | +6.42%        |
|           |            |                                   |                                   |                         |               |
| Frequency | 2005.2     | -0.004 (CI = +/-0.007; p = 0.308) | -0.069 (CI = +/-0.058; p = 0.021) | 0.169                   | -0.36%        |
| Frequency | 2006.1     | -0.002 (CI = +/-0.007; p = 0.584) | -0.062 (CI = +/-0.058; p = 0.037) | 0.109                   | -0.20%        |
| Frequency | 2006.2     | 0.000 (CI = +/-0.007; p = 0.920)  | -0.072 (CI = +/-0.056; p = 0.013) | 0.172                   | +0.04%        |
| Frequency | 2007.1     | 0.003 (CI = +/-0.007; p = 0.345)  | -0.060 (CI = +/-0.051; p = 0.023) | 0.171                   | +0.33%        |
| Frequency | 2007.2     | 0.006 (CI = +/-0.007; p = 0.058)  | -0.073 (CI = +/-0.046; p = 0.003) | 0.346                   | +0.63%        |
| Frequency | 2008.1     | 0.009 (CI = +/-0.006; p = 0.005)  | -0.062 (CI = +/-0.040; p = 0.004) | 0.458                   | +0.92%        |
| Frequency | 2008.2     | 0.012 (CI = +/-0.006; p = 0.000)  | -0.072 (CI = +/-0.036; p = 0.001) | 0.598                   | +1.18%        |
| Frequency | 2009.1     | 0.013 (CI = +/-0.006; p = 0.000)  | -0.068 (CI = +/-0.037; p = 0.001) | 0.613                   | +1.28%        |
| Frequency | 2009.2     | 0.013 (CI = +/-0.007; p = 0.001)  | -0.069 (CI = +/-0.040; p = 0.002) | 0.561                   | +1.28%        |
| Frequency | 2010.1     | 0.013 (CI = +/-0.008; p = 0.002)  | -0.066 (CI = +/-0.042; p = 0.004) | 0.565                   | +1.35%        |
| Frequency | 2010.2     | 0.011 (CI = +/-0.008; p = 0.010)  | -0.059 (CI = +/-0.041; p = 0.008) | 0.459                   | +1.12%        |
| Frequency | 2011.1     | 0.012 (CI = +/-0.009; p = 0.015)  | -0.058 (CI = +/-0.044; p = 0.014) | 0.458                   | +1.17%        |
| Frequency | 2011.2     | 0.013 (CI = +/-0.010; p = 0.014)  | -0.062 (CI = +/-0.046; p = 0.012) | 0.463                   | +1.34%        |
| Frequency | 2012.1     | 0.010 (CI = +/-0.010; p = 0.058)  | -0.070 (CI = +/-0.045; p = 0.005) | 0.498                   | +1.01%        |
| Frequency | 2012.2     | 0.006 (CI = +/-0.011; p = 0.239)  | -0.061 (CI = +/-0.044; p = 0.011) | 0.382                   | +0.62%        |
| Frequency | 2013.1     | 0.004 (CI = +/-0.012; p = 0.533)  | -0.067 (CI = +/-0.045; p = 0.008) | 0.432                   | +0.35%        |
| Frequency | 2013.2     | 0.003 (CI = +/-0.015; p = 0.653)  | -0.066 (CI = +/-0.051; p = 0.017) | 0.372                   | +0.30%        |
| Frequency | 2014.1     | 0.007 (CI = +/-0.017; p = 0.390)  | -0.059 (CI = +/-0.053; p = 0.034) | 0.347                   | +0.66%        |
| Frequency | 2014.2     | 0.007 (CI = +/-0.022; p = 0.476)  | -0.059 (CI = +/-0.062; p = 0.058) | 0.266                   | +0.69%        |
| Frequency | 2015.1     | 0.012 (CI = +/-0.026; p = 0.306)  | -0.052 (CI = +/-0.068; p = 0.109) | 0.258                   | +1.20%        |
| Frequency | 2015.2     | 0.012 (CI = +/-0.037; p = 0.456)  | -0.051 (CI = +/-0.084; p = 0.177) | 0.090                   | +1.16%        |
| Frequency | 2016.1     | 0.017 (CI = +/-0.051; p = 0.416)  | -0.045 (CI = +/-0.104; p = 0.292) | 0.046                   | +1.69%        |
| Frequency | 2016.2     | -0.012 (CI = +/-0.040; p = 0.421) | -0.012 (CI = +/-0.069; p = 0.621) | -0.086                  | -1.17%        |
| Frequency | 2017.1     | -0.009 (CI = +/-0.083; p = 0.698) | -0.009 (CI = +/-0.120; p = 0.770) | -0.730                  | -0.86%        |

## Accident Benefits Total

Coverage = AB Total

End Trend Period = 2014.2

Excluded Points = NA

Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R <sup>2</sup> | Implied Trend Rate |
|-----------|------------|-----------------------------------|-----------------------------------|-------------------------|--------------------|
| Loss Cost | 2008.1     | 0.014 (CI = +/-0.012; p = 0.025)  | -0.213 (CI = +/-0.047; p = 0.000) | 0.895                   | +1.40%             |
| Loss Cost | 2008.2     | 0.013 (CI = +/-0.014; p = 0.065)  | -0.211 (CI = +/-0.052; p = 0.000) | 0.877                   | +1.28%             |
| Severity  | 2008.1     | 0.004 (CI = +/-0.019; p = 0.615)  | -0.146 (CI = +/-0.076; p = 0.001) | 0.565                   | +0.44%             |
| Severity  | 2008.2     | -0.004 (CI = +/-0.017; p = 0.601) | -0.127 (CI = +/-0.065; p = 0.001) | 0.593                   | -0.42%             |
| Frequency | 2008.1     | 0.009 (CI = +/-0.016; p = 0.212)  | -0.068 (CI = +/-0.063; p = 0.038) | 0.322                   | +0.95%             |
| Frequency | 2008.2     | 0.017 (CI = +/-0.014; p = 0.022)  | -0.084 (CI = +/-0.052; p = 0.005) | 0.600                   | +1.71%             |

## Accident Benefits Total

Coverage = AB Total

End Trend Period = 2022.1

Excluded Points = NA

Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R <sup>2</sup> | Implied Trend |
|-----------|------------|-----------------------------------|-----------------------------------|-------------------------|---------------|
|           |            |                                   |                                   |                         | Rate          |
| Loss Cost | 2015.1     | 0.062 (CI = +/-0.030; p = 0.001)  | -0.146 (CI = +/-0.131; p = 0.032) | 0.630                   | +6.39%        |
| Loss Cost | 2015.2     | 0.058 (CI = +/-0.035; p = 0.004)  | -0.136 (CI = +/-0.142; p = 0.059) | 0.517                   | +5.97%        |
| Loss Cost | 2016.1     | 0.058 (CI = +/-0.041; p = 0.011)  | -0.136 (CI = +/-0.156; p = 0.080) | 0.490                   | +5.97%        |
| Loss Cost | 2016.2     | 0.044 (CI = +/-0.046; p = 0.057)  | -0.106 (CI = +/-0.158; p = 0.163) | 0.279                   | +4.51%        |
| Loss Cost | 2017.1     | 0.039 (CI = +/-0.055; p = 0.142)  | -0.116 (CI = +/-0.174; p = 0.164) | 0.231                   | +3.95%        |
| Severity  | 2015.1     | 0.114 (CI = +/-0.015; p = 0.000)  | -0.033 (CI = +/-0.066; p = 0.296) | 0.950                   | +12.11%       |
| Severity  | 2015.2     | 0.115 (CI = +/-0.018; p = 0.000)  | -0.036 (CI = +/-0.072; p = 0.298) | 0.939                   | +12.24%       |
| Severity  | 2016.1     | 0.123 (CI = +/-0.017; p = 0.000)  | -0.020 (CI = +/-0.065; p = 0.512) | 0.954                   | +13.06%       |
| Severity  | 2016.2     | 0.121 (CI = +/-0.021; p = 0.000)  | -0.015 (CI = +/-0.072; p = 0.646) | 0.940                   | +12.82%       |
| Severity  | 2017.1     | 0.124 (CI = +/-0.024; p = 0.000)  | -0.008 (CI = +/-0.078; p = 0.819) | 0.931                   | +13.26%       |
| Frequency | 2015.1     | -0.052 (CI = +/-0.035; p = 0.007) | -0.113 (CI = +/-0.152; p = 0.132) | 0.444                   | -5.11%        |
| Frequency | 2015.2     | -0.057 (CI = +/-0.041; p = 0.010) | -0.100 (CI = +/-0.164; p = 0.207) | 0.450                   | -5.59%        |
| Frequency | 2016.1     | -0.065 (CI = +/-0.047; p = 0.011) | -0.116 (CI = +/-0.175; p = 0.169) | 0.450                   | -6.27%        |
| Frequency | 2016.2     | -0.076 (CI = +/-0.054; p = 0.011) | -0.091 (CI = +/-0.186; p = 0.297) | 0.497                   | -7.36%        |
| Frequency | 2017.1     | -0.086 (CI = +/-0.064; p = 0.014) | -0.108 (CI = +/-0.202; p = 0.253) | 0.479                   | -8.22%        |



## Collision

Coverage = CL

End Trend Period = 2022.1

Excluded Points = NA

Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R <sup>2</sup> | Implied Trend |
|-----------|------------|-----------------------------------|-----------------------------------|-------------------------|---------------|
|           |            |                                   |                                   |                         | Rate          |
| Loss Cost | 2005.2     | 0.000 (CI = +/-0.011; p = 0.926)  | -0.104 (CI = +/-0.107; p = 0.058) | 0.054                   | +0.05%        |
| Loss Cost | 2006.1     | -0.002 (CI = +/-0.011; p = 0.653) | -0.120 (CI = +/-0.105; p = 0.026) | 0.103                   | -0.24%        |
| Loss Cost | 2006.2     | -0.005 (CI = +/-0.011; p = 0.405) | -0.108 (CI = +/-0.105; p = 0.045) | 0.096                   | -0.47%        |
| Loss Cost | 2007.1     | -0.005 (CI = +/-0.012; p = 0.364) | -0.111 (CI = +/-0.109; p = 0.045) | 0.098                   | -0.54%        |
| Loss Cost | 2007.2     | -0.005 (CI = +/-0.013; p = 0.438) | -0.114 (CI = +/-0.113; p = 0.047) | 0.098                   | -0.50%        |
| Loss Cost | 2008.1     | -0.005 (CI = +/-0.014; p = 0.463) | -0.114 (CI = +/-0.117; p = 0.055) | 0.085                   | -0.50%        |
| Loss Cost | 2008.2     | -0.004 (CI = +/-0.015; p = 0.589) | -0.119 (CI = +/-0.121; p = 0.053) | 0.087                   | -0.40%        |
| Loss Cost | 2009.1     | -0.004 (CI = +/-0.016; p = 0.598) | -0.120 (CI = +/-0.126; p = 0.060) | 0.077                   | -0.42%        |
| Loss Cost | 2009.2     | -0.004 (CI = +/-0.018; p = 0.632) | -0.121 (CI = +/-0.132; p = 0.070) | 0.073                   | -0.41%        |
| Loss Cost | 2010.1     | -0.005 (CI = +/-0.019; p = 0.599) | -0.124 (CI = +/-0.137; p = 0.074) | 0.070                   | -0.49%        |
| Loss Cost | 2010.2     | -0.009 (CI = +/-0.020; p = 0.380) | -0.108 (CI = +/-0.140; p = 0.123) | 0.066                   | -0.87%        |
| Loss Cost | 2011.1     | -0.012 (CI = +/-0.022; p = 0.256) | -0.121 (CI = +/-0.143; p = 0.093) | 0.101                   | -1.20%        |
| Loss Cost | 2011.2     | -0.012 (CI = +/-0.024; p = 0.305) | -0.121 (CI = +/-0.151; p = 0.109) | 0.097                   | -1.19%        |
| Loss Cost | 2012.1     | -0.018 (CI = +/-0.025; p = 0.135) | -0.144 (CI = +/-0.149; p = 0.058) | 0.185                   | -1.82%        |
| Loss Cost | 2012.2     | -0.024 (CI = +/-0.026; p = 0.069) | -0.123 (CI = +/-0.152; p = 0.105) | 0.219                   | -2.40%        |
| Loss Cost | 2013.1     | -0.029 (CI = +/-0.029; p = 0.047) | -0.138 (CI = +/-0.157; p = 0.080) | 0.254                   | -2.86%        |
| Loss Cost | 2013.2     | -0.035 (CI = +/-0.031; p = 0.033) | -0.121 (CI = +/-0.163; p = 0.135) | 0.286                   | -3.40%        |
| Loss Cost | 2014.1     | -0.039 (CI = +/-0.035; p = 0.030) | -0.134 (CI = +/-0.171; p = 0.115) | 0.294                   | -3.84%        |
| Loss Cost | 2014.2     | -0.044 (CI = +/-0.039; p = 0.030) | -0.119 (CI = +/-0.181; p = 0.181) | 0.312                   | -4.34%        |
| Loss Cost | 2015.1     | -0.051 (CI = +/-0.044; p = 0.026) | -0.136 (CI = +/-0.191; p = 0.146) | 0.329                   | -5.00%        |
| Loss Cost | 2015.2     | -0.057 (CI = +/-0.051; p = 0.033) | -0.123 (CI = +/-0.207; p = 0.218) | 0.334                   | -5.51%        |
| Loss Cost | 2016.1     | -0.069 (CI = +/-0.057; p = 0.022) | -0.150 (CI = +/-0.213; p = 0.148) | 0.395                   | -6.69%        |
| Loss Cost | 2016.2     | -0.088 (CI = +/-0.063; p = 0.011) | -0.109 (CI = +/-0.216; p = 0.284) | 0.494                   | -8.44%        |
| Loss Cost | 2017.1     | -0.105 (CI = +/-0.071; p = 0.009) | -0.139 (CI = +/-0.225; p = 0.191) | 0.538                   | -9.93%        |
| Loss Cost | 2017.2     | -0.114 (CI = +/-0.089; p = 0.019) | -0.121 (CI = +/-0.257; p = 0.302) | 0.525                   | -10.82%       |
|           |            |                                   |                                   |                         |               |
| Severity  | 2005.2     | 0.041 (CI = +/-0.005; p = 0.000)  | -0.039 (CI = +/-0.047; p = 0.096) | 0.904                   | +4.22%        |
| Severity  | 2006.1     | 0.040 (CI = +/-0.005; p = 0.000)  | -0.047 (CI = +/-0.045; p = 0.038) | 0.905                   | +4.07%        |
| Severity  | 2006.2     | 0.038 (CI = +/-0.004; p = 0.000)  | -0.038 (CI = +/-0.042; p = 0.073) | 0.906                   | +3.88%        |
| Severity  | 2007.1     | 0.037 (CI = +/-0.004; p = 0.000)  | -0.045 (CI = +/-0.040; p = 0.027) | 0.907                   | +3.74%        |
| Severity  | 2007.2     | 0.036 (CI = +/-0.005; p = 0.000)  | -0.040 (CI = +/-0.039; p = 0.049) | 0.898                   | +3.63%        |
| Severity  | 2008.1     | 0.036 (CI = +/-0.005; p = 0.000)  | -0.040 (CI = +/-0.041; p = 0.057) | 0.890                   | +3.63%        |
| Severity  | 2008.2     | 0.037 (CI = +/-0.005; p = 0.000)  | -0.045 (CI = +/-0.041; p = 0.036) | 0.889                   | +3.73%        |
| Severity  | 2009.1     | 0.038 (CI = +/-0.005; p = 0.000)  | -0.036 (CI = +/-0.039; p = 0.064) | 0.908                   | +3.92%        |
| Severity  | 2009.2     | 0.040 (CI = +/-0.005; p = 0.000)  | -0.042 (CI = +/-0.039; p = 0.034) | 0.910                   | +4.05%        |
| Severity  | 2010.1     | 0.040 (CI = +/-0.006; p = 0.000)  | -0.040 (CI = +/-0.040; p = 0.050) | 0.905                   | +4.10%        |
| Severity  | 2010.2     | 0.040 (CI = +/-0.006; p = 0.000)  | -0.038 (CI = +/-0.042; p = 0.071) | 0.890                   | +4.06%        |
| Severity  | 2011.1     | 0.039 (CI = +/-0.007; p = 0.000)  | -0.042 (CI = +/-0.043; p = 0.058) | 0.877                   | +3.97%        |
| Severity  | 2011.2     | 0.038 (CI = +/-0.007; p = 0.000)  | -0.036 (CI = +/-0.044; p = 0.100) | 0.857                   | +3.83%        |
| Severity  | 2012.1     | 0.038 (CI = +/-0.008; p = 0.000)  | -0.037 (CI = +/-0.047; p = 0.117) | 0.842                   | +3.83%        |
| Severity  | 2012.2     | 0.037 (CI = +/-0.008; p = 0.000)  | -0.034 (CI = +/-0.049; p = 0.167) | 0.811                   | +3.74%        |
| Severity  | 2013.1     | 0.036 (CI = +/-0.009; p = 0.000)  | -0.035 (CI = +/-0.052; p = 0.171) | 0.786                   | +3.69%        |
| Severity  | 2013.2     | 0.036 (CI = +/-0.011; p = 0.000)  | -0.033 (CI = +/-0.055; p = 0.226) | 0.742                   | +3.61%        |
| Severity  | 2014.1     | 0.035 (CI = +/-0.012; p = 0.000)  | -0.034 (CI = +/-0.059; p = 0.235) | 0.708                   | +3.57%        |
| Severity  | 2014.2     | 0.034 (CI = +/-0.014; p = 0.000)  | -0.032 (CI = +/-0.064; p = 0.290) | 0.647                   | +3.51%        |
| Severity  | 2015.1     | 0.036 (CI = +/-0.016; p = 0.000)  | -0.028 (CI = +/-0.068; p = 0.380) | 0.633                   | +3.68%        |
| Severity  | 2015.2     | 0.038 (CI = +/-0.018; p = 0.001)  | -0.033 (CI = +/-0.074; p = 0.343) | 0.597                   | +3.88%        |
| Severity  | 2016.1     | 0.041 (CI = +/-0.021; p = 0.001)  | -0.026 (CI = +/-0.078; p = 0.471) | 0.598                   | +4.20%        |
| Severity  | 2016.2     | 0.043 (CI = +/-0.025; p = 0.004)  | -0.031 (CI = +/-0.087; p = 0.447) | 0.542                   | +4.41%        |
| Severity  | 2017.1     | 0.048 (CI = +/-0.029; p = 0.005)  | -0.021 (CI = +/-0.094; p = 0.615) | 0.557                   | +4.95%        |
| Severity  | 2017.2     | 0.055 (CI = +/-0.036; p = 0.009)  | -0.033 (CI = +/-0.104; p = 0.478) | 0.545                   | +5.63%        |
|           |            |                                   |                                   |                         |               |
| Frequency | 2005.2     | -0.041 (CI = +/-0.011; p = 0.000) | -0.064 (CI = +/-0.105; p = 0.220) | 0.650                   | -4.00%        |
| Frequency | 2006.1     | -0.042 (CI = +/-0.011; p = 0.000) | -0.073 (CI = +/-0.107; p = 0.176) | 0.649                   | -4.14%        |
| Frequency | 2006.2     | -0.043 (CI = +/-0.012; p = 0.000) | -0.070 (CI = +/-0.111; p = 0.207) | 0.637                   | -4.19%        |
| Frequency | 2007.1     | -0.042 (CI = +/-0.013; p = 0.000) | -0.066 (CI = +/-0.114; p = 0.244) | 0.601                   | -4.13%        |
| Frequency | 2007.2     | -0.041 (CI = +/-0.014; p = 0.000) | -0.074 (CI = +/-0.117; p = 0.205) | 0.571                   | -3.98%        |
| Frequency | 2008.1     | -0.041 (CI = +/-0.015; p = 0.000) | -0.074 (CI = +/-0.122; p = 0.219) | 0.539                   | -3.99%        |
| Frequency | 2008.2     | -0.041 (CI = +/-0.016; p = 0.000) | -0.075 (CI = +/-0.127; p = 0.235) | 0.517                   | -3.98%        |
| Frequency | 2009.1     | -0.043 (CI = +/-0.017; p = 0.000) | -0.084 (CI = +/-0.130; p = 0.196) | 0.514                   | -4.17%        |
| Frequency | 2009.2     | -0.044 (CI = +/-0.018; p = 0.000) | -0.079 (CI = +/-0.135; p = 0.243) | 0.505                   | -4.28%        |
| Frequency | 2010.1     | -0.045 (CI = +/-0.020; p = 0.000) | -0.084 (CI = +/-0.141; p = 0.230) | 0.483                   | -4.40%        |
| Frequency | 2010.2     | -0.048 (CI = +/-0.021; p = 0.000) | -0.070 (CI = +/-0.145; p = 0.328) | 0.501                   | -4.73%        |
| Frequency | 2011.1     | -0.051 (CI = +/-0.023; p = 0.000) | -0.079 (CI = +/-0.150; p = 0.282) | 0.494                   | -4.97%        |
| Frequency | 2011.2     | -0.050 (CI = +/-0.025; p = 0.001) | -0.085 (CI = +/-0.157; p = 0.273) | 0.456                   | -4.83%        |
| Frequency | 2012.1     | -0.056 (CI = +/-0.026; p = 0.000) | -0.107 (CI = +/-0.157; p = 0.168) | 0.509                   | -5.44%        |
| Frequency | 2012.2     | -0.061 (CI = +/-0.028; p = 0.000) | -0.090 (CI = +/-0.162; p = 0.258) | 0.531                   | -5.91%        |
| Frequency | 2013.1     | -0.065 (CI = +/-0.031; p = 0.000) | -0.103 (CI = +/-0.168; p = 0.211) | 0.527                   | -6.31%        |
| Frequency | 2013.2     | -0.070 (CI = +/-0.034; p = 0.001) | -0.088 (CI = +/-0.177; p = 0.305) | 0.534                   | -6.77%        |
| Frequency | 2014.1     | -0.074 (CI = +/-0.038; p = 0.001) | -0.100 (CI = +/-0.186; p = 0.270) | 0.514                   | -7.15%        |
| Frequency | 2014.2     | -0.079 (CI = +/-0.043; p = 0.002) | -0.086 (CI = +/-0.199; p = 0.366) | 0.507                   | -7.59%        |
| Frequency | 2015.1     | -0.087 (CI = +/-0.048; p = 0.002) | -0.108 (CI = +/-0.207; p = 0.280) | 0.519                   | -8.37%        |
| Frequency | 2015.2     | -0.095 (CI = +/-0.055; p = 0.003) | -0.090 (CI = +/-0.224; p = 0.397) | 0.518                   | -9.04%        |
| Frequency | 2016.1     | -0.110 (CI = +/-0.060; p = 0.002) | -0.124 (CI = +/-0.226; p = 0.250) | 0.575                   | -10.45%       |
| Frequency | 2016.2     | -0.131 (CI = +/-0.066; p = 0.001) | -0.078 (CI = +/-0.226; p = 0.454) | 0.652                   | -12.31%       |
| Frequency | 2017.1     | -0.153 (CI = +/-0.070; p = 0.001) | -0.118 (CI = +/-0.223; p = 0.259) | 0.711                   | -14.18%       |
| Frequency | 2017.2     | -0.169 (CI = +/-0.086; p = 0.002) | -0.088 (CI = +/-0.247; p = 0.428) | 0.714                   | -15.57%       |

## Collision

Coverage = CL

End Trend Period = 2022.1

Excluded Points = NA

Parameters Included: time

| Fit       | Start Date | Time                              | Adjusted R^2 | Implied Trend |
|-----------|------------|-----------------------------------|--------------|---------------|
|           |            |                                   |              | Rate          |
| Loss Cost | 2005.2     | 0.000 (CI = +/-0.011; p = 0.994)  | -0.031       | 0.00%         |
| Loss Cost | 2006.1     | -0.002 (CI = +/-0.012; p = 0.674) | -0.026       | -0.24%        |
| Loss Cost | 2006.2     | -0.005 (CI = +/-0.012; p = 0.370) | -0.006       | -0.53%        |
| Loss Cost | 2007.1     | -0.005 (CI = +/-0.013; p = 0.390) | -0.008       | -0.54%        |
| Loss Cost | 2007.2     | -0.006 (CI = +/-0.014; p = 0.397) | -0.009       | -0.57%        |
| Loss Cost | 2008.1     | -0.005 (CI = +/-0.015; p = 0.486) | -0.018       | -0.50%        |
| Loss Cost | 2008.2     | -0.005 (CI = +/-0.016; p = 0.530) | -0.023       | -0.49%        |
| Loss Cost | 2009.1     | -0.004 (CI = +/-0.017; p = 0.617) | -0.029       | -0.42%        |
| Loss Cost | 2009.2     | -0.005 (CI = +/-0.018; p = 0.566) | -0.027       | -0.52%        |
| Loss Cost | 2010.1     | -0.005 (CI = +/-0.020; p = 0.617) | -0.032       | -0.49%        |
| Loss Cost | 2010.2     | -0.010 (CI = +/-0.021; p = 0.337) | -0.002       | -0.98%        |
| Loss Cost | 2011.1     | -0.012 (CI = +/-0.023; p = 0.277) | 0.011        | -1.20%        |
| Loss Cost | 2011.2     | -0.013 (CI = +/-0.025; p = 0.268) | 0.014        | -1.34%        |
| Loss Cost | 2012.1     | -0.018 (CI = +/-0.026; p = 0.163) | 0.052        | -1.82%        |
| Loss Cost | 2012.2     | -0.026 (CI = +/-0.027; p = 0.061) | 0.135        | -2.58%        |
| Loss Cost | 2013.1     | -0.029 (CI = +/-0.030; p = 0.061) | 0.144        | -2.86%        |
| Loss Cost | 2013.2     | -0.037 (CI = +/-0.032; p = 0.029) | 0.219        | -3.61%        |
| Loss Cost | 2014.1     | -0.039 (CI = +/-0.037; p = 0.038) | 0.208        | -3.84%        |
| Loss Cost | 2014.2     | -0.047 (CI = +/-0.040; p = 0.025) | 0.262        | -4.61%        |
| Loss Cost | 2015.1     | -0.051 (CI = +/-0.046; p = 0.031) | 0.256        | -5.00%        |
| Loss Cost | 2015.2     | -0.060 (CI = +/-0.052; p = 0.026) | 0.295        | -5.86%        |
| Loss Cost | 2016.1     | -0.069 (CI = +/-0.060; p = 0.027) | 0.315        | -6.69%        |
| Loss Cost | 2016.2     | -0.093 (CI = +/-0.062; p = 0.008) | 0.479        | -8.86%        |
| Loss Cost | 2017.1     | -0.105 (CI = +/-0.073; p = 0.010) | 0.485        | -9.93%        |
| Loss Cost | 2017.2     | -0.122 (CI = +/-0.087; p = 0.012) | 0.511        | -11.47%       |
| Severity  | 2005.2     | 0.041 (CI = +/-0.005; p = 0.000)  | 0.898        | +4.20%        |
| Severity  | 2006.1     | 0.040 (CI = +/-0.005; p = 0.000)  | 0.893        | +4.07%        |
| Severity  | 2006.2     | 0.038 (CI = +/-0.005; p = 0.000)  | 0.898        | +3.86%        |
| Severity  | 2007.1     | 0.037 (CI = +/-0.005; p = 0.000)  | 0.892        | +3.74%        |
| Severity  | 2007.2     | 0.035 (CI = +/-0.005; p = 0.000)  | 0.887        | +3.60%        |
| Severity  | 2008.1     | 0.036 (CI = +/-0.005; p = 0.000)  | 0.878        | +3.63%        |
| Severity  | 2008.2     | 0.036 (CI = +/-0.005; p = 0.000)  | 0.873        | +3.69%        |
| Severity  | 2009.1     | 0.038 (CI = +/-0.005; p = 0.000)  | 0.898        | +3.92%        |
| Severity  | 2009.2     | 0.039 (CI = +/-0.006; p = 0.000)  | 0.895        | +4.01%        |
| Severity  | 2010.1     | 0.040 (CI = +/-0.006; p = 0.000)  | 0.891        | +4.10%        |
| Severity  | 2010.2     | 0.039 (CI = +/-0.006; p = 0.000)  | 0.877        | +4.01%        |
| Severity  | 2011.1     | 0.039 (CI = +/-0.007; p = 0.000)  | 0.860        | +3.97%        |
| Severity  | 2011.2     | 0.037 (CI = +/-0.007; p = 0.000)  | 0.843        | +3.78%        |
| Severity  | 2012.1     | 0.038 (CI = +/-0.008; p = 0.000)  | 0.827        | +3.83%        |
| Severity  | 2012.2     | 0.036 (CI = +/-0.009; p = 0.000)  | 0.800        | +3.69%        |
| Severity  | 2013.1     | 0.036 (CI = +/-0.010; p = 0.000)  | 0.773        | +3.69%        |
| Severity  | 2013.2     | 0.035 (CI = +/-0.011; p = 0.000)  | 0.733        | +3.55%        |
| Severity  | 2014.1     | 0.035 (CI = +/-0.012; p = 0.000)  | 0.698        | +3.57%        |
| Severity  | 2014.2     | 0.034 (CI = +/-0.014; p = 0.000)  | 0.641        | +3.43%        |
| Severity  | 2015.1     | 0.036 (CI = +/-0.015; p = 0.000)  | 0.638        | +3.68%        |
| Severity  | 2015.2     | 0.037 (CI = +/-0.018; p = 0.001)  | 0.598        | +3.77%        |
| Severity  | 2016.1     | 0.041 (CI = +/-0.020; p = 0.001)  | 0.614        | +4.20%        |
| Severity  | 2016.2     | 0.042 (CI = +/-0.024; p = 0.003)  | 0.558        | +4.28%        |
| Severity  | 2017.1     | 0.048 (CI = +/-0.028; p = 0.003)  | 0.593        | +4.95%        |
| Severity  | 2017.2     | 0.053 (CI = +/-0.034; p = 0.007)  | 0.570        | +5.42%        |
| Frequency | 2005.2     | -0.041 (CI = +/-0.011; p = 0.000) | 0.644        | -4.03%        |
| Frequency | 2006.1     | -0.042 (CI = +/-0.011; p = 0.000) | 0.639        | -4.14%        |
| Frequency | 2006.2     | -0.043 (CI = +/-0.012; p = 0.000) | 0.629        | -4.23%        |
| Frequency | 2007.1     | -0.042 (CI = +/-0.013; p = 0.000) | 0.596        | -4.13%        |
| Frequency | 2007.2     | -0.041 (CI = +/-0.014; p = 0.000) | 0.560        | -4.03%        |
| Frequency | 2008.1     | -0.041 (CI = +/-0.015; p = 0.000) | 0.529        | -3.99%        |
| Frequency | 2008.2     | -0.041 (CI = +/-0.016; p = 0.000) | 0.508        | -4.03%        |
| Frequency | 2009.1     | -0.043 (CI = +/-0.017; p = 0.000) | 0.499        | -4.17%        |
| Frequency | 2009.2     | -0.044 (CI = +/-0.018; p = 0.000) | 0.496        | -4.35%        |
| Frequency | 2010.1     | -0.045 (CI = +/-0.020; p = 0.000) | 0.471        | -4.40%        |
| Frequency | 2010.2     | -0.049 (CI = +/-0.021; p = 0.000) | 0.501        | -4.80%        |
| Frequency | 2011.1     | -0.051 (CI = +/-0.023; p = 0.000) | 0.489        | -4.97%        |
| Frequency | 2011.2     | -0.051 (CI = +/-0.025; p = 0.000) | 0.449        | -4.93%        |
| Frequency | 2012.1     | -0.056 (CI = +/-0.026; p = 0.000) | 0.481        | -5.44%        |
| Frequency | 2012.2     | -0.062 (CI = +/-0.028; p = 0.000) | 0.521        | -6.04%        |
| Frequency | 2013.1     | -0.065 (CI = +/-0.031; p = 0.000) | 0.508        | -6.31%        |
| Frequency | 2013.2     | -0.072 (CI = +/-0.034; p = 0.000) | 0.530        | -6.92%        |
| Frequency | 2014.1     | -0.074 (CI = +/-0.038; p = 0.001) | 0.503        | -7.15%        |
| Frequency | 2014.2     | -0.081 (CI = +/-0.042; p = 0.001) | 0.512        | -7.77%        |
| Frequency | 2015.1     | -0.087 (CI = +/-0.048; p = 0.002) | 0.509        | -8.37%        |
| Frequency | 2015.2     | -0.097 (CI = +/-0.054; p = 0.002) | 0.527        | -9.29%        |
| Frequency | 2016.1     | -0.110 (CI = +/-0.061; p = 0.002) | 0.556        | -10.45%       |
| Frequency | 2016.2     | -0.135 (CI = +/-0.063; p = 0.001) | 0.666        | -12.60%       |
| Frequency | 2017.1     | -0.153 (CI = +/-0.071; p = 0.001) | 0.696        | -14.18%       |
| Frequency | 2017.2     | -0.175 (CI = +/-0.081; p = 0.001) | 0.724        | -16.02%       |

## Collision

Coverage = CL

End Trend Period = 2022.1

Excluded Points = NA

Parameters Included: time

| Fit       | Start Date | Time                              | Adjusted R <sup>2</sup> | Implied Trend Rate |
|-----------|------------|-----------------------------------|-------------------------|--------------------|
| Loss Cost | 2005.2     | 0.000 (CI = +/-0.011; p = 0.994)  | -0.031                  | 0.00%              |
| Loss Cost | 2006.1     | -0.002 (CI = +/-0.012; p = 0.674) | -0.026                  | -0.24%             |
| Loss Cost | 2006.2     | -0.005 (CI = +/-0.012; p = 0.370) | -0.006                  | -0.53%             |
| Loss Cost | 2007.1     | -0.005 (CI = +/-0.013; p = 0.390) | -0.008                  | -0.54%             |
| Loss Cost | 2007.2     | -0.006 (CI = +/-0.014; p = 0.397) | -0.009                  | -0.57%             |
| Loss Cost | 2008.1     | -0.005 (CI = +/-0.015; p = 0.486) | -0.018                  | -0.50%             |
| Loss Cost | 2008.2     | -0.005 (CI = +/-0.016; p = 0.530) | -0.023                  | -0.49%             |
| Loss Cost | 2009.1     | -0.004 (CI = +/-0.017; p = 0.617) | -0.029                  | -0.42%             |
| Loss Cost | 2009.2     | -0.005 (CI = +/-0.018; p = 0.566) | -0.027                  | -0.52%             |
| Loss Cost | 2010.1     | -0.005 (CI = +/-0.020; p = 0.617) | -0.032                  | -0.49%             |
| Loss Cost | 2010.2     | -0.010 (CI = +/-0.021; p = 0.337) | -0.002                  | -0.98%             |
| Loss Cost | 2011.1     | -0.012 (CI = +/-0.023; p = 0.277) | 0.011                   | -1.20%             |
| Loss Cost | 2011.2     | -0.013 (CI = +/-0.025; p = 0.268) | 0.014                   | -1.34%             |
| Loss Cost | 2012.1     | -0.018 (CI = +/-0.026; p = 0.163) | 0.052                   | -1.82%             |
| Loss Cost | 2012.2     | -0.026 (CI = +/-0.027; p = 0.061) | 0.135                   | -2.58%             |
| Loss Cost | 2013.1     | -0.029 (CI = +/-0.030; p = 0.061) | 0.144                   | -2.86%             |
| Loss Cost | 2013.2     | -0.037 (CI = +/-0.032; p = 0.029) | 0.219                   | -3.61%             |
| Loss Cost | 2014.1     | -0.039 (CI = +/-0.037; p = 0.038) | 0.208                   | -3.84%             |
| Loss Cost | 2014.2     | -0.047 (CI = +/-0.040; p = 0.025) | 0.262                   | -4.61%             |
| Loss Cost | 2015.1     | -0.051 (CI = +/-0.046; p = 0.031) | 0.256                   | -5.00%             |
| Loss Cost | 2015.2     | -0.060 (CI = +/-0.052; p = 0.026) | 0.295                   | -5.86%             |
| Loss Cost | 2016.1     | -0.069 (CI = +/-0.060; p = 0.027) | 0.315                   | -6.69%             |
| Loss Cost | 2016.2     | -0.093 (CI = +/-0.062; p = 0.008) | 0.479                   | -8.86%             |
| Loss Cost | 2017.1     | -0.105 (CI = +/-0.073; p = 0.010) | 0.485                   | -9.93%             |
| Severity  | 2005.2     | 0.041 (CI = +/-0.005; p = 0.000)  | 0.898                   | +4.20%             |
| Severity  | 2006.1     | 0.040 (CI = +/-0.005; p = 0.000)  | 0.893                   | +4.07%             |
| Severity  | 2006.2     | 0.038 (CI = +/-0.005; p = 0.000)  | 0.898                   | +3.86%             |
| Severity  | 2007.1     | 0.037 (CI = +/-0.005; p = 0.000)  | 0.892                   | +3.74%             |
| Severity  | 2007.2     | 0.035 (CI = +/-0.005; p = 0.000)  | 0.887                   | +3.60%             |
| Severity  | 2008.1     | 0.036 (CI = +/-0.005; p = 0.000)  | 0.878                   | +3.63%             |
| Severity  | 2008.2     | 0.036 (CI = +/-0.005; p = 0.000)  | 0.873                   | +3.69%             |
| Severity  | 2009.1     | 0.038 (CI = +/-0.005; p = 0.000)  | 0.898                   | +3.92%             |
| Severity  | 2009.2     | 0.039 (CI = +/-0.006; p = 0.000)  | 0.895                   | +4.01%             |
| Severity  | 2010.1     | 0.040 (CI = +/-0.006; p = 0.000)  | 0.891                   | +4.10%             |
| Severity  | 2010.2     | 0.039 (CI = +/-0.006; p = 0.000)  | 0.877                   | +4.01%             |
| Severity  | 2011.1     | 0.039 (CI = +/-0.007; p = 0.000)  | 0.860                   | +3.97%             |
| Severity  | 2011.2     | 0.037 (CI = +/-0.007; p = 0.000)  | 0.843                   | +3.78%             |
| Severity  | 2012.1     | 0.038 (CI = +/-0.008; p = 0.000)  | 0.827                   | +3.83%             |
| Severity  | 2012.2     | 0.036 (CI = +/-0.009; p = 0.000)  | 0.800                   | +3.69%             |
| Severity  | 2013.1     | 0.036 (CI = +/-0.010; p = 0.000)  | 0.773                   | +3.69%             |
| Severity  | 2013.2     | 0.035 (CI = +/-0.011; p = 0.000)  | 0.733                   | +3.55%             |
| Severity  | 2014.1     | 0.035 (CI = +/-0.012; p = 0.000)  | 0.698                   | +3.57%             |
| Severity  | 2014.2     | 0.034 (CI = +/-0.014; p = 0.000)  | 0.641                   | +3.43%             |
| Severity  | 2015.1     | 0.036 (CI = +/-0.015; p = 0.000)  | 0.638                   | +3.68%             |
| Severity  | 2015.2     | 0.037 (CI = +/-0.018; p = 0.001)  | 0.598                   | +3.77%             |
| Severity  | 2016.1     | 0.041 (CI = +/-0.020; p = 0.001)  | 0.614                   | +4.20%             |
| Severity  | 2016.2     | 0.042 (CI = +/-0.024; p = 0.003)  | 0.558                   | +4.28%             |
| Severity  | 2017.1     | 0.048 (CI = +/-0.028; p = 0.003)  | 0.593                   | +4.95%             |
| Frequency | 2005.2     | -0.041 (CI = +/-0.011; p = 0.000) | 0.644                   | -4.03%             |
| Frequency | 2006.1     | -0.042 (CI = +/-0.011; p = 0.000) | 0.639                   | -4.14%             |
| Frequency | 2006.2     | -0.043 (CI = +/-0.012; p = 0.000) | 0.629                   | -4.23%             |
| Frequency | 2007.1     | -0.042 (CI = +/-0.013; p = 0.000) | 0.596                   | -4.13%             |
| Frequency | 2007.2     | -0.041 (CI = +/-0.014; p = 0.000) | 0.560                   | -4.03%             |
| Frequency | 2008.1     | -0.041 (CI = +/-0.015; p = 0.000) | 0.529                   | -3.99%             |
| Frequency | 2008.2     | -0.041 (CI = +/-0.016; p = 0.000) | 0.508                   | -4.03%             |
| Frequency | 2009.1     | -0.043 (CI = +/-0.017; p = 0.000) | 0.499                   | -4.17%             |
| Frequency | 2009.2     | -0.044 (CI = +/-0.018; p = 0.000) | 0.496                   | -4.35%             |
| Frequency | 2010.1     | -0.045 (CI = +/-0.020; p = 0.000) | 0.471                   | -4.40%             |
| Frequency | 2010.2     | -0.049 (CI = +/-0.021; p = 0.000) | 0.501                   | -4.80%             |
| Frequency | 2011.1     | -0.051 (CI = +/-0.023; p = 0.000) | 0.489                   | -4.97%             |
| Frequency | 2011.2     | -0.051 (CI = +/-0.025; p = 0.000) | 0.449                   | -4.93%             |
| Frequency | 2012.1     | -0.056 (CI = +/-0.026; p = 0.000) | 0.481                   | -5.44%             |
| Frequency | 2012.2     | -0.062 (CI = +/-0.028; p = 0.000) | 0.521                   | -6.04%             |
| Frequency | 2013.1     | -0.065 (CI = +/-0.031; p = 0.000) | 0.508                   | -6.31%             |
| Frequency | 2013.2     | -0.072 (CI = +/-0.034; p = 0.000) | 0.530                   | -6.92%             |
| Frequency | 2014.1     | -0.074 (CI = +/-0.038; p = 0.001) | 0.503                   | -7.15%             |
| Frequency | 2014.2     | -0.081 (CI = +/-0.042; p = 0.001) | 0.512                   | -7.77%             |
| Frequency | 2015.1     | -0.087 (CI = +/-0.048; p = 0.002) | 0.509                   | -8.37%             |
| Frequency | 2015.2     | -0.097 (CI = +/-0.054; p = 0.002) | 0.527                   | -9.29%             |
| Frequency | 2016.1     | -0.110 (CI = +/-0.061; p = 0.002) | 0.556                   | -10.45%            |
| Frequency | 2016.2     | -0.135 (CI = +/-0.063; p = 0.001) | 0.666                   | -12.60%            |
| Frequency | 2017.1     | -0.153 (CI = +/-0.071; p = 0.001) | 0.696                   | -14.18%            |

## Collision

Coverage = CL

End Trend Period = 2021.2

Excluded Points = NA

Parameters Included: time

| Fit       | Start Date | Time                              | Adjusted R <sup>2</sup> | Implied Trend Rate |
|-----------|------------|-----------------------------------|-------------------------|--------------------|
| Loss Cost | 2005.2     | 0.004 (CI = +/-0.011; p = 0.453)  | -0.013                  | +0.41%             |
| Loss Cost | 2006.1     | 0.002 (CI = +/-0.011; p = 0.749)  | -0.030                  | +0.18%             |
| Loss Cost | 2006.2     | -0.001 (CI = +/-0.012; p = 0.859) | -0.033                  | -0.10%             |
| Loss Cost | 2007.1     | -0.001 (CI = +/-0.012; p = 0.890) | -0.035                  | -0.08%             |
| Loss Cost | 2007.2     | -0.001 (CI = +/-0.013; p = 0.900) | -0.036                  | -0.08%             |
| Loss Cost | 2008.1     | 0.000 (CI = +/-0.014; p = 0.967)  | -0.038                  | +0.03%             |
| Loss Cost | 2008.2     | 0.001 (CI = +/-0.015; p = 0.908)  | -0.039                  | +0.09%             |
| Loss Cost | 2009.1     | 0.002 (CI = +/-0.017; p = 0.795)  | -0.039                  | +0.21%             |
| Loss Cost | 2009.2     | 0.002 (CI = +/-0.018; p = 0.861)  | -0.042                  | +0.15%             |
| Loss Cost | 2010.1     | 0.002 (CI = +/-0.020; p = 0.797)  | -0.042                  | +0.25%             |
| Loss Cost | 2010.2     | -0.002 (CI = +/-0.020; p = 0.820) | -0.045                  | -0.23%             |
| Loss Cost | 2011.1     | -0.004 (CI = +/-0.022; p = 0.711) | -0.043                  | -0.40%             |
| Loss Cost | 2011.2     | -0.005 (CI = +/-0.025; p = 0.691) | -0.044                  | -0.47%             |
| Loss Cost | 2012.1     | -0.009 (CI = +/-0.027; p = 0.477) | -0.025                  | -0.92%             |
| Loss Cost | 2012.2     | -0.017 (CI = +/-0.028; p = 0.222) | 0.033                   | -1.67%             |
| Loss Cost | 2013.1     | -0.019 (CI = +/-0.031; p = 0.218) | 0.037                   | -1.88%             |
| Loss Cost | 2013.2     | -0.026 (CI = +/-0.034; p = 0.117) | 0.100                   | -2.61%             |
| Loss Cost | 2014.1     | -0.028 (CI = +/-0.039; p = 0.145) | 0.084                   | -2.74%             |
| Loss Cost | 2014.2     | -0.035 (CI = +/-0.043; p = 0.100) | 0.132                   | -3.47%             |
| Loss Cost | 2015.1     | -0.038 (CI = +/-0.050; p = 0.122) | 0.120                   | -3.76%             |
| Loss Cost | 2015.2     | -0.047 (CI = +/-0.058; p = 0.102) | 0.154                   | -4.57%             |
| Loss Cost | 2016.1     | -0.055 (CI = +/-0.068; p = 0.104) | 0.167                   | -5.32%             |
| Loss Cost | 2016.2     | -0.080 (CI = +/-0.073; p = 0.035) | 0.340                   | -7.68%             |
| Loss Cost | 2017.1     | -0.092 (CI = +/-0.089; p = 0.045) | 0.340                   | -8.75%             |
| Severity  | 2005.2     | 0.040 (CI = +/-0.005; p = 0.000)  | 0.890                   | +4.10%             |
| Severity  | 2006.1     | 0.039 (CI = +/-0.005; p = 0.000)  | 0.885                   | +3.96%             |
| Severity  | 2006.2     | 0.037 (CI = +/-0.005; p = 0.000)  | 0.893                   | +3.73%             |
| Severity  | 2007.1     | 0.035 (CI = +/-0.005; p = 0.000)  | 0.888                   | +3.59%             |
| Severity  | 2007.2     | 0.034 (CI = +/-0.005; p = 0.000)  | 0.885                   | +3.43%             |
| Severity  | 2008.1     | 0.034 (CI = +/-0.005; p = 0.000)  | 0.875                   | +3.45%             |
| Severity  | 2008.2     | 0.034 (CI = +/-0.005; p = 0.000)  | 0.868                   | +3.50%             |
| Severity  | 2009.1     | 0.037 (CI = +/-0.005; p = 0.000)  | 0.895                   | +3.73%             |
| Severity  | 2009.2     | 0.037 (CI = +/-0.006; p = 0.000)  | 0.891                   | +3.81%             |
| Severity  | 2010.1     | 0.038 (CI = +/-0.006; p = 0.000)  | 0.886                   | +3.89%             |
| Severity  | 2010.2     | 0.037 (CI = +/-0.006; p = 0.000)  | 0.871                   | +3.78%             |
| Severity  | 2011.1     | 0.036 (CI = +/-0.007; p = 0.000)  | 0.852                   | +3.71%             |
| Severity  | 2011.2     | 0.034 (CI = +/-0.007; p = 0.000)  | 0.838                   | +3.48%             |
| Severity  | 2012.1     | 0.034 (CI = +/-0.008; p = 0.000)  | 0.818                   | +3.50%             |
| Severity  | 2012.2     | 0.033 (CI = +/-0.008; p = 0.000)  | 0.789                   | +3.31%             |
| Severity  | 2013.1     | 0.032 (CI = +/-0.009; p = 0.000)  | 0.755                   | +3.27%             |
| Severity  | 2013.2     | 0.030 (CI = +/-0.010; p = 0.000)  | 0.709                   | +3.06%             |
| Severity  | 2014.1     | 0.030 (CI = +/-0.012; p = 0.000)  | 0.660                   | +3.01%             |
| Severity  | 2014.2     | 0.027 (CI = +/-0.013; p = 0.001)  | 0.587                   | +2.77%             |
| Severity  | 2015.1     | 0.029 (CI = +/-0.015; p = 0.001)  | 0.572                   | +2.96%             |
| Severity  | 2015.2     | 0.029 (CI = +/-0.017; p = 0.004)  | 0.508                   | +2.95%             |
| Severity  | 2016.1     | 0.032 (CI = +/-0.020; p = 0.005)  | 0.516                   | +3.30%             |
| Severity  | 2016.2     | 0.032 (CI = +/-0.025; p = 0.018)  | 0.425                   | +3.21%             |
| Severity  | 2017.1     | 0.037 (CI = +/-0.029; p = 0.020)  | 0.454                   | +3.79%             |
| Frequency | 2005.2     | -0.036 (CI = +/-0.010; p = 0.000) | 0.646                   | -3.55%             |
| Frequency | 2006.1     | -0.037 (CI = +/-0.010; p = 0.000) | 0.638                   | -3.63%             |
| Frequency | 2006.2     | -0.038 (CI = +/-0.011; p = 0.000) | 0.624                   | -3.69%             |
| Frequency | 2007.1     | -0.036 (CI = +/-0.011; p = 0.000) | 0.587                   | -3.54%             |
| Frequency | 2007.2     | -0.035 (CI = +/-0.012; p = 0.000) | 0.545                   | -3.39%             |
| Frequency | 2008.1     | -0.034 (CI = +/-0.013; p = 0.000) | 0.505                   | -3.30%             |
| Frequency | 2008.2     | -0.034 (CI = +/-0.014; p = 0.000) | 0.476                   | -3.30%             |
| Frequency | 2009.1     | -0.034 (CI = +/-0.015; p = 0.000) | 0.461                   | -3.39%             |
| Frequency | 2009.2     | -0.036 (CI = +/-0.016; p = 0.000) | 0.453                   | -3.52%             |
| Frequency | 2010.1     | -0.036 (CI = +/-0.018; p = 0.000) | 0.418                   | -3.51%             |
| Frequency | 2010.2     | -0.039 (CI = +/-0.019; p = 0.000) | 0.451                   | -3.86%             |
| Frequency | 2011.1     | -0.040 (CI = +/-0.021; p = 0.001) | 0.430                   | -3.97%             |
| Frequency | 2011.2     | -0.039 (CI = +/-0.023; p = 0.002) | 0.375                   | -3.82%             |
| Frequency | 2012.1     | -0.044 (CI = +/-0.024; p = 0.001) | 0.410                   | -4.27%             |
| Frequency | 2012.2     | -0.049 (CI = +/-0.026; p = 0.001) | 0.455                   | -4.81%             |
| Frequency | 2013.1     | -0.051 (CI = +/-0.029; p = 0.002) | 0.430                   | -4.98%             |
| Frequency | 2013.2     | -0.057 (CI = +/-0.032; p = 0.002) | 0.451                   | -5.50%             |
| Frequency | 2014.1     | -0.057 (CI = +/-0.037; p = 0.005) | 0.408                   | -5.58%             |
| Frequency | 2014.2     | -0.063 (CI = +/-0.041; p = 0.006) | 0.409                   | -6.08%             |
| Frequency | 2015.1     | -0.067 (CI = +/-0.048; p = 0.010) | 0.395                   | -6.52%             |
| Frequency | 2015.2     | -0.076 (CI = +/-0.055; p = 0.011) | 0.406                   | -7.30%             |
| Frequency | 2016.1     | -0.087 (CI = +/-0.063; p = 0.012) | 0.432                   | -8.35%             |
| Frequency | 2016.2     | -0.112 (CI = +/-0.067; p = 0.005) | 0.566                   | -10.56%            |
| Frequency | 2017.1     | -0.129 (CI = +/-0.079; p = 0.006) | 0.592                   | -12.09%            |

## Collision

Coverage = CL

End Trend Period = 2019.2

Excluded Points = NA

Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R <sup>2</sup> | Implied Trend |
|-----------|------------|-----------------------------------|-----------------------------------|-------------------------|---------------|
|           |            |                                   |                                   |                         | Rate          |
| Loss Cost | 2005.2     | 0.018 (CI = +/-0.008; p = 0.000)  | -0.065 (CI = +/-0.068; p = 0.060) | 0.441                   | +1.80%        |
| Loss Cost | 2006.1     | 0.015 (CI = +/-0.008; p = 0.001)  | -0.077 (CI = +/-0.066; p = 0.023) | 0.426                   | +1.54%        |
| Loss Cost | 2006.2     | 0.013 (CI = +/-0.008; p = 0.003)  | -0.068 (CI = +/-0.065; p = 0.041) | 0.340                   | +1.33%        |
| Loss Cost | 2007.1     | 0.014 (CI = +/-0.009; p = 0.004)  | -0.065 (CI = +/-0.068; p = 0.060) | 0.347                   | +1.42%        |
| Loss Cost | 2007.2     | 0.016 (CI = +/-0.009; p = 0.002)  | -0.073 (CI = +/-0.068; p = 0.037) | 0.390                   | +1.61%        |
| Loss Cost | 2008.1     | 0.018 (CI = +/-0.010; p = 0.001)  | -0.063 (CI = +/-0.068; p = 0.068) | 0.440                   | +1.86%        |
| Loss Cost | 2008.2     | 0.022 (CI = +/-0.010; p = 0.000)  | -0.075 (CI = +/-0.065; p = 0.025) | 0.534                   | +2.19%        |
| Loss Cost | 2009.1     | 0.025 (CI = +/-0.010; p = 0.000)  | -0.064 (CI = +/-0.064; p = 0.050) | 0.594                   | +2.49%        |
| Loss Cost | 2009.2     | 0.027 (CI = +/-0.011; p = 0.000)  | -0.072 (CI = +/-0.064; p = 0.029) | 0.621                   | +2.74%        |
| Loss Cost | 2010.1     | 0.030 (CI = +/-0.011; p = 0.000)  | -0.061 (CI = +/-0.063; p = 0.057) | 0.671                   | +3.07%        |
| Loss Cost | 2010.2     | 0.028 (CI = +/-0.012; p = 0.000)  | -0.052 (CI = +/-0.063; p = 0.098) | 0.597                   | +2.79%        |
| Loss Cost | 2011.1     | 0.028 (CI = +/-0.013; p = 0.000)  | -0.052 (CI = +/-0.068; p = 0.121) | 0.571                   | +2.79%        |
| Loss Cost | 2011.2     | 0.032 (CI = +/-0.013; p = 0.000)  | -0.064 (CI = +/-0.066; p = 0.056) | 0.636                   | +3.22%        |
| Loss Cost | 2012.1     | 0.028 (CI = +/-0.014; p = 0.001)  | -0.075 (CI = +/-0.067; p = 0.032) | 0.611                   | +2.83%        |
| Loss Cost | 2012.2     | 0.023 (CI = +/-0.015; p = 0.006)  | -0.063 (CI = +/-0.065; p = 0.057) | 0.496                   | +2.34%        |
| Loss Cost | 2013.1     | 0.024 (CI = +/-0.018; p = 0.012)  | -0.060 (CI = +/-0.071; p = 0.089) | 0.484                   | +2.44%        |
| Loss Cost | 2013.2     | 0.021 (CI = +/-0.020; p = 0.044)  | -0.053 (CI = +/-0.075; p = 0.148) | 0.325                   | +2.09%        |
| Loss Cost | 2014.1     | 0.025 (CI = +/-0.023; p = 0.035)  | -0.042 (CI = +/-0.080; p = 0.262) | 0.377                   | +2.58%        |
| Loss Cost | 2014.2     | 0.024 (CI = +/-0.028; p = 0.082)  | -0.040 (CI = +/-0.090; p = 0.331) | 0.232                   | +2.46%        |
| Loss Cost | 2015.1     | 0.030 (CI = +/-0.035; p = 0.077)  | -0.029 (CI = +/-0.100; p = 0.515) | 0.276                   | +3.09%        |
| Loss Cost | 2015.2     | 0.032 (CI = +/-0.045; p = 0.128)  | -0.032 (CI = +/-0.116; p = 0.531) | 0.163                   | +3.27%        |
| Loss Cost | 2016.1     | 0.034 (CI = +/-0.063; p = 0.223)  | -0.029 (CI = +/-0.144; p = 0.629) | 0.084                   | +3.46%        |
| Loss Cost | 2016.2     | 0.002 (CI = +/-0.038; p = 0.912)  | 0.009 (CI = +/-0.078; p = 0.763)  | -0.457                  | +0.16%        |
| Loss Cost | 2017.1     | -0.002 (CI = +/-0.067; p = 0.943) | 0.005 (CI = +/-0.114; p = 0.893)  | -0.646                  | -0.16%        |
|           |            |                                   |                                   |                         |               |
| Severity  | 2005.2     | 0.041 (CI = +/-0.006; p = 0.000)  | -0.038 (CI = +/-0.050; p = 0.128) | 0.879                   | +4.24%        |
| Severity  | 2006.1     | 0.039 (CI = +/-0.006; p = 0.000)  | -0.049 (CI = +/-0.047; p = 0.044) | 0.881                   | +4.01%        |
| Severity  | 2006.2     | 0.037 (CI = +/-0.005; p = 0.000)  | -0.038 (CI = +/-0.042; p = 0.077) | 0.886                   | +3.76%        |
| Severity  | 2007.1     | 0.035 (CI = +/-0.005; p = 0.000)  | -0.048 (CI = +/-0.038; p = 0.016) | 0.894                   | +3.53%        |
| Severity  | 2007.2     | 0.033 (CI = +/-0.005; p = 0.000)  | -0.041 (CI = +/-0.036; p = 0.029) | 0.888                   | +3.35%        |
| Severity  | 2008.1     | 0.033 (CI = +/-0.005; p = 0.000)  | -0.042 (CI = +/-0.038; p = 0.031) | 0.876                   | +3.32%        |
| Severity  | 2008.2     | 0.034 (CI = +/-0.006; p = 0.000)  | -0.046 (CI = +/-0.038; p = 0.020) | 0.875                   | +3.44%        |
| Severity  | 2009.1     | 0.036 (CI = +/-0.005; p = 0.000)  | -0.037 (CI = +/-0.035; p = 0.038) | 0.907                   | +3.70%        |
| Severity  | 2009.2     | 0.038 (CI = +/-0.006; p = 0.000)  | -0.042 (CI = +/-0.034; p = 0.017) | 0.913                   | +3.86%        |
| Severity  | 2010.1     | 0.038 (CI = +/-0.006; p = 0.000)  | -0.040 (CI = +/-0.036; p = 0.028) | 0.906                   | +3.92%        |
| Severity  | 2010.2     | 0.038 (CI = +/-0.007; p = 0.000)  | -0.038 (CI = +/-0.037; p = 0.047) | 0.887                   | +3.83%        |
| Severity  | 2011.1     | 0.036 (CI = +/-0.007; p = 0.000)  | -0.044 (CI = +/-0.037; p = 0.025) | 0.877                   | +3.64%        |
| Severity  | 2011.2     | 0.033 (CI = +/-0.007; p = 0.000)  | -0.036 (CI = +/-0.035; p = 0.045) | 0.864                   | +3.36%        |
| Severity  | 2012.1     | 0.032 (CI = +/-0.008; p = 0.000)  | -0.038 (CI = +/-0.037; p = 0.045) | 0.844                   | +3.27%        |
| Severity  | 2012.2     | 0.030 (CI = +/-0.009; p = 0.000)  | -0.032 (CI = +/-0.037; p = 0.081) | 0.808                   | +3.02%        |
| Severity  | 2013.1     | 0.027 (CI = +/-0.009; p = 0.000)  | -0.038 (CI = +/-0.038; p = 0.048) | 0.787                   | +2.77%        |
| Severity  | 2013.2     | 0.024 (CI = +/-0.010; p = 0.000)  | -0.032 (CI = +/-0.037; p = 0.086) | 0.724                   | +2.45%        |
| Severity  | 2014.1     | 0.020 (CI = +/-0.010; p = 0.002)  | -0.040 (CI = +/-0.035; p = 0.030) | 0.720                   | +2.04%        |
| Severity  | 2014.2     | 0.016 (CI = +/-0.009; p = 0.005)  | -0.032 (CI = +/-0.030; p = 0.041) | 0.646                   | +1.57%        |
| Severity  | 2015.1     | 0.014 (CI = +/-0.012; p = 0.028)  | -0.035 (CI = +/-0.034; p = 0.044) | 0.616                   | +1.38%        |
| Severity  | 2015.2     | 0.011 (CI = +/-0.014; p = 0.104)  | -0.031 (CI = +/-0.037; p = 0.086) | 0.423                   | +1.13%        |
| Severity  | 2016.1     | 0.009 (CI = +/-0.020; p = 0.281)  | -0.034 (CI = +/-0.046; p = 0.112) | 0.391                   | +0.94%        |
| Severity  | 2016.2     | 0.001 (CI = +/-0.020; p = 0.875)  | -0.025 (CI = +/-0.040; p = 0.165) | 0.131                   | +0.12%        |
| Severity  | 2017.1     | -0.004 (CI = +/-0.032; p = 0.707) | -0.031 (CI = +/-0.054; p = 0.167) | 0.209                   | -0.41%        |
|           |            |                                   |                                   |                         |               |
| Frequency | 2005.2     | -0.024 (CI = +/-0.008; p = 0.000) | -0.027 (CI = +/-0.065; p = 0.408) | 0.572                   | -2.34%        |
| Frequency | 2006.1     | -0.024 (CI = +/-0.008; p = 0.000) | -0.029 (CI = +/-0.068; p = 0.391) | 0.550                   | -2.38%        |
| Frequency | 2006.2     | -0.024 (CI = +/-0.009; p = 0.000) | -0.031 (CI = +/-0.071; p = 0.376) | 0.517                   | -2.34%        |
| Frequency | 2007.1     | -0.021 (CI = +/-0.009; p = 0.000) | -0.017 (CI = +/-0.067; p = 0.608) | 0.450                   | -2.04%        |
| Frequency | 2007.2     | -0.017 (CI = +/-0.008; p = 0.000) | -0.032 (CI = +/-0.061; p = 0.289) | 0.408                   | -1.68%        |
| Frequency | 2008.1     | -0.014 (CI = +/-0.009; p = 0.002) | -0.021 (CI = +/-0.059; p = 0.473) | 0.309                   | -1.42%        |
| Frequency | 2008.2     | -0.012 (CI = +/-0.009; p = 0.010) | -0.029 (CI = +/-0.059; p = 0.321) | 0.247                   | -1.21%        |
| Frequency | 2009.1     | -0.012 (CI = +/-0.010; p = 0.022) | -0.027 (CI = +/-0.062; p = 0.377) | 0.184                   | -1.16%        |
| Frequency | 2009.2     | -0.011 (CI = +/-0.011; p = 0.048) | -0.030 (CI = +/-0.065; p = 0.350) | 0.147                   | -1.08%        |
| Frequency | 2010.1     | -0.008 (CI = +/-0.011; p = 0.148) | -0.020 (CI = +/-0.066; p = 0.521) | 0.029                   | -0.82%        |
| Frequency | 2010.2     | -0.010 (CI = +/-0.012; p = 0.106) | -0.015 (CI = +/-0.068; p = 0.656) | 0.060                   | -1.00%        |
| Frequency | 2011.1     | -0.008 (CI = +/-0.014; p = 0.227) | -0.009 (CI = +/-0.072; p = 0.801) | -0.024                  | -0.82%        |
| Frequency | 2011.2     | -0.001 (CI = +/-0.012; p = 0.803) | -0.028 (CI = +/-0.059; p = 0.329) | -0.061                  | -0.14%        |
| Frequency | 2012.1     | -0.004 (CI = +/-0.013; p = 0.493) | -0.036 (CI = +/-0.061; p = 0.224) | -0.003                  | -0.43%        |
| Frequency | 2012.2     | -0.007 (CI = +/-0.015; p = 0.345) | -0.030 (CI = +/-0.064; p = 0.324) | 0.002                   | -0.66%        |
| Frequency | 2013.1     | -0.003 (CI = +/-0.017; p = 0.676) | -0.022 (CI = +/-0.067; p = 0.493) | -0.119                  | -0.33%        |
| Frequency | 2013.2     | -0.004 (CI = +/-0.020; p = 0.698) | -0.021 (CI = +/-0.074; p = 0.538) | -0.136                  | -0.35%        |
| Frequency | 2014.1     | 0.005 (CI = +/-0.020; p = 0.560)  | -0.002 (CI = +/-0.068; p = 0.946) | -0.171                  | +0.53%        |
| Frequency | 2014.2     | 0.009 (CI = +/-0.023; p = 0.410)  | -0.008 (CI = +/-0.073; p = 0.798) | -0.133                  | +0.88%        |
| Frequency | 2015.1     | 0.017 (CI = +/-0.026; p = 0.179)  | 0.006 (CI = +/-0.076; p = 0.853)  | 0.025                   | +1.68%        |
| Frequency | 2015.2     | 0.021 (CI = +/-0.033; p = 0.172)  | 0.000 (CI = +/-0.086; p = 0.995)  | 0.048                   | +2.12%        |
| Frequency | 2016.1     | 0.025 (CI = +/-0.046; p = 0.227)  | 0.005 (CI = +/-0.105; p = 0.902)  | -0.010                  | +2.50%        |
| Frequency | 2016.2     | 0.000 (CI = +/-0.025; p = 0.965)  | 0.034 (CI = +/-0.051; p = 0.141)  | 0.185                   | +0.04%        |
| Frequency | 2017.1     | 0.002 (CI = +/-0.044; p = 0.868)  | 0.036 (CI = +/-0.075; p = 0.222)  | 0.080                   | +0.25%        |

## Collision

Coverage = CL

End Trend Period = 2019.1

Excluded Points = NA

Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R <sup>2</sup> | Implied Trend |
|-----------|------------|-----------------------------------|-----------------------------------|-------------------------|---------------|
|           |            |                                   |                                   |                         | Rate          |
| Loss Cost | 2005.2     | 0.019 (CI = +/-0.009; p = 0.000)  | -0.070 (CI = +/-0.070; p = 0.052) | 0.436                   | +1.89%        |
| Loss Cost | 2006.1     | 0.016 (CI = +/-0.009; p = 0.001)  | -0.081 (CI = +/-0.068; p = 0.021) | 0.420                   | +1.63%        |
| Loss Cost | 2006.2     | 0.014 (CI = +/-0.009; p = 0.004)  | -0.072 (CI = +/-0.068; p = 0.039) | 0.328                   | +1.41%        |
| Loss Cost | 2007.1     | 0.015 (CI = +/-0.010; p = 0.004)  | -0.068 (CI = +/-0.070; p = 0.057) | 0.336                   | +1.50%        |
| Loss Cost | 2007.2     | 0.017 (CI = +/-0.010; p = 0.002)  | -0.078 (CI = +/-0.071; p = 0.032) | 0.387                   | +1.74%        |
| Loss Cost | 2008.1     | 0.020 (CI = +/-0.011; p = 0.001)  | -0.068 (CI = +/-0.070; p = 0.057) | 0.439                   | +1.99%        |
| Loss Cost | 2008.2     | 0.024 (CI = +/-0.010; p = 0.000)  | -0.083 (CI = +/-0.066; p = 0.017) | 0.549                   | +2.40%        |
| Loss Cost | 2009.1     | 0.027 (CI = +/-0.011; p = 0.000)  | -0.072 (CI = +/-0.064; p = 0.031) | 0.615                   | +2.73%        |
| Loss Cost | 2009.2     | 0.030 (CI = +/-0.011; p = 0.000)  | -0.083 (CI = +/-0.063; p = 0.014) | 0.657                   | +3.06%        |
| Loss Cost | 2010.1     | 0.034 (CI = +/-0.011; p = 0.000)  | -0.072 (CI = +/-0.061; p = 0.025) | 0.714                   | +3.42%        |
| Loss Cost | 2010.2     | 0.031 (CI = +/-0.012; p = 0.000)  | -0.063 (CI = +/-0.063; p = 0.048) | 0.642                   | +3.15%        |
| Loss Cost | 2011.1     | 0.031 (CI = +/-0.014; p = 0.000)  | -0.063 (CI = +/-0.067; p = 0.065) | 0.620                   | +3.17%        |
| Loss Cost | 2011.2     | 0.037 (CI = +/-0.013; p = 0.000)  | -0.079 (CI = +/-0.062; p = 0.016) | 0.717                   | +3.77%        |
| Loss Cost | 2012.1     | 0.033 (CI = +/-0.014; p = 0.000)  | -0.088 (CI = +/-0.062; p = 0.009) | 0.703                   | +3.39%        |
| Loss Cost | 2012.2     | 0.029 (CI = +/-0.016; p = 0.002)  | -0.077 (CI = +/-0.063; p = 0.021) | 0.601                   | +2.92%        |
| Loss Cost | 2013.1     | 0.030 (CI = +/-0.018; p = 0.004)  | -0.074 (CI = +/-0.068; p = 0.037) | 0.596                   | +3.07%        |
| Loss Cost | 2013.2     | 0.028 (CI = +/-0.022; p = 0.018)  | -0.068 (CI = +/-0.075; p = 0.071) | 0.450                   | +2.81%        |
| Loss Cost | 2014.1     | 0.034 (CI = +/-0.024; p = 0.013)  | -0.057 (CI = +/-0.078; p = 0.128) | 0.522                   | +3.41%        |
| Loss Cost | 2014.2     | 0.035 (CI = +/-0.031; p = 0.033)  | -0.060 (CI = +/-0.090; p = 0.160) | 0.410                   | +3.56%        |
| Loss Cost | 2015.1     | 0.043 (CI = +/-0.037; p = 0.030)  | -0.048 (CI = +/-0.096; p = 0.271) | 0.484                   | +4.39%        |
| Loss Cost | 2015.2     | 0.052 (CI = +/-0.049; p = 0.042)  | -0.061 (CI = +/-0.113; p = 0.223) | 0.462                   | +5.32%        |
| Loss Cost | 2016.1     | 0.057 (CI = +/-0.070; p = 0.087)  | -0.055 (CI = +/-0.141; p = 0.338) | 0.415                   | +5.84%        |
| Loss Cost | 2016.2     | 0.017 (CI = +/-0.051; p = 0.365)  | -0.009 (CI = +/-0.087; p = 0.763) | -0.209                  | +1.73%        |
| Loss Cost | 2017.1     | 0.016 (CI = +/-0.107; p = 0.579)  | -0.010 (CI = +/-0.155; p = 0.812) | -0.597                  | +1.65%        |
|           |            |                                   |                                   |                         |               |
| Severity  | 2005.2     | 0.043 (CI = +/-0.006; p = 0.000)  | -0.047 (CI = +/-0.049; p = 0.056) | 0.891                   | +4.43%        |
| Severity  | 2006.1     | 0.041 (CI = +/-0.006; p = 0.000)  | -0.057 (CI = +/-0.045; p = 0.016) | 0.894                   | +4.20%        |
| Severity  | 2006.2     | 0.039 (CI = +/-0.005; p = 0.000)  | -0.045 (CI = +/-0.040; p = 0.029) | 0.898                   | +3.94%        |
| Severity  | 2007.1     | 0.036 (CI = +/-0.005; p = 0.000)  | -0.055 (CI = +/-0.036; p = 0.004) | 0.908                   | +3.70%        |
| Severity  | 2007.2     | 0.035 (CI = +/-0.005; p = 0.000)  | -0.048 (CI = +/-0.035; p = 0.009) | 0.902                   | +3.53%        |
| Severity  | 2008.1     | 0.034 (CI = +/-0.005; p = 0.000)  | -0.049 (CI = +/-0.036; p = 0.011) | 0.891                   | +3.51%        |
| Severity  | 2008.2     | 0.036 (CI = +/-0.006; p = 0.000)  | -0.055 (CI = +/-0.036; p = 0.004) | 0.897                   | +3.67%        |
| Severity  | 2009.1     | 0.039 (CI = +/-0.005; p = 0.000)  | -0.046 (CI = +/-0.030; p = 0.005) | 0.934                   | +3.96%        |
| Severity  | 2009.2     | 0.041 (CI = +/-0.005; p = 0.000)  | -0.053 (CI = +/-0.026; p = 0.000) | 0.951                   | +4.19%        |
| Severity  | 2010.1     | 0.042 (CI = +/-0.005; p = 0.000)  | -0.051 (CI = +/-0.027; p = 0.001) | 0.949                   | +4.27%        |
| Severity  | 2010.2     | 0.041 (CI = +/-0.006; p = 0.000)  | -0.050 (CI = +/-0.029; p = 0.002) | 0.937                   | +4.23%        |
| Severity  | 2011.1     | 0.040 (CI = +/-0.006; p = 0.000)  | -0.055 (CI = +/-0.028; p = 0.001) | 0.936                   | +4.04%        |
| Severity  | 2011.2     | 0.037 (CI = +/-0.006; p = 0.000)  | -0.048 (CI = +/-0.026; p = 0.002) | 0.932                   | +3.80%        |
| Severity  | 2012.1     | 0.037 (CI = +/-0.006; p = 0.000)  | -0.049 (CI = +/-0.028; p = 0.002) | 0.923                   | +3.73%        |
| Severity  | 2012.2     | 0.035 (CI = +/-0.007; p = 0.000)  | -0.045 (CI = +/-0.028; p = 0.005) | 0.903                   | +3.53%        |
| Severity  | 2013.1     | 0.032 (CI = +/-0.007; p = 0.000)  | -0.049 (CI = +/-0.028; p = 0.003) | 0.900                   | +3.30%        |
| Severity  | 2013.2     | 0.030 (CI = +/-0.008; p = 0.000)  | -0.044 (CI = +/-0.028; p = 0.006) | 0.869                   | +3.03%        |
| Severity  | 2014.1     | 0.026 (CI = +/-0.007; p = 0.000)  | -0.051 (CI = +/-0.023; p = 0.001) | 0.903                   | +2.64%        |
| Severity  | 2014.2     | 0.022 (CI = +/-0.006; p = 0.000)  | -0.043 (CI = +/-0.017; p = 0.000) | 0.916                   | +2.20%        |
| Severity  | 2015.1     | 0.020 (CI = +/-0.007; p = 0.000)  | -0.045 (CI = +/-0.018; p = 0.001) | 0.914                   | +2.07%        |
| Severity  | 2015.2     | 0.020 (CI = +/-0.010; p = 0.003)  | -0.045 (CI = +/-0.023; p = 0.004) | 0.855                   | +2.03%        |
| Severity  | 2016.1     | 0.019 (CI = +/-0.014; p = 0.020)  | -0.046 (CI = +/-0.029; p = 0.011) | 0.842                   | +1.94%        |
| Severity  | 2016.2     | 0.012 (CI = +/-0.015; p = 0.085)  | -0.038 (CI = +/-0.026; p = 0.020) | 0.800                   | +1.24%        |
| Severity  | 2017.1     | 0.008 (CI = +/-0.025; p = 0.295)  | -0.041 (CI = +/-0.036; p = 0.040) | 0.856                   | +0.82%        |
|           |            |                                   |                                   |                         |               |
| Frequency | 2005.2     | -0.025 (CI = +/-0.008; p = 0.000) | -0.022 (CI = +/-0.068; p = 0.499) | 0.570                   | -2.43%        |
| Frequency | 2006.1     | -0.025 (CI = +/-0.009; p = 0.000) | -0.025 (CI = +/-0.070; p = 0.475) | 0.548                   | -2.47%        |
| Frequency | 2006.2     | -0.025 (CI = +/-0.010; p = 0.000) | -0.026 (CI = +/-0.073; p = 0.464) | 0.515                   | -2.44%        |
| Frequency | 2007.1     | -0.021 (CI = +/-0.010; p = 0.000) | -0.013 (CI = +/-0.070; p = 0.700) | 0.447                   | -2.13%        |
| Frequency | 2007.2     | -0.018 (CI = +/-0.009; p = 0.001) | -0.030 (CI = +/-0.064; p = 0.345) | 0.398                   | -1.74%        |
| Frequency | 2008.1     | -0.015 (CI = +/-0.009; p = 0.004) | -0.019 (CI = +/-0.062; p = 0.529) | 0.297                   | -1.46%        |
| Frequency | 2008.2     | -0.012 (CI = +/-0.010; p = 0.016) | -0.028 (CI = +/-0.062; p = 0.359) | 0.232                   | -1.23%        |
| Frequency | 2009.1     | -0.012 (CI = +/-0.011; p = 0.033) | -0.026 (CI = +/-0.065; p = 0.412) | 0.169                   | -1.18%        |
| Frequency | 2009.2     | -0.011 (CI = +/-0.012; p = 0.071) | -0.029 (CI = +/-0.069; p = 0.382) | 0.131                   | -1.09%        |
| Frequency | 2010.1     | -0.008 (CI = +/-0.013; p = 0.192) | -0.021 (CI = +/-0.070; p = 0.541) | 0.013                   | -0.81%        |
| Frequency | 2010.2     | -0.010 (CI = +/-0.014; p = 0.138) | -0.014 (CI = +/-0.073; p = 0.696) | 0.043                   | -1.03%        |
| Frequency | 2011.1     | -0.008 (CI = +/-0.016; p = 0.269) | -0.008 (CI = +/-0.077; p = 0.825) | -0.041                  | -0.84%        |
| Frequency | 2011.2     | 0.000 (CI = +/-0.014; p = 0.973)  | -0.031 (CI = +/-0.063; p = 0.307) | -0.060                  | -0.02%        |
| Frequency | 2012.1     | -0.003 (CI = +/-0.015; p = 0.649) | -0.039 (CI = +/-0.065; p = 0.221) | -0.009                  | -0.32%        |
| Frequency | 2012.2     | -0.006 (CI = +/-0.017; p = 0.472) | -0.032 (CI = +/-0.070; p = 0.335) | -0.017                  | -0.59%        |
| Frequency | 2013.1     | -0.002 (CI = +/-0.020; p = 0.811) | -0.024 (CI = +/-0.073; p = 0.483) | -0.133                  | -0.22%        |
| Frequency | 2013.2     | -0.002 (CI = +/-0.024; p = 0.841) | -0.024 (CI = +/-0.082; p = 0.527) | -0.155                  | -0.22%        |
| Frequency | 2014.1     | 0.008 (CI = +/-0.024; p = 0.484)  | -0.006 (CI = +/-0.075; p = 0.853) | -0.166                  | +0.75%        |
| Frequency | 2014.2     | 0.013 (CI = +/-0.029; p = 0.316)  | -0.017 (CI = +/-0.083; p = 0.650) | -0.091                  | +1.32%        |
| Frequency | 2015.1     | 0.022 (CI = +/-0.032; p = 0.137)  | -0.003 (CI = +/-0.083; p = 0.943) | 0.105                   | +2.27%        |
| Frequency | 2015.2     | 0.032 (CI = +/-0.041; p = 0.105)  | -0.016 (CI = +/-0.095; p = 0.673) | 0.214                   | +3.23%        |
| Frequency | 2016.1     | 0.038 (CI = +/-0.058; p = 0.146)  | -0.010 (CI = +/-0.117; p = 0.828) | 0.179                   | +3.82%        |
| Frequency | 2016.2     | 0.005 (CI = +/-0.042; p = 0.742)  | 0.028 (CI = +/-0.072; p = 0.299)  | 0.030                   | +0.48%        |
| Frequency | 2017.1     | 0.008 (CI = +/-0.087; p = 0.726)  | 0.031 (CI = +/-0.126; p = 0.396)  | -0.209                  | +0.82%        |

**Collision**

Coverage = CL

End Trend Period = 2019.2

Excluded Points = NA

Parameters Included: time

| Fit       | Start Date | Time                              | Adjusted R <sup>2</sup> | Implied Trend Rate |
|-----------|------------|-----------------------------------|-------------------------|--------------------|
| Loss Cost | 2005.2     | 0.018 (CI = +/-0.009; p = 0.000)  | 0.382                   | +1.80%             |
| Loss Cost | 2006.1     | 0.016 (CI = +/-0.009; p = 0.001)  | 0.318                   | +1.60%             |
| Loss Cost | 2006.2     | 0.013 (CI = +/-0.009; p = 0.005)  | 0.242                   | +1.33%             |
| Loss Cost | 2007.1     | 0.015 (CI = +/-0.010; p = 0.004)  | 0.267                   | +1.48%             |
| Loss Cost | 2007.2     | 0.016 (CI = +/-0.010; p = 0.003)  | 0.286                   | +1.61%             |
| Loss Cost | 2008.1     | 0.019 (CI = +/-0.010; p = 0.001)  | 0.371                   | +1.92%             |
| Loss Cost | 2008.2     | 0.022 (CI = +/-0.011; p = 0.000)  | 0.426                   | +2.19%             |
| Loss Cost | 2009.1     | 0.025 (CI = +/-0.011; p = 0.000)  | 0.525                   | +2.58%             |
| Loss Cost | 2009.2     | 0.027 (CI = +/-0.012; p = 0.000)  | 0.528                   | +2.74%             |
| Loss Cost | 2010.1     | 0.031 (CI = +/-0.012; p = 0.000)  | 0.613                   | +3.17%             |
| Loss Cost | 2010.2     | 0.028 (CI = +/-0.012; p = 0.000)  | 0.548                   | +2.79%             |
| Loss Cost | 2011.1     | 0.029 (CI = +/-0.014; p = 0.000)  | 0.525                   | +2.89%             |
| Loss Cost | 2011.2     | 0.032 (CI = +/-0.015; p = 0.000)  | 0.555                   | +3.22%             |
| Loss Cost | 2012.1     | 0.030 (CI = +/-0.017; p = 0.002)  | 0.477                   | +3.01%             |
| Loss Cost | 2012.2     | 0.023 (CI = +/-0.017; p = 0.010)  | 0.363                   | +2.34%             |
| Loss Cost | 2013.1     | 0.026 (CI = +/-0.019; p = 0.012)  | 0.377                   | +2.63%             |
| Loss Cost | 2013.2     | 0.021 (CI = +/-0.021; p = 0.053)  | 0.236                   | +2.09%             |
| Loss Cost | 2014.1     | 0.027 (CI = +/-0.023; p = 0.025)  | 0.350                   | +2.76%             |
| Loss Cost | 2014.2     | 0.024 (CI = +/-0.028; p = 0.079)  | 0.226                   | +2.46%             |
| Loss Cost | 2015.1     | 0.032 (CI = +/-0.032; p = 0.050)  | 0.324                   | +3.27%             |
| Loss Cost | 2015.2     | 0.032 (CI = +/-0.041; p = 0.108)  | 0.230                   | +3.27%             |
| Loss Cost | 2016.1     | 0.037 (CI = +/-0.055; p = 0.151)  | 0.196                   | +3.74%             |
| Loss Cost | 2016.2     | 0.002 (CI = +/-0.032; p = 0.902)  | -0.196                  | +0.16%             |
| Loss Cost | 2017.1     | -0.003 (CI = +/-0.048; p = 0.892) | -0.243                  | -0.25%             |
| Severity  | 2005.2     | 0.041 (CI = +/-0.006; p = 0.000)  | 0.873                   | +4.24%             |
| Severity  | 2006.1     | 0.040 (CI = +/-0.006; p = 0.000)  | 0.865                   | +4.05%             |
| Severity  | 2006.2     | 0.037 (CI = +/-0.006; p = 0.000)  | 0.875                   | +3.76%             |
| Severity  | 2007.1     | 0.035 (CI = +/-0.006; p = 0.000)  | 0.869                   | +3.57%             |
| Severity  | 2007.2     | 0.033 (CI = +/-0.005; p = 0.000)  | 0.866                   | +3.35%             |
| Severity  | 2008.1     | 0.033 (CI = +/-0.006; p = 0.000)  | 0.852                   | +3.37%             |
| Severity  | 2008.2     | 0.034 (CI = +/-0.006; p = 0.000)  | 0.843                   | +3.44%             |
| Severity  | 2009.1     | 0.037 (CI = +/-0.006; p = 0.000)  | 0.888                   | +3.75%             |
| Severity  | 2009.2     | 0.038 (CI = +/-0.006; p = 0.000)  | 0.885                   | +3.86%             |
| Severity  | 2010.1     | 0.039 (CI = +/-0.007; p = 0.000)  | 0.881                   | +3.98%             |
| Severity  | 2010.2     | 0.038 (CI = +/-0.007; p = 0.000)  | 0.863                   | +3.83%             |
| Severity  | 2011.1     | 0.037 (CI = +/-0.008; p = 0.000)  | 0.838                   | +3.72%             |
| Severity  | 2011.2     | 0.033 (CI = +/-0.008; p = 0.000)  | 0.829                   | +3.36%             |
| Severity  | 2012.1     | 0.033 (CI = +/-0.009; p = 0.000)  | 0.801                   | +3.37%             |
| Severity  | 2012.2     | 0.030 (CI = +/-0.009; p = 0.000)  | 0.770                   | +3.02%             |
| Severity  | 2013.1     | 0.029 (CI = +/-0.011; p = 0.000)  | 0.716                   | +2.90%             |
| Severity  | 2013.2     | 0.024 (CI = +/-0.011; p = 0.000)  | 0.658                   | +2.45%             |
| Severity  | 2014.1     | 0.022 (CI = +/-0.013; p = 0.003)  | 0.564                   | +2.21%             |
| Severity  | 2014.2     | 0.016 (CI = +/-0.012; p = 0.014)  | 0.452                   | +1.57%             |
| Severity  | 2015.1     | 0.016 (CI = +/-0.014; p = 0.035)  | 0.377                   | +1.60%             |
| Severity  | 2015.2     | 0.011 (CI = +/-0.017; p = 0.157)  | 0.159                   | +1.13%             |
| Severity  | 2016.1     | 0.013 (CI = +/-0.022; p = 0.215)  | 0.116                   | +1.27%             |
| Severity  | 2016.2     | 0.001 (CI = +/-0.022; p = 0.892)  | -0.195                  | +0.12%             |
| Severity  | 2017.1     | 0.001 (CI = +/-0.033; p = 0.926)  | -0.247                  | +0.12%             |
| Frequency | 2005.2     | -0.024 (CI = +/-0.008; p = 0.000) | 0.577                   | -2.34%             |
| Frequency | 2006.1     | -0.024 (CI = +/-0.008; p = 0.000) | 0.554                   | -2.36%             |
| Frequency | 2006.2     | -0.024 (CI = +/-0.009; p = 0.000) | 0.521                   | -2.34%             |
| Frequency | 2007.1     | -0.020 (CI = +/-0.009; p = 0.000) | 0.467                   | -2.02%             |
| Frequency | 2007.2     | -0.017 (CI = +/-0.008; p = 0.000) | 0.403                   | -1.68%             |
| Frequency | 2008.1     | -0.014 (CI = +/-0.008; p = 0.002) | 0.324                   | -1.40%             |
| Frequency | 2008.2     | -0.012 (CI = +/-0.009; p = 0.009) | 0.246                   | -1.21%             |
| Frequency | 2009.1     | -0.011 (CI = +/-0.010; p = 0.024) | 0.192                   | -1.13%             |
| Frequency | 2009.2     | -0.011 (CI = +/-0.011; p = 0.046) | 0.150                   | -1.08%             |
| Frequency | 2010.1     | -0.008 (CI = +/-0.011; p = 0.154) | 0.060                   | -0.79%             |
| Frequency | 2010.2     | -0.010 (CI = +/-0.012; p = 0.097) | 0.104                   | -1.00%             |
| Frequency | 2011.1     | -0.008 (CI = +/-0.013; p = 0.219) | 0.036                   | -0.80%             |
| Frequency | 2011.2     | -0.001 (CI = +/-0.012; p = 0.803) | -0.062                  | -0.14%             |
| Frequency | 2012.1     | -0.003 (CI = +/-0.013; p = 0.585) | -0.048                  | -0.35%             |
| Frequency | 2012.2     | -0.007 (CI = +/-0.015; p = 0.345) | -0.003                  | -0.66%             |
| Frequency | 2013.1     | -0.003 (CI = +/-0.016; p = 0.731) | -0.072                  | -0.26%             |
| Frequency | 2013.2     | -0.004 (CI = +/-0.019; p = 0.689) | -0.074                  | -0.35%             |
| Frequency | 2014.1     | 0.005 (CI = +/-0.018; p = 0.527)  | -0.055                  | +0.54%             |
| Frequency | 2014.2     | 0.009 (CI = +/-0.021; p = 0.382)  | -0.016                  | +0.88%             |
| Frequency | 2015.1     | 0.016 (CI = +/-0.024; p = 0.153)  | 0.143                   | +1.64%             |
| Frequency | 2015.2     | 0.021 (CI = +/-0.030; p = 0.138)  | 0.184                   | +2.12%             |
| Frequency | 2016.1     | 0.024 (CI = +/-0.039; p = 0.181)  | 0.155                   | +2.44%             |
| Frequency | 2016.2     | 0.000 (CI = +/-0.028; p = 0.971)  | -0.200                  | +0.04%             |
| Frequency | 2017.1     | -0.004 (CI = +/-0.042; p = 0.820) | -0.232                  | -0.37%             |

## Collision

Coverage = CL

End Trend Period = 2019.1

Excluded Points = NA

Parameters Included: time

| Fit       | Start Date | Time                              | Adjusted R <sup>2</sup> | Implied Trend Rate |
|-----------|------------|-----------------------------------|-------------------------|--------------------|
| Loss Cost | 2005.2     | 0.018 (CI = +/-0.009; p = 0.000)  | 0.367                   | +1.84%             |
| Loss Cost | 2006.1     | 0.016 (CI = +/-0.010; p = 0.002)  | 0.300                   | +1.63%             |
| Loss Cost | 2006.2     | 0.013 (CI = +/-0.010; p = 0.009)  | 0.222                   | +1.34%             |
| Loss Cost | 2007.1     | 0.015 (CI = +/-0.010; p = 0.007)  | 0.248                   | +1.50%             |
| Loss Cost | 2007.2     | 0.016 (CI = +/-0.011; p = 0.006)  | 0.268                   | +1.65%             |
| Loss Cost | 2008.1     | 0.020 (CI = +/-0.011; p = 0.002)  | 0.357                   | +1.99%             |
| Loss Cost | 2008.2     | 0.023 (CI = +/-0.012; p = 0.001)  | 0.417                   | +2.29%             |
| Loss Cost | 2009.1     | 0.027 (CI = +/-0.012; p = 0.000)  | 0.524                   | +2.73%             |
| Loss Cost | 2009.2     | 0.029 (CI = +/-0.013; p = 0.000)  | 0.532                   | +2.93%             |
| Loss Cost | 2010.1     | 0.034 (CI = +/-0.013; p = 0.000)  | 0.627                   | +3.42%             |
| Loss Cost | 2010.2     | 0.030 (CI = +/-0.013; p = 0.000)  | 0.561                   | +3.03%             |
| Loss Cost | 2011.1     | 0.031 (CI = +/-0.015; p = 0.000)  | 0.543                   | +3.17%             |
| Loss Cost | 2011.2     | 0.035 (CI = +/-0.016; p = 0.000)  | 0.583                   | +3.58%             |
| Loss Cost | 2012.1     | 0.033 (CI = +/-0.018; p = 0.002)  | 0.508                   | +3.39%             |
| Loss Cost | 2012.2     | 0.026 (CI = +/-0.019; p = 0.010)  | 0.391                   | +2.68%             |
| Loss Cost | 2013.1     | 0.030 (CI = +/-0.021; p = 0.010)  | 0.419                   | +3.07%             |
| Loss Cost | 2013.2     | 0.025 (CI = +/-0.024; p = 0.046)  | 0.275                   | +2.51%             |
| Loss Cost | 2014.1     | 0.034 (CI = +/-0.026; p = 0.018)  | 0.422                   | +3.41%             |
| Loss Cost | 2014.2     | 0.031 (CI = +/-0.033; p = 0.058)  | 0.301                   | +3.18%             |
| Loss Cost | 2015.1     | 0.043 (CI = +/-0.037; p = 0.029)  | 0.450                   | +4.39%             |
| Loss Cost | 2015.2     | 0.046 (CI = +/-0.049; p = 0.062)  | 0.378                   | +4.71%             |
| Loss Cost | 2016.1     | 0.057 (CI = +/-0.066; p = 0.078)  | 0.394                   | +5.84%             |
| Loss Cost | 2016.2     | 0.016 (CI = +/-0.038; p = 0.315)  | 0.060                   | +1.57%             |
| Loss Cost | 2017.1     | 0.016 (CI = +/-0.066; p = 0.488)  | -0.104                  | +1.65%             |
| Severity  | 2005.2     | 0.043 (CI = +/-0.006; p = 0.000)  | 0.878                   | +4.39%             |
| Severity  | 2006.1     | 0.041 (CI = +/-0.006; p = 0.000)  | 0.870                   | +4.20%             |
| Severity  | 2006.2     | 0.038 (CI = +/-0.006; p = 0.000)  | 0.879                   | +3.90%             |
| Severity  | 2007.1     | 0.036 (CI = +/-0.006; p = 0.000)  | 0.872                   | +3.70%             |
| Severity  | 2007.2     | 0.034 (CI = +/-0.006; p = 0.000)  | 0.869                   | +3.48%             |
| Severity  | 2008.1     | 0.034 (CI = +/-0.006; p = 0.000)  | 0.855                   | +3.51%             |
| Severity  | 2008.2     | 0.035 (CI = +/-0.007; p = 0.000)  | 0.848                   | +3.60%             |
| Severity  | 2009.1     | 0.039 (CI = +/-0.006; p = 0.000)  | 0.902                   | +3.96%             |
| Severity  | 2009.2     | 0.040 (CI = +/-0.006; p = 0.000)  | 0.903                   | +4.11%             |
| Severity  | 2010.1     | 0.042 (CI = +/-0.007; p = 0.000)  | 0.904                   | +4.27%             |
| Severity  | 2010.2     | 0.040 (CI = +/-0.007; p = 0.000)  | 0.888                   | +4.13%             |
| Severity  | 2011.1     | 0.040 (CI = +/-0.008; p = 0.000)  | 0.867                   | +4.04%             |
| Severity  | 2011.2     | 0.036 (CI = +/-0.008; p = 0.000)  | 0.861                   | +3.68%             |
| Severity  | 2012.1     | 0.037 (CI = +/-0.009; p = 0.000)  | 0.839                   | +3.73%             |
| Severity  | 2012.2     | 0.033 (CI = +/-0.010; p = 0.000)  | 0.813                   | +3.39%             |
| Severity  | 2013.1     | 0.032 (CI = +/-0.011; p = 0.000)  | 0.767                   | +3.30%             |
| Severity  | 2013.2     | 0.028 (CI = +/-0.012; p = 0.000)  | 0.717                   | +2.84%             |
| Severity  | 2014.1     | 0.026 (CI = +/-0.014; p = 0.002)  | 0.632                   | +2.64%             |
| Severity  | 2014.2     | 0.019 (CI = +/-0.013; p = 0.010)  | 0.534                   | +1.94%             |
| Severity  | 2015.1     | 0.020 (CI = +/-0.017; p = 0.023)  | 0.479                   | +2.07%             |
| Severity  | 2015.2     | 0.016 (CI = +/-0.021; p = 0.111)  | 0.263                   | +1.60%             |
| Severity  | 2016.1     | 0.019 (CI = +/-0.028; p = 0.143)  | 0.251                   | +1.94%             |
| Severity  | 2016.2     | 0.006 (CI = +/-0.031; p = 0.628)  | -0.170                  | +0.59%             |
| Severity  | 2017.1     | 0.008 (CI = +/-0.054; p = 0.664)  | -0.238                  | +0.82%             |
| Frequency | 2005.2     | -0.025 (CI = +/-0.008; p = 0.000) | 0.579                   | -2.44%             |
| Frequency | 2006.1     | -0.025 (CI = +/-0.009; p = 0.000) | 0.557                   | -2.47%             |
| Frequency | 2006.2     | -0.025 (CI = +/-0.010; p = 0.000) | 0.524                   | -2.46%             |
| Frequency | 2007.1     | -0.021 (CI = +/-0.009; p = 0.000) | 0.467                   | -2.13%             |
| Frequency | 2007.2     | -0.018 (CI = +/-0.009; p = 0.001) | 0.400                   | -1.77%             |
| Frequency | 2008.1     | -0.015 (CI = +/-0.009; p = 0.003) | 0.317                   | -1.46%             |
| Frequency | 2008.2     | -0.013 (CI = +/-0.010; p = 0.013) | 0.236                   | -1.27%             |
| Frequency | 2009.1     | -0.012 (CI = +/-0.011; p = 0.031) | 0.182                   | -1.18%             |
| Frequency | 2009.2     | -0.011 (CI = +/-0.012; p = 0.058) | 0.140                   | -1.13%             |
| Frequency | 2010.1     | -0.008 (CI = +/-0.012; p = 0.184) | 0.049                   | -0.81%             |
| Frequency | 2010.2     | -0.011 (CI = +/-0.014; p = 0.117) | 0.093                   | -1.06%             |
| Frequency | 2011.1     | -0.008 (CI = +/-0.015; p = 0.253) | 0.025                   | -0.84%             |
| Frequency | 2011.2     | -0.001 (CI = +/-0.014; p = 0.882) | -0.070                  | -0.10%             |
| Frequency | 2012.1     | -0.003 (CI = +/-0.015; p = 0.657) | -0.060                  | -0.32%             |
| Frequency | 2012.2     | -0.007 (CI = +/-0.017; p = 0.398) | -0.018                  | -0.69%             |
| Frequency | 2013.1     | -0.002 (CI = +/-0.019; p = 0.806) | -0.085                  | -0.22%             |
| Frequency | 2013.2     | -0.003 (CI = +/-0.023; p = 0.760) | -0.089                  | -0.32%             |
| Frequency | 2014.1     | 0.008 (CI = +/-0.022; p = 0.457)  | -0.041                  | +0.75%             |
| Frequency | 2014.2     | 0.012 (CI = +/-0.026; p = 0.317)  | 0.015                   | +1.22%             |
| Frequency | 2015.1     | 0.022 (CI = +/-0.029; p = 0.107)  | 0.232                   | +2.27%             |
| Frequency | 2015.2     | 0.030 (CI = +/-0.036; p = 0.084)  | 0.319                   | +3.07%             |
| Frequency | 2016.1     | 0.038 (CI = +/-0.048; p = 0.101)  | 0.334                   | +3.82%             |
| Frequency | 2016.2     | 0.010 (CI = +/-0.038; p = 0.515)  | -0.109                  | +0.97%             |
| Frequency | 2017.1     | 0.008 (CI = +/-0.066; p = 0.720)  | -0.268                  | +0.82%             |



**All Perils**

Coverage = AP  
 End Trend Period = 2022.1  
 Excluded Points = NA  
 Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R^2 | Implied Trend Rate |
|-----------|------------|-----------------------------------|-----------------------------------|--------------|--------------------|
| Loss Cost | 2003.1     | 0.040 (CI = +/-0.013; p = 0.000)  | -0.277 (CI = +/-0.144; p = 0.000) | 0.579        | +4.04%             |
| Loss Cost | 2003.2     | 0.038 (CI = +/-0.013; p = 0.000)  | -0.269 (CI = +/-0.148; p = 0.001) | 0.539        | +3.91%             |
| Loss Cost | 2004.1     | 0.035 (CI = +/-0.014; p = 0.000)  | -0.289 (CI = +/-0.145; p = 0.000) | 0.538        | +3.57%             |
| Loss Cost | 2004.2     | 0.032 (CI = +/-0.014; p = 0.000)  | -0.272 (CI = +/-0.145; p = 0.001) | 0.485        | +3.28%             |
| Loss Cost | 2005.1     | 0.029 (CI = +/-0.014; p = 0.000)  | -0.291 (CI = +/-0.144; p = 0.000) | 0.487        | +2.96%             |
| Loss Cost | 2005.2     | 0.029 (CI = +/-0.015; p = 0.001)  | -0.289 (CI = +/-0.149; p = 0.000) | 0.452        | +2.92%             |
| Loss Cost | 2006.1     | 0.025 (CI = +/-0.015; p = 0.002)  | -0.309 (CI = +/-0.147; p = 0.000) | 0.464        | +2.54%             |
| Loss Cost | 2006.2     | 0.022 (CI = +/-0.016; p = 0.009)  | -0.293 (CI = +/-0.148; p = 0.000) | 0.407        | +2.23%             |
| Loss Cost | 2007.1     | 0.018 (CI = +/-0.016; p = 0.033)  | -0.316 (CI = +/-0.144; p = 0.000) | 0.437        | +1.78%             |
| Loss Cost | 2007.2     | 0.016 (CI = +/-0.017; p = 0.070)  | -0.306 (CI = +/-0.148; p = 0.000) | 0.392        | +1.58%             |
| Loss Cost | 2008.1     | 0.012 (CI = +/-0.018; p = 0.168)  | -0.322 (CI = +/-0.148; p = 0.000) | 0.416        | +1.23%             |
| Loss Cost | 2008.2     | 0.008 (CI = +/-0.018; p = 0.376)  | -0.302 (CI = +/-0.148; p = 0.000) | 0.372        | +0.81%             |
| Loss Cost | 2009.1     | 0.004 (CI = +/-0.019; p = 0.704)  | -0.322 (CI = +/-0.147; p = 0.000) | 0.417        | +0.35%             |
| Loss Cost | 2009.2     | 0.003 (CI = +/-0.020; p = 0.757)  | -0.320 (CI = +/-0.154; p = 0.000) | 0.399        | +0.31%             |
| Loss Cost | 2010.1     | -0.003 (CI = +/-0.021; p = 0.765) | -0.346 (CI = +/-0.149; p = 0.000) | 0.470        | -0.30%             |
| Loss Cost | 2010.2     | -0.007 (CI = +/-0.022; p = 0.485) | -0.327 (CI = +/-0.151; p = 0.000) | 0.458        | -0.74%             |
| Loss Cost | 2011.1     | -0.006 (CI = +/-0.024; p = 0.610) | -0.321 (CI = +/-0.158; p = 0.000) | 0.427        | -0.59%             |
| Loss Cost | 2011.2     | -0.009 (CI = +/-0.026; p = 0.479) | -0.310 (CI = +/-0.164; p = 0.001) | 0.411        | -0.89%             |
| Loss Cost | 2012.1     | -0.013 (CI = +/-0.028; p = 0.338) | -0.324 (CI = +/-0.169; p = 0.001) | 0.431        | -1.30%             |
| Loss Cost | 2012.2     | -0.025 (CI = +/-0.027; p = 0.073) | -0.284 (CI = +/-0.156; p = 0.001) | 0.484        | -2.42%             |
| Loss Cost | 2013.1     | -0.024 (CI = +/-0.030; p = 0.105) | -0.284 (CI = +/-0.165; p = 0.002) | 0.440        | -2.41%             |
| Loss Cost | 2013.2     | -0.017 (CI = +/-0.032; p = 0.291) | -0.309 (CI = +/-0.168; p = 0.001) | 0.477        | -1.65%             |
| Loss Cost | 2014.1     | -0.020 (CI = +/-0.036; p = 0.248) | -0.319 (CI = +/-0.178; p = 0.002) | 0.472        | -2.01%             |
| Loss Cost | 2014.2     | -0.027 (CI = +/-0.040; p = 0.169) | -0.299 (CI = +/-0.187; p = 0.004) | 0.472        | -2.69%             |
| Loss Cost | 2015.1     | -0.027 (CI = +/-0.047; p = 0.234) | -0.298 (CI = +/-0.202; p = 0.007) | 0.416        | -2.64%             |
| Loss Cost | 2015.2     | -0.039 (CI = +/-0.052; p = 0.122) | -0.267 (CI = +/-0.208; p = 0.017) | 0.438        | -3.86%             |
| Loss Cost | 2016.1     | -0.048 (CI = +/-0.059; p = 0.102) | -0.285 (CI = +/-0.222; p = 0.017) | 0.439        | -4.67%             |
| Loss Cost | 2016.2     | -0.066 (CI = +/-0.066; p = 0.051) | -0.246 (CI = +/-0.229; p = 0.038) | 0.496        | -6.40%             |
| Loss Cost | 2017.1     | -0.060 (CI = +/-0.080; p = 0.124) | -0.234 (CI = +/-0.254; p = 0.067) | 0.352        | -5.79%             |
| Severity  | 2003.1     | 0.064 (CI = +/-0.015; p = 0.000)  | -0.068 (CI = +/-0.164; p = 0.407) | 0.675        | +6.63%             |
| Severity  | 2003.2     | 0.067 (CI = +/-0.015; p = 0.000)  | -0.083 (CI = +/-0.166; p = 0.319) | 0.679        | +6.88%             |
| Severity  | 2004.1     | 0.068 (CI = +/-0.016; p = 0.000)  | -0.072 (CI = +/-0.169; p = 0.395) | 0.678        | +7.07%             |
| Severity  | 2004.2     | 0.070 (CI = +/-0.017; p = 0.000)  | -0.081 (CI = +/-0.173; p = 0.349) | 0.670        | +7.23%             |
| Severity  | 2005.1     | 0.071 (CI = +/-0.018; p = 0.000)  | -0.071 (CI = +/-0.177; p = 0.417) | 0.665        | +7.40%             |
| Severity  | 2005.2     | 0.073 (CI = +/-0.018; p = 0.000)  | -0.082 (CI = +/-0.181; p = 0.361) | 0.658        | +7.60%             |
| Severity  | 2006.1     | 0.074 (CI = +/-0.020; p = 0.000)  | -0.078 (CI = +/-0.187; p = 0.401) | 0.645        | +7.68%             |
| Severity  | 2006.2     | 0.074 (CI = +/-0.021; p = 0.000)  | -0.080 (CI = +/-0.194; p = 0.403) | 0.622        | +7.73%             |
| Severity  | 2007.1     | 0.075 (CI = +/-0.022; p = 0.000)  | -0.078 (CI = +/-0.200; p = 0.430) | 0.603        | +7.77%             |
| Severity  | 2007.2     | 0.076 (CI = +/-0.024; p = 0.000)  | -0.084 (CI = +/-0.207; p = 0.411) | 0.583        | +7.90%             |
| Severity  | 2008.1     | 0.079 (CI = +/-0.025; p = 0.000)  | -0.071 (CI = +/-0.213; p = 0.497) | 0.581        | +8.19%             |
| Severity  | 2008.2     | 0.082 (CI = +/-0.027; p = 0.000)  | -0.087 (CI = +/-0.219; p = 0.419) | 0.578        | +8.55%             |
| Severity  | 2009.1     | 0.090 (CI = +/-0.027; p = 0.000)  | -0.052 (CI = +/-0.213; p = 0.620) | 0.632        | +9.42%             |
| Severity  | 2009.2     | 0.105 (CI = +/-0.023; p = 0.000)  | -0.118 (CI = +/-0.171; p = 0.168) | 0.780        | +11.03%            |
| Severity  | 2010.1     | 0.117 (CI = +/-0.019; p = 0.000)  | -0.068 (CI = +/-0.135; p = 0.308) | 0.874        | +12.36%            |
| Severity  | 2010.2     | 0.126 (CI = +/-0.016; p = 0.000)  | -0.106 (CI = +/-0.114; p = 0.066) | 0.916        | +13.41%            |
| Severity  | 2011.1     | 0.133 (CI = +/-0.015; p = 0.000)  | -0.080 (CI = +/-0.102; p = 0.117) | 0.936        | +14.18%            |
| Severity  | 2011.2     | 0.133 (CI = +/-0.017; p = 0.000)  | -0.083 (CI = +/-0.108; p = 0.123) | 0.928        | +14.27%            |
| Severity  | 2012.1     | 0.134 (CI = +/-0.019; p = 0.000)  | -0.081 (CI = +/-0.113; p = 0.150) | 0.919        | +14.33%            |
| Severity  | 2012.2     | 0.127 (CI = +/-0.019; p = 0.000)  | -0.058 (CI = +/-0.109; p = 0.277) | 0.914        | +13.58%            |
| Severity  | 2013.1     | 0.129 (CI = +/-0.021; p = 0.000)  | -0.054 (CI = +/-0.115; p = 0.334) | 0.903        | +13.72%            |
| Severity  | 2013.2     | 0.136 (CI = +/-0.021; p = 0.000)  | -0.077 (CI = +/-0.111; p = 0.159) | 0.914        | +14.56%            |
| Severity  | 2014.1     | 0.133 (CI = +/-0.024; p = 0.000)  | -0.086 (CI = +/-0.117; p = 0.136) | 0.900        | +14.20%            |
| Severity  | 2014.2     | 0.129 (CI = +/-0.027; p = 0.000)  | -0.076 (CI = +/-0.124; p = 0.207) | 0.876        | +13.82%            |
| Severity  | 2015.1     | 0.139 (CI = +/-0.027; p = 0.000)  | -0.051 (CI = +/-0.116; p = 0.355) | 0.901        | +14.96%            |
| Severity  | 2015.2     | 0.139 (CI = +/-0.032; p = 0.000)  | -0.050 (CI = +/-0.128; p = 0.407) | 0.876        | +14.90%            |
| Severity  | 2016.1     | 0.145 (CI = +/-0.036; p = 0.000)  | -0.038 (CI = +/-0.135; p = 0.550) | 0.867        | +15.57%            |
| Severity  | 2016.2     | 0.138 (CI = +/-0.043; p = 0.000)  | -0.022 (CI = +/-0.147; p = 0.741) | 0.825        | +14.75%            |
| Severity  | 2017.1     | 0.131 (CI = +/-0.051; p = 0.000)  | -0.033 (CI = +/-0.161; p = 0.646) | 0.772        | +14.04%            |
| Frequency | 2003.1     | -0.025 (CI = +/-0.022; p = 0.031) | -0.209 (CI = +/-0.251; p = 0.099) | 0.134        | -2.44%             |
| Frequency | 2003.2     | -0.028 (CI = +/-0.023; p = 0.018) | -0.187 (CI = +/-0.254; p = 0.145) | 0.153        | -2.78%             |
| Frequency | 2004.1     | -0.033 (CI = +/-0.024; p = 0.007) | -0.218 (CI = +/-0.252; p = 0.088) | 0.205        | -3.27%             |
| Frequency | 2004.2     | -0.037 (CI = +/-0.024; p = 0.004) | -0.192 (CI = +/-0.254; p = 0.134) | 0.232        | -3.68%             |
| Frequency | 2005.1     | -0.042 (CI = +/-0.025; p = 0.002) | -0.219 (CI = +/-0.254; p = 0.088) | 0.273        | -4.14%             |
| Frequency | 2005.2     | -0.044 (CI = +/-0.027; p = 0.002) | -0.207 (CI = +/-0.261; p = 0.117) | 0.279        | -4.35%             |
| Frequency | 2006.1     | -0.049 (CI = +/-0.028; p = 0.001) | -0.231 (CI = +/-0.264; p = 0.083) | 0.308        | -4.78%             |
| Frequency | 2006.2     | -0.052 (CI = +/-0.029; p = 0.001) | -0.212 (CI = +/-0.270; p = 0.119) | 0.321        | -5.10%             |
| Frequency | 2007.1     | -0.057 (CI = +/-0.031; p = 0.001) | -0.237 (CI = +/-0.274; p = 0.087) | 0.345        | -5.56%             |
| Frequency | 2007.2     | -0.060 (CI = +/-0.033; p = 0.001) | -0.221 (CI = +/-0.282; p = 0.119) | 0.353        | -5.86%             |
| Frequency | 2008.1     | -0.066 (CI = +/-0.034; p = 0.000) | -0.251 (CI = +/-0.285; p = 0.082) | 0.384        | -6.43%             |
| Frequency | 2008.2     | -0.074 (CI = +/-0.035; p = 0.000) | -0.214 (CI = +/-0.286; p = 0.135) | 0.423        | -7.13%             |
| Frequency | 2009.1     | -0.086 (CI = +/-0.034; p = 0.000) | -0.270 (CI = +/-0.268; p = 0.048) | 0.530        | -8.28%             |
| Frequency | 2009.2     | -0.102 (CI = +/-0.032; p = 0.000) | -0.203 (CI = +/-0.239; p = 0.093) | 0.649        | -9.65%             |
| Frequency | 2010.1     | -0.120 (CI = +/-0.024; p = 0.000) | -0.278 (CI = +/-0.176; p = 0.004) | 0.823        | -11.27%            |
| Frequency | 2010.2     | -0.133 (CI = +/-0.020; p = 0.000) | -0.221 (CI = +/-0.138; p = 0.003) | 0.902        | -12.48%            |
| Frequency | 2011.1     | -0.139 (CI = +/-0.020; p = 0.000) | -0.241 (CI = +/-0.136; p = 0.001) | 0.906        | -12.94%            |
| Frequency | 2011.2     | -0.142 (CI = +/-0.022; p = 0.000) | -0.227 (CI = +/-0.140; p = 0.003) | 0.905        | -13.26%            |
| Frequency | 2012.1     | -0.147 (CI = +/-0.023; p = 0.000) | -0.243 (CI = +/-0.142; p = 0.002) | 0.903        | -13.67%            |
| Frequency | 2012.2     | -0.152 (CI = +/-0.025; p = 0.000) | -0.226 (CI = +/-0.146; p = 0.004) | 0.904        | -14.09%            |
| Frequency | 2013.1     | -0.153 (CI = +/-0.028; p = 0.000) | -0.230 (CI = +/-0.154; p = 0.006) | 0.887        | -14.19%            |
| Frequency | 2013.2     | -0.153 (CI = +/-0.032; p = 0.000) | -0.231 (CI = +/-0.165; p = 0.009) | 0.874        | -14.15%            |
| Frequency | 2014.1     | -0.153 (CI = +/-0.036; p = 0.000) | -0.233 (CI = +/-0.176; p = 0.013) | 0.849        | -14.20%            |
| Frequency | 2014.2     | -0.157 (CI = +/-0.041; p = 0.000) | -0.223 (CI = +/-0.189; p = 0.024) | 0.839        | -14.50%            |
| Frequency | 2015.1     | -0.166 (CI = +/-0.045; p = 0.000) | -0.247 (CI = +/-0.194; p = 0.017) | 0.835        | -15.31%            |
| Frequency | 2015.2     | -0.178 (CI = +/-0.050; p = 0.000) | -0.217 (CI = +/-0.201; p = 0.037) | 0.846        | -16.33%            |
| Frequency | 2016.1     | -0.192 (CI = +/-0.054; p = 0.000) | -0.248 (CI = +/-0.202; p = 0.021) | 0.851        | -17.51%            |
| Frequency | 2016.2     | -0.204 (CI = +/-0.063; p = 0.000) | -0.223 (CI = +/-0.219; p = 0.046) | 0.850        | -18.43%            |
| Frequency | 2017.1     | -0.191 (CI = +/-0.074; p = 0.000) | -0.200 (CI = +/-0.235; p = 0.085) | 0.788        | -17.39%            |

**All Perils**

Coverage = AP  
 End Trend Period = 2021.2  
 Excluded Points = NA  
 Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R^2 | Implied Trend Rate |
|-----------|------------|-----------------------------------|-----------------------------------|--------------|--------------------|
| Loss Cost | 2003.1     | 0.043 (CI = +/-0.013; p = 0.000)  | -0.254 (CI = +/-0.140; p = 0.001) | 0.622        | +4.41%             |
| Loss Cost | 2003.2     | 0.042 (CI = +/-0.013; p = 0.000)  | -0.247 (CI = +/-0.143; p = 0.001) | 0.584        | +4.29%             |
| Loss Cost | 2004.1     | 0.039 (CI = +/-0.014; p = 0.000)  | -0.267 (CI = +/-0.142; p = 0.001) | 0.579        | +3.95%             |
| Loss Cost | 2004.2     | 0.036 (CI = +/-0.014; p = 0.000)  | -0.251 (CI = +/-0.142; p = 0.001) | 0.529        | +3.67%             |
| Loss Cost | 2005.1     | 0.033 (CI = +/-0.014; p = 0.000)  | -0.269 (CI = +/-0.141; p = 0.001) | 0.526        | +3.34%             |
| Loss Cost | 2005.2     | 0.033 (CI = +/-0.015; p = 0.000)  | -0.268 (CI = +/-0.146; p = 0.001) | 0.492        | +3.32%             |
| Loss Cost | 2006.1     | 0.029 (CI = +/-0.016; p = 0.001)  | -0.288 (CI = +/-0.145; p = 0.000) | 0.496        | +2.94%             |
| Loss Cost | 2006.2     | 0.026 (CI = +/-0.016; p = 0.003)  | -0.273 (CI = +/-0.146; p = 0.001) | 0.438        | +2.63%             |
| Loss Cost | 2007.1     | 0.022 (CI = +/-0.017; p = 0.013)  | -0.296 (CI = +/-0.143; p = 0.000) | 0.458        | +2.17%             |
| Loss Cost | 2007.2     | 0.020 (CI = +/-0.018; p = 0.030)  | -0.287 (CI = +/-0.147; p = 0.000) | 0.408        | +1.98%             |
| Loss Cost | 2008.1     | 0.016 (CI = +/-0.018; p = 0.082)  | -0.303 (CI = +/-0.149; p = 0.000) | 0.424        | +1.64%             |
| Loss Cost | 2008.2     | 0.012 (CI = +/-0.019; p = 0.206)  | -0.284 (CI = +/-0.149; p = 0.001) | 0.369        | +1.21%             |
| Loss Cost | 2009.1     | 0.007 (CI = +/-0.020; p = 0.447)  | -0.305 (CI = +/-0.149; p = 0.000) | 0.405        | +0.75%             |
| Loss Cost | 2009.2     | 0.007 (CI = +/-0.022; p = 0.499)  | -0.304 (CI = +/-0.155; p = 0.001) | 0.383        | +0.72%             |
| Loss Cost | 2010.1     | 0.001 (CI = +/-0.022; p = 0.944)  | -0.330 (CI = +/-0.152; p = 0.000) | 0.445        | +0.08%             |
| Loss Cost | 2010.2     | -0.004 (CI = +/-0.023; p = 0.743) | -0.313 (CI = +/-0.154; p = 0.000) | 0.421        | -0.37%             |
| Loss Cost | 2011.1     | -0.001 (CI = +/-0.025; p = 0.912) | -0.304 (CI = +/-0.162; p = 0.001) | 0.392        | -0.14%             |
| Loss Cost | 2011.2     | -0.004 (CI = +/-0.028; p = 0.747) | -0.294 (CI = +/-0.169; p = 0.002) | 0.365        | -0.43%             |
| Loss Cost | 2012.1     | -0.008 (CI = +/-0.031; p = 0.569) | -0.308 (CI = +/-0.176; p = 0.002) | 0.381        | -0.84%             |
| Loss Cost | 2012.2     | -0.020 (CI = +/-0.030; p = 0.166) | -0.271 (CI = +/-0.162; p = 0.003) | 0.413        | -2.00%             |
| Loss Cost | 2013.1     | -0.019 (CI = +/-0.033; p = 0.238) | -0.268 (CI = +/-0.173; p = 0.005) | 0.363        | -1.91%             |
| Loss Cost | 2013.2     | -0.011 (CI = +/-0.036; p = 0.528) | -0.292 (CI = +/-0.174; p = 0.003) | 0.414        | -1.07%             |
| Loss Cost | 2014.1     | -0.014 (CI = +/-0.041; p = 0.471) | -0.301 (CI = +/-0.187; p = 0.004) | 0.404        | -1.39%             |
| Loss Cost | 2014.2     | -0.021 (CI = +/-0.046; p = 0.336) | -0.284 (CI = +/-0.197; p = 0.009) | 0.387        | -2.07%             |
| Loss Cost | 2015.1     | -0.019 (CI = +/-0.054; p = 0.458) | -0.278 (CI = +/-0.216; p = 0.016) | 0.323        | -1.86%             |
| Loss Cost | 2015.2     | -0.032 (CI = +/-0.060; p = 0.264) | -0.250 (CI = +/-0.223; p = 0.032) | 0.319        | -3.11%             |
| Loss Cost | 2016.1     | -0.040 (CI = +/-0.071; p = 0.233) | -0.269 (CI = +/-0.246; p = 0.036) | 0.311        | -3.95%             |
| Loss Cost | 2016.2     | -0.060 (CI = +/-0.080; p = 0.124) | -0.234 (CI = +/-0.254; p = 0.067) | 0.352        | -5.79%             |
| Loss Cost | 2017.1     | -0.048 (CI = +/-0.101; p = 0.296) | -0.213 (CI = +/-0.291; p = 0.127) | 0.160        | -4.72%             |
| Severity  | 2003.1     | 0.062 (CI = +/-0.015; p = 0.000)  | -0.084 (CI = +/-0.165; p = 0.308) | 0.652        | +6.37%             |
| Severity  | 2003.2     | 0.064 (CI = +/-0.016; p = 0.000)  | -0.098 (CI = +/-0.167; p = 0.241) | 0.656        | +6.61%             |
| Severity  | 2004.1     | 0.066 (CI = +/-0.016; p = 0.000)  | -0.088 (CI = +/-0.171; p = 0.305) | 0.654        | +6.79%             |
| Severity  | 2004.2     | 0.067 (CI = +/-0.017; p = 0.000)  | -0.096 (CI = +/-0.175; p = 0.272) | 0.645        | +6.95%             |
| Severity  | 2005.1     | 0.069 (CI = +/-0.018; p = 0.000)  | -0.087 (CI = +/-0.180; p = 0.329) | 0.639        | +7.11%             |
| Severity  | 2005.2     | 0.070 (CI = +/-0.019; p = 0.000)  | -0.097 (CI = +/-0.184; p = 0.288) | 0.631        | +7.30%             |
| Severity  | 2006.1     | 0.071 (CI = +/-0.021; p = 0.000)  | -0.094 (CI = +/-0.191; p = 0.320) | 0.615        | +7.37%             |
| Severity  | 2006.2     | 0.071 (CI = +/-0.022; p = 0.000)  | -0.096 (CI = +/-0.197; p = 0.327) | 0.590        | +7.41%             |
| Severity  | 2007.1     | 0.072 (CI = +/-0.024; p = 0.000)  | -0.095 (CI = +/-0.205; p = 0.347) | 0.569        | +7.42%             |
| Severity  | 2007.2     | 0.073 (CI = +/-0.025; p = 0.000)  | -0.101 (CI = +/-0.212; p = 0.338) | 0.547        | +7.54%             |
| Severity  | 2008.1     | 0.075 (CI = +/-0.027; p = 0.000)  | -0.088 (CI = +/-0.219; p = 0.415) | 0.543        | +7.82%             |
| Severity  | 2008.2     | 0.079 (CI = +/-0.029; p = 0.000)  | -0.103 (CI = +/-0.225; p = 0.354) | 0.539        | +8.18%             |
| Severity  | 2009.1     | 0.087 (CI = +/-0.029; p = 0.000)  | -0.065 (CI = +/-0.220; p = 0.548) | 0.594        | +9.10%             |
| Severity  | 2009.2     | 0.102 (CI = +/-0.024; p = 0.000)  | -0.128 (CI = +/-0.177; p = 0.148) | 0.758        | +10.76%            |
| Severity  | 2010.1     | 0.115 (CI = +/-0.020; p = 0.000)  | -0.073 (CI = +/-0.141; p = 0.297) | 0.859        | +12.24%            |
| Severity  | 2010.2     | 0.125 (CI = +/-0.018; p = 0.000)  | -0.109 (CI = +/-0.119; p = 0.071) | 0.906        | +13.32%            |
| Severity  | 2011.1     | 0.133 (CI = +/-0.017; p = 0.000)  | -0.080 (CI = +/-0.108; p = 0.138) | 0.929        | +14.20%            |
| Severity  | 2011.2     | 0.134 (CI = +/-0.019; p = 0.000)  | -0.082 (CI = +/-0.113; p = 0.144) | 0.918        | +14.28%            |
| Severity  | 2012.1     | 0.134 (CI = +/-0.021; p = 0.000)  | -0.080 (CI = +/-0.120; p = 0.178) | 0.909        | +14.36%            |
| Severity  | 2012.2     | 0.127 (CI = +/-0.021; p = 0.000)  | -0.058 (CI = +/-0.115; p = 0.301) | 0.901        | +13.57%            |
| Severity  | 2013.1     | 0.129 (CI = +/-0.024; p = 0.000)  | -0.053 (CI = +/-0.123; p = 0.369) | 0.889        | +13.74%            |
| Severity  | 2013.2     | 0.136 (CI = +/-0.024; p = 0.000)  | -0.075 (CI = +/-0.119; p = 0.194) | 0.902        | +14.63%            |
| Severity  | 2014.1     | 0.133 (CI = +/-0.027; p = 0.000)  | -0.086 (CI = +/-0.126; p = 0.166) | 0.885        | +14.21%            |
| Severity  | 2014.2     | 0.129 (CI = +/-0.031; p = 0.000)  | -0.077 (CI = +/-0.134; p = 0.237) | 0.855        | +13.80%            |
| Severity  | 2015.1     | 0.142 (CI = +/-0.031; p = 0.000)  | -0.045 (CI = +/-0.127; p = 0.447) | 0.885        | +15.23%            |
| Severity  | 2015.2     | 0.141 (CI = +/-0.037; p = 0.000)  | -0.045 (CI = +/-0.139; p = 0.491) | 0.855        | +15.19%            |
| Severity  | 2016.1     | 0.150 (CI = +/-0.043; p = 0.000)  | -0.027 (CI = +/-0.150; p = 0.694) | 0.848        | +16.14%            |
| Severity  | 2016.2     | 0.142 (CI = +/-0.051; p = 0.000)  | -0.013 (CI = +/-0.163; p = 0.854) | 0.796        | +15.29%            |
| Severity  | 2017.1     | 0.136 (CI = +/-0.065; p = 0.002)  | -0.026 (CI = +/-0.186; p = 0.754) | 0.726        | +14.52%            |
| Frequency | 2003.1     | -0.019 (CI = +/-0.022; p = 0.100) | -0.170 (CI = +/-0.245; p = 0.168) | 0.066        | -1.84%             |
| Frequency | 2003.2     | -0.022 (CI = +/-0.023; p = 0.062) | -0.148 (CI = +/-0.247; p = 0.231) | 0.082        | -2.18%             |
| Frequency | 2004.1     | -0.027 (CI = +/-0.024; p = 0.027) | -0.179 (CI = +/-0.247; p = 0.149) | 0.130        | -2.66%             |
| Frequency | 2004.2     | -0.031 (CI = +/-0.025; p = 0.015) | -0.155 (CI = +/-0.248; p = 0.214) | 0.156        | -3.07%             |
| Frequency | 2005.1     | -0.036 (CI = +/-0.025; p = 0.008) | -0.182 (CI = +/-0.250; p = 0.149) | 0.194        | -3.51%             |
| Frequency | 2005.2     | -0.038 (CI = +/-0.027; p = 0.008) | -0.170 (CI = +/-0.257; p = 0.186) | 0.200        | -3.71%             |
| Frequency | 2006.1     | -0.042 (CI = +/-0.028; p = 0.005) | -0.194 (CI = +/-0.261; p = 0.140) | 0.227        | -4.12%             |
| Frequency | 2006.2     | -0.045 (CI = +/-0.030; p = 0.004) | -0.177 (CI = +/-0.268; p = 0.187) | 0.241        | -4.44%             |
| Frequency | 2007.1     | -0.050 (CI = +/-0.032; p = 0.003) | -0.200 (CI = +/-0.273; p = 0.144) | 0.263        | -4.88%             |
| Frequency | 2007.2     | -0.053 (CI = +/-0.034; p = 0.003) | -0.186 (CI = +/-0.281; p = 0.186) | 0.270        | -5.17%             |
| Frequency | 2008.1     | -0.059 (CI = +/-0.035; p = 0.002) | -0.215 (CI = +/-0.286; p = 0.135) | 0.300        | -5.73%             |
| Frequency | 2008.2     | -0.067 (CI = +/-0.037; p = 0.001) | -0.181 (CI = +/-0.287; p = 0.206) | 0.343        | -6.44%             |
| Frequency | 2009.1     | -0.080 (CI = +/-0.036; p = 0.000) | -0.240 (CI = +/-0.272; p = 0.081) | 0.456        | -7.66%             |
| Frequency | 2009.2     | -0.095 (CI = +/-0.033; p = 0.000) | -0.176 (CI = +/-0.241; p = 0.145) | 0.594        | -9.07%             |
| Frequency | 2010.1     | -0.115 (CI = +/-0.026; p = 0.000) | -0.258 (CI = +/-0.180; p = 0.007) | 0.792        | -10.84%            |
| Frequency | 2010.2     | -0.129 (CI = +/-0.021; p = 0.000) | -0.204 (CI = +/-0.138; p = 0.006) | 0.888        | -12.08%            |
| Frequency | 2011.1     | -0.134 (CI = +/-0.022; p = 0.000) | -0.224 (CI = +/-0.138; p = 0.003) | 0.890        | -12.55%            |
| Frequency | 2011.2     | -0.138 (CI = +/-0.023; p = 0.000) | -0.211 (CI = +/-0.142; p = 0.006) | 0.889        | -12.88%            |
| Frequency | 2012.1     | -0.143 (CI = +/-0.025; p = 0.000) | -0.228 (CI = +/-0.147; p = 0.004) | 0.883        | -13.29%            |
| Frequency | 2012.2     | -0.147 (CI = +/-0.027; p = 0.000) | -0.212 (CI = +/-0.151; p = 0.009) | 0.884        | -13.71%            |
| Frequency | 2013.1     | -0.148 (CI = +/-0.031; p = 0.000) | -0.214 (CI = +/-0.161; p = 0.013) | 0.860        | -13.76%            |
| Frequency | 2013.2     | -0.147 (CI = +/-0.035; p = 0.000) | -0.216 (CI = +/-0.172; p = 0.017) | 0.844        | -13.69%            |
| Frequency | 2014.1     | -0.147 (CI = +/-0.040; p = 0.000) | -0.215 (CI = +/-0.186; p = 0.027) | 0.806        | -13.66%            |
| Frequency | 2014.2     | -0.150 (CI = +/-0.046; p = 0.000) | -0.207 (CI = +/-0.200; p = 0.044) | 0.792        | -13.95%            |
| Frequency | 2015.1     | -0.160 (CI = +/-0.052; p = 0.000) | -0.233 (CI = +/-0.211; p = 0.033) | 0.781        | -14.83%            |
| Frequency | 2015.2     | -0.173 (CI = +/-0.058; p = 0.000) | -0.205 (CI = +/-0.218; p = 0.062) | 0.795        | -15.89%            |
| Frequency | 2016.1     | -0.190 (CI = +/-0.066; p = 0.000) | -0.242 (CI = +/-0.227; p = 0.039) | 0.796        | -17.30%            |
| Frequency | 2016.2     | -0.202 (CI = +/-0.077; p = 0.000) | -0.220 (CI = +/-0.246; p = 0.072) | 0.794        | -18.28%            |
| Frequency | 2017.1     | -0.184 (CI = +/-0.095; p = 0.002) | -0.187 (CI = +/-0.272; p = 0.147) | 0.688        | -16.80%            |

**All Perils**

Coverage = AP  
 End Trend Period = 2019.2  
 Excluded Points = NA  
 Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R <sup>2</sup> | Implied Trend Rate |
|-----------|------------|-----------------------------------|-----------------------------------|-------------------------|--------------------|
| Loss Cost | 2003.1     | 0.056 (CI = +/-0.012; p = 0.000)  | -0.255 (CI = +/-0.122; p = 0.000) | 0.760                   | +5.73%             |
| Loss Cost | 2003.2     | 0.055 (CI = +/-0.013; p = 0.000)  | -0.251 (CI = +/-0.125; p = 0.000) | 0.733                   | +5.66%             |
| Loss Cost | 2004.1     | 0.052 (CI = +/-0.013; p = 0.000)  | -0.269 (CI = +/-0.124; p = 0.000) | 0.730                   | +5.31%             |
| Loss Cost | 2004.2     | 0.049 (CI = +/-0.014; p = 0.000)  | -0.256 (CI = +/-0.125; p = 0.000) | 0.694                   | +5.04%             |
| Loss Cost | 2005.1     | 0.046 (CI = +/-0.014; p = 0.000)  | -0.272 (CI = +/-0.125; p = 0.000) | 0.690                   | +4.72%             |
| Loss Cost | 2005.2     | 0.047 (CI = +/-0.015; p = 0.000)  | -0.275 (CI = +/-0.129; p = 0.000) | 0.666                   | +4.79%             |
| Loss Cost | 2006.1     | 0.043 (CI = +/-0.016; p = 0.000)  | -0.293 (CI = +/-0.129; p = 0.000) | 0.668                   | +4.40%             |
| Loss Cost | 2006.2     | 0.040 (CI = +/-0.017; p = 0.000)  | -0.281 (CI = +/-0.131; p = 0.000) | 0.618                   | +4.11%             |
| Loss Cost | 2007.1     | 0.035 (CI = +/-0.017; p = 0.000)  | -0.303 (CI = +/-0.128; p = 0.000) | 0.633                   | +3.60%             |
| Loss Cost | 2007.2     | 0.034 (CI = +/-0.018; p = 0.001)  | -0.297 (CI = +/-0.133; p = 0.000) | 0.587                   | +3.47%             |
| Loss Cost | 2008.1     | 0.031 (CI = +/-0.020; p = 0.004)  | -0.312 (CI = +/-0.136; p = 0.000) | 0.592                   | +3.12%             |
| Loss Cost | 2008.2     | 0.026 (CI = +/-0.021; p = 0.015)  | -0.295 (CI = +/-0.137; p = 0.000) | 0.533                   | +2.67%             |
| Loss Cost | 2009.1     | 0.021 (CI = +/-0.022; p = 0.056)  | -0.315 (CI = +/-0.138; p = 0.000) | 0.558                   | +2.14%             |
| Loss Cost | 2009.2     | 0.022 (CI = +/-0.024; p = 0.065)  | -0.319 (CI = +/-0.145; p = 0.000) | 0.536                   | +2.27%             |
| Loss Cost | 2010.1     | 0.015 (CI = +/-0.025; p = 0.227)  | -0.346 (CI = +/-0.142; p = 0.000) | 0.591                   | +1.47%             |
| Loss Cost | 2010.2     | 0.010 (CI = +/-0.027; p = 0.441)  | -0.331 (CI = +/-0.146; p = 0.000) | 0.548                   | +1.00%             |
| Loss Cost | 2011.1     | 0.015 (CI = +/-0.029; p = 0.293)  | -0.315 (CI = +/-0.152; p = 0.000) | 0.540                   | +1.51%             |
| Loss Cost | 2011.2     | 0.013 (CI = +/-0.033; p = 0.418)  | -0.309 (CI = +/-0.161; p = 0.001) | 0.493                   | +1.29%             |
| Loss Cost | 2012.1     | 0.008 (CI = +/-0.037; p = 0.632)  | -0.321 (CI = +/-0.172; p = 0.001) | 0.502                   | +0.85%             |
| Loss Cost | 2012.2     | -0.008 (CI = +/-0.035; p = 0.639) | -0.281 (CI = +/-0.151; p = 0.002) | 0.510                   | -0.77%             |
| Loss Cost | 2013.1     | -0.004 (CI = +/-0.041; p = 0.822) | -0.272 (CI = +/-0.165; p = 0.004) | 0.464                   | -0.43%             |
| Loss Cost | 2013.2     | 0.013 (CI = +/-0.039; p = 0.454)  | -0.311 (CI = +/-0.145; p = 0.001) | 0.641                   | +1.36%             |
| Loss Cost | 2014.1     | 0.012 (CI = +/-0.047; p = 0.583)  | -0.314 (CI = +/-0.162; p = 0.002) | 0.629                   | +1.19%             |
| Loss Cost | 2014.2     | 0.005 (CI = +/-0.056; p = 0.847)  | -0.301 (CI = +/-0.178; p = 0.004) | 0.571                   | +0.48%             |
| Loss Cost | 2015.1     | 0.015 (CI = +/-0.070; p = 0.620)  | -0.282 (CI = +/-0.200; p = 0.013) | 0.535                   | +1.54%             |
| Loss Cost | 2015.2     | -0.003 (CI = +/-0.082; p = 0.932) | -0.255 (CI = +/-0.214; p = 0.027) | 0.449                   | -0.30%             |
| Loss Cost | 2016.1     | -0.015 (CI = +/-0.113; p = 0.747) | -0.273 (CI = +/-0.260; p = 0.043) | 0.433                   | -1.49%             |
| Loss Cost | 2016.2     | -0.056 (CI = +/-0.126; p = 0.284) | -0.225 (CI = +/-0.255; p = 0.071) | 0.479                   | -5.46%             |
| Loss Cost | 2017.1     | -0.017 (CI = +/-0.192; p = 0.796) | -0.179 (CI = +/-0.328; p = 0.180) | 0.179                   | -1.69%             |
| Severity  | 2003.1     | 0.052 (CI = +/-0.018; p = 0.000)  | -0.102 (CI = +/-0.172; p = 0.238) | 0.523                   | +5.30%             |
| Severity  | 2003.2     | 0.054 (CI = +/-0.018; p = 0.000)  | -0.114 (CI = +/-0.176; p = 0.194) | 0.525                   | +5.54%             |
| Severity  | 2004.1     | 0.055 (CI = +/-0.020; p = 0.000)  | -0.107 (CI = +/-0.181; p = 0.239) | 0.520                   | +5.69%             |
| Severity  | 2004.2     | 0.057 (CI = +/-0.021; p = 0.000)  | -0.113 (CI = +/-0.187; p = 0.225) | 0.503                   | +5.82%             |
| Severity  | 2005.1     | 0.058 (CI = +/-0.022; p = 0.000)  | -0.108 (CI = +/-0.194; p = 0.263) | 0.491                   | +5.93%             |
| Severity  | 2005.2     | 0.059 (CI = +/-0.024; p = 0.000)  | -0.116 (CI = +/-0.200; p = 0.243) | 0.477                   | +6.11%             |
| Severity  | 2006.1     | 0.059 (CI = +/-0.026; p = 0.000)  | -0.117 (CI = +/-0.208; p = 0.257) | 0.454                   | +6.09%             |
| Severity  | 2006.2     | 0.059 (CI = +/-0.028; p = 0.000)  | -0.116 (CI = +/-0.217; p = 0.280) | 0.413                   | +6.05%             |
| Severity  | 2007.1     | 0.058 (CI = +/-0.030; p = 0.001)  | -0.121 (CI = +/-0.226; p = 0.279) | 0.384                   | +5.94%             |
| Severity  | 2007.2     | 0.058 (CI = +/-0.033; p = 0.001)  | -0.123 (CI = +/-0.236; p = 0.290) | 0.348                   | +5.99%             |
| Severity  | 2008.1     | 0.060 (CI = +/-0.036; p = 0.002)  | -0.115 (CI = +/-0.247; p = 0.344) | 0.339                   | +6.20%             |
| Severity  | 2008.2     | 0.064 (CI = +/-0.039; p = 0.003)  | -0.128 (CI = +/-0.257; p = 0.309) | 0.331                   | +6.57%             |
| Severity  | 2009.1     | 0.074 (CI = +/-0.041; p = 0.001)  | -0.090 (CI = +/-0.257; p = 0.475) | 0.393                   | +7.66%             |
| Severity  | 2009.2     | 0.094 (CI = +/-0.034; p = 0.000)  | -0.161 (CI = +/-0.207; p = 0.119) | 0.632                   | +9.89%             |
| Severity  | 2010.1     | 0.112 (CI = +/-0.029; p = 0.000)  | -0.098 (CI = +/-0.169; p = 0.237) | 0.779                   | +11.89%            |
| Severity  | 2010.2     | 0.127 (CI = +/-0.025; p = 0.000)  | -0.144 (CI = +/-0.139; p = 0.044) | 0.864                   | +13.50%            |
| Severity  | 2011.1     | 0.138 (CI = +/-0.024; p = 0.000)  | -0.107 (CI = +/-0.125; p = 0.086) | 0.902                   | +14.81%            |
| Severity  | 2011.2     | 0.141 (CI = +/-0.027; p = 0.000)  | -0.115 (CI = +/-0.132; p = 0.084) | 0.888                   | +15.10%            |
| Severity  | 2012.1     | 0.142 (CI = +/-0.031; p = 0.000)  | -0.111 (CI = +/-0.142; p = 0.118) | 0.874                   | +15.27%            |
| Severity  | 2012.2     | 0.133 (CI = +/-0.033; p = 0.000)  | -0.088 (CI = +/-0.141; p = 0.201) | 0.849                   | +14.22%            |
| Severity  | 2013.1     | 0.136 (CI = +/-0.038; p = 0.000)  | -0.081 (CI = +/-0.154; p = 0.273) | 0.830                   | +14.53%            |
| Severity  | 2013.2     | 0.152 (CI = +/-0.037; p = 0.000)  | -0.116 (CI = +/-0.138; p = 0.092) | 0.877                   | +16.37%            |
| Severity  | 2014.1     | 0.147 (CI = +/-0.044; p = 0.000)  | -0.126 (CI = +/-0.153; p = 0.094) | 0.851                   | +15.79%            |
| Severity  | 2014.2     | 0.145 (CI = +/-0.054; p = 0.000)  | -0.124 (CI = +/-0.171; p = 0.134) | 0.797                   | +15.62%            |
| Severity  | 2015.1     | 0.173 (CI = +/-0.050; p = 0.000)  | -0.073 (CI = +/-0.144; p = 0.274) | 0.888                   | +18.90%            |
| Severity  | 2015.2     | 0.184 (CI = +/-0.061; p = 0.000)  | -0.089 (CI = +/-0.159; p = 0.222) | 0.871                   | +20.18%            |
| Severity  | 2016.1     | 0.217 (CI = +/-0.057; p = 0.000)  | -0.040 (CI = +/-0.130; p = 0.468) | 0.937                   | +24.18%            |
| Severity  | 2016.2     | 0.226 (CI = +/-0.078; p = 0.001)  | -0.051 (CI = +/-0.158; p = 0.423) | 0.914                   | +25.36%            |
| Severity  | 2017.1     | 0.247 (CI = +/-0.123; p = 0.008)  | -0.026 (CI = +/-0.210; p = 0.720) | 0.899                   | +28.02%            |
| Frequency | 2003.1     | 0.004 (CI = +/-0.023; p = 0.720)  | -0.153 (CI = +/-0.226; p = 0.176) | 0.003                   | +0.41%             |
| Frequency | 2003.2     | 0.001 (CI = +/-0.024; p = 0.926)  | -0.137 (CI = +/-0.230; p = 0.234) | -0.016                  | +0.11%             |
| Frequency | 2004.1     | -0.004 (CI = +/-0.025; p = 0.774) | -0.162 (CI = +/-0.232; p = 0.163) | 0.003                   | -0.35%             |
| Frequency | 2004.2     | -0.007 (CI = +/-0.026; p = 0.570) | -0.142 (CI = +/-0.236; p = 0.226) | -0.005                  | -0.74%             |
| Frequency | 2005.1     | -0.012 (CI = +/-0.028; p = 0.403) | -0.164 (CI = +/-0.240; p = 0.174) | 0.019                   | -1.14%             |
| Frequency | 2005.2     | -0.013 (CI = +/-0.030; p = 0.396) | -0.159 (CI = +/-0.249; p = 0.201) | 0.016                   | -1.24%             |
| Frequency | 2006.1     | -0.016 (CI = +/-0.032; p = 0.308) | -0.176 (CI = +/-0.257; p = 0.170) | 0.032                   | -1.59%             |
| Frequency | 2006.2     | -0.019 (CI = +/-0.034; p = 0.273) | -0.165 (CI = +/-0.266; p = 0.213) | 0.033                   | -1.84%             |
| Frequency | 2007.1     | -0.022 (CI = +/-0.037; p = 0.222) | -0.182 (CI = +/-0.275; p = 0.185) | 0.047                   | -2.20%             |
| Frequency | 2007.2     | -0.024 (CI = +/-0.040; p = 0.222) | -0.174 (CI = +/-0.287; p = 0.221) | 0.046                   | -2.38%             |
| Frequency | 2008.1     | -0.029 (CI = +/-0.043; p = 0.168) | -0.197 (CI = +/-0.297; p = 0.183) | 0.068                   | -2.90%             |
| Frequency | 2008.2     | -0.037 (CI = +/-0.046; p = 0.104) | -0.167 (CI = +/-0.303; p = 0.265) | 0.092                   | -3.66%             |
| Frequency | 2009.1     | -0.053 (CI = +/-0.046; p = 0.028) | -0.225 (CI = +/-0.293; p = 0.124) | 0.214                   | -5.12%             |
| Frequency | 2009.2     | -0.072 (CI = +/-0.043; p = 0.003) | -0.157 (CI = +/-0.261; p = 0.221) | 0.373                   | -6.94%             |
| Frequency | 2010.1     | -0.098 (CI = +/-0.033; p = 0.000) | -0.248 (CI = +/-0.190; p = 0.014) | 0.689                   | -9.31%             |
| Frequency | 2010.2     | -0.117 (CI = +/-0.025; p = 0.000) | -0.188 (CI = +/-0.135; p = 0.009) | 0.857                   | -11.02%            |
| Frequency | 2011.1     | -0.123 (CI = +/-0.026; p = 0.000) | -0.208 (CI = +/-0.137; p = 0.006) | 0.857                   | -11.58%            |
| Frequency | 2011.2     | -0.128 (CI = +/-0.029; p = 0.000) | -0.194 (CI = +/-0.142; p = 0.011) | 0.857                   | -12.00%            |
| Frequency | 2012.1     | -0.134 (CI = +/-0.032; p = 0.000) | -0.211 (CI = +/-0.149; p = 0.009) | 0.845                   | -12.50%            |
| Frequency | 2012.2     | -0.141 (CI = +/-0.036; p = 0.000) | -0.193 (CI = +/-0.154; p = 0.018) | 0.850                   | -13.12%            |
| Frequency | 2013.1     | -0.140 (CI = +/-0.042; p = 0.000) | -0.191 (CI = +/-0.169; p = 0.030) | 0.807                   | -13.06%            |
| Frequency | 2013.2     | -0.138 (CI = +/-0.049; p = 0.000) | -0.195 (CI = +/-0.185; p = 0.041) | 0.779                   | -12.90%            |
| Frequency | 2014.1     | -0.135 (CI = +/-0.060; p = 0.001) | -0.188 (CI = +/-0.207; p = 0.070) | 0.699                   | -12.61%            |
| Frequency | 2014.2     | -0.140 (CI = +/-0.073; p = 0.002) | -0.178 (CI = +/-0.230; p = 0.113) | 0.678                   | -13.09%            |
| Frequency | 2015.1     | -0.158 (CI = +/-0.088; p = 0.004) | -0.210 (CI = +/-0.254; p = 0.092) | 0.659                   | -14.60%            |
| Frequency | 2015.2     | -0.187 (CI = +/-0.098; p = 0.003) | -0.166 (CI = +/-0.255; p = 0.162) | 0.736                   | -17.04%            |
| Frequency | 2016.1     | -0.232 (CI = +/-0.106; p = 0.002) | -0.233 (CI = +/-0.242; p = 0.056) | 0.818                   | -20.67%            |
| Frequency | 2016.2     | -0.282 (CI = +/-0.083; p = 0.001) | -0.174 (CI = +/-0.167; p = 0.044) | 0.941                   | -24.59%            |
| Frequency | 2017.1     | -0.264 (CI = +/-0.136; p = 0.008) | -0.153 (CI = +/-0.231; p = 0.126) | 0.880                   | -23.21%            |

**All Perils**

Coverage = AP  
 End Trend Period = 2019.1  
 Excluded Points = NA  
 Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R^2 | Implied Trend Rate |
|-----------|------------|-----------------------------------|-----------------------------------|--------------|--------------------|
| Loss Cost | 2003.1     | 0.058 (CI = +/-0.013; p = 0.000)  | -0.268 (CI = +/-0.122; p = 0.000) | 0.766        | +5.99%             |
| Loss Cost | 2003.2     | 0.058 (CI = +/-0.014; p = 0.000)  | -0.265 (CI = +/-0.126; p = 0.000) | 0.738        | +5.93%             |
| Loss Cost | 2004.1     | 0.054 (CI = +/-0.014; p = 0.000)  | -0.282 (CI = +/-0.125; p = 0.000) | 0.736        | +5.59%             |
| Loss Cost | 2004.2     | 0.052 (CI = +/-0.015; p = 0.000)  | -0.269 (CI = +/-0.126; p = 0.000) | 0.697        | +5.32%             |
| Loss Cost | 2005.1     | 0.049 (CI = +/-0.015; p = 0.000)  | -0.284 (CI = +/-0.126; p = 0.000) | 0.694        | +4.99%             |
| Loss Cost | 2005.2     | 0.050 (CI = +/-0.016; p = 0.000)  | -0.289 (CI = +/-0.131; p = 0.000) | 0.672        | +5.11%             |
| Loss Cost | 2006.1     | 0.046 (CI = +/-0.017; p = 0.000)  | -0.307 (CI = +/-0.130; p = 0.000) | 0.674        | +4.71%             |
| Loss Cost | 2006.2     | 0.043 (CI = +/-0.018; p = 0.000)  | -0.294 (CI = +/-0.134; p = 0.000) | 0.622        | +4.42%             |
| Loss Cost | 2007.1     | 0.038 (CI = +/-0.018; p = 0.000)  | -0.315 (CI = +/-0.131; p = 0.000) | 0.637        | +3.90%             |
| Loss Cost | 2007.2     | 0.037 (CI = +/-0.020; p = 0.001)  | -0.310 (CI = +/-0.137; p = 0.000) | 0.589        | +3.79%             |
| Loss Cost | 2008.1     | 0.034 (CI = +/-0.021; p = 0.003)  | -0.324 (CI = +/-0.140; p = 0.000) | 0.595        | +3.44%             |
| Loss Cost | 2008.2     | 0.029 (CI = +/-0.023; p = 0.014)  | -0.306 (CI = +/-0.143; p = 0.000) | 0.531        | +2.97%             |
| Loss Cost | 2009.1     | 0.024 (CI = +/-0.024; p = 0.047)  | -0.324 (CI = +/-0.144; p = 0.000) | 0.556        | +2.43%             |
| Loss Cost | 2009.2     | 0.026 (CI = +/-0.026; p = 0.054)  | -0.331 (CI = +/-0.152; p = 0.000) | 0.536        | +2.62%             |
| Loss Cost | 2010.1     | 0.018 (CI = +/-0.027; p = 0.180)  | -0.356 (CI = +/-0.148; p = 0.000) | 0.591        | +1.80%             |
| Loss Cost | 2010.2     | 0.013 (CI = +/-0.030; p = 0.370)  | -0.341 (CI = +/-0.155; p = 0.000) | 0.544        | +1.30%             |
| Loss Cost | 2011.1     | 0.018 (CI = +/-0.033; p = 0.246)  | -0.325 (CI = +/-0.160; p = 0.001) | 0.535        | +1.86%             |
| Loss Cost | 2011.2     | 0.017 (CI = +/-0.038; p = 0.358)  | -0.320 (CI = +/-0.173; p = 0.002) | 0.487        | +1.67%             |
| Loss Cost | 2012.1     | 0.012 (CI = +/-0.043; p = 0.544)  | -0.331 (CI = +/-0.184; p = 0.002) | 0.493        | +1.23%             |
| Loss Cost | 2012.2     | -0.007 (CI = +/-0.041; p = 0.710) | -0.282 (CI = +/-0.166; p = 0.003) | 0.494        | -0.71%             |
| Loss Cost | 2013.1     | -0.003 (CI = +/-0.048; p = 0.878) | -0.274 (CI = +/-0.181; p = 0.007) | 0.440        | -0.34%             |
| Loss Cost | 2013.2     | 0.020 (CI = +/-0.046; p = 0.352)  | -0.325 (CI = +/-0.159; p = 0.001) | 0.640        | +2.02%             |
| Loss Cost | 2014.1     | 0.019 (CI = +/-0.056; p = 0.463)  | -0.327 (CI = +/-0.178; p = 0.003) | 0.623        | +1.89%             |
| Loss Cost | 2014.2     | 0.012 (CI = +/-0.071; p = 0.708)  | -0.314 (CI = +/-0.204; p = 0.008) | 0.557        | +1.18%             |
| Loss Cost | 2015.1     | 0.024 (CI = +/-0.088; p = 0.529)  | -0.295 (CI = +/-0.229; p = 0.020) | 0.512        | +2.44%             |
| Loss Cost | 2015.2     | 0.001 (CI = +/-0.116; p = 0.981)  | -0.261 (CI = +/-0.265; p = 0.052) | 0.402        | +0.11%             |
| Loss Cost | 2016.1     | -0.012 (CI = +/-0.164; p = 0.847) | -0.276 (CI = +/-0.330; p = 0.081) | 0.364        | -1.20%             |
| Loss Cost | 2016.2     | -0.082 (CI = +/-0.209; p = 0.301) | -0.195 (CI = +/-0.357; p = 0.180) | 0.468        | -7.86%             |
| Loss Cost | 2017.1     | -0.040 (CI = +/-0.385; p = 0.699) | -0.160 (CI = +/-0.556; p = 0.341) | -0.071       | -3.92%             |
| Severity  | 2003.1     | 0.048 (CI = +/-0.018; p = 0.000)  | -0.080 (CI = +/-0.171; p = 0.350) | 0.469        | +4.88%             |
| Severity  | 2003.2     | 0.050 (CI = +/-0.019; p = 0.000)  | -0.091 (CI = +/-0.175; p = 0.296) | 0.468        | +5.10%             |
| Severity  | 2004.1     | 0.051 (CI = +/-0.020; p = 0.000)  | -0.085 (CI = +/-0.181; p = 0.346) | 0.462        | +5.24%             |
| Severity  | 2004.2     | 0.052 (CI = +/-0.022; p = 0.000)  | -0.089 (CI = +/-0.187; p = 0.336) | 0.440        | +5.34%             |
| Severity  | 2005.1     | 0.053 (CI = +/-0.023; p = 0.000)  | -0.085 (CI = +/-0.194; p = 0.376) | 0.426        | +5.43%             |
| Severity  | 2005.2     | 0.054 (CI = +/-0.025; p = 0.000)  | -0.092 (CI = +/-0.202; p = 0.358) | 0.407        | +5.58%             |
| Severity  | 2006.1     | 0.054 (CI = +/-0.027; p = 0.000)  | -0.094 (CI = +/-0.210; p = 0.365) | 0.380        | +5.53%             |
| Severity  | 2006.2     | 0.053 (CI = +/-0.029; p = 0.001)  | -0.089 (CI = +/-0.219; p = 0.408) | 0.331        | +5.43%             |
| Severity  | 2007.1     | 0.051 (CI = +/-0.032; p = 0.003)  | -0.095 (CI = +/-0.228; p = 0.396) | 0.297        | +5.28%             |
| Severity  | 2007.2     | 0.051 (CI = +/-0.035; p = 0.006)  | -0.094 (CI = +/-0.239; p = 0.423) | 0.254        | +5.25%             |
| Severity  | 2008.1     | 0.053 (CI = +/-0.038; p = 0.008)  | -0.087 (CI = +/-0.250; p = 0.475) | 0.244        | +5.44%             |
| Severity  | 2008.2     | 0.056 (CI = +/-0.041; p = 0.011)  | -0.099 (CI = +/-0.263; p = 0.442) | 0.230        | +5.75%             |
| Severity  | 2009.1     | 0.066 (CI = +/-0.043; p = 0.005)  | -0.063 (CI = +/-0.263; p = 0.623) | 0.299        | +6.84%             |
| Severity  | 2009.2     | 0.089 (CI = +/-0.037; p = 0.000)  | -0.142 (CI = +/-0.216; p = 0.183) | 0.558        | +9.29%             |
| Severity  | 2010.1     | 0.107 (CI = +/-0.032; p = 0.000)  | -0.083 (CI = +/-0.175; p = 0.331) | 0.735        | +11.35%            |
| Severity  | 2010.2     | 0.124 (CI = +/-0.028; p = 0.000)  | -0.134 (CI = +/-0.148; p = 0.072) | 0.833        | +13.15%            |
| Severity  | 2011.1     | 0.135 (CI = +/-0.027; p = 0.000)  | -0.100 (CI = +/-0.132; p = 0.126) | 0.880        | +14.51%            |
| Severity  | 2011.2     | 0.138 (CI = +/-0.031; p = 0.000)  | -0.107 (CI = +/-0.142; p = 0.126) | 0.860        | +14.79%            |
| Severity  | 2012.1     | 0.139 (CI = +/-0.035; p = 0.000)  | -0.104 (CI = +/-0.153; p = 0.165) | 0.841        | +14.95%            |
| Severity  | 2012.2     | 0.127 (CI = +/-0.038; p = 0.000)  | -0.073 (CI = +/-0.151; p = 0.309) | 0.805        | +13.57%            |
| Severity  | 2013.1     | 0.130 (CI = +/-0.044; p = 0.000)  | -0.068 (CI = +/-0.165; p = 0.380) | 0.777        | +13.85%            |
| Severity  | 2013.2     | 0.149 (CI = +/-0.045; p = 0.000)  | -0.109 (CI = +/-0.155; p = 0.144) | 0.833        | +16.03%            |
| Severity  | 2014.1     | 0.143 (CI = +/-0.054; p = 0.000)  | -0.120 (CI = +/-0.170; p = 0.144) | 0.793        | +15.37%            |
| Severity  | 2014.2     | 0.140 (CI = +/-0.069; p = 0.002)  | -0.114 (CI = +/-0.197; p = 0.216) | 0.704        | +14.98%            |
| Severity  | 2015.1     | 0.170 (CI = +/-0.065; p = 0.001)  | -0.068 (CI = +/-0.168; p = 0.360) | 0.835        | +18.54%            |
| Severity  | 2015.2     | 0.185 (CI = +/-0.086; p = 0.003)  | -0.090 (CI = +/-0.198; p = 0.295) | 0.801        | +20.28%            |
| Severity  | 2016.1     | 0.222 (CI = +/-0.080; p = 0.002)  | -0.046 (CI = +/-0.162; p = 0.475) | 0.906        | +24.88%            |
| Severity  | 2016.2     | 0.243 (CI = +/-0.128; p = 0.009)  | -0.070 (CI = +/-0.219; p = 0.382) | 0.875        | +27.50%            |
| Severity  | 2017.1     | 0.272 (CI = +/-0.228; p = 0.036)  | -0.046 (CI = +/-0.328; p = 0.605) | 0.861        | +31.19%            |
| Frequency | 2003.1     | 0.011 (CI = +/-0.023; p = 0.356)  | -0.188 (CI = +/-0.219; p = 0.089) | 0.058        | +1.06%             |
| Frequency | 2003.2     | 0.008 (CI = +/-0.024; p = 0.511)  | -0.174 (CI = +/-0.224; p = 0.124) | 0.027        | +0.79%             |
| Frequency | 2004.1     | 0.003 (CI = +/-0.025; p = 0.789)  | -0.198 (CI = +/-0.226; p = 0.084) | 0.041        | +0.33%             |
| Frequency | 2004.2     | 0.000 (CI = +/-0.027; p = 0.989)  | -0.180 (CI = +/-0.231; p = 0.123) | 0.019        | -0.02%             |
| Frequency | 2005.1     | -0.004 (CI = +/-0.028; p = 0.762) | -0.199 (CI = +/-0.236; p = 0.095) | 0.038        | -0.42%             |
| Frequency | 2005.2     | -0.004 (CI = +/-0.030; p = 0.765) | -0.198 (CI = +/-0.246; p = 0.110) | 0.033        | -0.44%             |
| Frequency | 2006.1     | -0.008 (CI = +/-0.032; p = 0.623) | -0.213 (CI = +/-0.253; p = 0.095) | 0.046        | -0.78%             |
| Frequency | 2006.2     | -0.010 (CI = +/-0.035; p = 0.578) | -0.205 (CI = +/-0.264; p = 0.122) | 0.040        | -0.96%             |
| Frequency | 2007.1     | -0.013 (CI = +/-0.038; p = 0.479) | -0.220 (CI = +/-0.273; p = 0.110) | 0.051        | -1.31%             |
| Frequency | 2007.2     | -0.014 (CI = +/-0.041; p = 0.491) | -0.216 (CI = +/-0.287; p = 0.131) | 0.047        | -1.39%             |
| Frequency | 2008.1     | -0.019 (CI = +/-0.045; p = 0.383) | -0.236 (CI = +/-0.297; p = 0.113) | 0.066        | -1.89%             |
| Frequency | 2008.2     | -0.027 (CI = +/-0.048; p = 0.264) | -0.208 (CI = +/-0.307; p = 0.173) | 0.071        | -2.62%             |
| Frequency | 2009.1     | -0.042 (CI = +/-0.049; p = 0.086) | -0.262 (CI = +/-0.295; p = 0.079) | 0.193        | -4.12%             |
| Frequency | 2009.2     | -0.063 (CI = +/-0.046; p = 0.011) | -0.189 (CI = +/-0.268; p = 0.155) | 0.326        | -6.10%             |
| Frequency | 2010.1     | -0.090 (CI = +/-0.035; p = 0.000) | -0.274 (CI = +/-0.191; p = 0.008) | 0.673        | -8.57%             |
| Frequency | 2010.2     | -0.111 (CI = +/-0.027; p = 0.000) | -0.207 (CI = +/-0.138; p = 0.006) | 0.847        | -10.47%            |
| Frequency | 2011.1     | -0.117 (CI = +/-0.028; p = 0.000) | -0.225 (CI = +/-0.140; p = 0.004) | 0.846        | -11.04%            |
| Frequency | 2011.2     | -0.121 (CI = +/-0.032; p = 0.000) | -0.213 (CI = +/-0.148; p = 0.008) | 0.843        | -11.43%            |
| Frequency | 2012.1     | -0.127 (CI = +/-0.036; p = 0.000) | -0.227 (CI = +/-0.155; p = 0.008) | 0.829        | -11.94%            |
| Frequency | 2012.2     | -0.134 (CI = +/-0.041; p = 0.000) | -0.209 (CI = +/-0.165; p = 0.018) | 0.831        | -12.58%            |
| Frequency | 2013.1     | -0.133 (CI = +/-0.048; p = 0.000) | -0.206 (CI = +/-0.181; p = 0.029) | 0.779        | -12.46%            |
| Frequency | 2013.2     | -0.129 (CI = +/-0.058; p = 0.001) | -0.215 (CI = +/-0.202; p = 0.039) | 0.750        | -12.08%            |
| Frequency | 2014.1     | -0.124 (CI = +/-0.071; p = 0.004) | -0.207 (CI = +/-0.225; p = 0.066) | 0.654        | -11.68%            |
| Frequency | 2014.2     | -0.128 (CI = +/-0.091; p = 0.013) | -0.200 (CI = +/-0.261; p = 0.112) | 0.625        | -12.01%            |
| Frequency | 2015.1     | -0.146 (CI = +/-0.111; p = 0.019) | -0.227 (CI = +/-0.290; p = 0.103) | 0.599        | -13.58%            |
| Frequency | 2015.2     | -0.184 (CI = +/-0.138; p = 0.019) | -0.171 (CI = +/-0.317; p = 0.223) | 0.674        | -16.77%            |
| Frequency | 2016.1     | -0.234 (CI = +/-0.152; p = 0.013) | -0.230 (CI = +/-0.308; p = 0.106) | 0.774        | -20.88%            |
| Frequency | 2016.2     | -0.325 (CI = +/-0.082; p = 0.001) | -0.125 (CI = +/-0.140; p = 0.066) | 0.976        | -27.73%            |
| Frequency | 2017.1     | -0.312 (CI = +/-0.158; p = 0.014) | -0.114 (CI = +/-0.228; p = 0.165) | 0.949        | -26.77%            |

**All Perils**

Coverage = AP

End Trend Period = 2022.1

Excluded Points = 2010.2, 2012.2, 2016.2

Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R^2 | Implied Trend |
|-----------|------------|-----------------------------------|-----------------------------------|--------------|---------------|
|           |            |                                   |                                   |              | Rate          |
| Loss Cost | 2003.1     | 0.039 (CI = +/-0.012; p = 0.000)  | -0.215 (CI = +/-0.139; p = 0.004) | 0.599        | +4.01%        |
| Loss Cost | 2003.2     | 0.038 (CI = +/-0.013; p = 0.000)  | -0.207 (CI = +/-0.142; p = 0.006) | 0.559        | +3.87%        |
| Loss Cost | 2004.1     | 0.035 (CI = +/-0.013; p = 0.000)  | -0.227 (CI = +/-0.141; p = 0.003) | 0.552        | +3.58%        |
| Loss Cost | 2004.2     | 0.032 (CI = +/-0.013; p = 0.000)  | -0.210 (CI = +/-0.140; p = 0.005) | 0.499        | +3.30%        |
| Loss Cost | 2005.1     | 0.030 (CI = +/-0.013; p = 0.000)  | -0.228 (CI = +/-0.141; p = 0.002) | 0.492        | +3.03%        |
| Loss Cost | 2005.2     | 0.030 (CI = +/-0.014; p = 0.000)  | -0.226 (CI = +/-0.145; p = 0.003) | 0.456        | +3.00%        |
| Loss Cost | 2006.1     | 0.026 (CI = +/-0.015; p = 0.001)  | -0.247 (CI = +/-0.146; p = 0.002) | 0.456        | +2.68%        |
| Loss Cost | 2006.2     | 0.023 (CI = +/-0.015; p = 0.004)  | -0.232 (CI = +/-0.146; p = 0.003) | 0.392        | +2.38%        |
| Loss Cost | 2007.1     | 0.020 (CI = +/-0.016; p = 0.015)  | -0.255 (CI = +/-0.145; p = 0.001) | 0.408        | +1.99%        |
| Loss Cost | 2007.2     | 0.018 (CI = +/-0.017; p = 0.036)  | -0.247 (CI = +/-0.149; p = 0.002) | 0.355        | +1.80%        |
| Loss Cost | 2008.1     | 0.015 (CI = +/-0.018; p = 0.089)  | -0.263 (CI = +/-0.154; p = 0.002) | 0.366        | +1.53%        |
| Loss Cost | 2008.2     | 0.011 (CI = +/-0.018; p = 0.226)  | -0.246 (CI = +/-0.153; p = 0.003) | 0.307        | +1.11%        |
| Loss Cost | 2009.1     | 0.007 (CI = +/-0.020; p = 0.456)  | -0.267 (CI = +/-0.157; p = 0.002) | 0.337        | +0.72%        |
| Loss Cost | 2009.2     | 0.007 (CI = +/-0.022; p = 0.493)  | -0.267 (CI = +/-0.163; p = 0.003) | 0.318        | +0.72%        |
| Loss Cost | 2010.1     | 0.001 (CI = +/-0.023; p = 0.922)  | -0.298 (CI = +/-0.166; p = 0.001) | 0.372        | +0.11%        |
| Loss Cost | 2011.1     | -0.004 (CI = +/-0.025; p = 0.763) | -0.286 (CI = +/-0.168; p = 0.002) | 0.351        | -0.36%        |
| Loss Cost | 2011.2     | -0.007 (CI = +/-0.027; p = 0.619) | -0.277 (CI = +/-0.175; p = 0.004) | 0.333        | -0.65%        |
| Loss Cost | 2012.1     | -0.010 (CI = +/-0.031; p = 0.492) | -0.292 (CI = +/-0.186; p = 0.004) | 0.338        | -1.01%        |
| Loss Cost | 2013.1     | -0.023 (CI = +/-0.030; p = 0.125) | -0.261 (CI = +/-0.170; p = 0.005) | 0.395        | -2.27%        |
| Loss Cost | 2013.2     | -0.015 (CI = +/-0.032; p = 0.340) | -0.285 (CI = +/-0.171; p = 0.003) | 0.437        | -1.47%        |
| Loss Cost | 2014.1     | -0.017 (CI = +/-0.037; p = 0.325) | -0.293 (CI = +/-0.184; p = 0.004) | 0.415        | -1.71%        |
| Loss Cost | 2014.2     | -0.024 (CI = +/-0.041; p = 0.233) | -0.277 (CI = +/-0.193; p = 0.009) | 0.413        | -2.35%        |
| Loss Cost | 2015.1     | -0.021 (CI = +/-0.048; p = 0.366) | -0.268 (CI = +/-0.212; p = 0.018) | 0.326        | -2.05%        |
| Loss Cost | 2015.2     | -0.033 (CI = +/-0.055; p = 0.214) | -0.244 (CI = +/-0.219; p = 0.033) | 0.340        | -3.22%        |
| Loss Cost | 2016.1     | -0.040 (CI = +/-0.068; p = 0.219) | -0.260 (CI = +/-0.247; p = 0.041) | 0.299        | -3.88%        |
| Loss Cost | 2017.1     | -0.060 (CI = +/-0.080; p = 0.124) | -0.234 (CI = +/-0.254; p = 0.067) | 0.352        | -5.79%        |
| Severity  | 2003.1     | 0.065 (CI = +/-0.015; p = 0.000)  | -0.105 (CI = +/-0.174; p = 0.229) | 0.690        | +6.68%        |
| Severity  | 2003.2     | 0.067 (CI = +/-0.015; p = 0.000)  | -0.120 (CI = +/-0.176; p = 0.173) | 0.694        | +6.93%        |
| Severity  | 2004.1     | 0.069 (CI = +/-0.016; p = 0.000)  | -0.109 (CI = +/-0.180; p = 0.226) | 0.691        | +7.09%        |
| Severity  | 2004.2     | 0.070 (CI = +/-0.017; p = 0.000)  | -0.118 (CI = +/-0.185; p = 0.200) | 0.683        | +7.26%        |
| Severity  | 2005.1     | 0.071 (CI = +/-0.018; p = 0.000)  | -0.110 (CI = +/-0.190; p = 0.249) | 0.676        | +7.39%        |
| Severity  | 2005.2     | 0.073 (CI = +/-0.019; p = 0.000)  | -0.120 (CI = +/-0.195; p = 0.217) | 0.668        | +7.60%        |
| Severity  | 2006.1     | 0.074 (CI = +/-0.020; p = 0.000)  | -0.118 (CI = +/-0.203; p = 0.244) | 0.652        | +7.64%        |
| Severity  | 2006.2     | 0.074 (CI = +/-0.022; p = 0.000)  | -0.120 (CI = +/-0.210; p = 0.251) | 0.627        | +7.68%        |
| Severity  | 2007.1     | 0.074 (CI = +/-0.024; p = 0.000)  | -0.121 (CI = +/-0.220; p = 0.267) | 0.606        | +7.66%        |
| Severity  | 2007.2     | 0.075 (CI = +/-0.025; p = 0.000)  | -0.126 (CI = +/-0.227; p = 0.263) | 0.582        | +7.79%        |
| Severity  | 2008.1     | 0.077 (CI = +/-0.027; p = 0.000)  | -0.113 (CI = +/-0.237; p = 0.335) | 0.575        | +8.02%        |
| Severity  | 2008.2     | 0.081 (CI = +/-0.029; p = 0.000)  | -0.127 (CI = +/-0.244; p = 0.293) | 0.567        | +8.39%        |
| Severity  | 2009.1     | 0.089 (CI = +/-0.030; p = 0.000)  | -0.079 (CI = +/-0.243; p = 0.505) | 0.615        | +9.33%        |
| Severity  | 2009.2     | 0.106 (CI = +/-0.025; p = 0.000)  | -0.134 (CI = +/-0.192; p = 0.160) | 0.777        | +11.13%       |
| Severity  | 2010.1     | 0.121 (CI = +/-0.021; p = 0.000)  | -0.054 (CI = +/-0.149; p = 0.458) | 0.882        | +12.92%       |
| Severity  | 2011.1     | 0.134 (CI = +/-0.017; p = 0.000)  | -0.085 (CI = +/-0.112; p = 0.129) | 0.936        | +14.29%       |
| Severity  | 2011.2     | 0.134 (CI = +/-0.018; p = 0.000)  | -0.088 (CI = +/-0.117; p = 0.133) | 0.926        | +14.39%       |
| Severity  | 2012.1     | 0.135 (CI = +/-0.021; p = 0.000)  | -0.085 (CI = +/-0.126; p = 0.174) | 0.916        | +14.48%       |
| Severity  | 2013.1     | 0.128 (CI = +/-0.021; p = 0.000)  | -0.066 (CI = +/-0.120; p = 0.257) | 0.906        | +13.63%       |
| Severity  | 2013.2     | 0.135 (CI = +/-0.022; p = 0.000)  | -0.088 (CI = +/-0.116; p = 0.125) | 0.916        | +14.46%       |
| Severity  | 2014.1     | 0.131 (CI = +/-0.024; p = 0.000)  | -0.101 (CI = +/-0.122; p = 0.096) | 0.903        | +14.00%       |
| Severity  | 2014.2     | 0.127 (CI = +/-0.027; p = 0.000)  | -0.091 (CI = +/-0.129; p = 0.148) | 0.878        | +13.55%       |
| Severity  | 2015.1     | 0.137 (CI = +/-0.029; p = 0.000)  | -0.063 (CI = +/-0.126; p = 0.295) | 0.896        | +14.70%       |
| Severity  | 2015.2     | 0.136 (CI = +/-0.034; p = 0.000)  | -0.060 (CI = +/-0.137; p = 0.349) | 0.864        | +14.56%       |
| Severity  | 2016.1     | 0.142 (CI = +/-0.042; p = 0.000)  | -0.047 (CI = +/-0.153; p = 0.505) | 0.844        | +15.21%       |
| Severity  | 2017.1     | 0.131 (CI = +/-0.051; p = 0.000)  | -0.033 (CI = +/-0.161; p = 0.646) | 0.772        | +14.04%       |
| Frequency | 2003.1     | -0.025 (CI = +/-0.021; p = 0.020) | -0.110 (CI = +/-0.248; p = 0.372) | 0.120        | -2.51%        |
| Frequency | 2003.2     | -0.029 (CI = +/-0.022; p = 0.011) | -0.087 (CI = +/-0.250; p = 0.485) | 0.149        | -2.86%        |
| Frequency | 2004.1     | -0.033 (CI = +/-0.023; p = 0.005) | -0.118 (CI = +/-0.250; p = 0.345) | 0.196        | -3.28%        |
| Frequency | 2004.2     | -0.038 (CI = +/-0.023; p = 0.002) | -0.091 (CI = +/-0.251; p = 0.463) | 0.234        | -3.69%        |
| Frequency | 2005.1     | -0.042 (CI = +/-0.024; p = 0.001) | -0.118 (CI = +/-0.254; p = 0.349) | 0.266        | -4.07%        |
| Frequency | 2005.2     | -0.044 (CI = +/-0.026; p = 0.002) | -0.106 (CI = +/-0.261; p = 0.413) | 0.271        | -4.27%        |
| Frequency | 2006.1     | -0.047 (CI = +/-0.027; p = 0.001) | -0.129 (CI = +/-0.268; p = 0.332) | 0.288        | -4.61%        |
| Frequency | 2006.2     | -0.051 (CI = +/-0.029; p = 0.001) | -0.112 (CI = +/-0.274; p = 0.410) | 0.302        | -4.93%        |
| Frequency | 2007.1     | -0.054 (CI = +/-0.030; p = 0.001) | -0.134 (CI = +/-0.283; p = 0.337) | 0.311        | -5.27%        |
| Frequency | 2007.2     | -0.057 (CI = +/-0.033; p = 0.001) | -0.121 (CI = +/-0.291; p = 0.400) | 0.316        | -5.55%        |
| Frequency | 2008.1     | -0.062 (CI = +/-0.035; p = 0.001) | -0.150 (CI = +/-0.301; p = 0.315) | 0.330        | -6.01%        |
| Frequency | 2008.2     | -0.070 (CI = +/-0.036; p = 0.001) | -0.119 (CI = +/-0.301; p = 0.421) | 0.375        | -6.71%        |
| Frequency | 2009.1     | -0.082 (CI = +/-0.037; p = 0.000) | -0.188 (CI = +/-0.293; p = 0.196) | 0.472        | -7.88%        |
| Frequency | 2009.2     | -0.098 (CI = +/-0.034; p = 0.000) | -0.133 (CI = +/-0.257; p = 0.291) | 0.618        | -9.36%        |
| Frequency | 2010.1     | -0.120 (CI = +/-0.027; p = 0.000) | -0.245 (CI = +/-0.192; p = 0.015) | 0.811        | -11.34%       |
| Frequency | 2011.1     | -0.137 (CI = +/-0.020; p = 0.000) | -0.201 (CI = +/-0.134; p = 0.005) | 0.915        | -12.82%       |
| Frequency | 2011.2     | -0.141 (CI = +/-0.021; p = 0.000) | -0.189 (CI = +/-0.137; p = 0.010) | 0.914        | -13.15%       |
| Frequency | 2012.1     | -0.145 (CI = +/-0.024; p = 0.000) | -0.207 (CI = +/-0.143; p = 0.007) | 0.905        | -13.53%       |
| Frequency | 2013.1     | -0.151 (CI = +/-0.026; p = 0.000) | -0.194 (CI = +/-0.145; p = 0.012) | 0.904        | -13.99%       |
| Frequency | 2013.2     | -0.150 (CI = +/-0.029; p = 0.000) | -0.197 (CI = +/-0.155; p = 0.017) | 0.891        | -13.91%       |
| Frequency | 2014.1     | -0.148 (CI = +/-0.033; p = 0.000) | -0.192 (CI = +/-0.168; p = 0.028) | 0.863        | -13.78%       |
| Frequency | 2014.2     | -0.151 (CI = +/-0.038; p = 0.000) | -0.185 (CI = +/-0.180; p = 0.044) | 0.849        | -14.00%       |
| Frequency | 2015.1     | -0.158 (CI = +/-0.044; p = 0.000) | -0.205 (CI = +/-0.193; p = 0.039) | 0.829        | -14.60%       |
| Frequency | 2015.2     | -0.169 (CI = +/-0.050; p = 0.000) | -0.183 (CI = +/-0.200; p = 0.068) | 0.833        | -15.53%       |
| Frequency | 2016.1     | -0.181 (CI = +/-0.060; p = 0.000) | -0.213 (CI = +/-0.217; p = 0.053) | 0.810        | -16.57%       |
| Frequency | 2017.1     | -0.191 (CI = +/-0.074; p = 0.000) | -0.200 (CI = +/-0.235; p = 0.085) | 0.788        | -17.39%       |

**All Perils**

Coverage = AP

End Trend Period = 2021.2

Excluded Points = 2010.2, 2012.2, 2016.2

Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R^2 | Implied Trend |
|-----------|------------|-----------------------------------|-----------------------------------|--------------|---------------|
|           |            |                                   |                                   |              | Rate          |
| Loss Cost | 2003.1     | 0.043 (CI = +/-0.012; p = 0.000)  | -0.192 (CI = +/-0.133; p = 0.006) | 0.652        | +4.39%        |
| Loss Cost | 2003.2     | 0.042 (CI = +/-0.012; p = 0.000)  | -0.185 (CI = +/-0.136; p = 0.009) | 0.617        | +4.26%        |
| Loss Cost | 2004.1     | 0.039 (CI = +/-0.013; p = 0.000)  | -0.204 (CI = +/-0.136; p = 0.004) | 0.607        | +3.98%        |
| Loss Cost | 2004.2     | 0.036 (CI = +/-0.013; p = 0.000)  | -0.188 (CI = +/-0.134; p = 0.008) | 0.560        | +3.69%        |
| Loss Cost | 2005.1     | 0.034 (CI = +/-0.013; p = 0.000)  | -0.205 (CI = +/-0.136; p = 0.004) | 0.549        | +3.43%        |
| Loss Cost | 2005.2     | 0.034 (CI = +/-0.014; p = 0.000)  | -0.204 (CI = +/-0.140; p = 0.006) | 0.515        | +3.42%        |
| Loss Cost | 2006.1     | 0.031 (CI = +/-0.015; p = 0.000)  | -0.224 (CI = +/-0.142; p = 0.003) | 0.508        | +3.11%        |
| Loss Cost | 2006.2     | 0.028 (CI = +/-0.015; p = 0.001)  | -0.210 (CI = +/-0.142; p = 0.005) | 0.446        | +2.81%        |
| Loss Cost | 2007.1     | 0.024 (CI = +/-0.016; p = 0.005)  | -0.233 (CI = +/-0.142; p = 0.003) | 0.450        | +2.43%        |
| Loss Cost | 2007.2     | 0.022 (CI = +/-0.017; p = 0.012)  | -0.225 (CI = +/-0.146; p = 0.004) | 0.395        | +2.25%        |
| Loss Cost | 2008.1     | 0.020 (CI = +/-0.018; p = 0.034)  | -0.239 (CI = +/-0.152; p = 0.004) | 0.396        | +2.01%        |
| Loss Cost | 2008.2     | 0.016 (CI = +/-0.019; p = 0.099)  | -0.224 (CI = +/-0.151; p = 0.006) | 0.327        | +1.59%        |
| Loss Cost | 2009.1     | 0.012 (CI = +/-0.021; p = 0.235)  | -0.244 (CI = +/-0.158; p = 0.004) | 0.343        | +1.22%        |
| Loss Cost | 2009.2     | 0.012 (CI = +/-0.023; p = 0.265)  | -0.245 (CI = +/-0.164; p = 0.006) | 0.320        | +1.25%        |
| Loss Cost | 2010.1     | 0.006 (CI = +/-0.025; p = 0.594)  | -0.275 (CI = +/-0.170; p = 0.003) | 0.358        | +0.64%        |
| Loss Cost | 2011.1     | 0.002 (CI = +/-0.027; p = 0.896)  | -0.265 (CI = +/-0.172; p = 0.005) | 0.319        | +0.17%        |
| Loss Cost | 2011.2     | -0.001 (CI = +/-0.029; p = 0.937) | -0.257 (CI = +/-0.179; p = 0.008) | 0.288        | -0.11%        |
| Loss Cost | 2012.1     | -0.004 (CI = +/-0.034; p = 0.797) | -0.269 (CI = +/-0.194; p = 0.010) | 0.287        | -0.41%        |
| Loss Cost | 2013.1     | -0.017 (CI = +/-0.033; p = 0.279) | -0.243 (CI = +/-0.177; p = 0.011) | 0.311        | -1.73%        |
| Loss Cost | 2013.2     | -0.008 (CI = +/-0.035; p = 0.610) | -0.267 (CI = +/-0.176; p = 0.006) | 0.371        | -0.85%        |
| Loss Cost | 2014.1     | -0.010 (CI = +/-0.041; p = 0.604) | -0.271 (CI = +/-0.194; p = 0.010) | 0.344        | -1.00%        |
| Loss Cost | 2014.2     | -0.016 (CI = +/-0.046; p = 0.452) | -0.257 (CI = +/-0.204; p = 0.018) | 0.321        | -1.63%        |
| Loss Cost | 2015.1     | -0.010 (CI = +/-0.056; p = 0.690) | -0.240 (CI = +/-0.227; p = 0.040) | 0.229        | -1.02%        |
| Loss Cost | 2015.2     | -0.022 (CI = +/-0.064; p = 0.445) | -0.220 (CI = +/-0.236; p = 0.064) | 0.205        | -2.22%        |
| Loss Cost | 2016.1     | -0.027 (CI = +/-0.084; p = 0.480) | -0.231 (CI = +/-0.279; p = 0.093) | 0.144        | -2.65%        |
| Loss Cost | 2017.1     | -0.048 (CI = +/-0.101; p = 0.296) | -0.213 (CI = +/-0.291; p = 0.127) | 0.160        | -4.72%        |
|           |            |                                   |                                   |              |               |
| Severity  | 2003.1     | 0.062 (CI = +/-0.015; p = 0.000)  | -0.121 (CI = +/-0.175; p = 0.170) | 0.668        | +6.41%        |
| Severity  | 2003.2     | 0.064 (CI = +/-0.016; p = 0.000)  | -0.135 (CI = +/-0.177; p = 0.129) | 0.673        | +6.66%        |
| Severity  | 2004.1     | 0.066 (CI = +/-0.017; p = 0.000)  | -0.125 (CI = +/-0.182; p = 0.172) | 0.669        | +6.81%        |
| Severity  | 2004.2     | 0.067 (CI = +/-0.018; p = 0.000)  | -0.134 (CI = +/-0.187; p = 0.154) | 0.659        | +6.97%        |
| Severity  | 2005.1     | 0.069 (CI = +/-0.019; p = 0.000)  | -0.126 (CI = +/-0.193; p = 0.194) | 0.651        | +7.09%        |
| Severity  | 2005.2     | 0.070 (CI = +/-0.020; p = 0.000)  | -0.136 (CI = +/-0.198; p = 0.171) | 0.642        | +7.30%        |
| Severity  | 2006.1     | 0.071 (CI = +/-0.022; p = 0.000)  | -0.135 (CI = +/-0.207; p = 0.192) | 0.625        | +7.31%        |
| Severity  | 2006.2     | 0.071 (CI = +/-0.023; p = 0.000)  | -0.136 (CI = +/-0.214; p = 0.201) | 0.597        | +7.34%        |
| Severity  | 2007.1     | 0.070 (CI = +/-0.025; p = 0.000)  | -0.140 (CI = +/-0.225; p = 0.211) | 0.575        | +7.28%        |
| Severity  | 2007.2     | 0.071 (CI = +/-0.027; p = 0.000)  | -0.144 (CI = +/-0.232; p = 0.212) | 0.548        | +7.39%        |
| Severity  | 2008.1     | 0.073 (CI = +/-0.029; p = 0.000)  | -0.133 (CI = +/-0.245; p = 0.273) | 0.539        | +7.60%        |
| Severity  | 2008.2     | 0.077 (CI = +/-0.031; p = 0.000)  | -0.145 (CI = +/-0.251; p = 0.243) | 0.530        | +7.97%        |
| Severity  | 2009.1     | 0.086 (CI = +/-0.033; p = 0.000)  | -0.095 (CI = +/-0.253; p = 0.442) | 0.578        | +8.96%        |
| Severity  | 2009.2     | 0.103 (CI = +/-0.028; p = 0.000)  | -0.146 (CI = +/-0.200; p = 0.144) | 0.754        | +10.84%       |
| Severity  | 2010.1     | 0.121 (CI = +/-0.023; p = 0.000)  | -0.056 (CI = +/-0.158; p = 0.464) | 0.868        | +12.85%       |
| Severity  | 2011.1     | 0.134 (CI = +/-0.018; p = 0.000)  | -0.084 (CI = +/-0.119; p = 0.156) | 0.929        | +14.32%       |
| Severity  | 2011.2     | 0.135 (CI = +/-0.020; p = 0.000)  | -0.086 (CI = +/-0.124; p = 0.161) | 0.917        | +14.43%       |
| Severity  | 2012.1     | 0.136 (CI = +/-0.024; p = 0.000)  | -0.082 (CI = +/-0.136; p = 0.214) | 0.906        | +14.55%       |
| Severity  | 2013.1     | 0.128 (CI = +/-0.024; p = 0.000)  | -0.066 (CI = +/-0.129; p = 0.289) | 0.892        | +13.63%       |
| Severity  | 2013.2     | 0.135 (CI = +/-0.025; p = 0.000)  | -0.087 (CI = +/-0.124; p = 0.155) | 0.904        | +14.51%       |
| Severity  | 2014.1     | 0.131 (CI = +/-0.028; p = 0.000)  | -0.102 (CI = +/-0.133; p = 0.119) | 0.888        | +13.96%       |
| Severity  | 2014.2     | 0.126 (CI = +/-0.032; p = 0.000)  | -0.093 (CI = +/-0.140; p = 0.172) | 0.857        | +13.48%       |
| Severity  | 2015.1     | 0.139 (CI = +/-0.034; p = 0.000)  | -0.058 (CI = +/-0.140; p = 0.379) | 0.880        | +14.92%       |
| Severity  | 2015.2     | 0.138 (CI = +/-0.041; p = 0.000)  | -0.056 (CI = +/-0.152; p = 0.428) | 0.841        | +14.79%       |
| Severity  | 2016.1     | 0.147 (CI = +/-0.053; p = 0.000)  | -0.035 (CI = +/-0.175; p = 0.657) | 0.820        | +15.81%       |
| Severity  | 2017.1     | 0.136 (CI = +/-0.065; p = 0.002)  | -0.026 (CI = +/-0.186; p = 0.754) | 0.726        | +14.52%       |
|           |            |                                   |                                   |              |               |
| Frequency | 2003.1     | -0.019 (CI = +/-0.021; p = 0.072) | -0.072 (CI = +/-0.239; p = 0.545) | 0.050        | -1.90%        |
| Frequency | 2003.2     | -0.023 (CI = +/-0.022; p = 0.040) | -0.050 (CI = +/-0.240; p = 0.676) | 0.077        | -2.25%        |
| Frequency | 2004.1     | -0.027 (CI = +/-0.022; p = 0.020) | -0.079 (CI = +/-0.242; p = 0.509) | 0.119        | -2.65%        |
| Frequency | 2004.2     | -0.031 (CI = +/-0.023; p = 0.010) | -0.055 (CI = +/-0.242; p = 0.648) | 0.158        | -3.07%        |
| Frequency | 2005.1     | -0.035 (CI = +/-0.024; p = 0.006) | -0.079 (CI = +/-0.247; p = 0.516) | 0.187        | -3.42%        |
| Frequency | 2005.2     | -0.037 (CI = +/-0.026; p = 0.007) | -0.069 (CI = +/-0.254; p = 0.583) | 0.193        | -3.61%        |
| Frequency | 2006.1     | -0.040 (CI = +/-0.027; p = 0.006) | -0.089 (CI = +/-0.262; p = 0.492) | 0.206        | -3.91%        |
| Frequency | 2006.2     | -0.043 (CI = +/-0.029; p = 0.005) | -0.073 (CI = +/-0.268; p = 0.578) | 0.222        | -4.22%        |
| Frequency | 2007.1     | -0.046 (CI = +/-0.031; p = 0.005) | -0.093 (CI = +/-0.279; p = 0.499) | 0.227        | -4.52%        |
| Frequency | 2007.2     | -0.049 (CI = +/-0.033; p = 0.006) | -0.081 (CI = +/-0.288; p = 0.565) | 0.231        | -4.79%        |
| Frequency | 2008.1     | -0.053 (CI = +/-0.036; p = 0.005) | -0.107 (CI = +/-0.300; p = 0.470) | 0.241        | -5.20%        |
| Frequency | 2008.2     | -0.061 (CI = +/-0.038; p = 0.003) | -0.079 (CI = +/-0.301; p = 0.590) | 0.291        | -5.91%        |
| Frequency | 2009.1     | -0.074 (CI = +/-0.039; p = 0.001) | -0.149 (CI = +/-0.296; p = 0.308) | 0.389        | -7.11%        |
| Frequency | 2009.2     | -0.090 (CI = +/-0.036; p = 0.000) | -0.099 (CI = +/-0.258; p = 0.431) | 0.557        | -8.65%        |
| Frequency | 2010.1     | -0.115 (CI = +/-0.029; p = 0.000) | -0.219 (CI = +/-0.198; p = 0.032) | 0.776        | -10.83%       |
| Frequency | 2011.1     | -0.132 (CI = +/-0.021; p = 0.000) | -0.181 (CI = +/-0.135; p = 0.012) | 0.903        | -12.38%       |
| Frequency | 2011.2     | -0.136 (CI = +/-0.023; p = 0.000) | -0.171 (CI = +/-0.138; p = 0.018) | 0.900        | -12.71%       |
| Frequency | 2012.1     | -0.140 (CI = +/-0.026; p = 0.000) | -0.187 (CI = +/-0.148; p = 0.017) | 0.887        | -13.06%       |
| Frequency | 2013.1     | -0.145 (CI = +/-0.028; p = 0.000) | -0.176 (CI = +/-0.150; p = 0.025) | 0.884        | -13.52%       |
| Frequency | 2013.2     | -0.144 (CI = +/-0.032; p = 0.000) | -0.180 (CI = +/-0.160; p = 0.031) | 0.867        | -13.41%       |
| Frequency | 2014.1     | -0.141 (CI = +/-0.037; p = 0.000) | -0.169 (CI = +/-0.175; p = 0.056) | 0.828        | -13.13%       |
| Frequency | 2014.2     | -0.143 (CI = +/-0.043; p = 0.000) | -0.164 (CI = +/-0.188; p = 0.080) | 0.808        | -13.32%       |
| Frequency | 2015.1     | -0.149 (CI = +/-0.051; p = 0.000) | -0.182 (CI = +/-0.208; p = 0.080) | 0.772        | -13.87%       |
| Frequency | 2015.2     | -0.160 (CI = +/-0.059; p = 0.000) | -0.165 (CI = +/-0.217; p = 0.120) | 0.774        | -14.82%       |
| Frequency | 2016.1     | -0.174 (CI = +/-0.075; p = 0.001) | -0.196 (CI = +/-0.249; p = 0.107) | 0.727        | -15.94%       |
| Frequency | 2017.1     | -0.184 (CI = +/-0.095; p = 0.002) | -0.187 (CI = +/-0.272; p = 0.147) | 0.688        | -16.80%       |

**All Perils**

Coverage = AP

End Trend Period = 2019.2

Excluded Points = 2010.2, 2012.2, 2016.2

Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R^2 | Implied Trend |
|-----------|------------|-----------------------------------|-----------------------------------|--------------|---------------|
|           |            |                                   |                                   |              | Rate          |
| Loss Cost | 2003.1     | 0.055 (CI = +/-0.011; p = 0.000)  | -0.196 (CI = +/-0.111; p = 0.001) | 0.795        | +5.60%        |
| Loss Cost | 2003.2     | 0.054 (CI = +/-0.012; p = 0.000)  | -0.192 (CI = +/-0.114; p = 0.002) | 0.770        | +5.52%        |
| Loss Cost | 2004.1     | 0.051 (CI = +/-0.012; p = 0.000)  | -0.209 (CI = +/-0.114; p = 0.001) | 0.766        | +5.24%        |
| Loss Cost | 2004.2     | 0.048 (CI = +/-0.012; p = 0.000)  | -0.194 (CI = +/-0.113; p = 0.002) | 0.737        | +4.95%        |
| Loss Cost | 2005.1     | 0.046 (CI = +/-0.013; p = 0.000)  | -0.208 (CI = +/-0.114; p = 0.001) | 0.729        | +4.70%        |
| Loss Cost | 2005.2     | 0.047 (CI = +/-0.014; p = 0.000)  | -0.212 (CI = +/-0.119; p = 0.001) | 0.708        | +4.78%        |
| Loss Cost | 2006.1     | 0.044 (CI = +/-0.014; p = 0.000)  | -0.229 (CI = +/-0.120; p = 0.001) | 0.704        | +4.48%        |
| Loss Cost | 2006.2     | 0.041 (CI = +/-0.015; p = 0.000)  | -0.216 (CI = +/-0.121; p = 0.001) | 0.657        | +4.19%        |
| Loss Cost | 2007.1     | 0.037 (CI = +/-0.016; p = 0.000)  | -0.237 (CI = +/-0.122; p = 0.001) | 0.661        | +3.79%        |
| Loss Cost | 2007.2     | 0.036 (CI = +/-0.017; p = 0.000)  | -0.233 (CI = +/-0.127; p = 0.001) | 0.613        | +3.68%        |
| Loss Cost | 2008.1     | 0.034 (CI = +/-0.019; p = 0.001)  | -0.242 (CI = +/-0.134; p = 0.001) | 0.608        | +3.48%        |
| Loss Cost | 2008.2     | 0.030 (CI = +/-0.020; p = 0.005)  | -0.229 (CI = +/-0.134; p = 0.002) | 0.541        | +3.05%        |
| Loss Cost | 2009.1     | 0.027 (CI = +/-0.022; p = 0.019)  | -0.245 (CI = +/-0.142; p = 0.002) | 0.545        | +2.69%        |
| Loss Cost | 2009.2     | 0.029 (CI = +/-0.024; p = 0.022)  | -0.250 (CI = +/-0.148; p = 0.003) | 0.530        | +2.93%        |
| Loss Cost | 2010.1     | 0.023 (CI = +/-0.027; p = 0.096)  | -0.278 (CI = +/-0.157; p = 0.002) | 0.551        | +2.28%        |
| Loss Cost | 2011.1     | 0.018 (CI = +/-0.030; p = 0.222)  | -0.270 (CI = +/-0.162; p = 0.003) | 0.490        | +1.82%        |
| Loss Cost | 2011.2     | 0.016 (CI = +/-0.035; p = 0.329)  | -0.266 (CI = +/-0.172; p = 0.006) | 0.436        | +1.63%        |
| Loss Cost | 2012.1     | 0.015 (CI = +/-0.042; p = 0.461)  | -0.272 (CI = +/-0.193; p = 0.010) | 0.428        | +1.46%        |
| Loss Cost | 2013.1     | -0.004 (CI = +/-0.040; p = 0.816) | -0.244 (CI = +/-0.167; p = 0.009) | 0.417        | -0.43%        |
| Loss Cost | 2013.2     | 0.013 (CI = +/-0.036; p = 0.416)  | -0.282 (CI = +/-0.139; p = 0.001) | 0.642        | +1.36%        |
| Loss Cost | 2014.1     | 0.015 (CI = +/-0.044; p = 0.465)  | -0.279 (CI = +/-0.160; p = 0.004) | 0.620        | +1.48%        |
| Loss Cost | 2014.2     | 0.008 (CI = +/-0.053; p = 0.720)  | -0.268 (CI = +/-0.176; p = 0.009) | 0.554        | +0.85%        |
| Loss Cost | 2015.1     | 0.028 (CI = +/-0.063; p = 0.320)  | -0.226 (CI = +/-0.189; p = 0.026) | 0.557        | +2.82%        |
| Loss Cost | 2015.2     | 0.012 (CI = +/-0.077; p = 0.696)  | -0.208 (CI = +/-0.204; p = 0.047) | 0.434        | +1.26%        |
| Loss Cost | 2016.1     | 0.025 (CI = +/-0.129; p = 0.619)  | -0.186 (CI = +/-0.290; p = 0.149) | 0.361        | +2.52%        |
| Loss Cost | 2017.1     | -0.017 (CI = +/-0.192; p = 0.796) | -0.179 (CI = +/-0.328; p = 0.180) | 0.179        | -1.69%        |
| Severity  | 2003.1     | 0.053 (CI = +/-0.018; p = 0.000)  | -0.135 (CI = +/-0.186; p = 0.147) | 0.538        | +5.40%        |
| Severity  | 2003.2     | 0.055 (CI = +/-0.019; p = 0.000)  | -0.150 (CI = +/-0.190; p = 0.117) | 0.542        | +5.66%        |
| Severity  | 2004.1     | 0.056 (CI = +/-0.021; p = 0.000)  | -0.143 (CI = +/-0.197; p = 0.148) | 0.534        | +5.78%        |
| Severity  | 2004.2     | 0.058 (CI = +/-0.022; p = 0.000)  | -0.150 (CI = +/-0.203; p = 0.141) | 0.518        | +5.93%        |
| Severity  | 2005.1     | 0.058 (CI = +/-0.024; p = 0.000)  | -0.146 (CI = +/-0.213; p = 0.168) | 0.505        | +5.99%        |
| Severity  | 2005.2     | 0.060 (CI = +/-0.025; p = 0.000)  | -0.155 (CI = +/-0.220; p = 0.157) | 0.489        | +6.19%        |
| Severity  | 2006.1     | 0.059 (CI = +/-0.027; p = 0.000)  | -0.160 (CI = +/-0.231; p = 0.164) | 0.466        | +6.10%        |
| Severity  | 2006.2     | 0.059 (CI = +/-0.030; p = 0.000)  | -0.159 (CI = +/-0.241; p = 0.184) | 0.423        | +6.07%        |
| Severity  | 2007.1     | 0.057 (CI = +/-0.032; p = 0.002)  | -0.170 (CI = +/-0.254; p = 0.177) | 0.393        | +5.85%        |
| Severity  | 2007.2     | 0.057 (CI = +/-0.035; p = 0.003)  | -0.172 (CI = +/-0.265; p = 0.191) | 0.353        | +5.90%        |
| Severity  | 2008.1     | 0.058 (CI = +/-0.039; p = 0.006)  | -0.167 (CI = +/-0.283; p = 0.230) | 0.338        | +5.99%        |
| Severity  | 2008.2     | 0.062 (CI = +/-0.043; p = 0.008)  | -0.179 (CI = +/-0.294; p = 0.217) | 0.324        | +6.36%        |
| Severity  | 2009.1     | 0.072 (CI = +/-0.047; p = 0.005)  | -0.130 (CI = +/-0.306; p = 0.382) | 0.373        | +7.47%        |
| Severity  | 2009.2     | 0.096 (CI = +/-0.040; p = 0.000)  | -0.189 (CI = +/-0.243; p = 0.118) | 0.629        | +10.02%       |
| Severity  | 2010.1     | 0.120 (CI = +/-0.034; p = 0.000)  | -0.083 (CI = +/-0.199; p = 0.386) | 0.794        | +12.78%       |
| Severity  | 2011.1     | 0.141 (CI = +/-0.026; p = 0.000)  | -0.116 (CI = +/-0.139; p = 0.095) | 0.907        | +15.09%       |
| Severity  | 2011.2     | 0.144 (CI = +/-0.030; p = 0.000)  | -0.124 (CI = +/-0.147; p = 0.091) | 0.893        | +15.47%       |
| Severity  | 2012.1     | 0.146 (CI = +/-0.036; p = 0.000)  | -0.116 (CI = +/-0.164; p = 0.148) | 0.877        | +15.73%       |
| Severity  | 2013.1     | 0.136 (CI = +/-0.039; p = 0.000)  | -0.101 (CI = +/-0.163; p = 0.198) | 0.842        | +14.53%       |
| Severity  | 2013.2     | 0.152 (CI = +/-0.037; p = 0.000)  | -0.135 (CI = +/-0.143; p = 0.061) | 0.891        | +16.37%       |
| Severity  | 2014.1     | 0.144 (CI = +/-0.044; p = 0.000)  | -0.154 (CI = +/-0.159; p = 0.056) | 0.872        | +15.53%       |
| Severity  | 2014.2     | 0.142 (CI = +/-0.054; p = 0.000)  | -0.150 (CI = +/-0.179; p = 0.088) | 0.821        | +15.29%       |
| Severity  | 2015.1     | 0.169 (CI = +/-0.055; p = 0.000)  | -0.092 (CI = +/-0.166; p = 0.225) | 0.890        | +18.38%       |
| Severity  | 2015.2     | 0.179 (CI = +/-0.071; p = 0.001)  | -0.103 (CI = +/-0.187; p = 0.214) | 0.863        | +19.59%       |
| Severity  | 2016.1     | 0.225 (CI = +/-0.079; p = 0.001)  | -0.022 (CI = +/-0.178; p = 0.746) | 0.929        | +25.17%       |
| Severity  | 2017.1     | 0.247 (CI = +/-0.123; p = 0.008)  | -0.026 (CI = +/-0.210; p = 0.720) | 0.899        | +28.02%       |
| Frequency | 2003.1     | 0.002 (CI = +/-0.022; p = 0.858)  | -0.061 (CI = +/-0.220; p = 0.576) | -0.058       | +0.19%        |
| Frequency | 2003.2     | -0.001 (CI = +/-0.023; p = 0.902) | -0.042 (CI = +/-0.223; p = 0.702) | -0.067       | -0.14%        |
| Frequency | 2004.1     | -0.005 (CI = +/-0.024; p = 0.662) | -0.066 (CI = +/-0.227; p = 0.557) | -0.055       | -0.51%        |
| Frequency | 2004.2     | -0.009 (CI = +/-0.025; p = 0.450) | -0.044 (CI = +/-0.230; p = 0.696) | -0.048       | -0.92%        |
| Frequency | 2005.1     | -0.012 (CI = +/-0.026; p = 0.349) | -0.062 (CI = +/-0.238; p = 0.594) | -0.033       | -1.21%        |
| Frequency | 2005.2     | -0.013 (CI = +/-0.028; p = 0.341) | -0.057 (CI = +/-0.247; p = 0.638) | -0.034       | -1.32%        |
| Frequency | 2006.1     | -0.015 (CI = +/-0.031; p = 0.309) | -0.069 (CI = +/-0.258; p = 0.587) | -0.029       | -1.53%        |
| Frequency | 2006.2     | -0.018 (CI = +/-0.033; p = 0.273) | -0.058 (CI = +/-0.267; p = 0.659) | -0.023       | -1.77%        |
| Frequency | 2007.1     | -0.020 (CI = +/-0.036; p = 0.270) | -0.067 (CI = +/-0.283; p = 0.626) | -0.026       | -1.94%        |
| Frequency | 2007.2     | -0.021 (CI = +/-0.039; p = 0.274) | -0.061 (CI = +/-0.295; p = 0.670) | -0.027       | -2.10%        |
| Frequency | 2008.1     | -0.024 (CI = +/-0.043; p = 0.264) | -0.075 (CI = +/-0.314; p = 0.623) | -0.027       | -2.36%        |
| Frequency | 2008.2     | -0.032 (CI = +/-0.047; p = 0.171) | -0.050 (CI = +/-0.320; p = 0.747) | 0.006        | -3.12%        |
| Frequency | 2009.1     | -0.045 (CI = +/-0.050; p = 0.070) | -0.115 (CI = +/-0.325; p = 0.464) | 0.099        | -4.45%        |
| Frequency | 2009.2     | -0.067 (CI = +/-0.046; p = 0.008) | -0.061 (CI = +/-0.284; p = 0.651) | 0.306        | -6.45%        |
| Frequency | 2010.1     | -0.098 (CI = +/-0.037; p = 0.000) | -0.195 (CI = +/-0.216; p = 0.074) | 0.653        | -9.31%        |
| Frequency | 2011.1     | -0.123 (CI = +/-0.023; p = 0.000) | -0.154 (CI = +/-0.124; p = 0.019) | 0.895        | -11.53%       |
| Frequency | 2011.2     | -0.128 (CI = +/-0.026; p = 0.000) | -0.142 (CI = +/-0.126; p = 0.030) | 0.896        | -11.98%       |
| Frequency | 2012.1     | -0.132 (CI = +/-0.030; p = 0.000) | -0.155 (CI = +/-0.140; p = 0.033) | 0.873        | -12.33%       |
| Frequency | 2013.1     | -0.140 (CI = +/-0.033; p = 0.000) | -0.143 (CI = +/-0.140; p = 0.047) | 0.878        | -13.06%       |
| Frequency | 2013.2     | -0.138 (CI = +/-0.040; p = 0.000) | -0.147 (CI = +/-0.154; p = 0.060) | 0.855        | -12.90%       |
| Frequency | 2014.1     | -0.130 (CI = +/-0.047; p = 0.000) | -0.125 (CI = +/-0.170; p = 0.127) | 0.796        | -12.16%       |
| Frequency | 2014.2     | -0.134 (CI = +/-0.058; p = 0.001) | -0.118 (CI = +/-0.190; p = 0.185) | 0.769        | -12.53%       |
| Frequency | 2015.1     | -0.141 (CI = +/-0.076; p = 0.004) | -0.134 (CI = +/-0.229; p = 0.204) | 0.697        | -13.14%       |
| Frequency | 2015.2     | -0.166 (CI = +/-0.086; p = 0.004) | -0.105 (CI = +/-0.225; p = 0.285) | 0.771        | -15.33%       |
| Frequency | 2016.1     | -0.200 (CI = +/-0.129; p = 0.013) | -0.164 (CI = +/-0.291; p = 0.193) | 0.734        | -18.09%       |
| Frequency | 2017.1     | -0.264 (CI = +/-0.136; p = 0.008) | -0.153 (CI = +/-0.231; p = 0.126) | 0.880        | -23.21%       |

**All Perils**

Coverage = AP

End Trend Period = 2019.1

Excluded Points = 2010.2, 2012.2, 2016.2

Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R^2 | Implied Trend |  |
|-----------|------------|-----------------------------------|-----------------------------------|--------------|---------------|--|
|           |            |                                   |                                   |              | Rate          |  |
| Loss Cost | 2003.1     | 0.056 (CI = +/-0.012; p = 0.000)  | -0.208 (CI = +/-0.113; p = 0.001) | 0.791        | +5.80%        |  |
| Loss Cost | 2003.2     | 0.056 (CI = +/-0.012; p = 0.000)  | -0.204 (CI = +/-0.117; p = 0.001) | 0.765        | +5.73%        |  |
| Loss Cost | 2004.1     | 0.053 (CI = +/-0.013; p = 0.000)  | -0.221 (CI = +/-0.117; p = 0.001) | 0.761        | +5.44%        |  |
| Loss Cost | 2004.2     | 0.050 (CI = +/-0.013; p = 0.000)  | -0.206 (CI = +/-0.117; p = 0.001) | 0.727        | +5.14%        |  |
| Loss Cost | 2005.1     | 0.048 (CI = +/-0.014; p = 0.000)  | -0.219 (CI = +/-0.118; p = 0.001) | 0.719        | +4.89%        |  |
| Loss Cost | 2005.2     | 0.049 (CI = +/-0.015; p = 0.000)  | -0.224 (CI = +/-0.123; p = 0.001) | 0.699        | +5.00%        |  |
| Loss Cost | 2006.1     | 0.046 (CI = +/-0.015; p = 0.000)  | -0.240 (CI = +/-0.124; p = 0.001) | 0.694        | +4.70%        |  |
| Loss Cost | 2006.2     | 0.043 (CI = +/-0.016; p = 0.000)  | -0.227 (CI = +/-0.127; p = 0.001) | 0.642        | +4.39%        |  |
| Loss Cost | 2007.1     | 0.039 (CI = +/-0.017; p = 0.000)  | -0.247 (CI = +/-0.127; p = 0.001) | 0.646        | +4.00%        |  |
| Loss Cost | 2007.2     | 0.038 (CI = +/-0.018; p = 0.000)  | -0.243 (CI = +/-0.133; p = 0.001) | 0.594        | +3.89%        |  |
| Loss Cost | 2008.1     | 0.036 (CI = +/-0.020; p = 0.001)  | -0.252 (CI = +/-0.141; p = 0.001) | 0.589        | +3.70%        |  |
| Loss Cost | 2008.2     | 0.032 (CI = +/-0.022; p = 0.007)  | -0.237 (CI = +/-0.143; p = 0.003) | 0.513        | +3.23%        |  |
| Loss Cost | 2009.1     | 0.028 (CI = +/-0.024; p = 0.023)  | -0.252 (CI = +/-0.151; p = 0.003) | 0.517        | +2.88%        |  |
| Loss Cost | 2009.2     | 0.031 (CI = +/-0.027; p = 0.025)  | -0.260 (CI = +/-0.158; p = 0.003) | 0.506        | +3.18%        |  |
| Loss Cost | 2010.1     | 0.025 (CI = +/-0.030; p = 0.095)  | -0.287 (CI = +/-0.167; p = 0.003) | 0.529        | +2.52%        |  |
| Loss Cost | 2011.1     | 0.020 (CI = +/-0.034; p = 0.223)  | -0.278 (CI = +/-0.175; p = 0.005) | 0.461        | +2.04%        |  |
| Loss Cost | 2011.2     | 0.019 (CI = +/-0.040; p = 0.332)  | -0.274 (CI = +/-0.189; p = 0.009) | 0.404        | +1.87%        |  |
| Loss Cost | 2012.1     | 0.017 (CI = +/-0.048; p = 0.452)  | -0.279 (CI = +/-0.212; p = 0.015) | 0.391        | +1.70%        |  |
| Loss Cost | 2013.1     | -0.006 (CI = +/-0.047; p = 0.794) | -0.240 (CI = +/-0.187; p = 0.017) | 0.375        | -0.56%        |  |
| Loss Cost | 2013.2     | 0.017 (CI = +/-0.044; p = 0.391)  | -0.292 (CI = +/-0.159; p = 0.003) | 0.616        | +1.74%        |  |
| Loss Cost | 2014.1     | 0.019 (CI = +/-0.054; p = 0.438)  | -0.288 (CI = +/-0.182; p = 0.007) | 0.584        | +1.89%        |  |
| Loss Cost | 2014.2     | 0.012 (CI = +/-0.069; p = 0.694)  | -0.275 (CI = +/-0.211; p = 0.019) | 0.507        | +1.18%        |  |
| Loss Cost | 2015.1     | 0.032 (CI = +/-0.081; p = 0.354)  | -0.234 (CI = +/-0.227; p = 0.046) | 0.478        | +3.28%        |  |
| Loss Cost | 2015.2     | 0.013 (CI = +/-0.111; p = 0.768)  | -0.209 (CI = +/-0.267; p = 0.096) | 0.311        | +1.28%        |  |
| Loss Cost | 2016.1     | 0.026 (CI = +/-0.192; p = 0.696)  | -0.188 (CI = +/-0.401; p = 0.234) | 0.148        | +2.63%        |  |
| Loss Cost | 2017.1     | -0.040 (CI = +/-0.385; p = 0.699) | -0.160 (CI = +/-0.556; p = 0.341) | -0.071       | -3.92%        |  |
| Severity  | 2003.1     | 0.049 (CI = +/-0.019; p = 0.000)  | -0.110 (CI = +/-0.187; p = 0.240) | 0.477        | +4.99%        |  |
| Severity  | 2003.2     | 0.051 (CI = +/-0.020; p = 0.000)  | -0.123 (CI = +/-0.192; p = 0.200) | 0.477        | +5.24%        |  |
| Severity  | 2004.1     | 0.052 (CI = +/-0.021; p = 0.000)  | -0.117 (CI = +/-0.200; p = 0.239) | 0.469        | +5.34%        |  |
| Severity  | 2004.2     | 0.053 (CI = +/-0.023; p = 0.000)  | -0.123 (CI = +/-0.208; p = 0.234) | 0.447        | +5.46%        |  |
| Severity  | 2005.1     | 0.054 (CI = +/-0.025; p = 0.000)  | -0.120 (CI = +/-0.217; p = 0.265) | 0.432        | +5.52%        |  |
| Severity  | 2005.2     | 0.055 (CI = +/-0.027; p = 0.000)  | -0.127 (CI = +/-0.226; p = 0.254) | 0.411        | +5.68%        |  |
| Severity  | 2006.1     | 0.054 (CI = +/-0.029; p = 0.001)  | -0.133 (CI = +/-0.237; p = 0.257) | 0.384        | +5.58%        |  |
| Severity  | 2006.2     | 0.053 (CI = +/-0.032; p = 0.002)  | -0.128 (CI = +/-0.248; p = 0.293) | 0.332        | +5.48%        |  |
| Severity  | 2007.1     | 0.051 (CI = +/-0.034; p = 0.006)  | -0.140 (CI = +/-0.261; p = 0.276) | 0.297        | +5.24%        |  |
| Severity  | 2007.2     | 0.051 (CI = +/-0.038; p = 0.012)  | -0.139 (CI = +/-0.274; p = 0.302) | 0.249        | +5.21%        |  |
| Severity  | 2008.1     | 0.051 (CI = +/-0.042; p = 0.019)  | -0.135 (CI = +/-0.293; p = 0.343) | 0.233        | +5.28%        |  |
| Severity  | 2008.2     | 0.054 (CI = +/-0.047; p = 0.025)  | -0.145 (CI = +/-0.308; p = 0.332) | 0.213        | +5.60%        |  |
| Severity  | 2009.1     | 0.065 (CI = +/-0.050; p = 0.015)  | -0.098 (CI = +/-0.319; p = 0.522) | 0.267        | +6.71%        |  |
| Severity  | 2009.2     | 0.091 (CI = +/-0.044; p = 0.001)  | -0.169 (CI = +/-0.259; p = 0.182) | 0.549        | +9.50%        |  |
| Severity  | 2010.1     | 0.116 (CI = +/-0.038; p = 0.000)  | -0.067 (CI = +/-0.210; p = 0.505) | 0.749        | +12.30%       |  |
| Severity  | 2011.1     | 0.139 (CI = +/-0.030; p = 0.000)  | -0.110 (CI = +/-0.151; p = 0.138) | 0.884        | +14.88%       |  |
| Severity  | 2011.2     | 0.142 (CI = +/-0.034; p = 0.000)  | -0.119 (CI = +/-0.161; p = 0.133) | 0.864        | +15.29%       |  |
| Severity  | 2012.1     | 0.144 (CI = +/-0.041; p = 0.000)  | -0.112 (CI = +/-0.180; p = 0.197) | 0.843        | +15.54%       |  |
| Severity  | 2013.1     | 0.131 (CI = +/-0.046; p = 0.000)  | -0.089 (CI = +/-0.180; p = 0.292) | 0.789        | +14.00%       |  |
| Severity  | 2013.2     | 0.151 (CI = +/-0.046; p = 0.000)  | -0.133 (CI = +/-0.165; p = 0.100) | 0.850        | +16.26%       |  |
| Severity  | 2014.1     | 0.143 (CI = +/-0.054; p = 0.000)  | -0.150 (CI = +/-0.183; p = 0.093) | 0.820        | +15.37%       |  |
| Severity  | 2014.2     | 0.140 (CI = +/-0.070; p = 0.003)  | -0.144 (CI = +/-0.214; p = 0.151) | 0.736        | +14.98%       |  |
| Severity  | 2015.1     | 0.167 (CI = +/-0.072; p = 0.002)  | -0.089 (CI = +/-0.202; p = 0.308) | 0.837        | +18.20%       |  |
| Severity  | 2015.2     | 0.181 (CI = +/-0.102; p = 0.008)  | -0.107 (CI = +/-0.245; p = 0.293) | 0.789        | +19.83%       |  |
| Severity  | 2016.1     | 0.229 (CI = +/-0.116; p = 0.008)  | -0.029 (CI = +/-0.244; p = 0.730) | 0.892        | +25.80%       |  |
| Severity  | 2017.1     | 0.272 (CI = +/-0.228; p = 0.036)  | -0.046 (CI = +/-0.328; p = 0.605) | 0.861        | +31.19%       |  |
| Frequency | 2003.1     | 0.008 (CI = +/-0.022; p = 0.480)  | -0.099 (CI = +/-0.217; p = 0.359) | -0.024       | +0.77%        |  |
| Frequency | 2003.2     | 0.005 (CI = +/-0.023; p = 0.686)  | -0.081 (CI = +/-0.222; p = 0.460) | -0.050       | +0.47%        |  |
| Frequency | 2004.1     | 0.001 (CI = +/-0.024; p = 0.938)  | -0.104 (CI = +/-0.226; p = 0.354) | -0.043       | +0.09%        |  |
| Frequency | 2004.2     | -0.003 (CI = +/-0.026; p = 0.810) | -0.083 (CI = +/-0.231; p = 0.467) | -0.055       | -0.30%        |  |
| Frequency | 2005.1     | -0.006 (CI = +/-0.027; p = 0.657) | -0.099 (CI = +/-0.238; p = 0.397) | -0.043       | -0.59%        |  |
| Frequency | 2005.2     | -0.006 (CI = +/-0.030; p = 0.656) | -0.097 (CI = +/-0.249; p = 0.428) | -0.046       | -0.64%        |  |
| Frequency | 2006.1     | -0.008 (CI = +/-0.032; p = 0.590) | -0.108 (CI = +/-0.260; p = 0.399) | -0.042       | -0.83%        |  |
| Frequency | 2006.2     | -0.010 (CI = +/-0.035; p = 0.543) | -0.099 (CI = +/-0.272; p = 0.456) | -0.045       | -1.03%        |  |
| Frequency | 2007.1     | -0.012 (CI = +/-0.038; p = 0.518) | -0.107 (CI = +/-0.287; p = 0.443) | -0.047       | -1.18%        |  |
| Frequency | 2007.2     | -0.013 (CI = +/-0.042; p = 0.534) | -0.105 (CI = +/-0.302; p = 0.476) | -0.052       | -1.25%        |  |
| Frequency | 2008.1     | -0.015 (CI = +/-0.046; p = 0.496) | -0.117 (CI = +/-0.321; p = 0.452) | -0.052       | -1.50%        |  |
| Frequency | 2008.2     | -0.023 (CI = +/-0.050; p = 0.353) | -0.091 (CI = +/-0.331; p = 0.567) | -0.039       | -2.24%        |  |
| Frequency | 2009.1     | -0.037 (CI = +/-0.053; p = 0.162) | -0.154 (CI = +/-0.336; p = 0.343) | 0.054        | -3.59%        |  |
| Frequency | 2009.2     | -0.059 (CI = +/-0.051; p = 0.025) | -0.091 (CI = +/-0.299; p = 0.523) | 0.233        | -5.77%        |  |
| Frequency | 2010.1     | -0.091 (CI = +/-0.040; p = 0.000) | -0.220 (CI = +/-0.224; p = 0.053) | 0.622        | -8.71%        |  |
| Frequency | 2011.1     | -0.118 (CI = +/-0.026; p = 0.000) | -0.168 (CI = +/-0.130; p = 0.016) | 0.883        | -11.17%       |  |
| Frequency | 2011.2     | -0.124 (CI = +/-0.029; p = 0.000) | -0.155 (CI = +/-0.136; p = 0.029) | 0.881        | -11.64%       |  |
| Frequency | 2012.1     | -0.128 (CI = +/-0.034; p = 0.000) | -0.167 (CI = +/-0.151; p = 0.033) | 0.853        | -11.98%       |  |
| Frequency | 2013.1     | -0.137 (CI = +/-0.039; p = 0.000) | -0.151 (CI = +/-0.156; p = 0.055) | 0.855        | -12.78%       |  |
| Frequency | 2013.2     | -0.133 (CI = +/-0.048; p = 0.000) | -0.159 (CI = +/-0.175; p = 0.070) | 0.829        | -12.49%       |  |
| Frequency | 2014.1     | -0.124 (CI = +/-0.057; p = 0.001) | -0.138 (CI = +/-0.192; p = 0.134) | 0.754        | -11.68%       |  |
| Frequency | 2014.2     | -0.128 (CI = +/-0.074; p = 0.006) | -0.131 (CI = +/-0.225; p = 0.205) | 0.718        | -12.01%       |  |
| Frequency | 2015.1     | -0.135 (CI = +/-0.098; p = 0.017) | -0.145 (CI = +/-0.276; p = 0.234) | 0.627        | -12.63%       |  |
| Frequency | 2015.2     | -0.168 (CI = +/-0.123; p = 0.019) | -0.102 (CI = +/-0.295; p = 0.392) | 0.709        | -15.48%       |  |
| Frequency | 2016.1     | -0.204 (CI = +/-0.192; p = 0.043) | -0.159 (CI = +/-0.402; p = 0.298) | 0.657        | -18.42%       |  |
| Frequency | 2017.1     | -0.312 (CI = +/-0.158; p = 0.014) | -0.114 (CI = +/-0.228; p = 0.165) | 0.949        | -26.77%       |  |



**Specified Perils**

Coverage = SP  
 End Trend Period = 2022.1  
 Excluded Points = NA  
 Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R <sup>2</sup> | Implied Trend Rate |
|-----------|------------|-----------------------------------|-----------------------------------|-------------------------|--------------------|
| Loss Cost | 2003.1     | 0.054 (CI = +/-0.015; p = 0.000)  | -0.466 (CI = +/-0.173; p = 0.000) | 0.676                   | +5.57%             |
| Loss Cost | 2003.2     | 0.056 (CI = +/-0.016; p = 0.000)  | -0.478 (CI = +/-0.176; p = 0.000) | 0.669                   | +5.75%             |
| Loss Cost | 2004.1     | 0.058 (CI = +/-0.017; p = 0.000)  | -0.467 (CI = +/-0.180; p = 0.000) | 0.673                   | +5.93%             |
| Loss Cost | 2004.2     | 0.060 (CI = +/-0.018; p = 0.000)  | -0.482 (CI = +/-0.183; p = 0.000) | 0.671                   | +6.19%             |
| Loss Cost | 2005.1     | 0.057 (CI = +/-0.018; p = 0.000)  | -0.502 (CI = +/-0.183; p = 0.000) | 0.672                   | +5.82%             |
| Loss Cost | 2005.2     | 0.060 (CI = +/-0.019; p = 0.000)  | -0.520 (CI = +/-0.185; p = 0.000) | 0.675                   | +6.14%             |
| Loss Cost | 2006.1     | 0.059 (CI = +/-0.020; p = 0.000)  | -0.525 (CI = +/-0.191; p = 0.000) | 0.670                   | +6.03%             |
| Loss Cost | 2006.2     | 0.058 (CI = +/-0.021; p = 0.000)  | -0.520 (CI = +/-0.198; p = 0.000) | 0.637                   | +5.94%             |
| Loss Cost | 2007.1     | 0.059 (CI = +/-0.023; p = 0.000)  | -0.513 (CI = +/-0.204; p = 0.000) | 0.638                   | +6.09%             |
| Loss Cost | 2007.2     | 0.065 (CI = +/-0.023; p = 0.000)  | -0.543 (CI = +/-0.201; p = 0.000) | 0.667                   | +6.71%             |
| Loss Cost | 2008.1     | 0.066 (CI = +/-0.025; p = 0.000)  | -0.540 (CI = +/-0.209; p = 0.000) | 0.665                   | +6.79%             |
| Loss Cost | 2008.2     | 0.065 (CI = +/-0.027; p = 0.000)  | -0.539 (CI = +/-0.217; p = 0.000) | 0.631                   | +6.76%             |
| Loss Cost | 2009.1     | 0.062 (CI = +/-0.029; p = 0.000)  | -0.552 (CI = +/-0.224; p = 0.000) | 0.629                   | +6.44%             |
| Loss Cost | 2009.2     | 0.051 (CI = +/-0.028; p = 0.001)  | -0.502 (CI = +/-0.207; p = 0.000) | 0.587                   | +5.24%             |
| Loss Cost | 2010.1     | 0.052 (CI = +/-0.030; p = 0.002)  | -0.497 (CI = +/-0.216; p = 0.000) | 0.586                   | +5.34%             |
| Loss Cost | 2010.2     | 0.048 (CI = +/-0.032; p = 0.005)  | -0.482 (CI = +/-0.224; p = 0.000) | 0.530                   | +4.96%             |
| Loss Cost | 2011.1     | 0.049 (CI = +/-0.035; p = 0.009)  | -0.481 (CI = +/-0.235; p = 0.000) | 0.528                   | +4.99%             |
| Loss Cost | 2011.2     | 0.040 (CI = +/-0.037; p = 0.036)  | -0.449 (CI = +/-0.237; p = 0.001) | 0.455                   | +4.11%             |
| Loss Cost | 2012.1     | 0.033 (CI = +/-0.040; p = 0.096)  | -0.473 (CI = +/-0.243; p = 0.001) | 0.471                   | +3.40%             |
| Loss Cost | 2012.2     | 0.017 (CI = +/-0.039; p = 0.367)  | -0.416 (CI = +/-0.224; p = 0.001) | 0.419                   | +1.72%             |
| Loss Cost | 2013.1     | 0.027 (CI = +/-0.041; p = 0.182)  | -0.384 (CI = +/-0.224; p = 0.002) | 0.422                   | +2.73%             |
| Loss Cost | 2013.2     | 0.027 (CI = +/-0.046; p = 0.239)  | -0.383 (CI = +/-0.240; p = 0.004) | 0.379                   | +2.70%             |
| Loss Cost | 2014.1     | 0.012 (CI = +/-0.047; p = 0.603)  | -0.426 (CI = +/-0.233; p = 0.002) | 0.460                   | +1.18%             |
| Loss Cost | 2014.2     | -0.002 (CI = +/-0.051; p = 0.938) | -0.387 (CI = +/-0.235; p = 0.004) | 0.419                   | -0.19%             |
| Loss Cost | 2015.1     | 0.004 (CI = +/-0.058; p = 0.893)  | -0.373 (CI = +/-0.252; p = 0.007) | 0.376                   | +0.37%             |
| Loss Cost | 2015.2     | -0.021 (CI = +/-0.058; p = 0.446) | -0.312 (CI = +/-0.234; p = 0.014) | 0.379                   | -2.06%             |
| Loss Cost | 2016.1     | -0.024 (CI = +/-0.068; p = 0.452) | -0.318 (CI = +/-0.256; p = 0.020) | 0.344                   | -2.37%             |
| Loss Cost | 2016.2     | -0.020 (CI = +/-0.083; p = 0.601) | -0.327 (CI = +/-0.287; p = 0.030) | 0.335                   | -1.97%             |
| Loss Cost | 2017.1     | -0.012 (CI = +/-0.100; p = 0.793) | -0.312 (CI = +/-0.318; p = 0.053) | 0.242                   | -1.17%             |
| Severity  | 2003.1     | 0.043 (CI = +/-0.009; p = 0.000)  | 0.081 (CI = +/-0.102; p = 0.118)  | 0.707                   | +4.37%             |
| Severity  | 2003.2     | 0.042 (CI = +/-0.010; p = 0.000)  | 0.088 (CI = +/-0.104; p = 0.096)  | 0.688                   | +4.26%             |
| Severity  | 2004.1     | 0.043 (CI = +/-0.010; p = 0.000)  | 0.097 (CI = +/-0.105; p = 0.070)  | 0.692                   | +4.41%             |
| Severity  | 2004.2     | 0.042 (CI = +/-0.010; p = 0.000)  | 0.102 (CI = +/-0.108; p = 0.063)  | 0.673                   | +4.33%             |
| Severity  | 2005.1     | 0.041 (CI = +/-0.011; p = 0.000)  | 0.095 (CI = +/-0.110; p = 0.089)  | 0.639                   | +4.20%             |
| Severity  | 2005.2     | 0.041 (CI = +/-0.012; p = 0.000)  | 0.096 (CI = +/-0.114; p = 0.095)  | 0.621                   | +4.18%             |
| Severity  | 2006.1     | 0.042 (CI = +/-0.012; p = 0.000)  | 0.103 (CI = +/-0.116; p = 0.081)  | 0.614                   | +4.31%             |
| Severity  | 2006.2     | 0.036 (CI = +/-0.011; p = 0.000)  | 0.135 (CI = +/-0.100; p = 0.010)  | 0.640                   | +3.70%             |
| Severity  | 2007.1     | 0.035 (CI = +/-0.011; p = 0.000)  | 0.130 (CI = +/-0.103; p = 0.015)  | 0.598                   | +3.60%             |
| Severity  | 2007.2     | 0.033 (CI = +/-0.012; p = 0.000)  | 0.143 (CI = +/-0.103; p = 0.008)  | 0.582                   | +3.32%             |
| Severity  | 2008.1     | 0.033 (CI = +/-0.013; p = 0.000)  | 0.143 (CI = +/-0.106; p = 0.010)  | 0.545                   | +3.31%             |
| Severity  | 2008.2     | 0.029 (CI = +/-0.013; p = 0.000)  | 0.158 (CI = +/-0.106; p = 0.005)  | 0.534                   | +2.98%             |
| Severity  | 2009.1     | 0.030 (CI = +/-0.014; p = 0.000)  | 0.163 (CI = +/-0.109; p = 0.005)  | 0.515                   | +3.09%             |
| Severity  | 2009.2     | 0.025 (CI = +/-0.013; p = 0.001)  | 0.188 (CI = +/-0.100; p = 0.001)  | 0.545                   | +2.52%             |
| Severity  | 2010.1     | 0.028 (CI = +/-0.014; p = 0.000)  | 0.200 (CI = +/-0.101; p = 0.000)  | 0.569                   | +2.81%             |
| Severity  | 2010.2     | 0.033 (CI = +/-0.014; p = 0.000)  | 0.179 (CI = +/-0.096; p = 0.001)  | 0.636                   | +3.32%             |
| Severity  | 2011.1     | 0.029 (CI = +/-0.014; p = 0.000)  | 0.165 (CI = +/-0.095; p = 0.002)  | 0.570                   | +2.93%             |
| Severity  | 2011.2     | 0.025 (CI = +/-0.015; p = 0.002)  | 0.178 (CI = +/-0.095; p = 0.001)  | 0.573                   | +2.58%             |
| Severity  | 2012.1     | 0.026 (CI = +/-0.017; p = 0.004)  | 0.181 (CI = +/-0.100; p = 0.001)  | 0.540                   | +2.66%             |
| Severity  | 2012.2     | 0.029 (CI = +/-0.018; p = 0.003)  | 0.170 (CI = +/-0.104; p = 0.003)  | 0.561                   | +2.99%             |
| Severity  | 2013.1     | 0.029 (CI = +/-0.020; p = 0.008)  | 0.167 (CI = +/-0.110; p = 0.005)  | 0.494                   | +2.90%             |
| Severity  | 2013.2     | 0.026 (CI = +/-0.022; p = 0.025)  | 0.175 (CI = +/-0.116; p = 0.006)  | 0.488                   | +2.63%             |
| Severity  | 2014.1     | 0.022 (CI = +/-0.025; p = 0.074)  | 0.164 (CI = +/-0.120; p = 0.011)  | 0.390                   | +2.23%             |
| Severity  | 2014.2     | 0.027 (CI = +/-0.028; p = 0.056)  | 0.151 (CI = +/-0.127; p = 0.023)  | 0.407                   | +2.70%             |
| Severity  | 2015.1     | 0.025 (CI = +/-0.032; p = 0.110)  | 0.146 (CI = +/-0.136; p = 0.037)  | 0.315                   | +2.52%             |
| Severity  | 2015.2     | 0.018 (CI = +/-0.036; p = 0.293)  | 0.164 (CI = +/-0.144; p = 0.029)  | 0.328                   | +1.81%             |
| Severity  | 2016.1     | 0.009 (CI = +/-0.039; p = 0.625)  | 0.145 (CI = +/-0.148; p = 0.054)  | 0.200                   | +0.90%             |
| Severity  | 2016.2     | 0.015 (CI = +/-0.047; p = 0.475)  | 0.130 (CI = +/-0.162; p = 0.102)  | 0.176                   | +1.56%             |
| Severity  | 2017.1     | 0.005 (CI = +/-0.054; p = 0.846)  | 0.111 (CI = +/-0.172; p = 0.176)  | 0.024                   | +0.47%             |
| Frequency | 2003.1     | 0.011 (CI = +/-0.017; p = 0.174)  | -0.547 (CI = +/-0.188; p = 0.000) | 0.477                   | +1.15%             |
| Frequency | 2003.2     | 0.014 (CI = +/-0.017; p = 0.104)  | -0.565 (CI = +/-0.190; p = 0.000) | 0.496                   | +1.43%             |
| Frequency | 2004.1     | 0.014 (CI = +/-0.018; p = 0.118)  | -0.564 (CI = +/-0.196; p = 0.000) | 0.493                   | +1.45%             |
| Frequency | 2004.2     | 0.018 (CI = +/-0.019; p = 0.067)  | -0.584 (CI = +/-0.197; p = 0.000) | 0.513                   | +1.78%             |
| Frequency | 2005.1     | 0.015 (CI = +/-0.020; p = 0.125)  | -0.597 (CI = +/-0.201; p = 0.000) | 0.521                   | +1.55%             |
| Frequency | 2005.2     | 0.019 (CI = +/-0.021; p = 0.077)  | -0.616 (CI = +/-0.204; p = 0.000) | 0.536                   | +1.88%             |
| Frequency | 2006.1     | 0.016 (CI = +/-0.022; p = 0.137)  | -0.628 (CI = +/-0.209; p = 0.000) | 0.543                   | +1.65%             |
| Frequency | 2006.2     | 0.021 (CI = +/-0.023; p = 0.063)  | -0.655 (CI = +/-0.209; p = 0.000) | 0.574                   | +2.16%             |
| Frequency | 2007.1     | 0.024 (CI = +/-0.024; p = 0.051)  | -0.643 (CI = +/-0.214; p = 0.000) | 0.572                   | +2.41%             |
| Frequency | 2007.2     | 0.032 (CI = +/-0.023; p = 0.008)  | -0.687 (CI = +/-0.201; p = 0.000) | 0.646                   | +3.28%             |
| Frequency | 2008.1     | 0.033 (CI = +/-0.025; p = 0.011)  | -0.683 (CI = +/-0.209; p = 0.000) | 0.644                   | +3.36%             |
| Frequency | 2008.2     | 0.036 (CI = +/-0.027; p = 0.010)  | -0.697 (CI = +/-0.215; p = 0.000) | 0.641                   | +3.67%             |
| Frequency | 2009.1     | 0.032 (CI = +/-0.028; p = 0.028)  | -0.716 (CI = +/-0.220; p = 0.000) | 0.652                   | +3.25%             |
| Frequency | 2009.2     | 0.026 (CI = +/-0.030; p = 0.081)  | -0.690 (CI = +/-0.223; p = 0.000) | 0.621                   | +2.66%             |
| Frequency | 2010.1     | 0.024 (CI = +/-0.032; p = 0.130)  | -0.698 (CI = +/-0.232; p = 0.000) | 0.622                   | +2.47%             |
| Frequency | 2010.2     | 0.016 (CI = +/-0.033; p = 0.336)  | -0.662 (CI = +/-0.231; p = 0.000) | 0.596                   | +1.59%             |
| Frequency | 2011.1     | 0.020 (CI = +/-0.036; p = 0.265)  | -0.647 (CI = +/-0.239; p = 0.000) | 0.587                   | +2.00%             |
| Frequency | 2011.2     | 0.015 (CI = +/-0.039; p = 0.440)  | -0.627 (CI = +/-0.248; p = 0.000) | 0.554                   | +1.49%             |
| Frequency | 2012.1     | 0.007 (CI = +/-0.042; p = 0.723)  | -0.654 (CI = +/-0.254; p = 0.000) | 0.579                   | +0.72%             |
| Frequency | 2012.2     | -0.012 (CI = +/-0.038; p = 0.504) | -0.585 (CI = +/-0.222; p = 0.000) | 0.616                   | -1.23%             |
| Frequency | 2013.1     | -0.002 (CI = +/-0.040; p = 0.932) | -0.551 (CI = +/-0.219; p = 0.000) | 0.595                   | -0.16%             |
| Frequency | 2013.2     | 0.001 (CI = +/-0.045; p = 0.977)  | -0.558 (CI = +/-0.234; p = 0.000) | 0.587                   | +0.06%             |
| Frequency | 2014.1     | -0.010 (CI = +/-0.048; p = 0.654) | -0.589 (CI = +/-0.237; p = 0.000) | 0.625                   | -1.03%             |
| Frequency | 2014.2     | -0.029 (CI = +/-0.049; p = 0.232) | -0.538 (CI = +/-0.227; p = 0.000) | 0.648                   | -2.81%             |
| Frequency | 2015.1     | -0.021 (CI = +/-0.055; p = 0.420) | -0.519 (CI = +/-0.240; p = 0.000) | 0.600                   | -2.10%             |
| Frequency | 2015.2     | -0.039 (CI = +/-0.060; p = 0.183) | -0.476 (CI = +/-0.242; p = 0.001) | 0.614                   | -3.80%             |
| Frequency | 2016.1     | -0.033 (CI = +/-0.070; p = 0.320) | -0.463 (CI = +/-0.263; p = 0.003) | 0.548                   | -3.23%             |
| Frequency | 2016.2     | -0.035 (CI = +/-0.085; p = 0.373) | -0.458 (CI = +/-0.294; p = 0.007) | 0.532                   | -3.47%             |
| Frequency | 2017.1     | -0.017 (CI = +/-0.099; p = 0.710) | -0.423 (CI = +/-0.313; p = 0.014) | 0.440                   | -1.64%             |

**Specified Perils**

Coverage = SP  
 End Trend Period = 2022.1  
 Excluded Points = NA  
 Parameters Included: time

| Fit       | Start Date | Time                              | Adjusted R^2 | Implied Trend |
|-----------|------------|-----------------------------------|--------------|---------------|
|           |            |                                   |              | Rate          |
| Loss Cost | 2003.1     | 0.054 (CI = +/-0.020; p = 0.000)  | 0.422        | +5.57%        |
| Loss Cost | 2003.2     | 0.054 (CI = +/-0.022; p = 0.000)  | 0.400        | +5.54%        |
| Loss Cost | 2004.1     | 0.058 (CI = +/-0.022; p = 0.000)  | 0.423        | +5.93%        |
| Loss Cost | 2004.2     | 0.058 (CI = +/-0.024; p = 0.000)  | 0.403        | +5.95%        |
| Loss Cost | 2005.1     | 0.057 (CI = +/-0.025; p = 0.000)  | 0.372        | +5.82%        |
| Loss Cost | 2005.2     | 0.057 (CI = +/-0.027; p = 0.000)  | 0.352        | +5.85%        |
| Loss Cost | 2006.1     | 0.059 (CI = +/-0.028; p = 0.000)  | 0.346        | +6.03%        |
| Loss Cost | 2006.2     | 0.055 (CI = +/-0.030; p = 0.001)  | 0.298        | +5.61%        |
| Loss Cost | 2007.1     | 0.059 (CI = +/-0.031; p = 0.001)  | 0.319        | +6.09%        |
| Loss Cost | 2007.2     | 0.061 (CI = +/-0.033; p = 0.001)  | 0.314        | +6.33%        |
| Loss Cost | 2008.1     | 0.066 (CI = +/-0.035; p = 0.001)  | 0.327        | +6.79%        |
| Loss Cost | 2008.2     | 0.061 (CI = +/-0.038; p = 0.002)  | 0.275        | +6.32%        |
| Loss Cost | 2009.1     | 0.062 (CI = +/-0.041; p = 0.004)  | 0.258        | +6.44%        |
| Loss Cost | 2009.2     | 0.047 (CI = +/-0.039; p = 0.021)  | 0.170        | +4.77%        |
| Loss Cost | 2010.1     | 0.052 (CI = +/-0.042; p = 0.016)  | 0.192        | +5.34%        |
| Loss Cost | 2010.2     | 0.043 (CI = +/-0.044; p = 0.053)  | 0.122        | +4.44%        |
| Loss Cost | 2011.1     | 0.049 (CI = +/-0.048; p = 0.045)  | 0.138        | +4.99%        |
| Loss Cost | 2011.2     | 0.035 (CI = +/-0.049; p = 0.155)  | 0.054        | +3.53%        |
| Loss Cost | 2012.1     | 0.033 (CI = +/-0.054; p = 0.210)  | 0.033        | +3.40%        |
| Loss Cost | 2012.2     | 0.011 (CI = +/-0.052; p = 0.665)  | -0.044       | +1.09%        |
| Loss Cost | 2013.1     | 0.027 (CI = +/-0.053; p = 0.302)  | 0.007        | +2.73%        |
| Loss Cost | 2013.2     | 0.019 (CI = +/-0.059; p = 0.494)  | -0.031       | +1.97%        |
| Loss Cost | 2014.1     | 0.012 (CI = +/-0.066; p = 0.709)  | -0.056       | +1.18%        |
| Loss Cost | 2014.2     | -0.011 (CI = +/-0.068; p = 0.735) | -0.062       | -1.09%        |
| Loss Cost | 2015.1     | 0.004 (CI = +/-0.076; p = 0.918)  | -0.076       | +0.37%        |
| Loss Cost | 2015.2     | -0.030 (CI = +/-0.073; p = 0.381) | -0.013       | -3.00%        |
| Loss Cost | 2016.1     | -0.024 (CI = +/-0.085; p = 0.550) | -0.054       | -2.37%        |
| Loss Cost | 2016.2     | -0.034 (CI = +/-0.101; p = 0.477) | -0.043       | -3.31%        |
| Loss Cost | 2017.1     | -0.012 (CI = +/-0.119; p = 0.827) | -0.105       | -1.17%        |
|           |            |                                   |              |               |
| Severity  | 2003.1     | 0.043 (CI = +/-0.009; p = 0.000)  | 0.695        | +4.37%        |
| Severity  | 2003.2     | 0.042 (CI = +/-0.010; p = 0.000)  | 0.672        | +4.29%        |
| Severity  | 2004.1     | 0.043 (CI = +/-0.010; p = 0.000)  | 0.670        | +4.41%        |
| Severity  | 2004.2     | 0.043 (CI = +/-0.011; p = 0.000)  | 0.647        | +4.38%        |
| Severity  | 2005.1     | 0.041 (CI = +/-0.011; p = 0.000)  | 0.616        | +4.20%        |
| Severity  | 2005.2     | 0.041 (CI = +/-0.012; p = 0.000)  | 0.598        | +4.23%        |
| Severity  | 2006.1     | 0.042 (CI = +/-0.013; p = 0.000)  | 0.586        | +4.31%        |
| Severity  | 2006.2     | 0.037 (CI = +/-0.012; p = 0.000)  | 0.560        | +3.78%        |
| Severity  | 2007.1     | 0.035 (CI = +/-0.013; p = 0.000)  | 0.518        | +3.60%        |
| Severity  | 2007.2     | 0.034 (CI = +/-0.013; p = 0.000)  | 0.474        | +3.42%        |
| Severity  | 2008.1     | 0.033 (CI = +/-0.014; p = 0.000)  | 0.433        | +3.31%        |
| Severity  | 2008.2     | 0.031 (CI = +/-0.015; p = 0.000)  | 0.380        | +3.11%        |
| Severity  | 2009.1     | 0.030 (CI = +/-0.016; p = 0.001)  | 0.350        | +3.09%        |
| Severity  | 2009.2     | 0.027 (CI = +/-0.017; p = 0.003)  | 0.278        | +2.69%        |
| Severity  | 2010.1     | 0.028 (CI = +/-0.018; p = 0.004)  | 0.271        | +2.81%        |
| Severity  | 2010.2     | 0.035 (CI = +/-0.018; p = 0.001)  | 0.402        | +3.52%        |
| Severity  | 2011.1     | 0.029 (CI = +/-0.018; p = 0.003)  | 0.319        | +2.93%        |
| Severity  | 2011.2     | 0.028 (CI = +/-0.020; p = 0.008)  | 0.269        | +2.81%        |
| Severity  | 2012.1     | 0.026 (CI = +/-0.022; p = 0.019)  | 0.217        | +2.66%        |
| Severity  | 2012.2     | 0.032 (CI = +/-0.023; p = 0.008)  | 0.293        | +3.26%        |
| Severity  | 2013.1     | 0.029 (CI = +/-0.025; p = 0.026)  | 0.214        | +2.90%        |
| Severity  | 2013.2     | 0.029 (CI = +/-0.028; p = 0.041)  | 0.189        | +2.97%        |
| Severity  | 2014.1     | 0.022 (CI = +/-0.030; p = 0.136)  | 0.085        | +2.23%        |
| Severity  | 2014.2     | 0.030 (CI = +/-0.032; p = 0.063)  | 0.170        | +3.07%        |
| Severity  | 2015.1     | 0.025 (CI = +/-0.036; p = 0.161)  | 0.080        | +2.52%        |
| Severity  | 2015.2     | 0.023 (CI = +/-0.042; p = 0.258)  | 0.031        | +2.32%        |
| Severity  | 2016.1     | 0.009 (CI = +/-0.045; p = 0.672)  | -0.072       | +0.90%        |
| Severity  | 2016.2     | 0.021 (CI = +/-0.051; p = 0.380)  | -0.014       | +2.12%        |
| Severity  | 2017.1     | 0.005 (CI = +/-0.056; p = 0.855)  | -0.107       | +0.47%        |
|           |            |                                   |              |               |
| Frequency | 2003.1     | 0.011 (CI = +/-0.023; p = 0.323)  | 0.000        | +1.15%        |
| Frequency | 2003.2     | 0.012 (CI = +/-0.024; p = 0.329)  | -0.001       | +1.20%        |
| Frequency | 2004.1     | 0.014 (CI = +/-0.026; p = 0.259)  | 0.009        | +1.45%        |
| Frequency | 2004.2     | 0.015 (CI = +/-0.027; p = 0.269)  | 0.007        | +1.51%        |
| Frequency | 2005.1     | 0.015 (CI = +/-0.029; p = 0.282)  | 0.006        | +1.55%        |
| Frequency | 2005.2     | 0.015 (CI = +/-0.030; p = 0.310)  | 0.002        | +1.56%        |
| Frequency | 2006.1     | 0.016 (CI = +/-0.032; p = 0.310)  | 0.002        | +1.65%        |
| Frequency | 2006.2     | 0.017 (CI = +/-0.034; p = 0.309)  | 0.002        | +1.76%        |
| Frequency | 2007.1     | 0.024 (CI = +/-0.036; p = 0.187)  | 0.027        | +2.41%        |
| Frequency | 2007.2     | 0.028 (CI = +/-0.038; p = 0.148)  | 0.040        | +2.81%        |
| Frequency | 2008.1     | 0.033 (CI = +/-0.040; p = 0.105)  | 0.061        | +3.36%        |
| Frequency | 2008.2     | 0.031 (CI = +/-0.043; p = 0.158)  | 0.040        | +3.11%        |
| Frequency | 2009.1     | 0.032 (CI = +/-0.047; p = 0.172)  | 0.036        | +3.25%        |
| Frequency | 2009.2     | 0.020 (CI = +/-0.048; p = 0.399)  | -0.011       | +2.03%        |
| Frequency | 2010.1     | 0.024 (CI = +/-0.052; p = 0.344)  | -0.003       | +2.47%        |
| Frequency | 2010.2     | 0.009 (CI = +/-0.053; p = 0.733)  | -0.040       | +0.89%        |
| Frequency | 2011.1     | 0.020 (CI = +/-0.056; p = 0.473)  | -0.022       | +2.00%        |
| Frequency | 2011.2     | 0.007 (CI = +/-0.060; p = 0.810)  | -0.047       | +0.70%        |
| Frequency | 2012.1     | 0.007 (CI = +/-0.066; p = 0.822)  | -0.050       | +0.72%        |
| Frequency | 2012.2     | -0.021 (CI = +/-0.062; p = 0.483) | -0.026       | -2.10%        |
| Frequency | 2013.1     | -0.002 (CI = +/-0.064; p = 0.958) | -0.059       | -0.16%        |
| Frequency | 2013.2     | -0.010 (CI = +/-0.071; p = 0.776) | -0.057       | -0.97%        |
| Frequency | 2014.1     | -0.010 (CI = +/-0.081; p = 0.789) | -0.061       | -1.03%        |
| Frequency | 2014.2     | -0.041 (CI = +/-0.081; p = 0.295) | 0.012        | -4.04%        |
| Frequency | 2015.1     | -0.021 (CI = +/-0.089; p = 0.615) | -0.055       | -2.10%        |
| Frequency | 2015.2     | -0.053 (CI = +/-0.093; p = 0.234) | 0.042        | -5.20%        |
| Frequency | 2016.1     | -0.033 (CI = +/-0.105; p = 0.505) | -0.046       | -3.23%        |
| Frequency | 2016.2     | -0.055 (CI = +/-0.121; p = 0.341) | 0.000        | -5.31%        |
| Frequency | 2017.1     | -0.017 (CI = +/-0.136; p = 0.789) | -0.102       | -1.64%        |

**Specified Perils**

Coverage = SP  
 End Trend Period = 2022.1  
 Excluded Points = 2006.1  
 Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R^2 | Implied Trend Rate |
|-----------|------------|-----------------------------------|-----------------------------------|--------------|--------------------|
| Loss Cost | 2003.1     | 0.053 (CI = +/-0.016; p = 0.000)  | -0.459 (CI = +/-0.177; p = 0.000) | 0.656        | +5.48%             |
| Loss Cost | 2003.2     | 0.055 (CI = +/-0.017; p = 0.000)  | -0.470 (CI = +/-0.181; p = 0.000) | 0.646        | +5.67%             |
| Loss Cost | 2004.1     | 0.057 (CI = +/-0.018; p = 0.000)  | -0.461 (CI = +/-0.185; p = 0.000) | 0.650        | +5.85%             |
| Loss Cost | 2004.2     | 0.059 (CI = +/-0.018; p = 0.000)  | -0.477 (CI = +/-0.189; p = 0.000) | 0.645        | +6.12%             |
| Loss Cost | 2005.1     | 0.056 (CI = +/-0.019; p = 0.000)  | -0.496 (CI = +/-0.188; p = 0.000) | 0.644        | +5.72%             |
| Loss Cost | 2005.2     | 0.059 (CI = +/-0.020; p = 0.000)  | -0.515 (CI = +/-0.192; p = 0.000) | 0.643        | +6.06%             |
| Loss Cost | 2006.2     | 0.058 (CI = +/-0.021; p = 0.000)  | -0.520 (CI = +/-0.198; p = 0.000) | 0.637        | +5.94%             |
| Loss Cost | 2007.1     | 0.059 (CI = +/-0.023; p = 0.000)  | -0.513 (CI = +/-0.204; p = 0.000) | 0.638        | +6.09%             |
| Loss Cost | 2007.2     | 0.065 (CI = +/-0.023; p = 0.000)  | -0.543 (CI = +/-0.201; p = 0.000) | 0.667        | +6.71%             |
| Loss Cost | 2008.1     | 0.066 (CI = +/-0.025; p = 0.000)  | -0.540 (CI = +/-0.209; p = 0.000) | 0.665        | +6.79%             |
| Loss Cost | 2008.2     | 0.065 (CI = +/-0.027; p = 0.000)  | -0.539 (CI = +/-0.217; p = 0.000) | 0.631        | +6.76%             |
| Loss Cost | 2009.1     | 0.062 (CI = +/-0.029; p = 0.000)  | -0.552 (CI = +/-0.224; p = 0.000) | 0.629        | +6.44%             |
| Loss Cost | 2009.2     | 0.051 (CI = +/-0.028; p = 0.001)  | -0.502 (CI = +/-0.207; p = 0.000) | 0.587        | +5.24%             |
| Loss Cost | 2010.1     | 0.052 (CI = +/-0.030; p = 0.002)  | -0.497 (CI = +/-0.216; p = 0.000) | 0.586        | +5.34%             |
| Loss Cost | 2010.2     | 0.048 (CI = +/-0.032; p = 0.005)  | -0.482 (CI = +/-0.224; p = 0.000) | 0.530        | +4.96%             |
| Loss Cost | 2011.1     | 0.049 (CI = +/-0.035; p = 0.009)  | -0.481 (CI = +/-0.235; p = 0.000) | 0.528        | +4.99%             |
| Loss Cost | 2011.2     | 0.040 (CI = +/-0.037; p = 0.036)  | -0.449 (CI = +/-0.237; p = 0.001) | 0.455        | +4.11%             |
| Loss Cost | 2012.1     | 0.033 (CI = +/-0.040; p = 0.096)  | -0.473 (CI = +/-0.243; p = 0.001) | 0.471        | +3.40%             |
| Loss Cost | 2012.2     | 0.017 (CI = +/-0.039; p = 0.367)  | -0.416 (CI = +/-0.224; p = 0.001) | 0.419        | +1.72%             |
| Loss Cost | 2013.1     | 0.027 (CI = +/-0.041; p = 0.182)  | -0.384 (CI = +/-0.224; p = 0.002) | 0.422        | +2.73%             |
| Loss Cost | 2013.2     | 0.027 (CI = +/-0.046; p = 0.239)  | -0.383 (CI = +/-0.240; p = 0.004) | 0.379        | +2.70%             |
| Loss Cost | 2014.1     | 0.012 (CI = +/-0.047; p = 0.603)  | -0.426 (CI = +/-0.233; p = 0.002) | 0.460        | +1.18%             |
| Loss Cost | 2014.2     | -0.002 (CI = +/-0.051; p = 0.938) | -0.387 (CI = +/-0.235; p = 0.004) | 0.419        | -0.19%             |
| Loss Cost | 2015.1     | 0.004 (CI = +/-0.058; p = 0.893)  | -0.373 (CI = +/-0.252; p = 0.007) | 0.376        | +0.37%             |
| Loss Cost | 2015.2     | -0.021 (CI = +/-0.058; p = 0.446) | -0.312 (CI = +/-0.234; p = 0.014) | 0.379        | -2.06%             |
| Loss Cost | 2016.1     | -0.024 (CI = +/-0.068; p = 0.452) | -0.318 (CI = +/-0.256; p = 0.020) | 0.344        | -2.37%             |
| Loss Cost | 2016.2     | -0.020 (CI = +/-0.083; p = 0.601) | -0.327 (CI = +/-0.287; p = 0.030) | 0.335        | -1.97%             |
| Loss Cost | 2017.1     | -0.012 (CI = +/-0.100; p = 0.793) | -0.312 (CI = +/-0.318; p = 0.053) | 0.242        | -1.17%             |
| Severity  | 2003.1     | 0.040 (CI = +/-0.008; p = 0.000)  | 0.105 (CI = +/-0.091; p = 0.025)  | 0.739        | +4.10%             |
| Severity  | 2003.2     | 0.039 (CI = +/-0.008; p = 0.000)  | 0.116 (CI = +/-0.092; p = 0.015)  | 0.726        | +3.93%             |
| Severity  | 2004.1     | 0.040 (CI = +/-0.009; p = 0.000)  | 0.123 (CI = +/-0.093; p = 0.011)  | 0.725        | +4.07%             |
| Severity  | 2004.2     | 0.038 (CI = +/-0.009; p = 0.000)  | 0.133 (CI = +/-0.094; p = 0.007)  | 0.710        | +3.91%             |
| Severity  | 2005.1     | 0.037 (CI = +/-0.010; p = 0.000)  | 0.125 (CI = +/-0.095; p = 0.012)  | 0.675        | +3.73%             |
| Severity  | 2005.2     | 0.036 (CI = +/-0.010; p = 0.000)  | 0.131 (CI = +/-0.097; p = 0.010)  | 0.657        | +3.62%             |
| Severity  | 2006.2     | 0.036 (CI = +/-0.011; p = 0.000)  | 0.135 (CI = +/-0.100; p = 0.010)  | 0.640        | +3.70%             |
| Severity  | 2007.1     | 0.035 (CI = +/-0.011; p = 0.000)  | 0.130 (CI = +/-0.103; p = 0.015)  | 0.598        | +3.60%             |
| Severity  | 2007.2     | 0.033 (CI = +/-0.012; p = 0.000)  | 0.143 (CI = +/-0.103; p = 0.008)  | 0.582        | +3.32%             |
| Severity  | 2008.1     | 0.033 (CI = +/-0.013; p = 0.000)  | 0.143 (CI = +/-0.106; p = 0.010)  | 0.545        | +3.31%             |
| Severity  | 2008.2     | 0.029 (CI = +/-0.013; p = 0.000)  | 0.158 (CI = +/-0.106; p = 0.005)  | 0.534        | +2.98%             |
| Severity  | 2009.1     | 0.030 (CI = +/-0.014; p = 0.000)  | 0.163 (CI = +/-0.109; p = 0.005)  | 0.515        | +3.09%             |
| Severity  | 2009.2     | 0.025 (CI = +/-0.013; p = 0.001)  | 0.188 (CI = +/-0.100; p = 0.001)  | 0.545        | +2.52%             |
| Severity  | 2010.1     | 0.028 (CI = +/-0.014; p = 0.000)  | 0.200 (CI = +/-0.101; p = 0.000)  | 0.569        | +2.81%             |
| Severity  | 2010.2     | 0.033 (CI = +/-0.014; p = 0.000)  | 0.179 (CI = +/-0.096; p = 0.001)  | 0.636        | +3.32%             |
| Severity  | 2011.1     | 0.029 (CI = +/-0.014; p = 0.000)  | 0.165 (CI = +/-0.095; p = 0.002)  | 0.570        | +2.93%             |
| Severity  | 2011.2     | 0.025 (CI = +/-0.015; p = 0.002)  | 0.178 (CI = +/-0.095; p = 0.001)  | 0.573        | +2.58%             |
| Severity  | 2012.1     | 0.026 (CI = +/-0.017; p = 0.004)  | 0.181 (CI = +/-0.100; p = 0.001)  | 0.540        | +2.66%             |
| Severity  | 2012.2     | 0.029 (CI = +/-0.018; p = 0.003)  | 0.170 (CI = +/-0.104; p = 0.003)  | 0.561        | +2.99%             |
| Severity  | 2013.1     | 0.029 (CI = +/-0.020; p = 0.008)  | 0.167 (CI = +/-0.110; p = 0.005)  | 0.494        | +2.90%             |
| Severity  | 2013.2     | 0.026 (CI = +/-0.022; p = 0.025)  | 0.175 (CI = +/-0.116; p = 0.006)  | 0.488        | +2.63%             |
| Severity  | 2014.1     | 0.022 (CI = +/-0.025; p = 0.074)  | 0.164 (CI = +/-0.120; p = 0.011)  | 0.390        | +2.23%             |
| Severity  | 2014.2     | 0.027 (CI = +/-0.028; p = 0.056)  | 0.151 (CI = +/-0.127; p = 0.023)  | 0.407        | +2.70%             |
| Severity  | 2015.1     | 0.025 (CI = +/-0.032; p = 0.110)  | 0.146 (CI = +/-0.136; p = 0.037)  | 0.315        | +2.52%             |
| Severity  | 2015.2     | 0.018 (CI = +/-0.036; p = 0.293)  | 0.164 (CI = +/-0.144; p = 0.029)  | 0.328        | +1.81%             |
| Severity  | 2016.1     | 0.009 (CI = +/-0.039; p = 0.625)  | 0.145 (CI = +/-0.148; p = 0.054)  | 0.200        | +0.90%             |
| Severity  | 2016.2     | 0.015 (CI = +/-0.047; p = 0.475)  | 0.130 (CI = +/-0.162; p = 0.102)  | 0.176        | +1.56%             |
| Severity  | 2017.1     | 0.005 (CI = +/-0.054; p = 0.846)  | 0.111 (CI = +/-0.172; p = 0.176)  | 0.024        | +0.47%             |
| Frequency | 2003.1     | 0.013 (CI = +/-0.017; p = 0.124)  | -0.564 (CI = +/-0.191; p = 0.000) | 0.493        | +1.33%             |
| Frequency | 2003.2     | 0.017 (CI = +/-0.018; p = 0.064)  | -0.587 (CI = +/-0.192; p = 0.000) | 0.517        | +1.67%             |
| Frequency | 2004.1     | 0.017 (CI = +/-0.019; p = 0.073)  | -0.584 (CI = +/-0.197; p = 0.000) | 0.515        | +1.71%             |
| Frequency | 2004.2     | 0.021 (CI = +/-0.019; p = 0.034)  | -0.610 (CI = +/-0.198; p = 0.000) | 0.541        | +2.13%             |
| Frequency | 2005.1     | 0.019 (CI = +/-0.020; p = 0.067)  | -0.621 (CI = +/-0.202; p = 0.000) | 0.548        | +1.91%             |
| Frequency | 2005.2     | 0.023 (CI = +/-0.021; p = 0.033)  | -0.646 (CI = +/-0.204; p = 0.000) | 0.570        | +2.36%             |
| Frequency | 2006.2     | 0.021 (CI = +/-0.023; p = 0.063)  | -0.655 (CI = +/-0.209; p = 0.000) | 0.574        | +2.16%             |
| Frequency | 2007.1     | 0.024 (CI = +/-0.024; p = 0.051)  | -0.643 (CI = +/-0.214; p = 0.000) | 0.572        | +2.41%             |
| Frequency | 2007.2     | 0.032 (CI = +/-0.023; p = 0.008)  | -0.687 (CI = +/-0.201; p = 0.000) | 0.646        | +3.28%             |
| Frequency | 2008.1     | 0.033 (CI = +/-0.025; p = 0.011)  | -0.683 (CI = +/-0.209; p = 0.000) | 0.644        | +3.36%             |
| Frequency | 2008.2     | 0.036 (CI = +/-0.027; p = 0.010)  | -0.697 (CI = +/-0.215; p = 0.000) | 0.641        | +3.67%             |
| Frequency | 2009.1     | 0.032 (CI = +/-0.028; p = 0.028)  | -0.716 (CI = +/-0.220; p = 0.000) | 0.652        | +3.25%             |
| Frequency | 2009.2     | 0.026 (CI = +/-0.030; p = 0.081)  | -0.690 (CI = +/-0.223; p = 0.000) | 0.621        | +2.66%             |
| Frequency | 2010.1     | 0.024 (CI = +/-0.032; p = 0.130)  | -0.698 (CI = +/-0.232; p = 0.000) | 0.622        | +2.47%             |
| Frequency | 2010.2     | 0.016 (CI = +/-0.033; p = 0.336)  | -0.662 (CI = +/-0.231; p = 0.000) | 0.596        | +1.59%             |
| Frequency | 2011.1     | 0.020 (CI = +/-0.036; p = 0.265)  | -0.647 (CI = +/-0.239; p = 0.000) | 0.587        | +2.00%             |
| Frequency | 2011.2     | 0.015 (CI = +/-0.039; p = 0.440)  | -0.627 (CI = +/-0.248; p = 0.000) | 0.554        | +1.49%             |
| Frequency | 2012.1     | 0.007 (CI = +/-0.042; p = 0.723)  | -0.654 (CI = +/-0.254; p = 0.000) | 0.579        | +0.72%             |
| Frequency | 2012.2     | -0.012 (CI = +/-0.038; p = 0.504) | -0.585 (CI = +/-0.222; p = 0.000) | 0.616        | -1.23%             |
| Frequency | 2013.1     | -0.002 (CI = +/-0.040; p = 0.932) | -0.551 (CI = +/-0.219; p = 0.000) | 0.595        | -0.16%             |
| Frequency | 2013.2     | 0.001 (CI = +/-0.045; p = 0.977)  | -0.558 (CI = +/-0.234; p = 0.000) | 0.587        | +0.06%             |
| Frequency | 2014.1     | -0.010 (CI = +/-0.048; p = 0.654) | -0.589 (CI = +/-0.237; p = 0.000) | 0.625        | -1.03%             |
| Frequency | 2014.2     | -0.029 (CI = +/-0.049; p = 0.232) | -0.538 (CI = +/-0.227; p = 0.000) | 0.648        | -2.81%             |
| Frequency | 2015.1     | -0.021 (CI = +/-0.055; p = 0.420) | -0.519 (CI = +/-0.240; p = 0.000) | 0.600        | -2.10%             |
| Frequency | 2015.2     | -0.039 (CI = +/-0.060; p = 0.183) | -0.476 (CI = +/-0.242; p = 0.001) | 0.614        | -3.80%             |
| Frequency | 2016.1     | -0.033 (CI = +/-0.070; p = 0.320) | -0.463 (CI = +/-0.263; p = 0.003) | 0.548        | -3.23%             |
| Frequency | 2016.2     | -0.035 (CI = +/-0.085; p = 0.373) | -0.458 (CI = +/-0.294; p = 0.007) | 0.532        | -3.47%             |
| Frequency | 2017.1     | -0.017 (CI = +/-0.099; p = 0.710) | -0.423 (CI = +/-0.313; p = 0.014) | 0.440        | -1.64%             |

**Specified Perils**

Coverage = SP  
 End Trend Period = 2021.2  
 Excluded Points = NA  
 Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R^2 | Implied Trend Rate |
|-----------|------------|-----------------------------------|-----------------------------------|--------------|--------------------|
| Loss Cost | 2003.1     | 0.057 (CI = +/-0.016; p = 0.000)  | -0.449 (CI = +/-0.174; p = 0.000) | 0.689        | +5.86%             |
| Loss Cost | 2003.2     | 0.059 (CI = +/-0.017; p = 0.000)  | -0.460 (CI = +/-0.177; p = 0.000) | 0.684        | +6.05%             |
| Loss Cost | 2004.1     | 0.061 (CI = +/-0.017; p = 0.000)  | -0.447 (CI = +/-0.181; p = 0.000) | 0.690        | +6.38%             |
| Loss Cost | 2004.2     | 0.063 (CI = +/-0.018; p = 0.000)  | -0.462 (CI = +/-0.183; p = 0.000) | 0.689        | +6.55%             |
| Loss Cost | 2005.1     | 0.060 (CI = +/-0.019; p = 0.000)  | -0.482 (CI = +/-0.184; p = 0.000) | 0.688        | +6.18%             |
| Loss Cost | 2005.2     | 0.063 (CI = +/-0.020; p = 0.000)  | -0.500 (CI = +/-0.186; p = 0.000) | 0.691        | +6.52%             |
| Loss Cost | 2006.1     | 0.062 (CI = +/-0.021; p = 0.000)  | -0.504 (CI = +/-0.193; p = 0.000) | 0.687        | +6.44%             |
| Loss Cost | 2006.2     | 0.062 (CI = +/-0.022; p = 0.000)  | -0.500 (CI = +/-0.199; p = 0.000) | 0.654        | +6.36%             |
| Loss Cost | 2007.1     | 0.064 (CI = +/-0.024; p = 0.000)  | -0.489 (CI = +/-0.205; p = 0.000) | 0.657        | +6.58%             |
| Loss Cost | 2007.2     | 0.070 (CI = +/-0.024; p = 0.000)  | -0.519 (CI = +/-0.202; p = 0.000) | 0.688        | +7.24%             |
| Loss Cost | 2008.1     | 0.071 (CI = +/-0.026; p = 0.000)  | -0.513 (CI = +/-0.210; p = 0.000) | 0.687        | +7.39%             |
| Loss Cost | 2008.2     | 0.071 (CI = +/-0.028; p = 0.000)  | -0.513 (CI = +/-0.218; p = 0.000) | 0.654        | +7.38%             |
| Loss Cost | 2009.1     | 0.069 (CI = +/-0.030; p = 0.000)  | -0.525 (CI = +/-0.226; p = 0.000) | 0.649        | +7.09%             |
| Loss Cost | 2009.2     | 0.057 (CI = +/-0.029; p = 0.000)  | -0.477 (CI = +/-0.208; p = 0.000) | 0.610        | +5.87%             |
| Loss Cost | 2010.1     | 0.059 (CI = +/-0.031; p = 0.001)  | -0.469 (CI = +/-0.218; p = 0.000) | 0.610        | +6.07%             |
| Loss Cost | 2010.2     | 0.055 (CI = +/-0.034; p = 0.003)  | -0.456 (CI = +/-0.226; p = 0.000) | 0.554        | +5.70%             |
| Loss Cost | 2011.1     | 0.057 (CI = +/-0.037; p = 0.005)  | -0.451 (CI = +/-0.238; p = 0.001) | 0.552        | +5.84%             |
| Loss Cost | 2011.2     | 0.048 (CI = +/-0.040; p = 0.020)  | -0.421 (CI = +/-0.240; p = 0.002) | 0.475        | +4.95%             |
| Loss Cost | 2012.1     | 0.042 (CI = +/-0.043; p = 0.058)  | -0.444 (CI = +/-0.250; p = 0.002) | 0.482        | +4.26%             |
| Loss Cost | 2012.2     | 0.025 (CI = +/-0.042; p = 0.225)  | -0.391 (CI = +/-0.229; p = 0.002) | 0.413        | +2.52%             |
| Loss Cost | 2013.1     | 0.038 (CI = +/-0.044; p = 0.083)  | -0.349 (CI = +/-0.226; p = 0.005) | 0.444        | +3.88%             |
| Loss Cost | 2013.2     | 0.038 (CI = +/-0.049; p = 0.117)  | -0.350 (CI = +/-0.242; p = 0.008) | 0.394        | +3.91%             |
| Loss Cost | 2014.1     | 0.023 (CI = +/-0.052; p = 0.361)  | -0.394 (CI = +/-0.241; p = 0.004) | 0.450        | +2.32%             |
| Loss Cost | 2014.2     | 0.009 (CI = +/-0.056; p = 0.731)  | -0.359 (CI = +/-0.244; p = 0.007) | 0.377        | +0.91%             |
| Loss Cost | 2015.1     | 0.019 (CI = +/-0.065; p = 0.536)  | -0.335 (CI = +/-0.261; p = 0.017) | 0.349        | +1.90%             |
| Loss Cost | 2015.2     | -0.006 (CI = +/-0.064; p = 0.827) | -0.280 (CI = +/-0.241; p = 0.027) | 0.284        | -0.64%             |
| Loss Cost | 2016.1     | -0.006 (CI = +/-0.078; p = 0.862) | -0.280 (CI = +/-0.271; p = 0.044) | 0.241        | -0.62%             |
| Loss Cost | 2016.2     | 0.000 (CI = +/-0.095; p = 0.997)  | -0.291 (CI = +/-0.302; p = 0.057) | 0.227        | -0.01%             |
| Loss Cost | 2017.1     | 0.018 (CI = +/-0.118; p = 0.724)  | -0.257 (CI = +/-0.339; p = 0.116) | 0.158        | +1.85%             |
| Severity  | 2003.1     | 0.043 (CI = +/-0.010; p = 0.000)  | 0.084 (CI = +/-0.105; p = 0.113)  | 0.693        | +4.42%             |
| Severity  | 2003.2     | 0.042 (CI = +/-0.010; p = 0.000)  | 0.091 (CI = +/-0.107; p = 0.094)  | 0.673        | +4.31%             |
| Severity  | 2004.1     | 0.044 (CI = +/-0.010; p = 0.000)  | 0.101 (CI = +/-0.108; p = 0.066)  | 0.678        | +4.48%             |
| Severity  | 2004.2     | 0.043 (CI = +/-0.011; p = 0.000)  | 0.106 (CI = +/-0.111; p = 0.061)  | 0.658        | +4.40%             |
| Severity  | 2005.1     | 0.042 (CI = +/-0.012; p = 0.000)  | 0.098 (CI = +/-0.114; p = 0.087)  | 0.621        | +4.26%             |
| Severity  | 2005.2     | 0.042 (CI = +/-0.012; p = 0.000)  | 0.100 (CI = +/-0.117; p = 0.093)  | 0.603        | +4.24%             |
| Severity  | 2006.1     | 0.043 (CI = +/-0.013; p = 0.000)  | 0.108 (CI = +/-0.120; p = 0.078)  | 0.596        | +4.39%             |
| Severity  | 2006.2     | 0.037 (CI = +/-0.012; p = 0.000)  | 0.138 (CI = +/-0.103; p = 0.010)  | 0.620        | +3.77%             |
| Severity  | 2007.1     | 0.036 (CI = +/-0.012; p = 0.000)  | 0.133 (CI = +/-0.106; p = 0.016)  | 0.573        | +3.66%             |
| Severity  | 2007.2     | 0.033 (CI = +/-0.013; p = 0.000)  | 0.146 (CI = +/-0.106; p = 0.009)  | 0.556        | +3.38%             |
| Severity  | 2008.1     | 0.033 (CI = +/-0.014; p = 0.000)  | 0.146 (CI = +/-0.111; p = 0.012)  | 0.516        | +3.37%             |
| Severity  | 2008.2     | 0.030 (CI = +/-0.014; p = 0.000)  | 0.161 (CI = +/-0.110; p = 0.006)  | 0.503        | +3.03%             |
| Severity  | 2009.1     | 0.031 (CI = +/-0.015; p = 0.000)  | 0.166 (CI = +/-0.114; p = 0.006)  | 0.484        | +3.16%             |
| Severity  | 2009.2     | 0.025 (CI = +/-0.015; p = 0.002)  | 0.190 (CI = +/-0.105; p = 0.001)  | 0.513        | +2.56%             |
| Severity  | 2010.1     | 0.029 (CI = +/-0.015; p = 0.001)  | 0.204 (CI = +/-0.106; p = 0.001)  | 0.542        | +2.90%             |
| Severity  | 2010.2     | 0.034 (CI = +/-0.015; p = 0.000)  | 0.184 (CI = +/-0.100; p = 0.001)  | 0.612        | +3.45%             |
| Severity  | 2011.1     | 0.030 (CI = +/-0.016; p = 0.001)  | 0.168 (CI = +/-0.100; p = 0.002)  | 0.535        | +3.02%             |
| Severity  | 2011.2     | 0.026 (CI = +/-0.017; p = 0.004)  | 0.181 (CI = +/-0.100; p = 0.001)  | 0.538        | +2.65%             |
| Severity  | 2012.1     | 0.027 (CI = +/-0.018; p = 0.006)  | 0.184 (CI = +/-0.106; p = 0.002)  | 0.504        | +2.76%             |
| Severity  | 2012.2     | 0.031 (CI = +/-0.020; p = 0.005)  | 0.173 (CI = +/-0.109; p = 0.004)  | 0.525        | +3.11%             |
| Severity  | 2013.1     | 0.030 (CI = +/-0.023; p = 0.013)  | 0.171 (CI = +/-0.117; p = 0.007)  | 0.452        | +3.02%             |
| Severity  | 2013.2     | 0.027 (CI = +/-0.025; p = 0.037)  | 0.178 (CI = +/-0.123; p = 0.008)  | 0.446        | +2.75%             |
| Severity  | 2014.1     | 0.023 (CI = +/-0.028; p = 0.108)  | 0.165 (CI = +/-0.130; p = 0.017)  | 0.336        | +2.28%             |
| Severity  | 2014.2     | 0.028 (CI = +/-0.032; p = 0.082)  | 0.153 (CI = +/-0.137; p = 0.031)  | 0.350        | +2.79%             |
| Severity  | 2015.1     | 0.026 (CI = +/-0.037; p = 0.158)  | 0.148 (CI = +/-0.150; p = 0.052)  | 0.249        | +2.59%             |
| Severity  | 2015.2     | 0.018 (CI = +/-0.042; p = 0.361)  | 0.164 (CI = +/-0.158; p = 0.043)  | 0.264        | +1.82%             |
| Severity  | 2016.1     | 0.006 (CI = +/-0.048; p = 0.770)  | 0.139 (CI = +/-0.165; p = 0.090)  | 0.128        | +0.64%             |
| Severity  | 2016.2     | 0.013 (CI = +/-0.057; p = 0.606)  | 0.126 (CI = +/-0.182; p = 0.147)  | 0.080        | +1.34%             |
| Severity  | 2017.1     | -0.002 (CI = +/-0.068; p = 0.939) | 0.098 (CI = +/-0.197; p = 0.278)  | -0.063       | -0.23%             |
| Frequency | 2003.1     | 0.014 (CI = +/-0.017; p = 0.121)  | -0.533 (CI = +/-0.192; p = 0.000) | 0.474        | +1.38%             |
| Frequency | 2003.2     | 0.017 (CI = +/-0.018; p = 0.070)  | -0.551 (CI = +/-0.193; p = 0.000) | 0.494        | +1.68%             |
| Frequency | 2004.1     | 0.017 (CI = +/-0.019; p = 0.079)  | -0.548 (CI = +/-0.199; p = 0.000) | 0.491        | +1.72%             |
| Frequency | 2004.2     | 0.020 (CI = +/-0.020; p = 0.044)  | -0.568 (CI = +/-0.200; p = 0.000) | 0.513        | +2.06%             |
| Frequency | 2005.1     | 0.018 (CI = +/-0.021; p = 0.085)  | -0.581 (CI = +/-0.205; p = 0.000) | 0.520        | +1.84%             |
| Frequency | 2005.2     | 0.022 (CI = +/-0.022; p = 0.051)  | -0.599 (CI = +/-0.207; p = 0.000) | 0.536        | +2.19%             |
| Frequency | 2006.1     | 0.019 (CI = +/-0.023; p = 0.095)  | -0.611 (CI = +/-0.213; p = 0.000) | 0.541        | +1.97%             |
| Frequency | 2006.2     | 0.025 (CI = +/-0.024; p = 0.042)  | -0.638 (CI = +/-0.212; p = 0.000) | 0.574        | +2.50%             |
| Frequency | 2007.1     | 0.028 (CI = +/-0.025; p = 0.032)  | -0.622 (CI = +/-0.218; p = 0.000) | 0.575        | +2.81%             |
| Frequency | 2007.2     | 0.037 (CI = +/-0.024; p = 0.005)  | -0.665 (CI = +/-0.203; p = 0.000) | 0.654        | +3.74%             |
| Frequency | 2008.1     | 0.038 (CI = +/-0.026; p = 0.006)  | -0.659 (CI = +/-0.211; p = 0.000) | 0.654        | +3.88%             |
| Frequency | 2008.2     | 0.041 (CI = +/-0.028; p = 0.005)  | -0.673 (CI = +/-0.217; p = 0.000) | 0.651        | +4.22%             |
| Frequency | 2009.1     | 0.037 (CI = +/-0.030; p = 0.016)  | -0.691 (CI = +/-0.223; p = 0.000) | 0.658        | +3.81%             |
| Frequency | 2009.2     | 0.032 (CI = +/-0.031; p = 0.048)  | -0.667 (CI = +/-0.227; p = 0.000) | 0.623        | +3.22%             |
| Frequency | 2010.1     | 0.030 (CI = +/-0.034; p = 0.080)  | -0.673 (CI = +/-0.237; p = 0.000) | 0.622        | +3.08%             |
| Frequency | 2010.2     | 0.022 (CI = +/-0.036; p = 0.220)  | -0.640 (CI = +/-0.236; p = 0.000) | 0.590        | +2.18%             |
| Frequency | 2011.1     | 0.027 (CI = +/-0.039; p = 0.158)  | -0.619 (CI = +/-0.244; p = 0.000) | 0.586        | +2.74%             |
| Frequency | 2011.2     | 0.022 (CI = +/-0.042; p = 0.282)  | -0.601 (CI = +/-0.254; p = 0.000) | 0.545        | +2.24%             |
| Frequency | 2012.1     | 0.014 (CI = +/-0.046; p = 0.512)  | -0.628 (CI = +/-0.263; p = 0.000) | 0.565        | +1.46%             |
| Frequency | 2012.2     | -0.006 (CI = +/-0.042; p = 0.775) | -0.564 (CI = +/-0.229; p = 0.000) | 0.585        | -0.57%             |
| Frequency | 2013.1     | 0.008 (CI = +/-0.043; p = 0.686)  | -0.520 (CI = +/-0.223; p = 0.000) | 0.579        | +0.84%             |
| Frequency | 2013.2     | 0.011 (CI = +/-0.048; p = 0.624)  | -0.528 (CI = +/-0.238; p = 0.000) | 0.567        | +1.14%             |
| Frequency | 2014.1     | 0.000 (CI = +/-0.054; p = 0.990)  | -0.559 (CI = +/-0.247; p = 0.000) | 0.598        | +0.03%             |
| Frequency | 2014.2     | -0.018 (CI = +/-0.054; p = 0.474) | -0.512 (CI = +/-0.235; p = 0.000) | 0.601        | -1.83%             |
| Frequency | 2015.1     | -0.007 (CI = +/-0.062; p = 0.814) | -0.483 (CI = +/-0.249; p = 0.001) | 0.557        | -0.67%             |
| Frequency | 2015.2     | -0.025 (CI = +/-0.067; p = 0.432) | -0.445 (CI = +/-0.250; p = 0.003) | 0.544        | -2.42%             |
| Frequency | 2016.1     | -0.013 (CI = +/-0.079; p = 0.727) | -0.419 (CI = +/-0.273; p = 0.007) | 0.477        | -1.25%             |
| Frequency | 2016.2     | -0.013 (CI = +/-0.097; p = 0.756) | -0.417 (CI = +/-0.307; p = 0.014) | 0.443        | -1.34%             |
| Frequency | 2017.1     | 0.021 (CI = +/-0.110; p = 0.669)  | -0.355 (CI = +/-0.315; p = 0.032) | 0.398        | +2.09%             |

**Specified Perils**

Coverage = SP  
 End Trend Period = 2021.2  
 Excluded Points = 2006.1  
 Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R^2 | Implied Trend Rate |
|-----------|------------|-----------------------------------|-----------------------------------|--------------|--------------------|
| Loss Cost | 2003.1     | 0.056 (CI = +/-0.016; p = 0.000)  | -0.441 (CI = +/-0.178; p = 0.000) | 0.671        | +5.77%             |
| Loss Cost | 2003.2     | 0.058 (CI = +/-0.017; p = 0.000)  | -0.453 (CI = +/-0.182; p = 0.000) | 0.662        | +5.97%             |
| Loss Cost | 2004.1     | 0.060 (CI = +/-0.018; p = 0.000)  | -0.441 (CI = +/-0.186; p = 0.000) | 0.667        | +6.20%             |
| Loss Cost | 2004.2     | 0.063 (CI = +/-0.019; p = 0.000)  | -0.457 (CI = +/-0.189; p = 0.000) | 0.664        | +6.48%             |
| Loss Cost | 2005.1     | 0.059 (CI = +/-0.020; p = 0.000)  | -0.476 (CI = +/-0.190; p = 0.000) | 0.660        | +6.08%             |
| Loss Cost | 2005.2     | 0.063 (CI = +/-0.021; p = 0.000)  | -0.496 (CI = +/-0.193; p = 0.000) | 0.661        | +6.45%             |
| Loss Cost | 2006.2     | 0.062 (CI = +/-0.022; p = 0.000)  | -0.500 (CI = +/-0.199; p = 0.000) | 0.654        | +6.36%             |
| Loss Cost | 2007.1     | 0.064 (CI = +/-0.024; p = 0.000)  | -0.489 (CI = +/-0.205; p = 0.000) | 0.657        | +6.58%             |
| Loss Cost | 2007.2     | 0.070 (CI = +/-0.024; p = 0.000)  | -0.519 (CI = +/-0.202; p = 0.000) | 0.688        | +7.24%             |
| Loss Cost | 2008.1     | 0.071 (CI = +/-0.026; p = 0.000)  | -0.513 (CI = +/-0.210; p = 0.000) | 0.687        | +7.39%             |
| Loss Cost | 2008.2     | 0.071 (CI = +/-0.028; p = 0.000)  | -0.513 (CI = +/-0.218; p = 0.000) | 0.654        | +7.38%             |
| Loss Cost | 2009.1     | 0.069 (CI = +/-0.030; p = 0.000)  | -0.525 (CI = +/-0.226; p = 0.000) | 0.649        | +7.09%             |
| Loss Cost | 2009.2     | 0.057 (CI = +/-0.029; p = 0.000)  | -0.477 (CI = +/-0.208; p = 0.000) | 0.610        | +5.87%             |
| Loss Cost | 2010.1     | 0.059 (CI = +/-0.031; p = 0.001)  | -0.469 (CI = +/-0.218; p = 0.000) | 0.610        | +6.07%             |
| Loss Cost | 2010.2     | 0.055 (CI = +/-0.034; p = 0.003)  | -0.456 (CI = +/-0.226; p = 0.000) | 0.554        | +5.70%             |
| Loss Cost | 2011.1     | 0.057 (CI = +/-0.037; p = 0.005)  | -0.451 (CI = +/-0.238; p = 0.001) | 0.552        | +5.84%             |
| Loss Cost | 2011.2     | 0.048 (CI = +/-0.040; p = 0.020)  | -0.421 (CI = +/-0.240; p = 0.002) | 0.475        | +4.95%             |
| Loss Cost | 2012.1     | 0.042 (CI = +/-0.043; p = 0.058)  | -0.444 (CI = +/-0.250; p = 0.002) | 0.482        | +4.26%             |
| Loss Cost | 2012.2     | 0.025 (CI = +/-0.042; p = 0.225)  | -0.391 (CI = +/-0.229; p = 0.002) | 0.413        | +2.52%             |
| Loss Cost | 2013.1     | 0.038 (CI = +/-0.044; p = 0.083)  | -0.349 (CI = +/-0.226; p = 0.005) | 0.444        | +3.88%             |
| Loss Cost | 2013.2     | 0.038 (CI = +/-0.049; p = 0.117)  | -0.350 (CI = +/-0.242; p = 0.008) | 0.394        | +3.91%             |
| Loss Cost | 2014.1     | 0.023 (CI = +/-0.052; p = 0.361)  | -0.394 (CI = +/-0.241; p = 0.004) | 0.450        | +2.32%             |
| Loss Cost | 2014.2     | 0.009 (CI = +/-0.056; p = 0.731)  | -0.359 (CI = +/-0.244; p = 0.007) | 0.377        | +0.91%             |
| Loss Cost | 2015.1     | 0.019 (CI = +/-0.065; p = 0.536)  | -0.335 (CI = +/-0.261; p = 0.017) | 0.349        | +1.90%             |
| Loss Cost | 2015.2     | -0.006 (CI = +/-0.064; p = 0.827) | -0.280 (CI = +/-0.241; p = 0.027) | 0.284        | -0.64%             |
| Loss Cost | 2016.1     | -0.006 (CI = +/-0.078; p = 0.862) | -0.280 (CI = +/-0.271; p = 0.044) | 0.241        | -0.62%             |
| Loss Cost | 2016.2     | 0.000 (CI = +/-0.095; p = 0.997)  | -0.291 (CI = +/-0.302; p = 0.057) | 0.227        | -0.01%             |
| Loss Cost | 2017.1     | 0.018 (CI = +/-0.118; p = 0.724)  | -0.257 (CI = +/-0.339; p = 0.116) | 0.158        | +1.85%             |
| Severity  | 2003.1     | 0.041 (CI = +/-0.009; p = 0.000)  | 0.109 (CI = +/-0.094; p = 0.025)  | 0.726        | +4.15%             |
| Severity  | 2003.2     | 0.039 (CI = +/-0.009; p = 0.000)  | 0.119 (CI = +/-0.094; p = 0.015)  | 0.711        | +3.98%             |
| Severity  | 2004.1     | 0.040 (CI = +/-0.009; p = 0.000)  | 0.127 (CI = +/-0.095; p = 0.010)  | 0.712        | +4.13%             |
| Severity  | 2004.2     | 0.039 (CI = +/-0.010; p = 0.000)  | 0.136 (CI = +/-0.097; p = 0.007)  | 0.696        | +3.97%             |
| Severity  | 2005.1     | 0.037 (CI = +/-0.010; p = 0.000)  | 0.127 (CI = +/-0.098; p = 0.012)  | 0.656        | +3.79%             |
| Severity  | 2005.2     | 0.036 (CI = +/-0.011; p = 0.000)  | 0.134 (CI = +/-0.100; p = 0.011)  | 0.637        | +3.67%             |
| Severity  | 2006.2     | 0.037 (CI = +/-0.012; p = 0.000)  | 0.138 (CI = +/-0.103; p = 0.010)  | 0.620        | +3.77%             |
| Severity  | 2007.1     | 0.036 (CI = +/-0.012; p = 0.000)  | 0.133 (CI = +/-0.106; p = 0.016)  | 0.573        | +3.66%             |
| Severity  | 2007.2     | 0.033 (CI = +/-0.013; p = 0.000)  | 0.146 (CI = +/-0.106; p = 0.009)  | 0.556        | +3.38%             |
| Severity  | 2008.1     | 0.033 (CI = +/-0.014; p = 0.000)  | 0.146 (CI = +/-0.111; p = 0.012)  | 0.516        | +3.37%             |
| Severity  | 2008.2     | 0.030 (CI = +/-0.014; p = 0.000)  | 0.161 (CI = +/-0.110; p = 0.006)  | 0.503        | +3.03%             |
| Severity  | 2009.1     | 0.031 (CI = +/-0.015; p = 0.000)  | 0.166 (CI = +/-0.114; p = 0.006)  | 0.484        | +3.16%             |
| Severity  | 2009.2     | 0.025 (CI = +/-0.015; p = 0.002)  | 0.190 (CI = +/-0.105; p = 0.001)  | 0.513        | +2.56%             |
| Severity  | 2010.1     | 0.029 (CI = +/-0.015; p = 0.001)  | 0.204 (CI = +/-0.106; p = 0.001)  | 0.542        | +2.90%             |
| Severity  | 2010.2     | 0.034 (CI = +/-0.015; p = 0.000)  | 0.184 (CI = +/-0.100; p = 0.001)  | 0.612        | +3.45%             |
| Severity  | 2011.1     | 0.030 (CI = +/-0.016; p = 0.001)  | 0.168 (CI = +/-0.100; p = 0.002)  | 0.535        | +3.02%             |
| Severity  | 2011.2     | 0.026 (CI = +/-0.017; p = 0.004)  | 0.181 (CI = +/-0.100; p = 0.001)  | 0.538        | +2.65%             |
| Severity  | 2012.1     | 0.027 (CI = +/-0.018; p = 0.006)  | 0.184 (CI = +/-0.106; p = 0.002)  | 0.504        | +2.76%             |
| Severity  | 2012.2     | 0.031 (CI = +/-0.020; p = 0.005)  | 0.173 (CI = +/-0.109; p = 0.004)  | 0.525        | +3.11%             |
| Severity  | 2013.1     | 0.030 (CI = +/-0.023; p = 0.013)  | 0.171 (CI = +/-0.117; p = 0.007)  | 0.452        | +3.02%             |
| Severity  | 2013.2     | 0.027 (CI = +/-0.025; p = 0.037)  | 0.178 (CI = +/-0.123; p = 0.008)  | 0.446        | +2.75%             |
| Severity  | 2014.1     | 0.023 (CI = +/-0.028; p = 0.108)  | 0.165 (CI = +/-0.130; p = 0.017)  | 0.336        | +2.28%             |
| Severity  | 2014.2     | 0.028 (CI = +/-0.032; p = 0.082)  | 0.153 (CI = +/-0.137; p = 0.031)  | 0.350        | +2.79%             |
| Severity  | 2015.1     | 0.026 (CI = +/-0.037; p = 0.158)  | 0.148 (CI = +/-0.150; p = 0.052)  | 0.249        | +2.59%             |
| Severity  | 2015.2     | 0.018 (CI = +/-0.042; p = 0.361)  | 0.164 (CI = +/-0.158; p = 0.043)  | 0.264        | +1.82%             |
| Severity  | 2016.1     | 0.006 (CI = +/-0.048; p = 0.770)  | 0.139 (CI = +/-0.165; p = 0.090)  | 0.128        | +0.64%             |
| Severity  | 2016.2     | 0.013 (CI = +/-0.057; p = 0.606)  | 0.126 (CI = +/-0.182; p = 0.147)  | 0.080        | +1.34%             |
| Severity  | 2017.1     | -0.002 (CI = +/-0.068; p = 0.939) | 0.098 (CI = +/-0.197; p = 0.278)  | -0.063       | -0.23%             |
| Frequency | 2003.1     | 0.015 (CI = +/-0.018; p = 0.086)  | -0.549 (CI = +/-0.194; p = 0.000) | 0.491        | +1.56%             |
| Frequency | 2003.2     | 0.019 (CI = +/-0.018; p = 0.043)  | -0.572 (CI = +/-0.194; p = 0.000) | 0.516        | +1.92%             |
| Frequency | 2004.1     | 0.020 (CI = +/-0.019; p = 0.048)  | -0.568 (CI = +/-0.200; p = 0.000) | 0.514        | +1.98%             |
| Frequency | 2004.2     | 0.024 (CI = +/-0.020; p = 0.021)  | -0.594 (CI = +/-0.200; p = 0.000) | 0.543        | +2.42%             |
| Frequency | 2005.1     | 0.022 (CI = +/-0.021; p = 0.044)  | -0.604 (CI = +/-0.205; p = 0.000) | 0.547        | +2.21%             |
| Frequency | 2005.2     | 0.027 (CI = +/-0.022; p = 0.021)  | -0.630 (CI = +/-0.206; p = 0.000) | 0.572        | +2.69%             |
| Frequency | 2006.2     | 0.025 (CI = +/-0.024; p = 0.042)  | -0.638 (CI = +/-0.212; p = 0.000) | 0.574        | +2.50%             |
| Frequency | 2007.1     | 0.028 (CI = +/-0.025; p = 0.032)  | -0.622 (CI = +/-0.218; p = 0.000) | 0.575        | +2.81%             |
| Frequency | 2007.2     | 0.037 (CI = +/-0.024; p = 0.005)  | -0.665 (CI = +/-0.203; p = 0.000) | 0.654        | +3.74%             |
| Frequency | 2008.1     | 0.038 (CI = +/-0.026; p = 0.006)  | -0.659 (CI = +/-0.211; p = 0.000) | 0.654        | +3.88%             |
| Frequency | 2008.2     | 0.041 (CI = +/-0.028; p = 0.005)  | -0.673 (CI = +/-0.217; p = 0.000) | 0.651        | +4.22%             |
| Frequency | 2009.1     | 0.037 (CI = +/-0.030; p = 0.016)  | -0.691 (CI = +/-0.223; p = 0.000) | 0.658        | +3.81%             |
| Frequency | 2009.2     | 0.032 (CI = +/-0.031; p = 0.048)  | -0.667 (CI = +/-0.227; p = 0.000) | 0.623        | +3.22%             |
| Frequency | 2010.1     | 0.030 (CI = +/-0.034; p = 0.080)  | -0.673 (CI = +/-0.237; p = 0.000) | 0.622        | +3.08%             |
| Frequency | 2010.2     | 0.022 (CI = +/-0.036; p = 0.220)  | -0.640 (CI = +/-0.236; p = 0.000) | 0.590        | +2.18%             |
| Frequency | 2011.1     | 0.027 (CI = +/-0.039; p = 0.158)  | -0.619 (CI = +/-0.244; p = 0.000) | 0.586        | +2.74%             |
| Frequency | 2011.2     | 0.022 (CI = +/-0.042; p = 0.282)  | -0.601 (CI = +/-0.254; p = 0.000) | 0.545        | +2.24%             |
| Frequency | 2012.1     | 0.014 (CI = +/-0.046; p = 0.512)  | -0.628 (CI = +/-0.263; p = 0.000) | 0.565        | +1.46%             |
| Frequency | 2012.2     | -0.006 (CI = +/-0.042; p = 0.775) | -0.564 (CI = +/-0.229; p = 0.000) | 0.585        | -0.57%             |
| Frequency | 2013.1     | 0.008 (CI = +/-0.043; p = 0.686)  | -0.520 (CI = +/-0.223; p = 0.000) | 0.579        | +0.84%             |
| Frequency | 2013.2     | 0.011 (CI = +/-0.048; p = 0.624)  | -0.528 (CI = +/-0.238; p = 0.000) | 0.567        | +1.14%             |
| Frequency | 2014.1     | 0.000 (CI = +/-0.054; p = 0.990)  | -0.559 (CI = +/-0.247; p = 0.000) | 0.598        | +0.03%             |
| Frequency | 2014.2     | -0.018 (CI = +/-0.054; p = 0.474) | -0.512 (CI = +/-0.235; p = 0.000) | 0.601        | -1.83%             |
| Frequency | 2015.1     | -0.007 (CI = +/-0.062; p = 0.814) | -0.483 (CI = +/-0.249; p = 0.001) | 0.557        | -0.67%             |
| Frequency | 2015.2     | -0.025 (CI = +/-0.067; p = 0.432) | -0.445 (CI = +/-0.250; p = 0.003) | 0.544        | -2.42%             |
| Frequency | 2016.1     | -0.013 (CI = +/-0.079; p = 0.727) | -0.419 (CI = +/-0.273; p = 0.007) | 0.477        | -1.25%             |
| Frequency | 2016.2     | -0.013 (CI = +/-0.097; p = 0.756) | -0.417 (CI = +/-0.307; p = 0.014) | 0.443        | -1.34%             |
| Frequency | 2017.1     | 0.021 (CI = +/-0.110; p = 0.669)  | -0.355 (CI = +/-0.315; p = 0.032) | 0.398        | +2.09%             |

**Underinsured Motorists**

Coverage = UM  
 End Trend Period = 2022.1  
 Excluded Points = NA  
 Parameters Included: time, seasonality

| Fit       | Start Date | Time                              | Seasonality                       | Adjusted R <sup>2</sup> | Implied Trend Rate |
|-----------|------------|-----------------------------------|-----------------------------------|-------------------------|--------------------|
| Loss Cost | 2003.1     | 0.021 (CI = +/-0.027; p = 0.125)  | -0.389 (CI = +/-0.299; p = 0.012) | 0.163                   | +2.08%             |
| Loss Cost | 2003.2     | 0.014 (CI = +/-0.027; p = 0.310)  | -0.343 (CI = +/-0.293; p = 0.023) | 0.109                   | +1.37%             |
| Loss Cost | 2004.1     | 0.013 (CI = +/-0.028; p = 0.359)  | -0.347 (CI = +/-0.301; p = 0.025) | 0.108                   | +1.30%             |
| Loss Cost | 2004.2     | 0.014 (CI = +/-0.030; p = 0.355)  | -0.353 (CI = +/-0.310; p = 0.027) | 0.103                   | +1.39%             |
| Loss Cost | 2005.1     | 0.012 (CI = +/-0.032; p = 0.460)  | -0.365 (CI = +/-0.318; p = 0.026) | 0.106                   | +1.16%             |
| Loss Cost | 2005.2     | 0.017 (CI = +/-0.033; p = 0.302)  | -0.397 (CI = +/-0.322; p = 0.018) | 0.135                   | +1.71%             |
| Loss Cost | 2006.1     | 0.022 (CI = +/-0.034; p = 0.201)  | -0.369 (CI = +/-0.327; p = 0.028) | 0.135                   | +2.22%             |
| Loss Cost | 2006.2     | 0.031 (CI = +/-0.035; p = 0.075)  | -0.420 (CI = +/-0.321; p = 0.012) | 0.207                   | +3.18%             |
| Loss Cost | 2007.1     | 0.036 (CI = +/-0.037; p = 0.057)  | -0.399 (CI = +/-0.328; p = 0.019) | 0.214                   | +3.62%             |
| Loss Cost | 2007.2     | 0.029 (CI = +/-0.038; p = 0.134)  | -0.365 (CI = +/-0.333; p = 0.033) | 0.149                   | +2.94%             |
| Loss Cost | 2008.1     | 0.035 (CI = +/-0.041; p = 0.090)  | -0.337 (CI = +/-0.339; p = 0.052) | 0.158                   | +3.53%             |
| Loss Cost | 2008.2     | 0.034 (CI = +/-0.044; p = 0.120)  | -0.334 (CI = +/-0.353; p = 0.063) | 0.130                   | +3.48%             |
| Loss Cost | 2009.1     | 0.028 (CI = +/-0.046; p = 0.226)  | -0.362 (CI = +/-0.362; p = 0.050) | 0.128                   | +2.83%             |
| Loss Cost | 2009.2     | 0.031 (CI = +/-0.050; p = 0.212)  | -0.377 (CI = +/-0.377; p = 0.050) | 0.126                   | +3.17%             |
| Loss Cost | 2010.1     | 0.033 (CI = +/-0.054; p = 0.226)  | -0.370 (CI = +/-0.393; p = 0.063) | 0.123                   | +3.33%             |
| Loss Cost | 2010.2     | 0.043 (CI = +/-0.058; p = 0.135)  | -0.414 (CI = +/-0.401; p = 0.043) | 0.166                   | +4.42%             |
| Loss Cost | 2011.1     | 0.025 (CI = +/-0.058; p = 0.384)  | -0.486 (CI = +/-0.385; p = 0.016) | 0.207                   | +2.50%             |
| Loss Cost | 2011.2     | 0.014 (CI = +/-0.062; p = 0.637)  | -0.446 (CI = +/-0.396; p = 0.029) | 0.148                   | +1.44%             |
| Loss Cost | 2012.1     | 0.021 (CI = +/-0.068; p = 0.533)  | -0.424 (CI = +/-0.414; p = 0.045) | 0.132                   | +2.09%             |
| Loss Cost | 2012.2     | 0.020 (CI = +/-0.076; p = 0.596)  | -0.420 (CI = +/-0.439; p = 0.060) | 0.104                   | +1.97%             |
| Loss Cost | 2013.1     | 0.031 (CI = +/-0.083; p = 0.444)  | -0.384 (CI = +/-0.457; p = 0.094) | 0.090                   | +3.13%             |
| Loss Cost | 2013.2     | 0.012 (CI = +/-0.091; p = 0.785)  | -0.323 (CI = +/-0.470; p = 0.163) | 0.010                   | +1.19%             |
| Loss Cost | 2014.1     | -0.010 (CI = +/-0.097; p = 0.826) | -0.386 (CI = +/-0.476; p = 0.104) | 0.063                   | -1.01%             |
| Loss Cost | 2014.2     | -0.055 (CI = +/-0.091; p = 0.211) | -0.257 (CI = +/-0.420; p = 0.209) | 0.113                   | -5.40%             |
| Loss Cost | 2015.1     | -0.077 (CI = +/-0.099; p = 0.115) | -0.312 (CI = +/-0.429; p = 0.139) | 0.196                   | -7.45%             |
| Loss Cost | 2015.2     | -0.061 (CI = +/-0.114; p = 0.264) | -0.353 (CI = +/-0.461; p = 0.121) | 0.176                   | -5.94%             |
| Loss Cost | 2016.1     | -0.077 (CI = +/-0.132; p = 0.226) | -0.386 (CI = +/-0.497; p = 0.114) | 0.181                   | -7.38%             |
| Loss Cost | 2016.2     | -0.083 (CI = +/-0.161; p = 0.274) | -0.372 (CI = +/-0.557; p = 0.165) | 0.169                   | -7.97%             |
| Loss Cost | 2017.1     | -0.075 (CI = +/-0.196; p = 0.403) | -0.358 (CI = +/-0.623; p = 0.222) | 0.051                   | -7.24%             |
| Severity  | 2003.1     | 0.019 (CI = +/-0.020; p = 0.063)  | -0.063 (CI = +/-0.221; p = 0.565) | 0.050                   | +1.87%             |
| Severity  | 2003.2     | 0.012 (CI = +/-0.019; p = 0.207)  | -0.022 (CI = +/-0.210; p = 0.836) | -0.009                  | +1.22%             |
| Severity  | 2004.1     | 0.009 (CI = +/-0.020; p = 0.359)  | -0.040 (CI = +/-0.213; p = 0.702) | -0.028                  | +0.92%             |
| Severity  | 2004.2     | 0.010 (CI = +/-0.021; p = 0.356)  | -0.044 (CI = +/-0.219; p = 0.685) | -0.029                  | +0.98%             |
| Severity  | 2005.1     | 0.007 (CI = +/-0.022; p = 0.528)  | -0.060 (CI = +/-0.223; p = 0.584) | -0.039                  | +0.69%             |
| Severity  | 2005.2     | 0.003 (CI = +/-0.023; p = 0.790)  | -0.038 (CI = +/-0.225; p = 0.734) | -0.058                  | +0.30%             |
| Severity  | 2006.1     | 0.010 (CI = +/-0.023; p = 0.369)  | 0.001 (CI = +/-0.215; p = 0.993)  | -0.038                  | +1.01%             |
| Severity  | 2006.2     | 0.012 (CI = +/-0.024; p = 0.327)  | -0.008 (CI = +/-0.222; p = 0.941) | -0.034                  | +1.18%             |
| Severity  | 2007.1     | 0.011 (CI = +/-0.026; p = 0.368)  | -0.009 (CI = +/-0.230; p = 0.934) | -0.040                  | +1.15%             |
| Severity  | 2007.2     | 0.007 (CI = +/-0.027; p = 0.577)  | 0.011 (CI = +/-0.235; p = 0.921)  | -0.061                  | +0.75%             |
| Severity  | 2008.1     | 0.008 (CI = +/-0.029; p = 0.581)  | 0.014 (CI = +/-0.243; p = 0.910)  | -0.064                  | +0.79%             |
| Severity  | 2008.2     | 0.014 (CI = +/-0.030; p = 0.357)  | -0.015 (CI = +/-0.246; p = 0.900) | -0.043                  | +1.39%             |
| Severity  | 2009.1     | 0.009 (CI = +/-0.032; p = 0.563)  | -0.036 (CI = +/-0.251; p = 0.768) | -0.064                  | +0.92%             |
| Severity  | 2009.2     | 0.015 (CI = +/-0.034; p = 0.382)  | -0.061 (CI = +/-0.257; p = 0.625) | -0.042                  | +1.49%             |
| Severity  | 2010.1     | 0.014 (CI = +/-0.037; p = 0.458)  | -0.067 (CI = +/-0.268; p = 0.611) | -0.051                  | +1.36%             |
| Severity  | 2010.2     | 0.023 (CI = +/-0.039; p = 0.224)  | -0.107 (CI = +/-0.267; p = 0.414) | 0.005                   | +2.35%             |
| Severity  | 2011.1     | 0.014 (CI = +/-0.040; p = 0.480)  | -0.143 (CI = +/-0.266; p = 0.276) | -0.011                  | +1.39%             |
| Severity  | 2011.2     | 0.016 (CI = +/-0.044; p = 0.450)  | -0.152 (CI = +/-0.280; p = 0.270) | -0.012                  | +1.64%             |
| Severity  | 2012.1     | 0.019 (CI = +/-0.049; p = 0.424)  | -0.143 (CI = +/-0.294; p = 0.321) | -0.015                  | +1.91%             |
| Severity  | 2012.2     | 0.020 (CI = +/-0.054; p = 0.450)  | -0.146 (CI = +/-0.312; p = 0.337) | -0.030                  | +2.01%             |
| Severity  | 2013.1     | 0.038 (CI = +/-0.054; p = 0.153)  | -0.087 (CI = +/-0.297; p = 0.541) | 0.035                   | +3.91%             |
| Severity  | 2013.2     | 0.021 (CI = +/-0.057; p = 0.434)  | -0.033 (CI = +/-0.293; p = 0.812) | -0.085                  | +2.15%             |
| Severity  | 2014.1     | 0.003 (CI = +/-0.058; p = 0.908)  | -0.085 (CI = +/-0.285; p = 0.533) | -0.109                  | +0.32%             |
| Severity  | 2014.2     | -0.024 (CI = +/-0.054; p = 0.355) | -0.008 (CI = +/-0.250; p = 0.949) | -0.075                  | -2.38%             |
| Severity  | 2015.1     | -0.044 (CI = +/-0.055; p = 0.105) | -0.057 (CI = +/-0.236; p = 0.609) | 0.088                   | -4.29%             |
| Severity  | 2015.2     | -0.036 (CI = +/-0.063; p = 0.235) | -0.076 (CI = +/-0.255; p = 0.524) | 0.019                   | -3.55%             |
| Severity  | 2016.1     | -0.043 (CI = +/-0.074; p = 0.217) | -0.092 (CI = +/-0.276; p = 0.474) | 0.024                   | -4.26%             |
| Severity  | 2016.2     | -0.046 (CI = +/-0.090; p = 0.276) | -0.087 (CI = +/-0.310; p = 0.541) | 0.000                   | -4.49%             |
| Severity  | 2017.1     | -0.039 (CI = +/-0.109; p = 0.436) | -0.073 (CI = +/-0.345; p = 0.637) | -0.122                  | -3.79%             |
| Frequency | 2003.1     | 0.002 (CI = +/-0.018; p = 0.821)  | -0.326 (CI = +/-0.205; p = 0.003) | 0.182                   | +0.20%             |
| Frequency | 2003.2     | 0.001 (CI = +/-0.019; p = 0.882)  | -0.322 (CI = +/-0.211; p = 0.004) | 0.170                   | +0.14%             |
| Frequency | 2004.1     | 0.004 (CI = +/-0.020; p = 0.703)  | -0.307 (CI = +/-0.215; p = 0.006) | 0.155                   | +0.38%             |
| Frequency | 2004.2     | 0.004 (CI = +/-0.021; p = 0.701)  | -0.309 (CI = +/-0.221; p = 0.008) | 0.149                   | +0.41%             |
| Frequency | 2005.1     | 0.005 (CI = +/-0.023; p = 0.675)  | -0.305 (CI = +/-0.228; p = 0.010) | 0.142                   | +0.47%             |
| Frequency | 2005.2     | 0.014 (CI = +/-0.021; p = 0.187)  | -0.359 (CI = +/-0.206; p = 0.001) | 0.266                   | +1.40%             |
| Frequency | 2006.1     | 0.012 (CI = +/-0.022; p = 0.284)  | -0.370 (CI = +/-0.212; p = 0.001) | 0.272                   | +1.19%             |
| Frequency | 2006.2     | 0.020 (CI = +/-0.022; p = 0.074)  | -0.412 (CI = +/-0.200; p = 0.000) | 0.374                   | +1.98%             |
| Frequency | 2007.1     | 0.024 (CI = +/-0.022; p = 0.036)  | -0.389 (CI = +/-0.200; p = 0.000) | 0.385                   | +2.44%             |
| Frequency | 2007.2     | 0.022 (CI = +/-0.024; p = 0.074)  | -0.376 (CI = +/-0.206; p = 0.001) | 0.338                   | +2.17%             |
| Frequency | 2008.1     | 0.027 (CI = +/-0.024; p = 0.033)  | -0.350 (CI = +/-0.205; p = 0.002) | 0.355                   | +2.72%             |
| Frequency | 2008.2     | 0.020 (CI = +/-0.025; p = 0.108)  | -0.319 (CI = +/-0.203; p = 0.003) | 0.283                   | +2.05%             |
| Frequency | 2009.1     | 0.019 (CI = +/-0.027; p = 0.163)  | -0.326 (CI = +/-0.210; p = 0.004) | 0.284                   | +1.90%             |
| Frequency | 2009.2     | 0.016 (CI = +/-0.029; p = 0.255)  | -0.315 (CI = +/-0.218; p = 0.007) | 0.239                   | +1.66%             |
| Frequency | 2010.1     | 0.019 (CI = +/-0.031; p = 0.218)  | -0.304 (CI = +/-0.226; p = 0.011) | 0.234                   | +1.94%             |
| Frequency | 2010.2     | 0.020 (CI = +/-0.034; p = 0.237)  | -0.307 (CI = +/-0.238; p = 0.014) | 0.215                   | +2.03%             |
| Frequency | 2011.1     | 0.011 (CI = +/-0.035; p = 0.528)  | -0.343 (CI = +/-0.234; p = 0.006) | 0.260                   | +1.09%             |
| Frequency | 2011.2     | -0.002 (CI = +/-0.035; p = 0.909) | -0.294 (CI = +/-0.222; p = 0.012) | 0.215                   | -0.19%             |
| Frequency | 2012.1     | 0.002 (CI = +/-0.038; p = 0.924)  | -0.281 (CI = +/-0.232; p = 0.020) | 0.183                   | +0.18%             |
| Frequency | 2012.2     | 0.000 (CI = +/-0.043; p = 0.987)  | -0.273 (CI = +/-0.246; p = 0.031) | 0.158                   | -0.03%             |
| Frequency | 2013.1     | -0.008 (CI = +/-0.046; p = 0.735) | -0.296 (CI = +/-0.254; p = 0.025) | 0.190                   | -0.75%             |
| Frequency | 2013.2     | -0.010 (CI = +/-0.052; p = 0.704) | -0.290 (CI = +/-0.272; p = 0.043) | 0.172                   | -0.95%             |
| Frequency | 2014.1     | -0.013 (CI = +/-0.059; p = 0.635) | -0.301 (CI = +/-0.289; p = 0.038) | 0.167                   | -1.32%             |
| Frequency | 2014.2     | -0.031 (CI = +/-0.063; p = 0.300) | -0.250 (CI = +/-0.290; p = 0.085) | 0.173                   | -3.09%             |
| Frequency | 2015.1     | -0.034 (CI = +/-0.072; p = 0.330) | -0.255 (CI = +/-0.312; p = 0.100) | 0.136                   | -3.30%             |
| Frequency | 2015.2     | -0.025 (CI = +/-0.084; p = 0.525) | -0.276 (CI = +/-0.339; p = 0.101) | 0.133                   | -2.48%             |
| Frequency | 2016.1     | -0.033 (CI = +/-0.098; p = 0.469) | -0.294 (CI = +/-0.369; p = 0.106) | 0.125                   | -3.26%             |
| Frequency | 2016.2     | -0.037 (CI = +/-0.120; p = 0.501) | -0.285 (CI = +/-0.413; p = 0.153) | 0.107                   | -3.64%             |
| Frequency | 2017.1     | -0.037 (CI = +/-0.146; p = 0.580) | -0.285 (CI = +/-0.464; p = 0.195) | 0.032                   | -3.59%             |

**Underinsured Motorists**

Coverage = UM  
 End Trend Period = 2022.1  
 Excluded Points = NA  
 Parameters Included: time

|           |            |                                   |                         | Implied Trend |  |
|-----------|------------|-----------------------------------|-------------------------|---------------|--|
| Fit       | Start Date | Time                              | Adjusted R <sup>2</sup> | Rate          |  |
| Loss Cost | 2003.1     | 0.021 (CI = +/-0.029; p = 0.153)  | 0.029                   | +2.08%        |  |
| Loss Cost | 2003.2     | 0.012 (CI = +/-0.028; p = 0.391)  | -0.007                  | +1.22%        |  |
| Loss Cost | 2004.1     | 0.013 (CI = +/-0.030; p = 0.387)  | -0.007                  | +1.30%        |  |
| Loss Cost | 2004.2     | 0.012 (CI = +/-0.032; p = 0.442)  | -0.011                  | +1.22%        |  |
| Loss Cost | 2005.1     | 0.012 (CI = +/-0.034; p = 0.487)  | -0.015                  | +1.16%        |  |
| Loss Cost | 2005.2     | 0.015 (CI = +/-0.035; p = 0.399)  | -0.008                  | +1.50%        |  |
| Loss Cost | 2006.1     | 0.022 (CI = +/-0.037; p = 0.230)  | 0.015                   | +2.22%        |  |
| Loss Cost | 2006.2     | 0.029 (CI = +/-0.038; p = 0.132)  | 0.043                   | +2.93%        |  |
| Loss Cost | 2007.1     | 0.036 (CI = +/-0.040; p = 0.078)  | 0.073                   | +3.62%        |  |
| Loss Cost | 2007.2     | 0.027 (CI = +/-0.041; p = 0.196)  | 0.025                   | +2.69%        |  |
| Loss Cost | 2008.1     | 0.035 (CI = +/-0.043; p = 0.107)  | 0.060                   | +3.53%        |  |
| Loss Cost | 2008.2     | 0.032 (CI = +/-0.046; p = 0.168)  | 0.036                   | +3.21%        |  |
| Loss Cost | 2009.1     | 0.028 (CI = +/-0.049; p = 0.253)  | 0.014                   | +2.83%        |  |
| Loss Cost | 2009.2     | 0.028 (CI = +/-0.053; p = 0.292)  | 0.006                   | +2.82%        |  |
| Loss Cost | 2010.1     | 0.033 (CI = +/-0.058; p = 0.251)  | 0.016                   | +3.33%        |  |
| Loss Cost | 2010.2     | 0.039 (CI = +/-0.062; p = 0.207)  | 0.029                   | +3.97%        |  |
| Loss Cost | 2011.1     | 0.025 (CI = +/-0.065; p = 0.441)  | -0.018                  | +2.50%        |  |
| Loss Cost | 2011.2     | 0.009 (CI = +/-0.069; p = 0.792)  | -0.046                  | +0.88%        |  |
| Loss Cost | 2012.1     | 0.021 (CI = +/-0.074; p = 0.567)  | -0.034                  | +2.09%        |  |
| Loss Cost | 2012.2     | 0.013 (CI = +/-0.082; p = 0.738)  | -0.049                  | +1.33%        |  |
| Loss Cost | 2013.1     | 0.031 (CI = +/-0.088; p = 0.470)  | -0.026                  | +3.13%        |  |
| Loss Cost | 2013.2     | 0.006 (CI = +/-0.093; p = 0.897)  | -0.061                  | +0.58%        |  |
| Loss Cost | 2014.1     | -0.010 (CI = +/-0.103; p = 0.836) | -0.064                  | -1.01%        |  |
| Loss Cost | 2014.2     | -0.062 (CI = +/-0.092; p = 0.175) | 0.065                   | -5.97%        |  |
| Loss Cost | 2015.1     | -0.077 (CI = +/-0.104; p = 0.131) | 0.102                   | -7.45%        |  |
| Loss Cost | 2015.2     | -0.072 (CI = +/-0.121; p = 0.218) | 0.051                   | -6.95%        |  |
| Loss Cost | 2016.1     | -0.077 (CI = +/-0.142; p = 0.260) | 0.033                   | -7.38%        |  |
| Loss Cost | 2016.2     | -0.099 (CI = +/-0.167; p = 0.217) | 0.062                   | -9.40%        |  |
| Loss Cost | 2017.1     | -0.075 (CI = +/-0.200; p = 0.418) | -0.029                  | -7.24%        |  |
|           |            |                                   |                         |               |  |
| Severity  | 2003.1     | 0.019 (CI = +/-0.019; p = 0.061)  | 0.067                   | +1.87%        |  |
| Severity  | 2003.2     | 0.012 (CI = +/-0.019; p = 0.204)  | 0.018                   | +1.21%        |  |
| Severity  | 2004.1     | 0.009 (CI = +/-0.020; p = 0.353)  | -0.003                  | +0.92%        |  |
| Severity  | 2004.2     | 0.010 (CI = +/-0.021; p = 0.359)  | -0.004                  | +0.95%        |  |
| Severity  | 2005.1     | 0.007 (CI = +/-0.022; p = 0.524)  | -0.018                  | +0.69%        |  |
| Severity  | 2005.2     | 0.003 (CI = +/-0.023; p = 0.800)  | -0.029                  | +0.28%        |  |
| Severity  | 2006.1     | 0.010 (CI = +/-0.022; p = 0.361)  | -0.004                  | +1.01%        |  |
| Severity  | 2006.2     | 0.012 (CI = +/-0.024; p = 0.320)  | 0.001                   | +1.18%        |  |
| Severity  | 2007.1     | 0.011 (CI = +/-0.025; p = 0.360)  | -0.004                  | +1.15%        |  |
| Severity  | 2007.2     | 0.008 (CI = +/-0.027; p = 0.565)  | -0.023                  | +0.76%        |  |
| Severity  | 2008.1     | 0.008 (CI = +/-0.028; p = 0.573)  | -0.025                  | +0.79%        |  |
| Severity  | 2008.2     | 0.014 (CI = +/-0.030; p = 0.351)  | -0.004                  | +1.38%        |  |
| Severity  | 2009.1     | 0.009 (CI = +/-0.032; p = 0.555)  | -0.025                  | +0.92%        |  |
| Severity  | 2009.2     | 0.014 (CI = +/-0.034; p = 0.390)  | -0.009                  | +1.43%        |  |
| Severity  | 2010.1     | 0.014 (CI = +/-0.036; p = 0.450)  | -0.017                  | +1.36%        |  |
| Severity  | 2010.2     | 0.022 (CI = +/-0.038; p = 0.242)  | 0.019                   | +2.23%        |  |
| Severity  | 2011.1     | 0.014 (CI = +/-0.040; p = 0.482)  | -0.023                  | +1.39%        |  |
| Severity  | 2011.2     | 0.014 (CI = +/-0.044; p = 0.505)  | -0.026                  | +1.45%        |  |
| Severity  | 2012.1     | 0.019 (CI = +/-0.048; p = 0.423)  | -0.017                  | +1.91%        |  |
| Severity  | 2012.2     | 0.018 (CI = +/-0.054; p = 0.498)  | -0.028                  | +1.78%        |  |
| Severity  | 2013.1     | 0.038 (CI = +/-0.053; p = 0.144)  | 0.069                   | +3.91%        |  |
| Severity  | 2013.2     | 0.021 (CI = +/-0.054; p = 0.431)  | -0.021                  | +2.09%        |  |
| Severity  | 2014.1     | 0.003 (CI = +/-0.056; p = 0.906)  | -0.066                  | +0.32%        |  |
| Severity  | 2014.2     | -0.024 (CI = +/-0.052; p = 0.330) | 0.001                   | -2.40%        |  |
| Severity  | 2015.1     | -0.044 (CI = +/-0.053; p = 0.095) | 0.139                   | -4.29%        |  |
| Severity  | 2015.2     | -0.038 (CI = +/-0.061; p = 0.192) | 0.065                   | -3.77%        |  |
| Severity  | 2016.1     | -0.043 (CI = +/-0.071; p = 0.206) | 0.063                   | -4.26%        |  |
| Severity  | 2016.2     | -0.050 (CI = +/-0.085; p = 0.221) | 0.060                   | -4.84%        |  |
| Severity  | 2017.1     | -0.039 (CI = +/-0.102; p = 0.414) | -0.027                  | -3.79%        |  |
|           |            |                                   |                         |               |  |
| Frequency | 2003.1     | 0.002 (CI = +/-0.020; p = 0.840)  | -0.026                  | +0.20%        |  |
| Frequency | 2003.2     | 0.000 (CI = +/-0.021; p = 0.994)  | -0.028                  | +0.01%        |  |
| Frequency | 2004.1     | 0.004 (CI = +/-0.022; p = 0.730)  | -0.025                  | +0.38%        |  |
| Frequency | 2004.2     | 0.003 (CI = +/-0.023; p = 0.821)  | -0.028                  | +0.26%        |  |
| Frequency | 2005.1     | 0.005 (CI = +/-0.025; p = 0.701)  | -0.026                  | +0.47%        |  |
| Frequency | 2005.2     | 0.012 (CI = +/-0.024; p = 0.324)  | 0.000                   | +1.21%        |  |
| Frequency | 2006.1     | 0.012 (CI = +/-0.026; p = 0.360)  | -0.004                  | +1.19%        |  |
| Frequency | 2006.2     | 0.017 (CI = +/-0.027; p = 0.203)  | 0.022                   | +1.73%        |  |
| Frequency | 2007.1     | 0.024 (CI = +/-0.027; p = 0.083)  | 0.069                   | +2.44%        |  |
| Frequency | 2007.2     | 0.019 (CI = +/-0.029; p = 0.186)  | 0.028                   | +1.92%        |  |
| Frequency | 2008.1     | 0.027 (CI = +/-0.029; p = 0.070)  | 0.084                   | +2.72%        |  |
| Frequency | 2008.2     | 0.018 (CI = +/-0.029; p = 0.220)  | 0.021                   | +1.80%        |  |
| Frequency | 2009.1     | 0.019 (CI = +/-0.031; p = 0.230)  | 0.019                   | +1.90%        |  |
| Frequency | 2009.2     | 0.014 (CI = +/-0.033; p = 0.408)  | -0.012                  | +1.37%        |  |
| Frequency | 2010.1     | 0.019 (CI = +/-0.036; p = 0.276)  | 0.010                   | +1.94%        |  |
| Frequency | 2010.2     | 0.017 (CI = +/-0.039; p = 0.375)  | -0.008                  | +1.70%        |  |
| Frequency | 2011.1     | 0.011 (CI = +/-0.042; p = 0.593)  | -0.033                  | +1.09%        |  |
| Frequency | 2011.2     | -0.006 (CI = +/-0.040; p = 0.775) | -0.046                  | -0.56%        |  |
| Frequency | 2012.1     | 0.002 (CI = +/-0.043; p = 0.933)  | -0.052                  | +0.18%        |  |
| Frequency | 2012.2     | -0.004 (CI = +/-0.047; p = 0.846) | -0.053                  | -0.44%        |  |
| Frequency | 2013.1     | -0.008 (CI = +/-0.053; p = 0.766) | -0.053                  | -0.75%        |  |
| Frequency | 2013.2     | -0.015 (CI = +/-0.058; p = 0.595) | -0.043                  | -1.48%        |  |
| Frequency | 2014.1     | -0.013 (CI = +/-0.066; p = 0.672) | -0.054                  | -1.32%        |  |
| Frequency | 2014.2     | -0.037 (CI = +/-0.067; p = 0.255) | 0.027                   | -3.66%        |  |
| Frequency | 2015.1     | -0.034 (CI = +/-0.077; p = 0.365) | -0.008                  | -3.30%        |  |
| Frequency | 2015.2     | -0.034 (CI = +/-0.090; p = 0.432) | -0.027                  | -3.31%        |  |
| Frequency | 2016.1     | -0.033 (CI = +/-0.106; p = 0.506) | -0.046                  | -3.26%        |  |
| Frequency | 2016.2     | -0.049 (CI = +/-0.125; p = 0.402) | -0.022                  | -4.79%        |  |
| Frequency | 2017.1     | -0.037 (CI = +/-0.151; p = 0.597) | -0.075                  | -3.59%        |  |

**Underinsured Motorists**

Coverage = UM  
 End Trend Period = 2021.2  
 Excluded Points = NA  
 Parameters Included: time

| Fit       | Start Date | Time                              | Adjusted R^2 | Implied Trend |
|-----------|------------|-----------------------------------|--------------|---------------|
|           |            |                                   |              | Rate          |
| Loss Cost | 2003.1     | 0.019 (CI = +/-0.030; p = 0.205)  | 0.018        | +1.94%        |
| Loss Cost | 2003.2     | 0.010 (CI = +/-0.030; p = 0.494)  | -0.015       | +1.02%        |
| Loss Cost | 2004.1     | 0.011 (CI = +/-0.032; p = 0.489)  | -0.015       | +1.09%        |
| Loss Cost | 2004.2     | 0.010 (CI = +/-0.033; p = 0.551)  | -0.019       | +1.00%        |
| Loss Cost | 2005.1     | 0.009 (CI = +/-0.035; p = 0.601)  | -0.022       | +0.92%        |
| Loss Cost | 2005.2     | 0.013 (CI = +/-0.038; p = 0.501)  | -0.017       | +1.26%        |
| Loss Cost | 2006.1     | 0.020 (CI = +/-0.039; p = 0.304)  | 0.003        | +2.01%        |
| Loss Cost | 2006.2     | 0.027 (CI = +/-0.041; p = 0.181)  | 0.028        | +2.76%        |
| Loss Cost | 2007.1     | 0.034 (CI = +/-0.043; p = 0.111)  | 0.056        | +3.48%        |
| Loss Cost | 2007.2     | 0.024 (CI = +/-0.044; p = 0.263)  | 0.011        | +2.47%        |
| Loss Cost | 2008.1     | 0.033 (CI = +/-0.046; p = 0.151)  | 0.042        | +3.36%        |
| Loss Cost | 2008.2     | 0.030 (CI = +/-0.049; p = 0.228)  | 0.020        | +3.01%        |
| Loss Cost | 2009.1     | 0.026 (CI = +/-0.053; p = 0.332)  | -0.001       | +2.58%        |
| Loss Cost | 2009.2     | 0.025 (CI = +/-0.058; p = 0.377)  | -0.008       | +2.55%        |
| Loss Cost | 2010.1     | 0.030 (CI = +/-0.063; p = 0.327)  | 0.000        | +3.07%        |
| Loss Cost | 2010.2     | 0.037 (CI = +/-0.068; p = 0.272)  | 0.012        | +3.75%        |
| Loss Cost | 2011.1     | 0.021 (CI = +/-0.072; p = 0.548)  | -0.031       | +2.12%        |
| Loss Cost | 2011.2     | 0.003 (CI = +/-0.076; p = 0.932)  | -0.052       | +0.31%        |
| Loss Cost | 2012.1     | 0.016 (CI = +/-0.082; p = 0.693)  | -0.046       | +1.58%        |
| Loss Cost | 2012.2     | 0.007 (CI = +/-0.091; p = 0.876)  | -0.057       | +0.69%        |
| Loss Cost | 2013.1     | 0.026 (CI = +/-0.099; p = 0.587)  | -0.043       | +2.61%        |
| Loss Cost | 2013.2     | -0.003 (CI = +/-0.104; p = 0.951) | -0.066       | -0.30%        |
| Loss Cost | 2014.1     | -0.022 (CI = +/-0.116; p = 0.686) | -0.059       | -2.20%        |
| Loss Cost | 2014.2     | -0.083 (CI = +/-0.102; p = 0.103) | 0.129        | -7.94%        |
| Loss Cost | 2015.1     | -0.104 (CI = +/-0.114; p = 0.070) | 0.185        | -9.91%        |
| Loss Cost | 2015.2     | -0.103 (CI = +/-0.135; p = 0.123) | 0.130        | -9.75%        |
| Loss Cost | 2016.1     | -0.114 (CI = +/-0.161; p = 0.147) | 0.118        | -10.73%       |
| Loss Cost | 2016.2     | -0.147 (CI = +/-0.189; p = 0.112) | 0.174        | -13.70%       |
| Loss Cost | 2017.1     | -0.129 (CI = +/-0.234; p = 0.238) | 0.065        | -12.14%       |
|           |            |                                   |              |               |
| Severity  | 2003.1     | 0.020 (CI = +/-0.020; p = 0.057)  | 0.072        | +2.01%        |
| Severity  | 2003.2     | 0.013 (CI = +/-0.020; p = 0.191)  | 0.021        | +1.32%        |
| Severity  | 2004.1     | 0.010 (CI = +/-0.021; p = 0.333)  | -0.001       | +1.01%        |
| Severity  | 2004.2     | 0.011 (CI = +/-0.022; p = 0.338)  | -0.002       | +1.06%        |
| Severity  | 2005.1     | 0.008 (CI = +/-0.023; p = 0.497)  | -0.016       | +0.78%        |
| Severity  | 2005.2     | 0.004 (CI = +/-0.024; p = 0.766)  | -0.029       | +0.35%        |
| Severity  | 2006.1     | 0.011 (CI = +/-0.024; p = 0.336)  | -0.001       | +1.14%        |
| Severity  | 2006.2     | 0.013 (CI = +/-0.025; p = 0.296)  | 0.004        | +1.32%        |
| Severity  | 2007.1     | 0.013 (CI = +/-0.027; p = 0.333)  | -0.001       | +1.30%        |
| Severity  | 2007.2     | 0.009 (CI = +/-0.028; p = 0.529)  | -0.022       | +0.89%        |
| Severity  | 2008.1     | 0.009 (CI = +/-0.031; p = 0.535)  | -0.023       | +0.94%        |
| Severity  | 2008.2     | 0.016 (CI = +/-0.032; p = 0.321)  | 0.001        | +1.59%        |
| Severity  | 2009.1     | 0.011 (CI = +/-0.034; p = 0.514)  | -0.023       | +1.10%        |
| Severity  | 2009.2     | 0.017 (CI = +/-0.036; p = 0.355)  | -0.005       | +1.67%        |
| Severity  | 2010.1     | 0.016 (CI = +/-0.040; p = 0.410)  | -0.013       | +1.62%        |
| Severity  | 2010.2     | 0.026 (CI = +/-0.041; p = 0.212)  | 0.029        | +2.59%        |
| Severity  | 2011.1     | 0.017 (CI = +/-0.044; p = 0.433)  | -0.017       | +1.70%        |
| Severity  | 2011.2     | 0.018 (CI = +/-0.049; p = 0.452)  | -0.021       | +1.80%        |
| Severity  | 2012.1     | 0.023 (CI = +/-0.053; p = 0.374)  | -0.009       | +2.34%        |
| Severity  | 2012.2     | 0.022 (CI = +/-0.060; p = 0.442)  | -0.022       | +2.25%        |
| Severity  | 2013.1     | 0.046 (CI = +/-0.059; p = 0.116)  | 0.094        | +4.70%        |
| Severity  | 2013.2     | 0.027 (CI = +/-0.061; p = 0.359)  | -0.007       | +2.74%        |
| Severity  | 2014.1     | 0.008 (CI = +/-0.064; p = 0.794)  | -0.066       | +0.80%        |
| Severity  | 2014.2     | -0.023 (CI = +/-0.059; p = 0.424) | -0.023       | -2.25%        |
| Severity  | 2015.1     | -0.045 (CI = +/-0.061; p = 0.134) | 0.108        | -4.40%        |
| Severity  | 2015.2     | -0.039 (CI = +/-0.072; p = 0.256) | 0.035        | -3.82%        |
| Severity  | 2016.1     | -0.045 (CI = +/-0.085; p = 0.267) | 0.034        | -4.40%        |
| Severity  | 2016.2     | -0.053 (CI = +/-0.103; p = 0.279) | 0.032        | -5.13%        |
| Severity  | 2017.1     | -0.040 (CI = +/-0.127; p = 0.490) | -0.056       | -3.91%        |
|           |            |                                   |              |               |
| Frequency | 2003.1     | -0.001 (CI = +/-0.021; p = 0.947) | -0.028       | -0.07%        |
| Frequency | 2003.2     | -0.003 (CI = +/-0.022; p = 0.791) | -0.026       | -0.29%        |
| Frequency | 2004.1     | 0.001 (CI = +/-0.023; p = 0.942)  | -0.029       | +0.08%        |
| Frequency | 2004.2     | -0.001 (CI = +/-0.024; p = 0.961) | -0.030       | -0.06%        |
| Frequency | 2005.1     | 0.001 (CI = +/-0.026; p = 0.913)  | -0.031       | +0.14%        |
| Frequency | 2005.2     | 0.009 (CI = +/-0.026; p = 0.481)  | -0.016       | +0.90%        |
| Frequency | 2006.1     | 0.009 (CI = +/-0.027; p = 0.526)  | -0.019       | +0.87%        |
| Frequency | 2006.2     | 0.014 (CI = +/-0.029; p = 0.321)  | 0.001        | +1.42%        |
| Frequency | 2007.1     | 0.021 (CI = +/-0.029; p = 0.147)  | 0.041        | +2.15%        |
| Frequency | 2007.2     | 0.016 (CI = +/-0.030; p = 0.303)  | 0.004        | +1.57%        |
| Frequency | 2008.1     | 0.024 (CI = +/-0.031; p = 0.129)  | 0.051        | +2.40%        |
| Frequency | 2008.2     | 0.014 (CI = +/-0.031; p = 0.367)  | -0.006       | +1.40%        |
| Frequency | 2009.1     | 0.015 (CI = +/-0.034; p = 0.381)  | -0.008       | +1.47%        |
| Frequency | 2009.2     | 0.009 (CI = +/-0.036; p = 0.623)  | -0.032       | +0.87%        |
| Frequency | 2010.1     | 0.014 (CI = +/-0.038; p = 0.448)  | -0.018       | +1.43%        |
| Frequency | 2010.2     | 0.011 (CI = +/-0.042; p = 0.581)  | -0.032       | +1.13%        |
| Frequency | 2011.1     | 0.004 (CI = +/-0.045; p = 0.850)  | -0.048       | +0.41%        |
| Frequency | 2011.2     | -0.015 (CI = +/-0.043; p = 0.481) | -0.025       | -1.46%        |
| Frequency | 2012.1     | -0.007 (CI = +/-0.046; p = 0.739) | -0.049       | -0.75%        |
| Frequency | 2012.2     | -0.015 (CI = +/-0.051; p = 0.530) | -0.034       | -1.53%        |
| Frequency | 2013.1     | -0.020 (CI = +/-0.057; p = 0.461) | -0.026       | -2.00%        |
| Frequency | 2013.2     | -0.030 (CI = +/-0.063; p = 0.322) | 0.003        | -2.96%        |
| Frequency | 2014.1     | -0.030 (CI = +/-0.071; p = 0.378) | -0.012       | -2.98%        |
| Frequency | 2014.2     | -0.060 (CI = +/-0.070; p = 0.088) | 0.146        | -5.82%        |
| Frequency | 2015.1     | -0.059 (CI = +/-0.082; p = 0.141) | 0.103        | -5.76%        |
| Frequency | 2015.2     | -0.064 (CI = +/-0.096; p = 0.174) | 0.085        | -6.16%        |
| Frequency | 2016.1     | -0.069 (CI = +/-0.115; p = 0.214) | 0.064        | -6.62%        |
| Frequency | 2016.2     | -0.095 (CI = +/-0.134; p = 0.146) | 0.133        | -9.03%        |
| Frequency | 2017.1     | -0.090 (CI = +/-0.168; p = 0.253) | 0.054        | -8.56%        |



**Province of Alberta**  
**Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)**

**COVID-19 Adjustment Factors**  
**Data as of 06/30/22**

|     |          |          |           |     |     |     |   |     |
|-----|----------|----------|-----------|-----|-----|-----|---|-----|
| (1) | (2)      | (3)      | (4)       | (5) | (6) | (7) | (8)   | (8) |
|     | Selected | Selected | (2) + (3) |     |     |     |   |     |
|     |          |          |           |     |     |     | $1/\exp(\text{mobility} * \text{LC Coefficient})$ |     |

|                             |
|-----------------------------|
| COVID-19 Adjustment Factors |
|-----------------------------|

| Coverage | Frequency<br>Mobility<br>Coefficient | Severity Mobility<br>Coefficient | LC Coeff | 2020-1  | 2020-2  | 2021-1  | 2021-2  | 2022-1  |
|----------|--------------------------------------|----------------------------------|----------|---------|---------|---------|---------|---------|
| BI       | 0.014                                | 0.000                            | 0.014    | 1.364   | 1.446   | 1.554   | 1.262   | 1.232   |
| PD       | 0.016                                | 0.000                            | 0.016    | 1.426   | 1.524   | 1.655   | 1.305   | 1.269   |
| AB Total | 0.016                                | 0.000                            | 0.016    | 1.426   | 1.524   | 1.655   | 1.305   | 1.269   |
| CL       | 0.018                                | 0.000                            | 0.018    | 1.490   | 1.606   | 1.763   | 1.349   | 1.308   |
| CM       | 0.000                                | 0.000                            | 0.000    | 1.000   | 1.000   | 1.000   | 1.000   | 1.000   |
| AP       | 0.000                                | 0.000                            | 0.000    | 1.000   | 1.000   | 1.000   | 1.000   | 1.000   |
| SP       | 0.000                                | 0.000                            | 0.000    | 1.000   | 1.000   | 1.000   | 1.000   | 1.000   |
| UM       | 0.000                                | 0.000                            | 0.000    | 1.000   | 1.000   | 1.000   | 1.000   | 1.000   |
|          |                                      |                                  | Mobility | -22.164 | -26.318 | -31.492 | -16.634 | -14.899 |

**Bodily Injury**

Coverage = BI

End Trend Period = 2022.1

Excluded Points = NA

Parameters Included: time, seasonality, mobility

| Fit       | Start Date | Time                              | Seasonality                       | Mobility                          | Implied Trend           |        |
|-----------|------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|--------|
|           |            |                                   |                                   |                                   | Adjusted R <sup>2</sup> | Rate   |
| Loss Cost | 2005.2     | 0.049 (CI = +/-0.009; p = 0.000)  | -0.163 (CI = +/-0.074; p = 0.000) | 0.012 (CI = +/-0.006; p = 0.000)  | 0.806                   | +5.01% |
| Loss Cost | 2006.1     | 0.051 (CI = +/-0.010; p = 0.000)  | -0.156 (CI = +/-0.075; p = 0.000) | 0.013 (CI = +/-0.006; p = 0.000)  | 0.812                   | +5.20% |
| Loss Cost | 2006.2     | 0.053 (CI = +/-0.010; p = 0.000)  | -0.164 (CI = +/-0.075; p = 0.000) | 0.013 (CI = +/-0.006; p = 0.000)  | 0.813                   | +5.41% |
| Loss Cost | 2007.1     | 0.056 (CI = +/-0.010; p = 0.000)  | -0.152 (CI = +/-0.074; p = 0.000) | 0.014 (CI = +/-0.005; p = 0.000)  | 0.831                   | +5.72% |
| Loss Cost | 2007.2     | 0.058 (CI = +/-0.011; p = 0.000)  | -0.159 (CI = +/-0.075; p = 0.000) | 0.014 (CI = +/-0.005; p = 0.000)  | 0.826                   | +5.92% |
| Loss Cost | 2008.1     | 0.060 (CI = +/-0.011; p = 0.000)  | -0.150 (CI = +/-0.075; p = 0.000) | 0.015 (CI = +/-0.005; p = 0.000)  | 0.835                   | +6.19% |
| Loss Cost | 2008.2     | 0.064 (CI = +/-0.011; p = 0.000)  | -0.161 (CI = +/-0.073; p = 0.000) | 0.015 (CI = +/-0.005; p = 0.000)  | 0.848                   | +6.56% |
| Loss Cost | 2009.1     | 0.066 (CI = +/-0.012; p = 0.000)  | -0.154 (CI = +/-0.074; p = 0.000) | 0.016 (CI = +/-0.005; p = 0.000)  | 0.850                   | +6.80% |
| Loss Cost | 2009.2     | 0.067 (CI = +/-0.013; p = 0.000)  | -0.158 (CI = +/-0.077; p = 0.000) | 0.016 (CI = +/-0.005; p = 0.000)  | 0.834                   | +6.93% |
| Loss Cost | 2010.1     | 0.069 (CI = +/-0.014; p = 0.000)  | -0.152 (CI = +/-0.079; p = 0.001) | 0.016 (CI = +/-0.006; p = 0.000)  | 0.832                   | +7.14% |
| Loss Cost | 2010.2     | 0.065 (CI = +/-0.015; p = 0.000)  | -0.142 (CI = +/-0.079; p = 0.001) | 0.016 (CI = +/-0.006; p = 0.000)  | 0.801                   | +6.76% |
| Loss Cost | 2011.1     | 0.065 (CI = +/-0.017; p = 0.000)  | -0.142 (CI = +/-0.084; p = 0.002) | 0.016 (CI = +/-0.006; p = 0.000)  | 0.787                   | +6.76% |
| Loss Cost | 2011.2     | 0.062 (CI = +/-0.018; p = 0.000)  | -0.134 (CI = +/-0.086; p = 0.004) | 0.015 (CI = +/-0.006; p = 0.000)  | 0.743                   | +6.42% |
| Loss Cost | 2012.1     | 0.060 (CI = +/-0.020; p = 0.000)  | -0.139 (CI = +/-0.090; p = 0.005) | 0.015 (CI = +/-0.006; p = 0.000)  | 0.725                   | +6.18% |
| Loss Cost | 2012.2     | 0.058 (CI = +/-0.023; p = 0.000)  | -0.136 (CI = +/-0.095; p = 0.008) | 0.015 (CI = +/-0.007; p = 0.000)  | 0.674                   | +6.01% |
| Loss Cost | 2013.1     | 0.055 (CI = +/-0.026; p = 0.000)  | -0.144 (CI = +/-0.100; p = 0.008) | 0.014 (CI = +/-0.007; p = 0.000)  | 0.659                   | +5.65% |
| Loss Cost | 2013.2     | 0.051 (CI = +/-0.029; p = 0.002)  | -0.137 (CI = +/-0.105; p = 0.015) | 0.014 (CI = +/-0.007; p = 0.001)  | 0.600                   | +5.28% |
| Loss Cost | 2014.1     | 0.047 (CI = +/-0.033; p = 0.009)  | -0.146 (CI = +/-0.112; p = 0.014) | 0.013 (CI = +/-0.008; p = 0.002)  | 0.595                   | +4.77% |
| Loss Cost | 2014.2     | 0.037 (CI = +/-0.035; p = 0.042)  | -0.129 (CI = +/-0.111; p = 0.026) | 0.012 (CI = +/-0.007; p = 0.004)  | 0.560                   | +3.72% |
| Loss Cost | 2015.1     | 0.029 (CI = +/-0.040; p = 0.144)  | -0.142 (CI = +/-0.117; p = 0.021) | 0.011 (CI = +/-0.008; p = 0.008)  | 0.581                   | +2.90% |
| Loss Cost | 2015.2     | 0.020 (CI = +/-0.045; p = 0.346)  | -0.129 (CI = +/-0.122; p = 0.040) | 0.011 (CI = +/-0.008; p = 0.015)  | 0.572                   | +2.03% |
| Loss Cost | 2016.1     | 0.011 (CI = +/-0.053; p = 0.663)  | -0.143 (CI = +/-0.131; p = 0.036) | 0.010 (CI = +/-0.009; p = 0.031)  | 0.593                   | +1.06% |
| Loss Cost | 2016.2     | -0.003 (CI = +/-0.059; p = 0.897) | -0.124 (CI = +/-0.136; p = 0.069) | 0.009 (CI = +/-0.009; p = 0.047)  | 0.629                   | -0.34% |
| Loss Cost | 2017.1     | -0.018 (CI = +/-0.070; p = 0.570) | -0.142 (CI = +/-0.146; p = 0.055) | 0.008 (CI = +/-0.009; p = 0.085)  | 0.654                   | -1.74% |
|           |            |                                   |                                   |                                   |                         |        |
| Severity  | 2005.2     | 0.056 (CI = +/-0.006; p = 0.000)  | -0.082 (CI = +/-0.048; p = 0.001) | -0.001 (CI = +/-0.004; p = 0.610) | 0.945                   | +5.73% |
| Severity  | 2006.1     | 0.056 (CI = +/-0.006; p = 0.000)  | -0.083 (CI = +/-0.049; p = 0.002) | -0.001 (CI = +/-0.004; p = 0.598) | 0.941                   | +5.71% |
| Severity  | 2006.2     | 0.055 (CI = +/-0.007; p = 0.000)  | -0.082 (CI = +/-0.051; p = 0.003) | -0.001 (CI = +/-0.004; p = 0.590) | 0.934                   | +5.69% |
| Severity  | 2007.1     | 0.056 (CI = +/-0.007; p = 0.000)  | -0.080 (CI = +/-0.053; p = 0.004) | -0.001 (CI = +/-0.004; p = 0.642) | 0.930                   | +5.74% |
| Severity  | 2007.2     | 0.056 (CI = +/-0.008; p = 0.000)  | -0.080 (CI = +/-0.055; p = 0.006) | -0.001 (CI = +/-0.004; p = 0.657) | 0.923                   | +5.74% |
| Severity  | 2008.1     | 0.058 (CI = +/-0.008; p = 0.000)  | -0.074 (CI = +/-0.055; p = 0.011) | 0.000 (CI = +/-0.004; p = 0.809)  | 0.924                   | +5.93% |
| Severity  | 2008.2     | 0.060 (CI = +/-0.008; p = 0.000)  | -0.083 (CI = +/-0.054; p = 0.004) | 0.000 (CI = +/-0.004; p = 0.992)  | 0.929                   | +6.19% |
| Severity  | 2009.1     | 0.063 (CI = +/-0.009; p = 0.000)  | -0.073 (CI = +/-0.052; p = 0.008) | 0.001 (CI = +/-0.004; p = 0.748)  | 0.936                   | +6.49% |
| Severity  | 2009.2     | 0.065 (CI = +/-0.009; p = 0.000)  | -0.079 (CI = +/-0.053; p = 0.005) | 0.001 (CI = +/-0.004; p = 0.622)  | 0.934                   | +6.69% |
| Severity  | 2010.1     | 0.067 (CI = +/-0.009; p = 0.000)  | -0.071 (CI = +/-0.052; p = 0.010) | 0.001 (CI = +/-0.004; p = 0.443)  | 0.937                   | +6.95% |
| Severity  | 2010.2     | 0.065 (CI = +/-0.010; p = 0.000)  | -0.066 (CI = +/-0.053; p = 0.018) | 0.001 (CI = +/-0.004; p = 0.544)  | 0.928                   | +6.76% |
| Severity  | 2011.1     | 0.065 (CI = +/-0.011; p = 0.000)  | -0.066 (CI = +/-0.056; p = 0.024) | 0.001 (CI = +/-0.004; p = 0.564)  | 0.919                   | +6.76% |
| Severity  | 2011.2     | 0.061 (CI = +/-0.011; p = 0.000)  | -0.055 (CI = +/-0.053; p = 0.042) | 0.000 (CI = +/-0.004; p = 0.784)  | 0.917                   | +6.29% |
| Severity  | 2012.1     | 0.063 (CI = +/-0.012; p = 0.000)  | -0.051 (CI = +/-0.055; p = 0.068) | 0.001 (CI = +/-0.004; p = 0.689)  | 0.911                   | +6.46% |
| Severity  | 2012.2     | 0.064 (CI = +/-0.014; p = 0.000)  | -0.055 (CI = +/-0.058; p = 0.062) | 0.001 (CI = +/-0.004; p = 0.620)  | 0.901                   | +6.63% |
| Severity  | 2013.1     | 0.064 (CI = +/-0.016; p = 0.000)  | -0.055 (CI = +/-0.062; p = 0.076) | 0.001 (CI = +/-0.004; p = 0.652)  | 0.886                   | +6.60% |
| Severity  | 2013.2     | 0.064 (CI = +/-0.018; p = 0.000)  | -0.054 (CI = +/-0.066; p = 0.098) | 0.001 (CI = +/-0.004; p = 0.685)  | 0.862                   | +6.56% |
| Severity  | 2014.1     | 0.059 (CI = +/-0.020; p = 0.000)  | -0.062 (CI = +/-0.068; p = 0.071) | 0.000 (CI = +/-0.005; p = 0.881)  | 0.842                   | +6.13% |
| Severity  | 2014.2     | 0.053 (CI = +/-0.021; p = 0.000)  | -0.051 (CI = +/-0.067; p = 0.124) | 0.000 (CI = +/-0.005; p = 0.883)  | 0.809                   | +5.44% |
| Severity  | 2015.1     | 0.048 (CI = +/-0.024; p = 0.001)  | -0.060 (CI = +/-0.070; p = 0.086) | -0.001 (CI = +/-0.005; p = 0.679) | 0.782                   | +4.88% |
| Severity  | 2015.2     | 0.042 (CI = +/-0.027; p = 0.006)  | -0.051 (CI = +/-0.072; p = 0.149) | -0.001 (CI = +/-0.005; p = 0.528) | 0.718                   | +4.24% |
| Severity  | 2016.1     | 0.039 (CI = +/-0.032; p = 0.024)  | -0.055 (CI = +/-0.080; p = 0.153) | -0.002 (CI = +/-0.005; p = 0.491) | 0.674                   | +3.94% |
| Severity  | 2016.2     | 0.037 (CI = +/-0.039; p = 0.060)  | -0.053 (CI = +/-0.089; p = 0.212) | -0.002 (CI = +/-0.006; p = 0.499) | 0.576                   | +3.77% |
| Severity  | 2017.1     | 0.033 (CI = +/-0.048; p = 0.154)  | -0.058 (CI = +/-0.101; p = 0.215) | -0.002 (CI = +/-0.006; p = 0.469) | 0.507                   | +3.31% |
|           |            |                                   |                                   |                                   |                         |        |
| Frequency | 2005.2     | -0.007 (CI = +/-0.007; p = 0.053) | -0.082 (CI = +/-0.056; p = 0.006) | 0.013 (CI = +/-0.004; p = 0.000)  | 0.755                   | -0.69% |
| Frequency | 2006.1     | -0.005 (CI = +/-0.007; p = 0.170) | -0.073 (CI = +/-0.055; p = 0.011) | 0.014 (CI = +/-0.004; p = 0.000)  | 0.759                   | -0.48% |
| Frequency | 2006.2     | -0.003 (CI = +/-0.007; p = 0.455) | -0.082 (CI = +/-0.053; p = 0.003) | 0.014 (CI = +/-0.004; p = 0.000)  | 0.781                   | -0.26% |
| Frequency | 2007.1     | 0.000 (CI = +/-0.007; p = 0.963)  | -0.072 (CI = +/-0.050; p = 0.007) | 0.015 (CI = +/-0.004; p = 0.000)  | 0.797                   | -0.02% |
| Frequency | 2007.2     | 0.002 (CI = +/-0.007; p = 0.638)  | -0.079 (CI = +/-0.050; p = 0.003) | 0.015 (CI = +/-0.004; p = 0.000)  | 0.811                   | +0.17% |
| Frequency | 2008.1     | 0.003 (CI = +/-0.008; p = 0.506)  | -0.076 (CI = +/-0.051; p = 0.005) | 0.015 (CI = +/-0.004; p = 0.000)  | 0.809                   | +0.25% |
| Frequency | 2008.2     | 0.003 (CI = +/-0.008; p = 0.397)  | -0.079 (CI = +/-0.053; p = 0.005) | 0.015 (CI = +/-0.004; p = 0.000)  | 0.811                   | +0.35% |
| Frequency | 2009.1     | 0.003 (CI = +/-0.009; p = 0.519)  | -0.081 (CI = +/-0.055; p = 0.006) | 0.015 (CI = +/-0.004; p = 0.000)  | 0.811                   | +0.29% |
| Frequency | 2009.2     | 0.002 (CI = +/-0.010; p = 0.638)  | -0.079 (CI = +/-0.057; p = 0.009) | 0.015 (CI = +/-0.004; p = 0.000)  | 0.811                   | +0.23% |
| Frequency | 2010.1     | 0.002 (CI = +/-0.011; p = 0.744)  | -0.081 (CI = +/-0.060; p = 0.010) | 0.015 (CI = +/-0.004; p = 0.000)  | 0.809                   | +0.17% |
| Frequency | 2010.2     | 0.000 (CI = +/-0.012; p = 0.999)  | -0.076 (CI = +/-0.061; p = 0.018) | 0.015 (CI = +/-0.004; p = 0.000)  | 0.814                   | 0.00%  |
| Frequency | 2011.1     | 0.000 (CI = +/-0.013; p = 0.996)  | -0.076 (CI = +/-0.065; p = 0.024) | 0.015 (CI = +/-0.004; p = 0.000)  | 0.809                   | 0.00%  |
| Frequency | 2011.2     | 0.001 (CI = +/-0.014; p = 0.867)  | -0.079 (CI = +/-0.068; p = 0.025) | 0.015 (CI = +/-0.005; p = 0.000)  | 0.809                   | +0.12% |
| Frequency | 2012.1     | -0.003 (CI = +/-0.015; p = 0.724) | -0.088 (CI = +/-0.068; p = 0.014) | 0.014 (CI = +/-0.005; p = 0.000)  | 0.824                   | -0.26% |
| Frequency | 2012.2     | -0.006 (CI = +/-0.017; p = 0.477) | -0.081 (CI = +/-0.070; p = 0.026) | 0.014 (CI = +/-0.005; p = 0.000)  | 0.833                   | -0.58% |
| Frequency | 2013.1     | -0.009 (CI = +/-0.019; p = 0.323) | -0.088 (CI = +/-0.073; p = 0.021) | 0.013 (CI = +/-0.005; p = 0.000)  | 0.838                   | -0.90% |
| Frequency | 2013.2     | -0.012 (CI = +/-0.021; p = 0.234) | -0.082 (CI = +/-0.077; p = 0.037) | 0.013 (CI = +/-0.005; p = 0.000)  | 0.843                   | -1.21% |
| Frequency | 2014.1     | -0.013 (CI = +/-0.024; p = 0.273) | -0.084 (CI = +/-0.083; p = 0.047) | 0.013 (CI = +/-0.006; p = 0.000)  | 0.833                   | -1.28% |
| Frequency | 2014.2     | -0.016 (CI = +/-0.028; p = 0.220) | -0.078 (CI = +/-0.088; p = 0.078) | 0.013 (CI = +/-0.006; p = 0.001)  | 0.835                   | -1.63% |
| Frequency | 2015.1     | -0.019 (CI = +/-0.033; p = 0.223) | -0.082 (CI = +/-0.095; p = 0.084) | 0.012 (CI = +/-0.006; p = 0.001)  | 0.826                   | -1.89% |
| Frequency | 2015.2     | -0.021 (CI = +/-0.038; p = 0.241) | -0.079 (CI = +/-0.104; p = 0.123) | 0.012 (CI = +/-0.007; p = 0.003)  | 0.821                   | -2.12% |
| Frequency | 2016.1     | -0.028 (CI = +/-0.046; p = 0.196) | -0.088 (CI = +/-0.113; p = 0.111) | 0.011 (CI = +/-0.007; p = 0.007)  | 0.817                   | -2.77% |
| Frequency | 2016.2     | -0.040 (CI = +/-0.051; p = 0.103) | -0.071 (CI = +/-0.116; p = 0.195) | 0.011 (CI = +/-0.008; p = 0.011)  | 0.840                   | -3.96% |
| Frequency | 2017.1     | -0.050 (CI = +/-0.061; p = 0.094) | -0.084 (CI = +/-0.128; p = 0.166) | 0.010 (CI = +/-0.008; p = 0.023)  | 0.833                   | -4.88% |

**Property Damage**

Coverage = Total PD

End Trend Period = 2022.1

Excluded Points = NA

Parameters Included: time, seasonality, mobility

| Fit       | Start Date | Time                              | Seasonality                       | Mobility                          | Adjusted R <sup>2</sup> | Implied Trend |
|-----------|------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|---------------|
|           |            |                                   |                                   |                                   |                         | Rate          |
| Loss Cost | 2005.2     | 0.023 (CI = +/-0.007; p = 0.000)  | -0.051 (CI = +/-0.052; p = 0.055) | 0.016 (CI = +/-0.004; p = 0.000)  | 0.719                   | +2.34%        |
| Loss Cost | 2006.1     | 0.021 (CI = +/-0.006; p = 0.000)  | -0.062 (CI = +/-0.050; p = 0.017) | 0.016 (CI = +/-0.004; p = 0.000)  | 0.735                   | +2.10%        |
| Loss Cost | 2006.2     | 0.018 (CI = +/-0.006; p = 0.000)  | -0.051 (CI = +/-0.045; p = 0.029) | 0.015 (CI = +/-0.003; p = 0.000)  | 0.752                   | +1.83%        |
| Loss Cost | 2007.1     | 0.018 (CI = +/-0.007; p = 0.000)  | -0.053 (CI = +/-0.047; p = 0.029) | 0.015 (CI = +/-0.003; p = 0.000)  | 0.748                   | +1.79%        |
| Loss Cost | 2007.2     | 0.018 (CI = +/-0.007; p = 0.000)  | -0.052 (CI = +/-0.049; p = 0.038) | 0.015 (CI = +/-0.004; p = 0.000)  | 0.740                   | +1.77%        |
| Loss Cost | 2008.1     | 0.018 (CI = +/-0.008; p = 0.000)  | -0.048 (CI = +/-0.050; p = 0.058) | 0.015 (CI = +/-0.004; p = 0.000)  | 0.744                   | +1.86%        |
| Loss Cost | 2008.2     | 0.019 (CI = +/-0.008; p = 0.000)  | -0.050 (CI = +/-0.052; p = 0.057) | 0.015 (CI = +/-0.004; p = 0.000)  | 0.743                   | +1.92%        |
| Loss Cost | 2009.1     | 0.020 (CI = +/-0.009; p = 0.000)  | -0.047 (CI = +/-0.054; p = 0.082) | 0.016 (CI = +/-0.004; p = 0.000)  | 0.745                   | +2.01%        |
| Loss Cost | 2009.2     | 0.020 (CI = +/-0.010; p = 0.000)  | -0.048 (CI = +/-0.056; p = 0.089) | 0.016 (CI = +/-0.004; p = 0.000)  | 0.741                   | +2.04%        |
| Loss Cost | 2010.1     | 0.021 (CI = +/-0.011; p = 0.000)  | -0.044 (CI = +/-0.058; p = 0.129) | 0.016 (CI = +/-0.004; p = 0.000)  | 0.744                   | +2.16%        |
| Loss Cost | 2010.2     | 0.019 (CI = +/-0.011; p = 0.002)  | -0.037 (CI = +/-0.058; p = 0.202) | 0.015 (CI = +/-0.004; p = 0.000)  | 0.750                   | +1.89%        |
| Loss Cost | 2011.1     | 0.019 (CI = +/-0.012; p = 0.004)  | -0.036 (CI = +/-0.061; p = 0.241) | 0.016 (CI = +/-0.004; p = 0.000)  | 0.748                   | +1.94%        |
| Loss Cost | 2011.2     | 0.021 (CI = +/-0.013; p = 0.003)  | -0.041 (CI = +/-0.063; p = 0.189) | 0.016 (CI = +/-0.004; p = 0.000)  | 0.758                   | +2.17%        |
| Loss Cost | 2012.1     | 0.020 (CI = +/-0.015; p = 0.013)  | -0.046 (CI = +/-0.066; p = 0.162) | 0.016 (CI = +/-0.005; p = 0.000)  | 0.760                   | +1.98%        |
| Loss Cost | 2012.2     | 0.016 (CI = +/-0.016; p = 0.053)  | -0.037 (CI = +/-0.066; p = 0.254) | 0.015 (CI = +/-0.005; p = 0.000)  | 0.774                   | +1.58%        |
| Loss Cost | 2013.1     | 0.018 (CI = +/-0.018; p = 0.047)  | -0.032 (CI = +/-0.070; p = 0.352) | 0.015 (CI = +/-0.005; p = 0.000)  | 0.777                   | +1.83%        |
| Loss Cost | 2013.2     | 0.017 (CI = +/-0.020; p = 0.099)  | -0.029 (CI = +/-0.074; p = 0.423) | 0.015 (CI = +/-0.005; p = 0.000)  | 0.776                   | +1.68%        |
| Loss Cost | 2014.1     | 0.023 (CI = +/-0.022; p = 0.045)  | -0.017 (CI = +/-0.075; p = 0.638) | 0.016 (CI = +/-0.005; p = 0.000)  | 0.793                   | +2.30%        |
| Loss Cost | 2014.2     | 0.024 (CI = +/-0.026; p = 0.066)  | -0.019 (CI = +/-0.081; p = 0.627) | 0.016 (CI = +/-0.005; p = 0.000)  | 0.790                   | +2.40%        |
| Loss Cost | 2015.1     | 0.032 (CI = +/-0.028; p = 0.032)  | -0.005 (CI = +/-0.082; p = 0.891) | 0.017 (CI = +/-0.006; p = 0.000)  | 0.810                   | +3.20%        |
| Loss Cost | 2015.2     | 0.037 (CI = +/-0.032; p = 0.030)  | -0.013 (CI = +/-0.088; p = 0.747) | 0.017 (CI = +/-0.006; p = 0.000)  | 0.815                   | +3.73%        |
| Loss Cost | 2016.1     | 0.048 (CI = +/-0.035; p = 0.012)  | 0.004 (CI = +/-0.086; p = 0.911)  | 0.018 (CI = +/-0.006; p = 0.000)  | 0.847                   | +4.96%        |
| Loss Cost | 2016.2     | 0.040 (CI = +/-0.040; p = 0.047)  | 0.015 (CI = +/-0.091; p = 0.706)  | 0.018 (CI = +/-0.006; p = 0.000)  | 0.860                   | +4.12%        |
| Loss Cost | 2017.1     | 0.048 (CI = +/-0.048; p = 0.049)  | 0.025 (CI = +/-0.100; p = 0.571)  | 0.019 (CI = +/-0.006; p = 0.000)  | 0.862                   | +4.91%        |
|           |            |                                   |                                   |                                   |                         |               |
| Severity  | 2005.2     | 0.025 (CI = +/-0.004; p = 0.000)  | -0.039 (CI = +/-0.033; p = 0.023) | -0.001 (CI = +/-0.002; p = 0.251) | 0.888                   | +2.57%        |
| Severity  | 2006.1     | 0.025 (CI = +/-0.004; p = 0.000)  | -0.040 (CI = +/-0.034; p = 0.025) | -0.001 (CI = +/-0.003; p = 0.251) | 0.880                   | +2.56%        |
| Severity  | 2006.2     | 0.025 (CI = +/-0.005; p = 0.000)  | -0.038 (CI = +/-0.035; p = 0.037) | -0.002 (CI = +/-0.003; p = 0.227) | 0.867                   | +2.51%        |
| Severity  | 2007.1     | 0.025 (CI = +/-0.005; p = 0.000)  | -0.038 (CI = +/-0.037; p = 0.043) | -0.002 (CI = +/-0.003; p = 0.237) | 0.858                   | +2.50%        |
| Severity  | 2007.2     | 0.026 (CI = +/-0.005; p = 0.000)  | -0.041 (CI = +/-0.037; p = 0.033) | -0.001 (CI = +/-0.003; p = 0.291) | 0.855                   | +2.59%        |
| Severity  | 2008.1     | 0.028 (CI = +/-0.005; p = 0.000)  | -0.033 (CI = +/-0.035; p = 0.062) | -0.001 (CI = +/-0.003; p = 0.445) | 0.878                   | +2.79%        |
| Severity  | 2008.2     | 0.029 (CI = +/-0.005; p = 0.000)  | -0.039 (CI = +/-0.034; p = 0.027) | -0.001 (CI = +/-0.002; p = 0.582) | 0.888                   | +2.96%        |
| Severity  | 2009.1     | 0.031 (CI = +/-0.005; p = 0.000)  | -0.033 (CI = +/-0.033; p = 0.052) | 0.000 (CI = +/-0.002; p = 0.801)  | 0.900                   | +3.14%        |
| Severity  | 2009.2     | 0.032 (CI = +/-0.006; p = 0.000)  | -0.036 (CI = +/-0.034; p = 0.036) | 0.000 (CI = +/-0.002; p = 0.924)  | 0.897                   | +3.25%        |
| Severity  | 2010.1     | 0.033 (CI = +/-0.006; p = 0.000)  | -0.033 (CI = +/-0.035; p = 0.061) | 0.000 (CI = +/-0.002; p = 0.934)  | 0.895                   | +3.36%        |
| Severity  | 2010.2     | 0.033 (CI = +/-0.007; p = 0.000)  | -0.034 (CI = +/-0.036; p = 0.062) | 0.000 (CI = +/-0.003; p = 0.890)  | 0.883                   | +3.41%        |
| Severity  | 2011.1     | 0.033 (CI = +/-0.008; p = 0.000)  | -0.036 (CI = +/-0.038; p = 0.065) | 0.000 (CI = +/-0.003; p = 0.944)  | 0.870                   | +3.36%        |
| Severity  | 2011.2     | 0.032 (CI = +/-0.008; p = 0.000)  | -0.034 (CI = +/-0.040; p = 0.092) | 0.000 (CI = +/-0.003; p = 0.991)  | 0.847                   | +3.28%        |
| Severity  | 2012.1     | 0.034 (CI = +/-0.009; p = 0.000)  | -0.029 (CI = +/-0.041; p = 0.153) | 0.000 (CI = +/-0.003; p = 0.825)  | 0.848                   | +3.48%        |
| Severity  | 2012.2     | 0.035 (CI = +/-0.010; p = 0.000)  | -0.030 (CI = +/-0.043; p = 0.158) | 0.000 (CI = +/-0.003; p = 0.795)  | 0.826                   | +3.54%        |
| Severity  | 2013.1     | 0.037 (CI = +/-0.011; p = 0.000)  | -0.024 (CI = +/-0.044; p = 0.257) | 0.001 (CI = +/-0.003; p = 0.604)  | 0.831                   | +3.80%        |
| Severity  | 2013.2     | 0.038 (CI = +/-0.013; p = 0.000)  | -0.026 (CI = +/-0.047; p = 0.248) | 0.001 (CI = +/-0.003; p = 0.572)  | 0.806                   | +3.90%        |
| Severity  | 2014.1     | 0.041 (CI = +/-0.014; p = 0.000)  | -0.021 (CI = +/-0.049; p = 0.374) | 0.001 (CI = +/-0.003; p = 0.440)  | 0.803                   | +4.19%        |
| Severity  | 2014.2     | 0.042 (CI = +/-0.017; p = 0.000)  | -0.023 (CI = +/-0.053; p = 0.370) | 0.001 (CI = +/-0.004; p = 0.434)  | 0.767                   | +4.29%        |
| Severity  | 2015.1     | 0.046 (CI = +/-0.019; p = 0.000)  | -0.015 (CI = +/-0.055; p = 0.554) | 0.002 (CI = +/-0.004; p = 0.304)  | 0.772                   | +4.74%        |
| Severity  | 2015.2     | 0.050 (CI = +/-0.022; p = 0.000)  | -0.020 (CI = +/-0.058; p = 0.459) | 0.002 (CI = +/-0.004; p = 0.262)  | 0.749                   | +5.08%        |
| Severity  | 2016.1     | 0.058 (CI = +/-0.022; p = 0.000)  | -0.007 (CI = +/-0.055; p = 0.776) | 0.003 (CI = +/-0.004; p = 0.107)  | 0.806                   | +6.01%        |
| Severity  | 2016.2     | 0.060 (CI = +/-0.027; p = 0.001)  | -0.010 (CI = +/-0.061; p = 0.718) | 0.003 (CI = +/-0.004; p = 0.119)  | 0.760                   | +6.23%        |
| Severity  | 2017.1     | 0.068 (CI = +/-0.030; p = 0.001)  | 0.001 (CI = +/-0.063; p = 0.986)  | 0.004 (CI = +/-0.004; p = 0.075)  | 0.779                   | +7.09%        |
|           |            |                                   |                                   |                                   |                         |               |
| Frequency | 2005.2     | -0.002 (CI = +/-0.006; p = 0.417) | -0.012 (CI = +/-0.046; p = 0.590) | 0.018 (CI = +/-0.003; p = 0.000)  | 0.850                   | -0.23%        |
| Frequency | 2006.1     | -0.005 (CI = +/-0.006; p = 0.105) | -0.022 (CI = +/-0.043; p = 0.303) | 0.017 (CI = +/-0.003; p = 0.000)  | 0.877                   | -0.45%        |
| Frequency | 2006.2     | -0.007 (CI = +/-0.005; p = 0.017) | -0.014 (CI = +/-0.040; p = 0.492) | 0.017 (CI = +/-0.003; p = 0.000)  | 0.900                   | -0.66%        |
| Frequency | 2007.1     | -0.007 (CI = +/-0.006; p = 0.020) | -0.015 (CI = +/-0.041; p = 0.464) | 0.017 (CI = +/-0.003; p = 0.000)  | 0.899                   | -0.69%        |
| Frequency | 2007.2     | -0.008 (CI = +/-0.006; p = 0.011) | -0.011 (CI = +/-0.042; p = 0.597) | 0.016 (CI = +/-0.003; p = 0.000)  | 0.903                   | -0.80%        |
| Frequency | 2008.1     | -0.009 (CI = +/-0.006; p = 0.007) | -0.015 (CI = +/-0.042; p = 0.475) | 0.016 (CI = +/-0.003; p = 0.000)  | 0.906                   | -0.91%        |
| Frequency | 2008.2     | -0.010 (CI = +/-0.007; p = 0.005) | -0.011 (CI = +/-0.043; p = 0.593) | 0.016 (CI = +/-0.003; p = 0.000)  | 0.909                   | -1.01%        |
| Frequency | 2009.1     | -0.011 (CI = +/-0.007; p = 0.005) | -0.014 (CI = +/-0.045; p = 0.518) | 0.016 (CI = +/-0.003; p = 0.000)  | 0.909                   | -1.09%        |
| Frequency | 2009.2     | -0.012 (CI = +/-0.008; p = 0.006) | -0.012 (CI = +/-0.046; p = 0.608) | 0.016 (CI = +/-0.003; p = 0.000)  | 0.909                   | -1.17%        |
| Frequency | 2010.1     | -0.012 (CI = +/-0.009; p = 0.012) | -0.011 (CI = +/-0.049; p = 0.636) | 0.016 (CI = +/-0.003; p = 0.000)  | 0.906                   | -1.16%        |
| Frequency | 2010.2     | -0.015 (CI = +/-0.009; p = 0.002) | -0.003 (CI = +/-0.046; p = 0.911) | 0.015 (CI = +/-0.003; p = 0.000)  | 0.922                   | -1.46%        |
| Frequency | 2011.1     | -0.014 (CI = +/-0.010; p = 0.008) | 0.000 (CI = +/-0.048; p = 0.996)  | 0.015 (CI = +/-0.003; p = 0.000)  | 0.919                   | -1.37%        |
| Frequency | 2011.2     | -0.011 (CI = +/-0.010; p = 0.036) | -0.007 (CI = +/-0.048; p = 0.750) | 0.016 (CI = +/-0.003; p = 0.000)  | 0.924                   | -1.08%        |
| Frequency | 2012.1     | -0.015 (CI = +/-0.010; p = 0.008) | -0.017 (CI = +/-0.046; p = 0.446) | 0.015 (CI = +/-0.003; p = 0.000)  | 0.937                   | -1.45%        |
| Frequency | 2012.2     | -0.019 (CI = +/-0.010; p = 0.001) | -0.007 (CI = +/-0.041; p = 0.726) | 0.015 (CI = +/-0.003; p = 0.000)  | 0.954                   | -1.89%        |
| Frequency | 2013.1     | -0.019 (CI = +/-0.011; p = 0.003) | -0.007 (CI = +/-0.044; p = 0.735) | 0.015 (CI = +/-0.003; p = 0.000)  | 0.951                   | -1.90%        |
| Frequency | 2013.2     | -0.022 (CI = +/-0.012; p = 0.002) | -0.002 (CI = +/-0.045; p = 0.917) | 0.014 (CI = +/-0.003; p = 0.000)  | 0.953                   | -2.14%        |
| Frequency | 2014.1     | -0.018 (CI = +/-0.014; p = 0.012) | 0.004 (CI = +/-0.047; p = 0.852)  | 0.015 (CI = +/-0.003; p = 0.000)  | 0.953                   | -1.82%        |
| Frequency | 2014.2     | -0.018 (CI = +/-0.016; p = 0.027) | 0.004 (CI = +/-0.050; p = 0.866)  | 0.015 (CI = +/-0.003; p = 0.000)  | 0.950                   | -1.81%        |
| Frequency | 2015.1     | -0.015 (CI = +/-0.018; p = 0.100) | 0.010 (CI = +/-0.053; p = 0.688)  | 0.015 (CI = +/-0.004; p = 0.000)  | 0.949                   | -1.47%        |
| Frequency | 2015.2     | -0.013 (CI = +/-0.021; p = 0.204) | 0.007 (CI = +/-0.058; p = 0.788)  | 0.015 (CI = +/-0.004; p = 0.000)  | 0.946                   | -1.29%        |
| Frequency | 2016.1     | -0.010 (CI = +/-0.025; p = 0.398) | 0.012 (CI = +/-0.063; p = 0.689)  | 0.016 (CI = +/-0.004; p = 0.000)  | 0.942                   | -0.99%        |
| Frequency | 2016.2     | -0.020 (CI = +/-0.025; p = 0.103) | 0.025 (CI = +/-0.058; p = 0.339)  | 0.015 (CI = +/-0.004; p = 0.000)  | 0.960                   | -1.98%        |
| Frequency | 2017.1     | -0.021 (CI = +/-0.031; p = 0.166) | 0.025 (CI = +/-0.066; p = 0.406)  | 0.015 (CI = +/-0.004; p = 0.000)  | 0.955                   | -2.03%        |

**Property Damage**

Coverage = Total PD  
 End Trend Period = 2022.1  
 Excluded Points = NA  
 Parameters Included: time, mobility

| Fit       | Start Date | Time                              | Mobility                          | Implied Trend           |        |
|-----------|------------|-----------------------------------|-----------------------------------|-------------------------|--------|
|           |            |                                   |                                   | Adjusted R <sup>2</sup> | Rate   |
| Loss Cost | 2005.2     | 0.023 (CI = +/-0.007; p = 0.000)  | 0.017 (CI = +/-0.004; p = 0.000)  | 0.692                   | +2.34% |
| Loss Cost | 2006.1     | 0.021 (CI = +/-0.007; p = 0.000)  | 0.016 (CI = +/-0.004; p = 0.000)  | 0.687                   | +2.14% |
| Loss Cost | 2006.2     | 0.018 (CI = +/-0.007; p = 0.000)  | 0.015 (CI = +/-0.004; p = 0.000)  | 0.715                   | +1.84% |
| Loss Cost | 2007.1     | 0.018 (CI = +/-0.007; p = 0.000)  | 0.015 (CI = +/-0.004; p = 0.000)  | 0.710                   | +1.84% |
| Loss Cost | 2007.2     | 0.018 (CI = +/-0.008; p = 0.000)  | 0.015 (CI = +/-0.004; p = 0.000)  | 0.703                   | +1.77% |
| Loss Cost | 2008.1     | 0.019 (CI = +/-0.008; p = 0.000)  | 0.016 (CI = +/-0.004; p = 0.000)  | 0.715                   | +1.91% |
| Loss Cost | 2008.2     | 0.019 (CI = +/-0.009; p = 0.000)  | 0.016 (CI = +/-0.004; p = 0.000)  | 0.712                   | +1.92% |
| Loss Cost | 2009.1     | 0.020 (CI = +/-0.009; p = 0.000)  | 0.016 (CI = +/-0.004; p = 0.000)  | 0.721                   | +2.07% |
| Loss Cost | 2009.2     | 0.020 (CI = +/-0.010; p = 0.000)  | 0.016 (CI = +/-0.004; p = 0.000)  | 0.716                   | +2.04% |
| Loss Cost | 2010.1     | 0.022 (CI = +/-0.011; p = 0.000)  | 0.016 (CI = +/-0.004; p = 0.000)  | 0.727                   | +2.22% |
| Loss Cost | 2010.2     | 0.019 (CI = +/-0.011; p = 0.002)  | 0.016 (CI = +/-0.004; p = 0.000)  | 0.741                   | +1.89% |
| Loss Cost | 2011.1     | 0.020 (CI = +/-0.012; p = 0.003)  | 0.016 (CI = +/-0.004; p = 0.000)  | 0.743                   | +2.00% |
| Loss Cost | 2011.2     | 0.021 (CI = +/-0.014; p = 0.004)  | 0.016 (CI = +/-0.004; p = 0.000)  | 0.747                   | +2.17% |
| Loss Cost | 2012.1     | 0.021 (CI = +/-0.015; p = 0.011)  | 0.016 (CI = +/-0.005; p = 0.000)  | 0.745                   | +2.07% |
| Loss Cost | 2012.2     | 0.016 (CI = +/-0.016; p = 0.054)  | 0.015 (CI = +/-0.005; p = 0.000)  | 0.769                   | +1.58% |
| Loss Cost | 2013.1     | 0.019 (CI = +/-0.018; p = 0.037)  | 0.016 (CI = +/-0.005; p = 0.000)  | 0.778                   | +1.92% |
| Loss Cost | 2013.2     | 0.017 (CI = +/-0.020; p = 0.095)  | 0.015 (CI = +/-0.005; p = 0.000)  | 0.781                   | +1.68% |
| Loss Cost | 2014.1     | 0.023 (CI = +/-0.021; p = 0.034)  | 0.016 (CI = +/-0.005; p = 0.000)  | 0.804                   | +2.35% |
| Loss Cost | 2014.2     | 0.024 (CI = +/-0.025; p = 0.058)  | 0.016 (CI = +/-0.005; p = 0.000)  | 0.802                   | +2.40% |
| Loss Cost | 2015.1     | 0.032 (CI = +/-0.027; p = 0.023)  | 0.017 (CI = +/-0.005; p = 0.000)  | 0.825                   | +3.22% |
| Loss Cost | 2015.2     | 0.037 (CI = +/-0.031; p = 0.023)  | 0.017 (CI = +/-0.005; p = 0.000)  | 0.830                   | +3.73% |
| Loss Cost | 2016.1     | 0.048 (CI = +/-0.032; p = 0.008)  | 0.018 (CI = +/-0.005; p = 0.000)  | 0.862                   | +4.93% |
| Loss Cost | 2016.2     | 0.040 (CI = +/-0.037; p = 0.035)  | 0.018 (CI = +/-0.005; p = 0.000)  | 0.873                   | +4.13% |
| Loss Cost | 2017.1     | 0.046 (CI = +/-0.044; p = 0.042)  | 0.018 (CI = +/-0.006; p = 0.000)  | 0.873                   | +4.74% |
|           |            |                                   |                                   |                         |        |
| Severity  | 2005.2     | 0.025 (CI = +/-0.004; p = 0.000)  | -0.001 (CI = +/-0.003; p = 0.363) | 0.871                   | +2.57% |
| Severity  | 2006.1     | 0.026 (CI = +/-0.005; p = 0.000)  | -0.001 (CI = +/-0.003; p = 0.388) | 0.862                   | +2.59% |
| Severity  | 2006.2     | 0.025 (CI = +/-0.005; p = 0.000)  | -0.001 (CI = +/-0.003; p = 0.323) | 0.850                   | +2.51% |
| Severity  | 2007.1     | 0.025 (CI = +/-0.005; p = 0.000)  | -0.001 (CI = +/-0.003; p = 0.357) | 0.841                   | +2.54% |
| Severity  | 2007.2     | 0.026 (CI = +/-0.006; p = 0.000)  | -0.001 (CI = +/-0.003; p = 0.409) | 0.833                   | +2.59% |
| Severity  | 2008.1     | 0.028 (CI = +/-0.006; p = 0.000)  | -0.001 (CI = +/-0.003; p = 0.595) | 0.865                   | +2.83% |
| Severity  | 2008.2     | 0.029 (CI = +/-0.006; p = 0.000)  | 0.000 (CI = +/-0.003; p = 0.739)  | 0.868                   | +2.96% |
| Severity  | 2009.1     | 0.031 (CI = +/-0.006; p = 0.000)  | 0.000 (CI = +/-0.003; p = 0.984)  | 0.887                   | +3.18% |
| Severity  | 2009.2     | 0.032 (CI = +/-0.006; p = 0.000)  | 0.000 (CI = +/-0.003; p = 0.934)  | 0.880                   | +3.25% |
| Severity  | 2010.1     | 0.033 (CI = +/-0.007; p = 0.000)  | 0.000 (CI = +/-0.003; p = 0.765)  | 0.882                   | +3.41% |
| Severity  | 2010.2     | 0.034 (CI = +/-0.007; p = 0.000)  | 0.000 (CI = +/-0.003; p = 0.772)  | 0.867                   | +3.41% |
| Severity  | 2011.1     | 0.034 (CI = +/-0.008; p = 0.000)  | 0.000 (CI = +/-0.003; p = 0.767)  | 0.851                   | +3.42% |
| Severity  | 2011.2     | 0.032 (CI = +/-0.009; p = 0.000)  | 0.000 (CI = +/-0.003; p = 0.890)  | 0.829                   | +3.28% |
| Severity  | 2012.1     | 0.035 (CI = +/-0.009; p = 0.000)  | 0.001 (CI = +/-0.003; p = 0.684)  | 0.838                   | +3.54% |
| Severity  | 2012.2     | 0.035 (CI = +/-0.011; p = 0.000)  | 0.001 (CI = +/-0.003; p = 0.701)  | 0.814                   | +3.54% |
| Severity  | 2013.1     | 0.038 (CI = +/-0.011; p = 0.000)  | 0.001 (CI = +/-0.003; p = 0.496)  | 0.826                   | +3.87% |
| Severity  | 2013.2     | 0.038 (CI = +/-0.013; p = 0.000)  | 0.001 (CI = +/-0.003; p = 0.502)  | 0.800                   | +3.90% |
| Severity  | 2014.1     | 0.042 (CI = +/-0.014; p = 0.000)  | 0.001 (CI = +/-0.003; p = 0.357)  | 0.805                   | +4.26% |
| Severity  | 2014.2     | 0.042 (CI = +/-0.016; p = 0.000)  | 0.001 (CI = +/-0.003; p = 0.379)  | 0.770                   | +4.29% |
| Severity  | 2015.1     | 0.047 (CI = +/-0.018; p = 0.000)  | 0.002 (CI = +/-0.003; p = 0.243)  | 0.784                   | +4.81% |
| Severity  | 2015.2     | 0.050 (CI = +/-0.021; p = 0.000)  | 0.002 (CI = +/-0.004; p = 0.220)  | 0.758                   | +5.08% |
| Severity  | 2016.1     | 0.059 (CI = +/-0.021; p = 0.000)  | 0.003 (CI = +/-0.003; p = 0.078)  | 0.824                   | +6.05% |
| Severity  | 2016.2     | 0.060 (CI = +/-0.025; p = 0.000)  | 0.003 (CI = +/-0.004; p = 0.091)  | 0.783                   | +6.22% |
| Severity  | 2017.1     | 0.068 (CI = +/-0.027; p = 0.000)  | 0.004 (CI = +/-0.004; p = 0.053)  | 0.807                   | +7.08% |
|           |            |                                   |                                   |                         |        |
| Frequency | 2005.2     | -0.002 (CI = +/-0.006; p = 0.413) | 0.018 (CI = +/-0.003; p = 0.000)  | 0.853                   | -0.23% |
| Frequency | 2006.1     | -0.004 (CI = +/-0.006; p = 0.118) | 0.017 (CI = +/-0.003; p = 0.000)  | 0.877                   | -0.43% |
| Frequency | 2006.2     | -0.007 (CI = +/-0.005; p = 0.016) | 0.017 (CI = +/-0.003; p = 0.000)  | 0.902                   | -0.66% |
| Frequency | 2007.1     | -0.007 (CI = +/-0.006; p = 0.020) | 0.017 (CI = +/-0.003; p = 0.000)  | 0.901                   | -0.68% |
| Frequency | 2007.2     | -0.008 (CI = +/-0.006; p = 0.010) | 0.017 (CI = +/-0.003; p = 0.000)  | 0.906                   | -0.80% |
| Frequency | 2008.1     | -0.009 (CI = +/-0.006; p = 0.007) | 0.016 (CI = +/-0.003; p = 0.000)  | 0.908                   | -0.89% |
| Frequency | 2008.2     | -0.010 (CI = +/-0.007; p = 0.005) | 0.016 (CI = +/-0.003; p = 0.000)  | 0.912                   | -1.01% |
| Frequency | 2009.1     | -0.011 (CI = +/-0.007; p = 0.005) | 0.016 (CI = +/-0.003; p = 0.000)  | 0.911                   | -1.07% |
| Frequency | 2009.2     | -0.012 (CI = +/-0.008; p = 0.005) | 0.016 (CI = +/-0.003; p = 0.000)  | 0.912                   | -1.17% |
| Frequency | 2010.1     | -0.012 (CI = +/-0.009; p = 0.011) | 0.016 (CI = +/-0.003; p = 0.000)  | 0.909                   | -1.14% |
| Frequency | 2010.2     | -0.015 (CI = +/-0.009; p = 0.002) | 0.015 (CI = +/-0.003; p = 0.000)  | 0.925                   | -1.46% |
| Frequency | 2011.1     | -0.014 (CI = +/-0.009; p = 0.006) | 0.015 (CI = +/-0.003; p = 0.000)  | 0.923                   | -1.37% |
| Frequency | 2011.2     | -0.011 (CI = +/-0.010; p = 0.032) | 0.016 (CI = +/-0.003; p = 0.000)  | 0.928                   | -1.08% |
| Frequency | 2012.1     | -0.014 (CI = +/-0.010; p = 0.008) | 0.015 (CI = +/-0.003; p = 0.000)  | 0.938                   | -1.42% |
| Frequency | 2012.2     | -0.019 (CI = +/-0.010; p = 0.001) | 0.015 (CI = +/-0.003; p = 0.000)  | 0.956                   | -1.89% |
| Frequency | 2013.1     | -0.019 (CI = +/-0.011; p = 0.002) | 0.015 (CI = +/-0.003; p = 0.000)  | 0.954                   | -1.88% |
| Frequency | 2013.2     | -0.022 (CI = +/-0.012; p = 0.001) | 0.014 (CI = +/-0.003; p = 0.000)  | 0.956                   | -2.14% |
| Frequency | 2014.1     | -0.019 (CI = +/-0.013; p = 0.009) | 0.015 (CI = +/-0.003; p = 0.000)  | 0.957                   | -1.83% |
| Frequency | 2014.2     | -0.018 (CI = +/-0.015; p = 0.021) | 0.015 (CI = +/-0.003; p = 0.000)  | 0.954                   | -1.81% |
| Frequency | 2015.1     | -0.015 (CI = +/-0.017; p = 0.078) | 0.015 (CI = +/-0.003; p = 0.000)  | 0.953                   | -1.51% |
| Frequency | 2015.2     | -0.013 (CI = +/-0.020; p = 0.183) | 0.015 (CI = +/-0.004; p = 0.000)  | 0.950                   | -1.29% |
| Frequency | 2016.1     | -0.011 (CI = +/-0.024; p = 0.344) | 0.015 (CI = +/-0.004; p = 0.000)  | 0.947                   | -1.05% |
| Frequency | 2016.2     | -0.020 (CI = +/-0.025; p = 0.101) | 0.015 (CI = +/-0.004; p = 0.000)  | 0.960                   | -1.97% |
| Frequency | 2017.1     | -0.022 (CI = +/-0.030; p = 0.126) | 0.015 (CI = +/-0.004; p = 0.000)  | 0.957                   | -2.19% |

**Accident Benefits Total**

Coverage = AB Total

End Trend Period = 2022.1

Excluded Points = NA

Parameters Included: time, trend\_level\_change, seasonality, mobility

Future Trend Start Date = 2015-01-01

| Fit       | Start Date | Time                              | Seasonality                       | Mobility                          | Trend Shift                       | Adjusted R <sup>2</sup> | Implied Past<br>Trend Rate | Implied Future<br>Trend Rate |
|-----------|------------|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|----------------------------|------------------------------|
| Loss Cost | 2005.2     | 0.018 (CI = +/-0.010; p = 0.001)  | -0.177 (CI = +/-0.049; p = 0.000) | 0.011 (CI = +/-0.005; p = 0.000)  | 0.094 (CI = +/-0.025; p = 0.000)  | 0.938                   | +1.86%                     | +11.90%                      |
| Loss Cost | 2006.1     | 0.023 (CI = +/-0.010; p = 0.000)  | -0.168 (CI = +/-0.047; p = 0.000) | 0.011 (CI = +/-0.004; p = 0.000)  | 0.088 (CI = +/-0.025; p = 0.000)  | 0.946                   | +2.29%                     | +11.65%                      |
| Loss Cost | 2006.2     | 0.021 (CI = +/-0.012; p = 0.001)  | -0.166 (CI = +/-0.048; p = 0.000) | 0.011 (CI = +/-0.004; p = 0.000)  | 0.089 (CI = +/-0.026; p = 0.000)  | 0.943                   | +2.17%                     | +11.72%                      |
| Loss Cost | 2007.1     | 0.021 (CI = +/-0.013; p = 0.002)  | -0.167 (CI = +/-0.050; p = 0.000) | 0.011 (CI = +/-0.005; p = 0.000)  | 0.090 (CI = +/-0.028; p = 0.000)  | 0.941                   | +2.13%                     | +11.74%                      |
| Loss Cost | 2007.2     | 0.020 (CI = +/-0.014; p = 0.008)  | -0.165 (CI = +/-0.052; p = 0.000) | 0.011 (CI = +/-0.005; p = 0.000)  | 0.091 (CI = +/-0.029; p = 0.000)  | 0.937                   | +2.03%                     | +11.79%                      |
| Loss Cost | 2008.1     | 0.022 (CI = +/-0.016; p = 0.009)  | -0.162 (CI = +/-0.054; p = 0.000) | 0.011 (CI = +/-0.005; p = 0.000)  | 0.089 (CI = +/-0.031; p = 0.000)  | 0.936                   | +2.24%                     | +11.70%                      |
| Loss Cost | 2008.2     | 0.021 (CI = +/-0.018; p = 0.026)  | -0.160 (CI = +/-0.056; p = 0.000) | 0.011 (CI = +/-0.005; p = 0.000)  | 0.090 (CI = +/-0.034; p = 0.000)  | 0.931                   | +2.10%                     | +11.76%                      |
| Loss Cost | 2009.1     | 0.025 (CI = +/-0.020; p = 0.017)  | -0.155 (CI = +/-0.057; p = 0.000) | 0.011 (CI = +/-0.005; p = 0.000)  | 0.085 (CI = +/-0.036; p = 0.000)  | 0.933                   | +2.56%                     | +11.61%                      |
| Loss Cost | 2009.2     | 0.029 (CI = +/-0.023; p = 0.018)  | -0.159 (CI = +/-0.059; p = 0.000) | 0.011 (CI = +/-0.005; p = 0.000)  | 0.080 (CI = +/-0.039; p = 0.000)  | 0.930                   | +2.92%                     | +11.49%                      |
| Loss Cost | 2010.1     | 0.034 (CI = +/-0.027; p = 0.017)  | -0.154 (CI = +/-0.061; p = 0.000) | 0.011 (CI = +/-0.005; p = 0.000)  | 0.074 (CI = +/-0.043; p = 0.002)  | 0.930                   | +3.43%                     | +11.36%                      |
| Loss Cost | 2010.2     | 0.031 (CI = +/-0.032; p = 0.055)  | -0.152 (CI = +/-0.064; p = 0.000) | 0.011 (CI = +/-0.005; p = 0.000)  | 0.077 (CI = +/-0.048; p = 0.003)  | 0.921                   | +3.19%                     | +11.41%                      |
| Loss Cost | 2011.1     | 0.039 (CI = +/-0.039; p = 0.050)  | -0.148 (CI = +/-0.066; p = 0.000) | 0.011 (CI = +/-0.005; p = 0.000)  | 0.068 (CI = +/-0.055; p = 0.017)  | 0.921                   | +3.94%                     | +11.27%                      |
| Loss Cost | 2011.2     | 0.033 (CI = +/-0.048; p = 0.167)  | -0.144 (CI = +/-0.070; p = 0.000) | 0.011 (CI = +/-0.005; p = 0.001)  | 0.075 (CI = +/-0.064; p = 0.025)  | 0.909                   | +3.33%                     | +11.38%                      |
| Loss Cost | 2012.1     | 0.023 (CI = +/-0.062; p = 0.434)  | -0.149 (CI = +/-0.073; p = 0.001) | 0.011 (CI = +/-0.006; p = 0.001)  | 0.085 (CI = +/-0.078; p = 0.033)  | 0.904                   | +2.36%                     | +11.49%                      |
| Loss Cost | 2012.2     | 0.016 (CI = +/-0.084; p = 0.689)  | -0.146 (CI = +/-0.078; p = 0.001) | 0.011 (CI = +/-0.006; p = 0.001)  | 0.093 (CI = +/-0.100; p = 0.064)  | 0.890                   | +1.61%                     | +11.57%                      |
| Loss Cost | 2013.1     | 0.065 (CI = +/-0.116; p = 0.246)  | -0.135 (CI = +/-0.079; p = 0.003) | 0.011 (CI = +/-0.006; p = 0.001)  | 0.041 (CI = +/-0.131; p = 0.509)  | 0.898                   | +6.76%                     | +11.26%                      |
| Loss Cost | 2013.2     | 0.068 (CI = +/-0.192; p = 0.456)  | -0.135 (CI = +/-0.085; p = 0.004) | 0.011 (CI = +/-0.006; p = 0.002)  | 0.038 (CI = +/-0.206; p = 0.695)  | 0.874                   | +7.06%                     | +11.24%                      |
| Loss Cost | 2014.1     | 0.291 (CI = +/-0.400; p = 0.139)  | -0.117 (CI = +/-0.087; p = 0.013) | 0.011 (CI = +/-0.006; p = 0.002)  | -0.187 (CI = +/-0.411; p = 0.341) | 0.881                   | +33.74%                    | +10.91%                      |
| Loss Cost | 2014.2     | 0.104 (CI = +/-0.028; p = 0.000)  | -0.117 (CI = +/-0.087; p = 0.013) | 0.011 (CI = +/-0.006; p = 0.002)  | NA (CI = +/-NA; p = NA)           | 0.841                   | +10.91%                    | +10.91%                      |
| Loss Cost | 2015.1     | 0.102 (CI = +/-0.032; p = 0.000)  | -0.121 (CI = +/-0.095; p = 0.017) | 0.010 (CI = +/-0.006; p = 0.004)  | NA (CI = +/-NA; p = NA)           | 0.814                   | +10.69%                    | +10.69%                      |
| Loss Cost | 2015.2     | 0.101 (CI = +/-0.039; p = 0.000)  | -0.120 (CI = +/-0.104; p = 0.028) | 0.010 (CI = +/-0.007; p = 0.008)  | NA (CI = +/-NA; p = NA)           | 0.749                   | +10.61%                    | +10.61%                      |
| Loss Cost | 2016.1     | 0.110 (CI = +/-0.045; p = 0.000)  | -0.106 (CI = +/-0.111; p = 0.058) | 0.011 (CI = +/-0.007; p = 0.007)  | NA (CI = +/-NA; p = NA)           | 0.756                   | +11.60%                    | +11.60%                      |
| Loss Cost | 2016.2     | 0.096 (CI = +/-0.049; p = 0.002)  | -0.088 (CI = +/-0.112; p = 0.107) | 0.010 (CI = +/-0.007; p = 0.011)  | NA (CI = +/-NA; p = NA)           | 0.657                   | +10.11%                    | +10.11%                      |
| Loss Cost | 2017.1     | 0.098 (CI = +/-0.061; p = 0.007)  | -0.086 (CI = +/-0.128; p = 0.156) | 0.010 (CI = +/-0.008; p = 0.020)  | NA (CI = +/-NA; p = NA)           | 0.617                   | +10.25%                    | +10.25%                      |
| Severity  | 2005.2     | 0.031 (CI = +/-0.011; p = 0.000)  | -0.100 (CI = +/-0.055; p = 0.001) | -0.005 (CI = +/-0.005; p = 0.050) | 0.066 (CI = +/-0.028; p = 0.000)  | 0.950                   | +3.12%                     | +10.12%                      |
| Severity  | 2006.1     | 0.033 (CI = +/-0.012; p = 0.000)  | -0.095 (CI = +/-0.055; p = 0.001) | -0.005 (CI = +/-0.005; p = 0.047) | 0.062 (CI = +/-0.029; p = 0.000)  | 0.951                   | +3.36%                     | +9.99%                       |
| Severity  | 2006.2     | 0.028 (CI = +/-0.013; p = 0.000)  | -0.086 (CI = +/-0.054; p = 0.003) | -0.005 (CI = +/-0.005; p = 0.051) | 0.069 (CI = +/-0.029; p = 0.000)  | 0.952                   | +2.87%                     | +10.27%                      |
| Severity  | 2007.1     | 0.023 (CI = +/-0.013; p = 0.001)  | -0.096 (CI = +/-0.052; p = 0.001) | -0.005 (CI = +/-0.005; p = 0.047) | 0.077 (CI = +/-0.028; p = 0.000)  | 0.956                   | +2.34%                     | +10.53%                      |
| Severity  | 2007.2     | 0.016 (CI = +/-0.013; p = 0.017)  | -0.085 (CI = +/-0.048; p = 0.001) | -0.004 (CI = +/-0.004; p = 0.046) | 0.087 (CI = +/-0.027; p = 0.000)  | 0.962                   | +1.66%                     | +10.87%                      |
| Severity  | 2008.1     | 0.013 (CI = +/-0.014; p = 0.082)  | -0.090 (CI = +/-0.048; p = 0.001) | -0.004 (CI = +/-0.004; p = 0.048) | 0.092 (CI = +/-0.028; p = 0.000)  | 0.963                   | +1.27%                     | +11.03%                      |
| Severity  | 2008.2     | 0.005 (CI = +/-0.014; p = 0.476)  | -0.080 (CI = +/-0.045; p = 0.001) | -0.004 (CI = +/-0.004; p = 0.048) | 0.102 (CI = +/-0.027; p = 0.000)  | 0.968                   | +0.51%                     | +11.35%                      |
| Severity  | 2009.1     | 0.007 (CI = +/-0.016; p = 0.403)  | -0.078 (CI = +/-0.046; p = 0.002) | -0.004 (CI = +/-0.004; p = 0.050) | 0.100 (CI = +/-0.029; p = 0.000)  | 0.968                   | +0.68%                     | +11.29%                      |
| Severity  | 2009.2     | 0.009 (CI = +/-0.019; p = 0.354)  | -0.080 (CI = +/-0.048; p = 0.002) | -0.004 (CI = +/-0.004; p = 0.051) | 0.098 (CI = +/-0.032; p = 0.000)  | 0.967                   | +0.87%                     | +11.23%                      |
| Severity  | 2010.1     | 0.010 (CI = +/-0.022; p = 0.349)  | -0.079 (CI = +/-0.050; p = 0.004) | -0.004 (CI = +/-0.004; p = 0.055) | 0.096 (CI = +/-0.035; p = 0.000)  | 0.966                   | +1.03%                     | +11.19%                      |
| Severity  | 2010.2     | 0.012 (CI = +/-0.027; p = 0.367)  | -0.080 (CI = +/-0.053; p = 0.005) | -0.004 (CI = +/-0.004; p = 0.060) | 0.094 (CI = +/-0.040; p = 0.000)  | 0.964                   | +1.18%                     | +11.15%                      |
| Severity  | 2011.1     | 0.015 (CI = +/-0.032; p = 0.327)  | -0.077 (CI = +/-0.055; p = 0.009) | -0.004 (CI = +/-0.004; p = 0.063) | 0.090 (CI = +/-0.046; p = 0.001)  | 0.963                   | +1.56%                     | +11.08%                      |
| Severity  | 2011.2     | -0.003 (CI = +/-0.037; p = 0.878) | -0.068 (CI = +/-0.053; p = 0.016) | -0.004 (CI = +/-0.004; p = 0.072) | 0.111 (CI = +/-0.049; p = 0.000)  | 0.965                   | -0.27%                     | +11.40%                      |
| Severity  | 2012.1     | -0.004 (CI = +/-0.048; p = 0.877) | -0.068 (CI = +/-0.057; p = 0.022) | -0.004 (CI = +/-0.004; p = 0.083) | 0.112 (CI = +/-0.060; p = 0.001)  | 0.964                   | -0.35%                     | +11.41%                      |
| Severity  | 2012.2     | 0.002 (CI = +/-0.065; p = 0.961)  | -0.070 (CI = +/-0.060; p = 0.027) | -0.004 (CI = +/-0.004; p = 0.090) | 0.106 (CI = +/-0.077; p = 0.011)  | 0.961                   | +0.15%                     | +11.36%                      |
| Severity  | 2013.1     | 0.006 (CI = +/-0.073; p = 0.044)  | -0.052 (CI = +/-0.050; p = 0.042) | -0.004 (CI = +/-0.004; p = 0.028) | 0.027 (CI = +/-0.083; p = 0.488)  | 0.976                   | +7.88%                     | +10.88%                      |
| Severity  | 2013.2     | 0.097 (CI = +/-0.121; p = 0.106)  | -0.055 (CI = +/-0.053; p = 0.044) | -0.004 (CI = +/-0.004; p = 0.031) | 0.006 (CI = +/-0.129; p = 0.927)  | 0.972                   | +10.18%                    | +10.80%                      |
| Severity  | 2014.1     | 0.303 (CI = +/-0.227; p = 0.013)  | -0.038 (CI = +/-0.049; p = 0.116) | -0.004 (CI = +/-0.003; p = 0.014) | -0.204 (CI = +/-0.233; p = 0.081) | 0.978                   | +35.43%                    | +10.49%                      |
| Severity  | 2014.2     | 0.100 (CI = +/-0.016; p = 0.000)  | -0.038 (CI = +/-0.049; p = 0.116) | -0.004 (CI = +/-0.003; p = 0.014) | NA (CI = +/-NA; p = NA)           | 0.974                   | +10.49%                    | +10.49%                      |
| Severity  | 2015.1     | 0.096 (CI = +/-0.018; p = 0.000)  | -0.045 (CI = +/-0.052; p = 0.084) | -0.005 (CI = +/-0.003; p = 0.011) | NA (CI = +/-NA; p = NA)           | 0.971                   | +10.08%                    | +10.08%                      |
| Severity  | 2015.2     | 0.095 (CI = +/-0.021; p = 0.000)  | -0.043 (CI = +/-0.057; p = 0.118) | -0.005 (CI = +/-0.004; p = 0.016) | NA (CI = +/-NA; p = NA)           | 0.964                   | +9.98%                     | +9.98%                       |
| Severity  | 2016.1     | 0.104 (CI = +/-0.021; p = 0.000)  | -0.031 (CI = +/-0.053; p = 0.226) | -0.004 (CI = +/-0.004; p = 0.028) | NA (CI = +/-NA; p = NA)           | 0.971                   | +10.95%                    | +10.95%                      |
| Severity  | 2016.2     | 0.098 (CI = +/-0.024; p = 0.000)  | -0.023 (CI = +/-0.055; p = 0.367) | -0.004 (CI = +/-0.004; p = 0.021) | NA (CI = +/-NA; p = NA)           | 0.967                   | +10.33%                    | +10.33%                      |
| Severity  | 2017.1     | 0.100 (CI = +/-0.030; p = 0.000)  | -0.020 (CI = +/-0.063; p = 0.474) | -0.004 (CI = +/-0.004; p = 0.040) | NA (CI = +/-NA; p = NA)           | 0.959                   | +10.56%                    | +10.56%                      |
| Frequency | 2005.2     | -0.012 (CI = +/-0.010; p = 0.018) | -0.077 (CI = +/-0.048; p = 0.003) | 0.016 (CI = +/-0.004; p = 0.000)  | 0.028 (CI = +/-0.025; p = 0.026)  | 0.788                   | -1.22%                     | +1.61%                       |
| Frequency | 2006.1     | -0.010 (CI = +/-0.011; p = 0.059) | -0.073 (CI = +/-0.048; p = 0.005) | 0.016 (CI = +/-0.005; p = 0.000)  | 0.025 (CI = +/-0.026; p = 0.052)  | 0.781                   | -1.04%                     | +1.51%                       |
| Frequency | 2006.2     | -0.007 (CI = +/-0.011; p = 0.228) | -0.080 (CI = +/-0.048; p = 0.002) | 0.016 (CI = +/-0.004; p = 0.000)  | 0.020 (CI = +/-0.026; p = 0.124)  | 0.793                   | -0.68%                     | +1.31%                       |
| Frequency | 2007.1     | -0.002 (CI = +/-0.012; p = 0.722) | -0.071 (CI = +/-0.046; p = 0.004) | 0.016 (CI = +/-0.004; p = 0.000)  | 0.013 (CI = +/-0.025; p = 0.301)  | 0.807                   | -0.20%                     | +1.09%                       |
| Frequency | 2007.2     | 0.004 (CI = +/-0.012; p = 0.521)  | -0.080 (CI = +/-0.043; p = 0.001) | 0.015 (CI = +/-0.004; p = 0.000)  | 0.005 (CI = +/-0.024; p = 0.702)  | 0.839                   | +0.37%                     | +0.83%                       |
| Frequency | 2008.1     | 0.010 (CI = +/-0.012; p = 0.109)  | -0.072 (CI = +/-0.040; p = 0.001) | 0.015 (CI = +/-0.003; p = 0.000)  | -0.004 (CI = +/-0.023; p = 0.757) | 0.863                   | +0.96%                     | +0.60%                       |
| Frequency | 2008.2     | 0.016 (CI = +/-0.012; p = 0.012)  | -0.080 (CI = +/-0.037; p = 0.000) | 0.015 (CI = +/-0.003; p = 0.000)  | -0.012 (CI = +/-0.022; p = 0.272) | 0.890                   | +1.58%                     | +0.37%                       |
| Frequency | 2009.1     | 0.019 (CI = +/-0.013; p = 0.009)  | -0.077 (CI = +/-0.038; p = 0.000) | 0.015 (CI = +/-0.003; p = 0.000)  | -0.016 (CI = +/-0.024; p = 0.181) | 0.893                   | +1.87%                     | +0.28%                       |
| Frequency | 2009.2     | 0.020 (CI = +/-0.015; p = 0.013)  | -0.079 (CI = +/-0.039; p = 0.000) | 0.015 (CI = +/-0.003; p = 0.000)  | -0.018 (CI = +/-0.026; p = 0.167) | 0.893                   | +2.03%                     | +0.23%                       |
| Frequency | 2010.1     | 0.023 (CI = +/-0.018; p = 0.013)  | -0.075 (CI = +/-0.040; p = 0.001) | 0.015 (CI = +/-0.003; p = 0.000)  | -0.022 (CI = +/-0.028; p = 0.122) | 0.895                   | +2.37%                     | +0.15%                       |
| Frequency | 2010.2     | 0.020 (CI = +/-0.021; p = 0.067)  | -0.072 (CI = +/-0.042; p = 0.002) | 0.015 (CI = +/-0.003; p = 0.000)  | -0.017 (CI = +/-0.032; p = 0.268) | 0.896                   | +1.98%                     | +0.24%                       |
| Frequency | 2011.1     | 0.023 (CI = +/-0.025; p = 0.072)  | -0.070 (CI = +/-0.044; p = 0.003) | 0.015 (CI = +/-0.003; p = 0.000)  | -0.021 (CI = +/-0.036; p = 0.229) | 0.896                   | +2.34%                     | +0.18%                       |
| Frequency | 2011.2     | 0.036 (CI = +/-0.030; p = 0.022)  | -0.077 (CI = +/-0.043; p = 0.002) | 0.015 (CI = +/-0.003; p = 0.000)  | -0.036 (CI = +/-0.040; p = 0.076) | 0.908                   | +3.62%                     | +0.02%                       |
| Frequency | 2012.1     | 0.027 (CI = +/-0.038; p = 0.152)  | -0.081 (CI = +/-0.045; p = 0.002) | 0.015 (CI = +/-0.003; p = 0.000)  | -0.026 (CI = +/-0.048; p = 0.264) | 0.910                   | +2.72%                     | +0.08%                       |
| Frequency | 2012.2     | 0.014 (CI = +/-0.050; p = 0.550)  | -0.077 (CI = +/-0.047; p = 0.003) | 0.015 (CI = +/-0.003; p = 0.000)  | -0.013 (CI = +/-0.060; p = 0.663) | 0.912                   | +1.46%                     | +0.19%                       |
| Frequency | 2013.1     | -0.010 (CI = +/-0.071; p = 0.757) | -0.083 (CI = +/-0.048; p = 0.003) | 0.015 (CI = +/-0.003; p = 0.000)  | 0.014 (CI = +/-0.080; p = 0.717)  | 0.917                   | -1.04%                     | +0.33%                       |
| Frequency | 2013.2     | -0.029 (CI = +/-0.117; p = 0.606) | -0.080 (CI = +/-0.052; p = 0.005) | 0.015 (CI = +/-0.004; p = 0.000)  | 0.033 (CI = +/-0.126; p = 0.584)  | 0.917                   | -2.83%                     | +0.40%                       |
| Frequency | 2014.1     | -0.013 (CI = +/-0.262; p = 0.918) | -0.079 (CI = +/-0.057; p = 0.011) | 0.015 (CI = +/-0.004; p = 0.000)  | 0.016 (CI = +/-0.269; p = 0.897)  | 0.911                   | -1.25%                     | +0.38%                       |
| Frequency | 2014.2     | 0.004 (CI = +/-0.018; p = 0.655)  | -0.079 (CI = +/-0.057; p = 0.011) | 0.015 (CI = +/-0.004; p = 0.000)  | NA (CI = +/-NA; p = NA)           | 0.916                   | +0.38%                     | +0.38%                       |
| Frequency | 2015.1     | 0.006 (CI = +/-0.021; p = 0.578)  | -0.076 (CI = +/-0.062; p = 0.021) | 0.015 (CI = +/-0.004; p = 0.000)  | NA (CI = +/-NA; p = NA)           | 0.912                   | +0.56%                     | +0.56%                       |
| Frequency | 2015.2     | 0.006 (CI = +/-0.025; p = 0.626)  | -0.076 (CI = +/-0.068; p = 0.032) | 0.015 (CI = +/-0.005; p = 0.000)  | NA (CI = +/-NA; p = NA)           | 0.909                   | +0.57%                     | +0.57%                       |
| Frequency | 2016.1     | 0.006 (CI = +/-0.031; p = 0.677)  | -0.076 (CI = +/-0.076; p = 0.050) | 0.015 (CI = +/-0.005; p = 0.000)  | NA (CI = +/-NA; p = NA)           | 0.902                   | +0.59%                     | +0.59%                       |
| Frequency | 2016.2     | -0.002 (CI = +/-0.034; p = 0.896) | -0.065 (CI = +/-0.079; p = 0.094) | 0.015 (CI = +/-0.005; p = 0.000)  | NA (CI = +/-NA; p = NA)           | 0.913                   | -0.20%                     | -0.20%                       |
| Frequency | 2017.1     | -0.003 (CI = +/-0.043; p = 0.882) | -0.066 (CI = +/-0.091; p = 0.129) | 0.015 (CI = +/-0.006; p = 0.001)  | NA (CI = +/-NA; p = NA)           | 0.903                   | -0.28%                     | -0.28%                       |

**Accident Benefits Total**

Coverage = AB Total

End Trend Period = 2022.1

Excluded Points = NA

Parameters Included: time, seasonality, mobility

|           |            |                                   |                                   |                                   |                         | Implied Trend |
|-----------|------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|---------------|
| Fit       | Start Date | Time                              | Seasonality                       | Mobility                          | Adjusted R <sup>2</sup> | Rate          |
| Loss Cost | 2005.2     | 0.049 (CI = +/-0.010; p = 0.000)  | -0.186 (CI = +/-0.083; p = 0.000) | 0.001 (CI = +/-0.006; p = 0.836)  | 0.821                   | +5.03%        |
| Loss Cost | 2006.1     | 0.053 (CI = +/-0.010; p = 0.000)  | -0.169 (CI = +/-0.078; p = 0.000) | 0.002 (CI = +/-0.006; p = 0.571)  | 0.851                   | +5.43%        |
| Loss Cost | 2006.2     | 0.054 (CI = +/-0.011; p = 0.000)  | -0.175 (CI = +/-0.080; p = 0.000) | 0.002 (CI = +/-0.006; p = 0.513)  | 0.843                   | +5.57%        |
| Loss Cost | 2007.1     | 0.056 (CI = +/-0.011; p = 0.000)  | -0.167 (CI = +/-0.081; p = 0.000) | 0.002 (CI = +/-0.006; p = 0.423)  | 0.845                   | +5.76%        |
| Loss Cost | 2007.2     | 0.058 (CI = +/-0.012; p = 0.000)  | -0.174 (CI = +/-0.083; p = 0.000) | 0.003 (CI = +/-0.006; p = 0.360)  | 0.839                   | +5.96%        |
| Loss Cost | 2008.1     | 0.061 (CI = +/-0.012; p = 0.000)  | -0.162 (CI = +/-0.082; p = 0.000) | 0.003 (CI = +/-0.006; p = 0.238)  | 0.852                   | +6.31%        |
| Loss Cost | 2008.2     | 0.063 (CI = +/-0.013; p = 0.000)  | -0.169 (CI = +/-0.083; p = 0.000) | 0.004 (CI = +/-0.006; p = 0.195)  | 0.846                   | +6.53%        |
| Loss Cost | 2009.1     | 0.068 (CI = +/-0.013; p = 0.000)  | -0.154 (CI = +/-0.080; p = 0.001) | 0.005 (CI = +/-0.006; p = 0.096)  | 0.866                   | +7.01%        |
| Loss Cost | 2009.2     | 0.072 (CI = +/-0.013; p = 0.000)  | -0.166 (CI = +/-0.078; p = 0.000) | 0.005 (CI = +/-0.006; p = 0.052)  | 0.875                   | +7.44%        |
| Loss Cost | 2010.1     | 0.076 (CI = +/-0.014; p = 0.000)  | -0.152 (CI = +/-0.076; p = 0.000) | 0.006 (CI = +/-0.005; p = 0.022)  | 0.890                   | +7.92%        |
| Loss Cost | 2010.2     | 0.079 (CI = +/-0.015; p = 0.000)  | -0.159 (CI = +/-0.078; p = 0.000) | 0.007 (CI = +/-0.005; p = 0.018)  | 0.882                   | +8.19%        |
| Loss Cost | 2011.1     | 0.084 (CI = +/-0.015; p = 0.000)  | -0.145 (CI = +/-0.076; p = 0.001) | 0.008 (CI = +/-0.005; p = 0.007)  | 0.896                   | +8.75%        |
| Loss Cost | 2011.2     | 0.086 (CI = +/-0.017; p = 0.000)  | -0.151 (CI = +/-0.078; p = 0.001) | 0.008 (CI = +/-0.005; p = 0.006)  | 0.884                   | +8.99%        |
| Loss Cost | 2012.1     | 0.089 (CI = +/-0.018; p = 0.000)  | -0.144 (CI = +/-0.082; p = 0.002) | 0.008 (CI = +/-0.006; p = 0.006)  | 0.879                   | +9.27%        |
| Loss Cost | 2012.2     | 0.092 (CI = +/-0.020; p = 0.000)  | -0.153 (CI = +/-0.084; p = 0.001) | 0.009 (CI = +/-0.006; p = 0.005)  | 0.869                   | +9.68%        |
| Loss Cost | 2013.1     | 0.101 (CI = +/-0.020; p = 0.000)  | -0.132 (CI = +/-0.077; p = 0.002) | 0.010 (CI = +/-0.005; p = 0.001)  | 0.901                   | +10.67%       |
| Loss Cost | 2013.2     | 0.104 (CI = +/-0.022; p = 0.000)  | -0.137 (CI = +/-0.081; p = 0.003) | 0.010 (CI = +/-0.005; p = 0.001)  | 0.882                   | +10.92%       |
| Loss Cost | 2014.1     | 0.109 (CI = +/-0.025; p = 0.000)  | -0.127 (CI = +/-0.084; p = 0.006) | 0.011 (CI = +/-0.006; p = 0.001)  | 0.881                   | +11.50%       |
| Loss Cost | 2014.2     | 0.104 (CI = +/-0.028; p = 0.000)  | -0.117 (CI = +/-0.087; p = 0.013) | 0.011 (CI = +/-0.006; p = 0.002)  | 0.841                   | +10.91%       |
| Loss Cost | 2015.1     | 0.102 (CI = +/-0.033; p = 0.000)  | -0.121 (CI = +/-0.095; p = 0.017) | 0.010 (CI = +/-0.006; p = 0.004)  | 0.814                   | +10.69%       |
| Loss Cost | 2015.2     | 0.101 (CI = +/-0.039; p = 0.000)  | -0.120 (CI = +/-0.104; p = 0.028) | 0.010 (CI = +/-0.007; p = 0.008)  | 0.749                   | +10.61%       |
| Loss Cost | 2016.1     | 0.110 (CI = +/-0.045; p = 0.000)  | -0.106 (CI = +/-0.111; p = 0.058) | 0.011 (CI = +/-0.007; p = 0.007)  | 0.756                   | +11.60%       |
| Loss Cost | 2016.2     | 0.096 (CI = +/-0.049; p = 0.002)  | -0.088 (CI = +/-0.112; p = 0.107) | 0.010 (CI = +/-0.007; p = 0.011)  | 0.657                   | +10.11%       |
| Loss Cost | 2017.1     | 0.098 (CI = +/-0.061; p = 0.007)  | -0.086 (CI = +/-0.128; p = 0.156) | 0.010 (CI = +/-0.008; p = 0.020)  | 0.617                   | +10.25%       |
|           |            |                                   |                                   |                                   |                         |               |
| Severity  | 2005.2     | 0.052 (CI = +/-0.009; p = 0.000)  | -0.106 (CI = +/-0.071; p = 0.005) | -0.012 (CI = +/-0.005; p = 0.000) | 0.914                   | +5.35%        |
| Severity  | 2006.1     | 0.054 (CI = +/-0.009; p = 0.000)  | -0.096 (CI = +/-0.070; p = 0.009) | -0.012 (CI = +/-0.005; p = 0.000) | 0.920                   | +5.60%        |
| Severity  | 2006.2     | 0.054 (CI = +/-0.010; p = 0.000)  | -0.093 (CI = +/-0.072; p = 0.014) | -0.012 (CI = +/-0.005; p = 0.000) | 0.913                   | +5.52%        |
| Severity  | 2007.1     | 0.053 (CI = +/-0.010; p = 0.000)  | -0.096 (CI = +/-0.075; p = 0.014) | -0.012 (CI = +/-0.005; p = 0.000) | 0.908                   | +5.45%        |
| Severity  | 2007.2     | 0.052 (CI = +/-0.011; p = 0.000)  | -0.093 (CI = +/-0.078; p = 0.020) | -0.012 (CI = +/-0.006; p = 0.000) | 0.899                   | +5.37%        |
| Severity  | 2008.1     | 0.053 (CI = +/-0.012; p = 0.000)  | -0.090 (CI = +/-0.080; p = 0.030) | -0.012 (CI = +/-0.006; p = 0.000) | 0.896                   | +5.46%        |
| Severity  | 2008.2     | 0.053 (CI = +/-0.013; p = 0.000)  | -0.090 (CI = +/-0.084; p = 0.036) | -0.012 (CI = +/-0.006; p = 0.000) | 0.887                   | +5.47%        |
| Severity  | 2009.1     | 0.057 (CI = +/-0.014; p = 0.000)  | -0.077 (CI = +/-0.082; p = 0.066) | -0.011 (CI = +/-0.006; p = 0.001) | 0.897                   | +5.88%        |
| Severity  | 2009.2     | 0.061 (CI = +/-0.014; p = 0.000)  | -0.089 (CI = +/-0.080; p = 0.031) | -0.011 (CI = +/-0.006; p = 0.001) | 0.906                   | +6.32%        |
| Severity  | 2010.1     | 0.065 (CI = +/-0.014; p = 0.000)  | -0.076 (CI = +/-0.079; p = 0.058) | -0.010 (CI = +/-0.006; p = 0.001) | 0.915                   | +6.77%        |
| Severity  | 2010.2     | 0.070 (CI = +/-0.015; p = 0.000)  | -0.088 (CI = +/-0.077; p = 0.027) | -0.009 (CI = +/-0.005; p = 0.002) | 0.922                   | +7.23%        |
| Severity  | 2011.1     | 0.075 (CI = +/-0.015; p = 0.000)  | -0.074 (CI = +/-0.075; p = 0.053) | -0.008 (CI = +/-0.005; p = 0.004) | 0.931                   | +7.78%        |
| Severity  | 2011.2     | 0.076 (CI = +/-0.017; p = 0.000)  | -0.077 (CI = +/-0.079; p = 0.055) | -0.008 (CI = +/-0.005; p = 0.006) | 0.924                   | +7.89%        |
| Severity  | 2012.1     | 0.082 (CI = +/-0.017; p = 0.000)  | -0.062 (CI = +/-0.077; p = 0.105) | -0.007 (CI = +/-0.005; p = 0.012) | 0.933                   | +8.51%        |
| Severity  | 2012.2     | 0.088 (CI = +/-0.017; p = 0.000)  | -0.077 (CI = +/-0.072; p = 0.039) | -0.006 (CI = +/-0.005; p = 0.017) | 0.942                   | +9.21%        |
| Severity  | 2013.1     | 0.100 (CI = +/-0.012; p = 0.000)  | -0.051 (CI = +/-0.049; p = 0.042) | -0.005 (CI = +/-0.003; p = 0.011) | 0.977                   | +10.50%       |
| Severity  | 2013.2     | 0.102 (CI = +/-0.014; p = 0.000)  | -0.055 (CI = +/-0.050; p = 0.035) | -0.004 (CI = +/-0.003; p = 0.018) | 0.974                   | +10.75%       |
| Severity  | 2014.1     | 0.106 (CI = +/-0.015; p = 0.000)  | -0.048 (CI = +/-0.052; p = 0.066) | -0.004 (CI = +/-0.004; p = 0.036) | 0.974                   | +11.13%       |
| Severity  | 2014.2     | 0.100 (CI = +/-0.016; p = 0.000)  | -0.038 (CI = +/-0.049; p = 0.116) | -0.004 (CI = +/-0.003; p = 0.014) | 0.974                   | +10.49%       |
| Severity  | 2015.1     | 0.096 (CI = +/-0.018; p = 0.000)  | -0.045 (CI = +/-0.052; p = 0.084) | -0.005 (CI = +/-0.003; p = 0.011) | 0.971                   | +10.08%       |
| Severity  | 2015.2     | 0.095 (CI = +/-0.021; p = 0.000)  | -0.043 (CI = +/-0.057; p = 0.118) | -0.005 (CI = +/-0.004; p = 0.016) | 0.964                   | +9.98%        |
| Severity  | 2016.1     | 0.104 (CI = +/-0.021; p = 0.000)  | -0.031 (CI = +/-0.053; p = 0.226) | -0.004 (CI = +/-0.004; p = 0.028) | 0.971                   | +10.95%       |
| Severity  | 2016.2     | 0.098 (CI = +/-0.024; p = 0.000)  | -0.023 (CI = +/-0.055; p = 0.367) | -0.004 (CI = +/-0.004; p = 0.021) | 0.967                   | +10.33%       |
| Severity  | 2017.1     | 0.100 (CI = +/-0.030; p = 0.000)  | -0.020 (CI = +/-0.063; p = 0.474) | -0.004 (CI = +/-0.004; p = 0.040) | 0.959                   | +10.56%       |
|           |            |                                   |                                   |                                   |                         |               |
| Frequency | 2005.2     | -0.003 (CI = +/-0.006; p = 0.327) | -0.079 (CI = +/-0.051; p = 0.003) | 0.013 (CI = +/-0.004; p = 0.000)  | 0.756                   | -0.31%        |
| Frequency | 2006.1     | -0.002 (CI = +/-0.007; p = 0.612) | -0.073 (CI = +/-0.051; p = 0.006) | 0.013 (CI = +/-0.004; p = 0.000)  | 0.757                   | -0.16%        |
| Frequency | 2006.2     | 0.000 (CI = +/-0.007; p = 0.892)  | -0.082 (CI = +/-0.049; p = 0.002) | 0.014 (CI = +/-0.004; p = 0.000)  | 0.782                   | +0.04%        |
| Frequency | 2007.1     | 0.003 (CI = +/-0.006; p = 0.345)  | -0.071 (CI = +/-0.046; p = 0.004) | 0.015 (CI = +/-0.003; p = 0.000)  | 0.806                   | +0.30%        |
| Frequency | 2007.2     | 0.006 (CI = +/-0.006; p = 0.069)  | -0.081 (CI = +/-0.042; p = 0.000) | 0.015 (CI = +/-0.003; p = 0.000)  | 0.844                   | +0.56%        |
| Frequency | 2008.1     | 0.008 (CI = +/-0.006; p = 0.010)  | -0.072 (CI = +/-0.039; p = 0.001) | 0.016 (CI = +/-0.003; p = 0.000)  | 0.868                   | +0.80%        |
| Frequency | 2008.2     | 0.010 (CI = +/-0.006; p = 0.002)  | -0.079 (CI = +/-0.037; p = 0.000) | 0.016 (CI = +/-0.003; p = 0.000)  | 0.889                   | +1.01%        |
| Frequency | 2009.1     | 0.011 (CI = +/-0.006; p = 0.002)  | -0.077 (CI = +/-0.038; p = 0.000) | 0.016 (CI = +/-0.003; p = 0.000)  | 0.889                   | +1.07%        |
| Frequency | 2009.2     | 0.011 (CI = +/-0.007; p = 0.004)  | -0.077 (CI = +/-0.040; p = 0.001) | 0.016 (CI = +/-0.003; p = 0.000)  | 0.888                   | +1.06%        |
| Frequency | 2010.1     | 0.011 (CI = +/-0.008; p = 0.007)  | -0.076 (CI = +/-0.042; p = 0.001) | 0.016 (CI = +/-0.003; p = 0.000)  | 0.887                   | +1.08%        |
| Frequency | 2010.2     | 0.009 (CI = +/-0.008; p = 0.030)  | -0.071 (CI = +/-0.042; p = 0.002) | 0.016 (CI = +/-0.003; p = 0.000)  | 0.894                   | +0.90%        |
| Frequency | 2011.1     | 0.009 (CI = +/-0.009; p = 0.048)  | -0.071 (CI = +/-0.044; p = 0.003) | 0.016 (CI = +/-0.003; p = 0.000)  | 0.893                   | +0.90%        |
| Frequency | 2011.2     | 0.010 (CI = +/-0.010; p = 0.043)  | -0.074 (CI = +/-0.046; p = 0.003) | 0.016 (CI = +/-0.003; p = 0.000)  | 0.894                   | +1.02%        |
| Frequency | 2012.1     | 0.007 (CI = +/-0.010; p = 0.169)  | -0.082 (CI = +/-0.045; p = 0.001) | 0.015 (CI = +/-0.003; p = 0.000)  | 0.908                   | +0.70%        |
| Frequency | 2012.2     | 0.004 (CI = +/-0.011; p = 0.421)  | -0.076 (CI = +/-0.045; p = 0.003) | 0.015 (CI = +/-0.003; p = 0.000)  | 0.917                   | +0.42%        |
| Frequency | 2013.1     | 0.002 (CI = +/-0.012; p = 0.780)  | -0.082 (CI = +/-0.047; p = 0.002) | 0.015 (CI = +/-0.003; p = 0.000)  | 0.922                   | +0.16%        |
| Frequency | 2013.2     | 0.002 (CI = +/-0.014; p = 0.811)  | -0.082 (CI = +/-0.050; p = 0.003) | 0.015 (CI = +/-0.003; p = 0.000)  | 0.921                   | +0.15%        |
| Frequency | 2014.1     | 0.003 (CI = +/-0.016; p = 0.652)  | -0.078 (CI = +/-0.053; p = 0.007) | 0.015 (CI = +/-0.004; p = 0.000)  | 0.918                   | +0.33%        |
| Frequency | 2014.2     | 0.004 (CI = +/-0.018; p = 0.655)  | -0.079 (CI = +/-0.057; p = 0.011) | 0.015 (CI = +/-0.004; p = 0.000)  | 0.916                   | +0.38%        |
| Frequency | 2015.1     | 0.006 (CI = +/-0.021; p = 0.578)  | -0.076 (CI = +/-0.062; p = 0.021) | 0.015 (CI = +/-0.004; p = 0.000)  | 0.912                   | +0.56%        |
| Frequency | 2015.2     | 0.006 (CI = +/-0.025; p = 0.626)  | -0.076 (CI = +/-0.068; p = 0.032) | 0.015 (CI = +/-0.005; p = 0.000)  | 0.909                   | +0.57%        |
| Frequency | 2016.1     | 0.006 (CI = +/-0.031; p = 0.677)  | -0.076 (CI = +/-0.076; p = 0.050) | 0.015 (CI = +/-0.005; p = 0.000)  | 0.902                   | +0.59%        |
| Frequency | 2016.2     | -0.002 (CI = +/-0.034; p = 0.896) | -0.065 (CI = +/-0.079; p = 0.094) | 0.015 (CI = +/-0.005; p = 0.000)  | 0.913                   | -0.20%        |
| Frequency | 2017.1     | -0.003 (CI = +/-0.043; p = 0.882) | -0.066 (CI = +/-0.091; p = 0.129) | 0.015 (CI = +/-0.006; p = 0.001)  | 0.903                   | -0.28%        |

## Collision

Coverage = CL

End Trend Period = 2022.1

Excluded Points = NA

Parameters Included: time, seasonality, mobility

| Fit       | Start Date | Time                              | Seasonality                       | Mobility                         | Adjusted R <sup>2</sup> | Implied Trend |
|-----------|------------|-----------------------------------|-----------------------------------|----------------------------------|-------------------------|---------------|
|           |            |                                   |                                   |                                  |                         | Rate          |
| Loss Cost | 2005.2     | 0.017 (CI = +/-0.009; p = 0.001)  | -0.087 (CI = +/-0.072; p = 0.019) | 0.017 (CI = +/-0.005; p = 0.000) | 0.582                   | +1.67%        |
| Loss Cost | 2006.1     | 0.014 (CI = +/-0.009; p = 0.004)  | -0.099 (CI = +/-0.070; p = 0.007) | 0.016 (CI = +/-0.005; p = 0.000) | 0.607                   | +1.39%        |
| Loss Cost | 2006.2     | 0.012 (CI = +/-0.009; p = 0.014)  | -0.091 (CI = +/-0.070; p = 0.013) | 0.015 (CI = +/-0.005; p = 0.000) | 0.602                   | +1.21%        |
| Loss Cost | 2007.1     | 0.012 (CI = +/-0.010; p = 0.018)  | -0.089 (CI = +/-0.073; p = 0.018) | 0.016 (CI = +/-0.005; p = 0.000) | 0.601                   | +1.25%        |
| Loss Cost | 2007.2     | 0.014 (CI = +/-0.011; p = 0.010)  | -0.096 (CI = +/-0.074; p = 0.012) | 0.016 (CI = +/-0.005; p = 0.000) | 0.618                   | +1.44%        |
| Loss Cost | 2008.1     | 0.016 (CI = +/-0.011; p = 0.007)  | -0.090 (CI = +/-0.075; p = 0.021) | 0.016 (CI = +/-0.005; p = 0.000) | 0.626                   | +1.62%        |
| Loss Cost | 2008.2     | 0.019 (CI = +/-0.012; p = 0.002)  | -0.100 (CI = +/-0.074; p = 0.010) | 0.017 (CI = +/-0.005; p = 0.000) | 0.660                   | +1.93%        |
| Loss Cost | 2009.1     | 0.021 (CI = +/-0.013; p = 0.002)  | -0.093 (CI = +/-0.076; p = 0.019) | 0.017 (CI = +/-0.005; p = 0.000) | 0.671                   | +2.15%        |
| Loss Cost | 2009.2     | 0.023 (CI = +/-0.013; p = 0.001)  | -0.100 (CI = +/-0.077; p = 0.014) | 0.018 (CI = +/-0.005; p = 0.000) | 0.683                   | +2.38%        |
| Loss Cost | 2010.1     | 0.026 (CI = +/-0.015; p = 0.001)  | -0.093 (CI = +/-0.080; p = 0.025) | 0.018 (CI = +/-0.006; p = 0.000) | 0.689                   | +2.59%        |
| Loss Cost | 2010.2     | 0.023 (CI = +/-0.016; p = 0.006)  | -0.086 (CI = +/-0.082; p = 0.041) | 0.018 (CI = +/-0.006; p = 0.000) | 0.682                   | +2.33%        |
| Loss Cost | 2011.1     | 0.022 (CI = +/-0.017; p = 0.016)  | -0.089 (CI = +/-0.086; p = 0.043) | 0.018 (CI = +/-0.006; p = 0.000) | 0.682                   | +2.21%        |
| Loss Cost | 2011.2     | 0.025 (CI = +/-0.019; p = 0.011)  | -0.098 (CI = +/-0.088; p = 0.031) | 0.018 (CI = +/-0.006; p = 0.000) | 0.698                   | +2.56%        |
| Loss Cost | 2012.1     | 0.020 (CI = +/-0.020; p = 0.046)  | -0.110 (CI = +/-0.089; p = 0.018) | 0.017 (CI = +/-0.006; p = 0.000) | 0.718                   | +2.06%        |
| Loss Cost | 2012.2     | 0.016 (CI = +/-0.022; p = 0.136)  | -0.101 (CI = +/-0.091; p = 0.032) | 0.017 (CI = +/-0.006; p = 0.000) | 0.725                   | +1.62%        |
| Loss Cost | 2013.1     | 0.015 (CI = +/-0.025; p = 0.227)  | -0.104 (CI = +/-0.097; p = 0.037) | 0.016 (CI = +/-0.007; p = 0.000) | 0.722                   | +1.48%        |
| Loss Cost | 2013.2     | 0.012 (CI = +/-0.028; p = 0.389)  | -0.098 (CI = +/-0.102; p = 0.060) | 0.016 (CI = +/-0.007; p = 0.000) | 0.724                   | +1.17%        |
| Loss Cost | 2014.1     | 0.012 (CI = +/-0.032; p = 0.446)  | -0.097 (CI = +/-0.111; p = 0.079) | 0.016 (CI = +/-0.007; p = 0.000) | 0.715                   | +1.19%        |
| Loss Cost | 2014.2     | 0.010 (CI = +/-0.038; p = 0.556)  | -0.095 (CI = +/-0.119; p = 0.108) | 0.016 (CI = +/-0.008; p = 0.001) | 0.711                   | +1.05%        |
| Loss Cost | 2015.1     | 0.009 (CI = +/-0.045; p = 0.666)  | -0.098 (CI = +/-0.130; p = 0.128) | 0.016 (CI = +/-0.009; p = 0.002) | 0.701                   | +0.90%        |
| Loss Cost | 2015.2     | 0.009 (CI = +/-0.053; p = 0.710)  | -0.098 (CI = +/-0.143; p = 0.159) | 0.016 (CI = +/-0.009; p = 0.004) | 0.693                   | +0.91%        |
| Loss Cost | 2016.1     | 0.000 (CI = +/-0.063; p = 0.988)  | -0.110 (CI = +/-0.156; p = 0.144) | 0.015 (CI = +/-0.010; p = 0.009) | 0.696                   | +0.04%        |
| Loss Cost | 2016.2     | -0.018 (CI = +/-0.069; p = 0.560) | -0.085 (CI = +/-0.158; p = 0.250) | 0.014 (CI = +/-0.010; p = 0.014) | 0.745                   | -1.79%        |
| Loss Cost | 2017.1     | -0.032 (CI = +/-0.082; p = 0.393) | -0.102 (CI = +/-0.173; p = 0.205) | 0.013 (CI = +/-0.011; p = 0.028) | 0.747                   | -3.12%        |
| Severity  | 2005.2     | 0.043 (CI = +/-0.006; p = 0.000)  | -0.038 (CI = +/-0.047; p = 0.112) | 0.002 (CI = +/-0.003; p = 0.334) | 0.904                   | +4.39%        |
| Severity  | 2006.1     | 0.041 (CI = +/-0.006; p = 0.000)  | -0.046 (CI = +/-0.045; p = 0.048) | 0.001 (CI = +/-0.003; p = 0.474) | 0.903                   | +4.19%        |
| Severity  | 2006.2     | 0.039 (CI = +/-0.006; p = 0.000)  | -0.037 (CI = +/-0.042; p = 0.084) | 0.001 (CI = +/-0.003; p = 0.629) | 0.903                   | +3.97%        |
| Severity  | 2007.1     | 0.037 (CI = +/-0.006; p = 0.000)  | -0.045 (CI = +/-0.041; p = 0.032) | 0.000 (CI = +/-0.003; p = 0.854) | 0.903                   | +3.77%        |
| Severity  | 2007.2     | 0.036 (CI = +/-0.006; p = 0.000)  | -0.040 (CI = +/-0.040; p = 0.054) | 0.000 (CI = +/-0.003; p = 0.997) | 0.895                   | +3.63%        |
| Severity  | 2008.1     | 0.036 (CI = +/-0.006; p = 0.000)  | -0.040 (CI = +/-0.042; p = 0.063) | 0.000 (CI = +/-0.003; p = 0.997) | 0.886                   | +3.63%        |
| Severity  | 2008.2     | 0.037 (CI = +/-0.007; p = 0.000)  | -0.044 (CI = +/-0.042; p = 0.041) | 0.000 (CI = +/-0.003; p = 0.868) | 0.885                   | +3.77%        |
| Severity  | 2009.1     | 0.040 (CI = +/-0.007; p = 0.000)  | -0.035 (CI = +/-0.040; p = 0.079) | 0.001 (CI = +/-0.003; p = 0.558) | 0.905                   | +4.04%        |
| Severity  | 2009.2     | 0.041 (CI = +/-0.007; p = 0.000)  | -0.041 (CI = +/-0.039; p = 0.042) | 0.001 (CI = +/-0.003; p = 0.414) | 0.909                   | +4.23%        |
| Severity  | 2010.1     | 0.042 (CI = +/-0.007; p = 0.000)  | -0.038 (CI = +/-0.041; p = 0.066) | 0.001 (CI = +/-0.003; p = 0.355) | 0.904                   | +4.32%        |
| Severity  | 2010.2     | 0.042 (CI = +/-0.008; p = 0.000)  | -0.037 (CI = +/-0.042; p = 0.085) | 0.001 (CI = +/-0.003; p = 0.392) | 0.888                   | +4.29%        |
| Severity  | 2011.1     | 0.041 (CI = +/-0.009; p = 0.000)  | -0.040 (CI = +/-0.044; p = 0.076) | 0.001 (CI = +/-0.003; p = 0.481) | 0.874                   | +4.18%        |
| Severity  | 2011.2     | 0.039 (CI = +/-0.010; p = 0.000)  | -0.035 (CI = +/-0.045; p = 0.119) | 0.001 (CI = +/-0.003; p = 0.590) | 0.852                   | +4.01%        |
| Severity  | 2012.1     | 0.039 (CI = +/-0.011; p = 0.000)  | -0.035 (CI = +/-0.048; p = 0.145) | 0.001 (CI = +/-0.003; p = 0.593) | 0.835                   | +4.03%        |
| Severity  | 2012.2     | 0.038 (CI = +/-0.012; p = 0.000)  | -0.033 (CI = +/-0.051; p = 0.192) | 0.001 (CI = +/-0.003; p = 0.664) | 0.802                   | +3.92%        |
| Severity  | 2013.1     | 0.038 (CI = +/-0.014; p = 0.000)  | -0.034 (CI = +/-0.054; p = 0.205) | 0.001 (CI = +/-0.004; p = 0.712) | 0.774                   | +3.87%        |
| Severity  | 2013.2     | 0.037 (CI = +/-0.016; p = 0.000)  | -0.032 (CI = +/-0.058; p = 0.254) | 0.001 (CI = +/-0.004; p = 0.766) | 0.726                   | +3.78%        |
| Severity  | 2014.1     | 0.037 (CI = +/-0.018; p = 0.001)  | -0.033 (CI = +/-0.062; p = 0.272) | 0.000 (CI = +/-0.004; p = 0.808) | 0.687                   | +3.72%        |
| Severity  | 2014.2     | 0.036 (CI = +/-0.021; p = 0.003)  | -0.032 (CI = +/-0.067; p = 0.320) | 0.000 (CI = +/-0.004; p = 0.842) | 0.619                   | +3.66%        |
| Severity  | 2015.1     | 0.039 (CI = +/-0.025; p = 0.005)  | -0.026 (CI = +/-0.072; p = 0.437) | 0.001 (CI = +/-0.005; p = 0.730) | 0.604                   | +3.99%        |
| Severity  | 2015.2     | 0.042 (CI = +/-0.029; p = 0.008)  | -0.031 (CI = +/-0.078; p = 0.389) | 0.001 (CI = +/-0.005; p = 0.661) | 0.566                   | +4.33%        |
| Severity  | 2016.1     | 0.049 (CI = +/-0.033; p = 0.009)  | -0.022 (CI = +/-0.083; p = 0.564) | 0.002 (CI = +/-0.005; p = 0.515) | 0.575                   | +5.00%        |
| Severity  | 2016.2     | 0.053 (CI = +/-0.040; p = 0.016)  | -0.027 (CI = +/-0.092; p = 0.511) | 0.002 (CI = +/-0.006; p = 0.486) | 0.517                   | +5.41%        |
| Severity  | 2017.1     | 0.063 (CI = +/-0.046; p = 0.015)  | -0.014 (CI = +/-0.098; p = 0.748) | 0.003 (CI = +/-0.006; p = 0.353) | 0.557                   | +6.52%        |
| Frequency | 2005.2     | -0.026 (CI = +/-0.010; p = 0.000) | -0.049 (CI = +/-0.077; p = 0.201) | 0.015 (CI = +/-0.006; p = 0.000) | 0.813                   | -2.61%        |
| Frequency | 2006.1     | -0.027 (CI = +/-0.010; p = 0.000) | -0.053 (CI = +/-0.079; p = 0.184) | 0.015 (CI = +/-0.006; p = 0.000) | 0.809                   | -2.69%        |
| Frequency | 2006.2     | -0.027 (CI = +/-0.011; p = 0.000) | -0.054 (CI = +/-0.082; p = 0.187) | 0.015 (CI = +/-0.006; p = 0.000) | 0.802                   | -2.66%        |
| Frequency | 2007.1     | -0.025 (CI = +/-0.012; p = 0.000) | -0.045 (CI = +/-0.083; p = 0.279) | 0.015 (CI = +/-0.006; p = 0.000) | 0.794                   | -2.42%        |
| Frequency | 2007.2     | -0.021 (CI = +/-0.012; p = 0.001) | -0.057 (CI = +/-0.081; p = 0.162) | 0.016 (CI = +/-0.006; p = 0.000) | 0.798                   | -2.11%        |
| Frequency | 2008.1     | -0.020 (CI = +/-0.013; p = 0.004) | -0.050 (CI = +/-0.083; p = 0.227) | 0.016 (CI = +/-0.006; p = 0.000) | 0.789                   | -1.93%        |
| Frequency | 2008.2     | -0.018 (CI = +/-0.013; p = 0.011) | -0.056 (CI = +/-0.085; p = 0.189) | 0.017 (CI = +/-0.006; p = 0.000) | 0.784                   | -1.77%        |
| Frequency | 2009.1     | -0.018 (CI = +/-0.015; p = 0.017) | -0.057 (CI = +/-0.089; p = 0.194) | 0.017 (CI = +/-0.006; p = 0.000) | 0.777                   | -1.81%        |
| Frequency | 2009.2     | -0.018 (CI = +/-0.016; p = 0.030) | -0.059 (CI = +/-0.093; p = 0.202) | 0.017 (CI = +/-0.007; p = 0.000) | 0.771                   | -1.77%        |
| Frequency | 2010.1     | -0.017 (CI = +/-0.018; p = 0.060) | -0.055 (CI = +/-0.097; p = 0.249) | 0.017 (CI = +/-0.007; p = 0.000) | 0.760                   | -1.67%        |
| Frequency | 2010.2     | -0.019 (CI = +/-0.019; p = 0.052) | -0.049 (CI = +/-0.100; p = 0.319) | 0.016 (CI = +/-0.007; p = 0.000) | 0.763                   | -1.88%        |
| Frequency | 2011.1     | -0.019 (CI = +/-0.021; p = 0.075) | -0.050 (CI = +/-0.106; p = 0.339) | 0.016 (CI = +/-0.007; p = 0.000) | 0.753                   | -1.90%        |
| Frequency | 2011.2     | -0.014 (CI = +/-0.023; p = 0.212) | -0.063 (CI = +/-0.107; p = 0.232) | 0.017 (CI = +/-0.007; p = 0.000) | 0.754                   | -1.39%        |
| Frequency | 2012.1     | -0.019 (CI = +/-0.025; p = 0.121) | -0.076 (CI = +/-0.109; p = 0.163) | 0.016 (CI = +/-0.008; p = 0.000) | 0.768                   | -1.89%        |
| Frequency | 2012.2     | -0.022 (CI = +/-0.027; p = 0.102) | -0.068 (CI = +/-0.114; p = 0.224) | 0.016 (CI = +/-0.008; p = 0.001) | 0.770                   | -2.21%        |
| Frequency | 2013.1     | -0.023 (CI = +/-0.031; p = 0.132) | -0.070 (CI = +/-0.122; p = 0.238) | 0.016 (CI = +/-0.008; p = 0.001) | 0.759                   | -2.30%        |
| Frequency | 2013.2     | -0.025 (CI = +/-0.035; p = 0.145) | -0.066 (CI = +/-0.130; p = 0.294) | 0.016 (CI = +/-0.009; p = 0.002) | 0.754                   | -2.52%        |
| Frequency | 2014.1     | -0.025 (CI = +/-0.041; p = 0.217) | -0.064 (CI = +/-0.140; p = 0.338) | 0.016 (CI = +/-0.009; p = 0.003) | 0.735                   | -2.44%        |
| Frequency | 2014.2     | -0.025 (CI = +/-0.048; p = 0.267) | -0.063 (CI = +/-0.151; p = 0.380) | 0.016 (CI = +/-0.010; p = 0.006) | 0.724                   | -2.51%        |
| Frequency | 2015.1     | -0.030 (CI = +/-0.056; p = 0.264) | -0.071 (CI = +/-0.164; p = 0.362) | 0.015 (CI = +/-0.011; p = 0.012) | 0.712                   | -2.97%        |
| Frequency | 2015.2     | -0.033 (CI = +/-0.066; p = 0.290) | -0.066 (CI = +/-0.180; p = 0.431) | 0.015 (CI = +/-0.012; p = 0.020) | 0.700                   | -3.28%        |
| Frequency | 2016.1     | -0.048 (CI = +/-0.077; p = 0.191) | -0.088 (CI = +/-0.192; p = 0.324) | 0.013 (CI = +/-0.013; p = 0.040) | 0.711                   | -4.72%        |
| Frequency | 2016.2     | -0.071 (CI = +/-0.085; p = 0.090) | -0.057 (CI = +/-0.194; p = 0.516) | 0.012 (CI = +/-0.013; p = 0.059) | 0.756                   | -6.83%        |
| Frequency | 2017.1     | -0.095 (CI = +/-0.097; p = 0.053) | -0.089 (CI = +/-0.203; p = 0.336) | 0.010 (CI = +/-0.013; p = 0.103) | 0.780                   | -9.05%        |

## Collision

Coverage = CL

End Trend Period = 2022.1

Excluded Points = NA

Parameters Included: time, mobility

| Fit       | Start Date | Time                              | Mobility                         | Implied Trend           |        |
|-----------|------------|-----------------------------------|----------------------------------|-------------------------|--------|
|           |            |                                   |                                  | Adjusted R <sup>2</sup> | Rate   |
| Loss Cost | 2005.2     | 0.017 (CI = +/-0.010; p = 0.001)  | 0.017 (CI = +/-0.006; p = 0.000) | 0.513                   | +1.67% |
| Loss Cost | 2006.1     | 0.015 (CI = +/-0.010; p = 0.006)  | 0.017 (CI = +/-0.006; p = 0.000) | 0.510                   | +1.47% |
| Loss Cost | 2006.2     | 0.012 (CI = +/-0.010; p = 0.024)  | 0.016 (CI = +/-0.006; p = 0.000) | 0.519                   | +1.21% |
| Loss Cost | 2007.1     | 0.013 (CI = +/-0.011; p = 0.020)  | 0.016 (CI = +/-0.006; p = 0.000) | 0.525                   | +1.33% |
| Loss Cost | 2007.2     | 0.014 (CI = +/-0.012; p = 0.019)  | 0.016 (CI = +/-0.006; p = 0.000) | 0.530                   | +1.45% |
| Loss Cost | 2008.1     | 0.017 (CI = +/-0.012; p = 0.009)  | 0.017 (CI = +/-0.006; p = 0.000) | 0.554                   | +1.72% |
| Loss Cost | 2008.2     | 0.019 (CI = +/-0.013; p = 0.006)  | 0.017 (CI = +/-0.006; p = 0.000) | 0.569                   | +1.94% |
| Loss Cost | 2009.1     | 0.022 (CI = +/-0.014; p = 0.003)  | 0.018 (CI = +/-0.006; p = 0.000) | 0.597                   | +2.27% |
| Loss Cost | 2009.2     | 0.024 (CI = +/-0.015; p = 0.004)  | 0.018 (CI = +/-0.006; p = 0.000) | 0.598                   | +2.38% |
| Loss Cost | 2010.1     | 0.027 (CI = +/-0.016; p = 0.002)  | 0.019 (CI = +/-0.006; p = 0.000) | 0.621                   | +2.72% |
| Loss Cost | 2010.2     | 0.023 (CI = +/-0.017; p = 0.010)  | 0.018 (CI = +/-0.006; p = 0.000) | 0.625                   | +2.33% |
| Loss Cost | 2011.1     | 0.023 (CI = +/-0.019; p = 0.017)  | 0.018 (CI = +/-0.006; p = 0.000) | 0.623                   | +2.36% |
| Loss Cost | 2011.2     | 0.025 (CI = +/-0.021; p = 0.019)  | 0.019 (CI = +/-0.007; p = 0.000) | 0.627                   | +2.57% |
| Loss Cost | 2012.1     | 0.023 (CI = +/-0.023; p = 0.052)  | 0.018 (CI = +/-0.007; p = 0.000) | 0.627                   | +2.30% |
| Loss Cost | 2012.2     | 0.016 (CI = +/-0.024; p = 0.180)  | 0.017 (CI = +/-0.007; p = 0.000) | 0.652                   | +1.63% |
| Loss Cost | 2013.1     | 0.017 (CI = +/-0.028; p = 0.202)  | 0.017 (CI = +/-0.007; p = 0.000) | 0.649                   | +1.75% |
| Loss Cost | 2013.2     | 0.012 (CI = +/-0.031; p = 0.431)  | 0.017 (CI = +/-0.008; p = 0.000) | 0.664                   | +1.17% |
| Loss Cost | 2014.1     | 0.015 (CI = +/-0.035; p = 0.372)  | 0.017 (CI = +/-0.008; p = 0.000) | 0.661                   | +1.51% |
| Loss Cost | 2014.2     | 0.010 (CI = +/-0.040; p = 0.584)  | 0.017 (CI = +/-0.008; p = 0.001) | 0.666                   | +1.05% |
| Loss Cost | 2015.1     | 0.013 (CI = +/-0.047; p = 0.555)  | 0.017 (CI = +/-0.009; p = 0.002) | 0.658                   | +1.32% |
| Loss Cost | 2015.2     | 0.009 (CI = +/-0.055; p = 0.729)  | 0.017 (CI = +/-0.010; p = 0.004) | 0.657                   | +0.90% |
| Loss Cost | 2016.1     | 0.006 (CI = +/-0.066; p = 0.835)  | 0.016 (CI = +/-0.011; p = 0.007) | 0.648                   | +0.63% |
| Loss Cost | 2016.2     | -0.018 (CI = +/-0.069; p = 0.561) | 0.015 (CI = +/-0.010; p = 0.011) | 0.730                   | -1.83% |
| Loss Cost | 2017.1     | -0.025 (CI = +/-0.084; p = 0.512) | 0.014 (CI = +/-0.011; p = 0.020) | 0.717                   | -2.47% |
|           |            |                                   |                                  |                         |        |
| Severity  | 2005.2     | 0.043 (CI = +/-0.006; p = 0.000)  | 0.002 (CI = +/-0.004; p = 0.288) | 0.899                   | +4.39% |
| Severity  | 2006.1     | 0.041 (CI = +/-0.006; p = 0.000)  | 0.002 (CI = +/-0.004; p = 0.381) | 0.893                   | +4.23% |
| Severity  | 2006.2     | 0.039 (CI = +/-0.006; p = 0.000)  | 0.001 (CI = +/-0.003; p = 0.549) | 0.896                   | +3.97% |
| Severity  | 2007.1     | 0.037 (CI = +/-0.006; p = 0.000)  | 0.001 (CI = +/-0.003; p = 0.696) | 0.889                   | +3.81% |
| Severity  | 2007.2     | 0.036 (CI = +/-0.006; p = 0.000)  | 0.000 (CI = +/-0.003; p = 0.877) | 0.882                   | +3.63% |
| Severity  | 2008.1     | 0.036 (CI = +/-0.007; p = 0.000)  | 0.000 (CI = +/-0.003; p = 0.839) | 0.873                   | +3.67% |
| Severity  | 2008.2     | 0.037 (CI = +/-0.007; p = 0.000)  | 0.001 (CI = +/-0.003; p = 0.749) | 0.868                   | +3.77% |
| Severity  | 2009.1     | 0.040 (CI = +/-0.007; p = 0.000)  | 0.001 (CI = +/-0.003; p = 0.449) | 0.896                   | +4.08% |
| Severity  | 2009.2     | 0.041 (CI = +/-0.007; p = 0.000)  | 0.001 (CI = +/-0.003; p = 0.355) | 0.894                   | +4.23% |
| Severity  | 2010.1     | 0.043 (CI = +/-0.008; p = 0.000)  | 0.002 (CI = +/-0.003; p = 0.276) | 0.892                   | +4.38% |
| Severity  | 2010.2     | 0.042 (CI = +/-0.008; p = 0.000)  | 0.001 (CI = +/-0.003; p = 0.337) | 0.876                   | +4.29% |
| Severity  | 2011.1     | 0.042 (CI = +/-0.009; p = 0.000)  | 0.001 (CI = +/-0.003; p = 0.375) | 0.859                   | +4.25% |
| Severity  | 2011.2     | 0.039 (CI = +/-0.010; p = 0.000)  | 0.001 (CI = +/-0.003; p = 0.511) | 0.839                   | +4.01% |
| Severity  | 2012.1     | 0.040 (CI = +/-0.011; p = 0.000)  | 0.001 (CI = +/-0.003; p = 0.476) | 0.823                   | +4.10% |
| Severity  | 2012.2     | 0.038 (CI = +/-0.012; p = 0.000)  | 0.001 (CI = +/-0.004; p = 0.585) | 0.792                   | +3.92% |
| Severity  | 2013.1     | 0.039 (CI = +/-0.014; p = 0.000)  | 0.001 (CI = +/-0.004; p = 0.585) | 0.764                   | +3.96% |
| Severity  | 2013.2     | 0.037 (CI = +/-0.016; p = 0.000)  | 0.001 (CI = +/-0.004; p = 0.685) | 0.718                   | +3.78% |
| Severity  | 2014.1     | 0.038 (CI = +/-0.018; p = 0.001)  | 0.001 (CI = +/-0.004; p = 0.679) | 0.680                   | +3.83% |
| Severity  | 2014.2     | 0.036 (CI = +/-0.021; p = 0.003)  | 0.001 (CI = +/-0.004; p = 0.763) | 0.616                   | +3.66% |
| Severity  | 2015.1     | 0.040 (CI = +/-0.024; p = 0.003)  | 0.001 (CI = +/-0.005; p = 0.626) | 0.616                   | +4.10% |
| Severity  | 2015.2     | 0.042 (CI = +/-0.028; p = 0.007)  | 0.001 (CI = +/-0.005; p = 0.590) | 0.573                   | +4.33% |
| Severity  | 2016.1     | 0.050 (CI = +/-0.032; p = 0.006)  | 0.002 (CI = +/-0.005; p = 0.431) | 0.602                   | +5.12% |
| Severity  | 2016.2     | 0.053 (CI = +/-0.038; p = 0.012)  | 0.002 (CI = +/-0.006; p = 0.424) | 0.545                   | +5.40% |
| Severity  | 2017.1     | 0.064 (CI = +/-0.042; p = 0.008)  | 0.003 (CI = +/-0.006; p = 0.288) | 0.606                   | +6.62% |
|           |            |                                   |                                  |                         |        |
| Frequency | 2005.2     | -0.026 (CI = +/-0.010; p = 0.000) | 0.015 (CI = +/-0.006; p = 0.000) | 0.809                   | -2.61% |
| Frequency | 2006.1     | -0.027 (CI = +/-0.010; p = 0.000) | 0.015 (CI = +/-0.006; p = 0.000) | 0.803                   | -2.65% |
| Frequency | 2006.2     | -0.027 (CI = +/-0.011; p = 0.000) | 0.015 (CI = +/-0.006; p = 0.000) | 0.796                   | -2.65% |
| Frequency | 2007.1     | -0.024 (CI = +/-0.012; p = 0.000) | 0.016 (CI = +/-0.006; p = 0.000) | 0.792                   | -2.39% |
| Frequency | 2007.2     | -0.021 (CI = +/-0.012; p = 0.001) | 0.016 (CI = +/-0.006; p = 0.000) | 0.790                   | -2.11% |
| Frequency | 2008.1     | -0.019 (CI = +/-0.013; p = 0.005) | 0.017 (CI = +/-0.006; p = 0.000) | 0.784                   | -1.88% |
| Frequency | 2008.2     | -0.018 (CI = +/-0.014; p = 0.012) | 0.017 (CI = +/-0.006; p = 0.000) | 0.776                   | -1.76% |
| Frequency | 2009.1     | -0.018 (CI = +/-0.015; p = 0.022) | 0.017 (CI = +/-0.006; p = 0.000) | 0.770                   | -1.75% |
| Frequency | 2009.2     | -0.018 (CI = +/-0.016; p = 0.032) | 0.017 (CI = +/-0.007; p = 0.000) | 0.764                   | -1.77% |
| Frequency | 2010.1     | -0.016 (CI = +/-0.018; p = 0.073) | 0.017 (CI = +/-0.007; p = 0.000) | 0.756                   | -1.59% |
| Frequency | 2010.2     | -0.019 (CI = +/-0.019; p = 0.051) | 0.017 (CI = +/-0.007; p = 0.000) | 0.762                   | -1.88% |
| Frequency | 2011.1     | -0.018 (CI = +/-0.021; p = 0.086) | 0.017 (CI = +/-0.007; p = 0.000) | 0.753                   | -1.81% |
| Frequency | 2011.2     | -0.014 (CI = +/-0.023; p = 0.218) | 0.018 (CI = +/-0.007; p = 0.000) | 0.748                   | -1.38% |
| Frequency | 2012.1     | -0.017 (CI = +/-0.025; p = 0.162) | 0.017 (CI = +/-0.008; p = 0.000) | 0.753                   | -1.73% |
| Frequency | 2012.2     | -0.022 (CI = +/-0.028; p = 0.107) | 0.016 (CI = +/-0.008; p = 0.000) | 0.762                   | -2.21% |
| Frequency | 2013.1     | -0.021 (CI = +/-0.031; p = 0.166) | 0.016 (CI = +/-0.008; p = 0.001) | 0.751                   | -2.13% |
| Frequency | 2013.2     | -0.025 (CI = +/-0.035; p = 0.146) | 0.016 (CI = +/-0.009; p = 0.001) | 0.751                   | -2.52% |
| Frequency | 2014.1     | -0.023 (CI = +/-0.041; p = 0.252) | 0.016 (CI = +/-0.009; p = 0.002) | 0.735                   | -2.24% |
| Frequency | 2014.2     | -0.025 (CI = +/-0.047; p = 0.262) | 0.016 (CI = +/-0.010; p = 0.004) | 0.727                   | -2.52% |
| Frequency | 2015.1     | -0.027 (CI = +/-0.055; p = 0.304) | 0.016 (CI = +/-0.011; p = 0.007) | 0.714                   | -2.68% |
| Frequency | 2015.2     | -0.033 (CI = +/-0.065; p = 0.279) | 0.015 (CI = +/-0.012; p = 0.014) | 0.709                   | -3.29% |
| Frequency | 2016.1     | -0.044 (CI = +/-0.076; p = 0.229) | 0.014 (CI = +/-0.012; p = 0.026) | 0.709                   | -4.27% |
| Frequency | 2016.2     | -0.071 (CI = +/-0.081; p = 0.077) | 0.012 (CI = +/-0.012; p = 0.042) | 0.771                   | -6.86% |
| Frequency | 2017.1     | -0.089 (CI = +/-0.094; p = 0.060) | 0.011 (CI = +/-0.012; p = 0.070) | 0.778                   | -8.52% |



**All Perils**

Coverage = AP  
End Trend Period = 2022.1  
Excluded Points = NA  
Parameters included: time, seasonality, mobility

| Fit       | Start Date | Time                              | Seasonality                       | Mobility                          | Adjusted R^2 | Implied Trend Rate |
|-----------|------------|-----------------------------------|-----------------------------------|-----------------------------------|--------------|--------------------|
| Loss Cost | 2003.1     | 0.054 (CI = +/-0.013; p = 0.000)  | -0.254 (CI = +/-0.119; p = 0.000) | 0.019 (CI = +/-0.009; p = 0.000)  | 0.718        | +5.58%             |
| Loss Cost | 2003.2     | 0.054 (CI = +/-0.013; p = 0.000)  | -0.251 (CI = +/-0.122; p = 0.000) | 0.019 (CI = +/-0.009; p = 0.000)  | 0.688        | +5.51%             |
| Loss Cost | 2004.1     | 0.050 (CI = +/-0.014; p = 0.000)  | -0.267 (CI = +/-0.121; p = 0.000) | 0.018 (CI = +/-0.009; p = 0.000)  | 0.683        | +5.17%             |
| Loss Cost | 2004.2     | 0.048 (CI = +/-0.014; p = 0.000)  | -0.255 (CI = +/-0.121; p = 0.000) | 0.018 (CI = +/-0.009; p = 0.000)  | 0.643        | +4.90%             |
| Loss Cost | 2005.1     | 0.045 (CI = +/-0.015; p = 0.000)  | -0.269 (CI = +/-0.122; p = 0.000) | 0.017 (CI = +/-0.009; p = 0.001)  | 0.638        | +4.58%             |
| Loss Cost | 2005.2     | 0.045 (CI = +/-0.016; p = 0.000)  | -0.272 (CI = +/-0.126; p = 0.000) | 0.017 (CI = +/-0.009; p = 0.001)  | 0.613        | +4.64%             |
| Loss Cost | 2006.1     | 0.042 (CI = +/-0.016; p = 0.000)  | -0.288 (CI = +/-0.125; p = 0.000) | 0.016 (CI = +/-0.009; p = 0.001)  | 0.613        | +4.25%             |
| Loss Cost | 2006.2     | 0.039 (CI = +/-0.017; p = 0.000)  | -0.276 (CI = +/-0.127; p = 0.000) | 0.016 (CI = +/-0.009; p = 0.002)  | 0.566        | +3.96%             |
| Loss Cost | 2007.1     | 0.034 (CI = +/-0.017; p = 0.000)  | -0.295 (CI = +/-0.125; p = 0.000) | 0.014 (CI = +/-0.009; p = 0.003)  | 0.578        | +3.48%             |
| Loss Cost | 2007.2     | 0.033 (CI = +/-0.019; p = 0.001)  | -0.290 (CI = +/-0.129; p = 0.000) | 0.014 (CI = +/-0.009; p = 0.005)  | 0.539        | +3.33%             |
| Loss Cost | 2008.1     | 0.030 (CI = +/-0.020; p = 0.005)  | -0.302 (CI = +/-0.132; p = 0.000) | 0.013 (CI = +/-0.010; p = 0.008)  | 0.544        | +3.00%             |
| Loss Cost | 2008.2     | 0.025 (CI = +/-0.021; p = 0.020)  | -0.288 (CI = +/-0.133; p = 0.000) | 0.013 (CI = +/-0.010; p = 0.012)  | 0.501        | +2.56%             |
| Loss Cost | 2009.1     | 0.021 (CI = +/-0.022; p = 0.068)  | -0.304 (CI = +/-0.134; p = 0.000) | 0.012 (CI = +/-0.010; p = 0.020)  | 0.522        | +2.07%             |
| Loss Cost | 2009.2     | 0.021 (CI = +/-0.024; p = 0.080)  | -0.306 (CI = +/-0.140; p = 0.000) | 0.012 (CI = +/-0.010; p = 0.022)  | 0.507        | +2.16%             |
| Loss Cost | 2010.1     | 0.014 (CI = +/-0.025; p = 0.249)  | -0.328 (CI = +/-0.139; p = 0.000) | 0.010 (CI = +/-0.010; p = 0.039)  | 0.549        | +1.44%             |
| Loss Cost | 2010.2     | 0.010 (CI = +/-0.027; p = 0.461)  | -0.315 (CI = +/-0.142; p = 0.000) | 0.010 (CI = +/-0.010; p = 0.056)  | 0.528        | +0.98%             |
| Loss Cost | 2011.1     | 0.014 (CI = +/-0.030; p = 0.322)  | -0.302 (CI = +/-0.147; p = 0.000) | 0.010 (CI = +/-0.010; p = 0.045)  | 0.514        | +1.44%             |
| Loss Cost | 2011.2     | 0.012 (CI = +/-0.033; p = 0.449)  | -0.297 (CI = +/-0.154; p = 0.001) | 0.010 (CI = +/-0.011; p = 0.061)  | 0.492        | +1.21%             |
| Loss Cost | 2012.1     | 0.008 (CI = +/-0.036; p = 0.634)  | -0.306 (CI = +/-0.162; p = 0.001) | 0.010 (CI = +/-0.011; p = 0.089)  | 0.494        | +0.84%             |
| Loss Cost | 2012.2     | -0.006 (CI = +/-0.036; p = 0.737) | -0.274 (CI = +/-0.151; p = 0.001) | 0.008 (CI = +/-0.010; p = 0.133)  | 0.526        | -0.58%             |
| Loss Cost | 2013.1     | -0.003 (CI = +/-0.041; p = 0.889) | -0.267 (CI = +/-0.161; p = 0.003) | 0.008 (CI = +/-0.011; p = 0.133)  | 0.489        | -0.27%             |
| Loss Cost | 2013.2     | 0.011 (CI = +/-0.042; p = 0.575)  | -0.295 (CI = +/-0.155; p = 0.001) | 0.010 (CI = +/-0.011; p = 0.066)  | 0.563        | +1.14%             |
| Loss Cost | 2014.1     | 0.010 (CI = +/-0.049; p = 0.670)  | -0.298 (CI = +/-0.168; p = 0.002) | 0.010 (CI = +/-0.011; p = 0.091)  | 0.547        | +1.00%             |
| Loss Cost | 2014.2     | 0.003 (CI = +/-0.056; p = 0.898)  | -0.286 (CI = +/-0.178; p = 0.004) | 0.009 (CI = +/-0.012; p = 0.130)  | 0.531        | +0.34%             |
| Loss Cost | 2015.1     | 0.010 (CI = +/-0.066; p = 0.741)  | -0.275 (CI = +/-0.193; p = 0.010) | 0.010 (CI = +/-0.013; p = 0.127)  | 0.489        | +1.02%             |
| Loss Cost | 2015.2     | -0.004 (CI = +/-0.075; p = 0.913) | -0.253 (CI = +/-0.203; p = 0.019) | 0.009 (CI = +/-0.013; p = 0.186)  | 0.485        | -0.38%             |
| Loss Cost | 2016.1     | -0.011 (CI = +/-0.091; p = 0.782) | -0.265 (CI = +/-0.224; p = 0.026) | 0.008 (CI = +/-0.015; p = 0.261)  | 0.463        | -1.13%             |
| Loss Cost | 2016.2     | -0.033 (CI = +/-0.102; p = 0.475) | -0.234 (CI = +/-0.235; p = 0.051) | 0.006 (CI = +/-0.015; p = 0.354)  | 0.494        | -3.28%             |
| Loss Cost | 2017.1     | -0.016 (CI = +/-0.125; p = 0.768) | -0.212 (CI = +/-0.262; p = 0.098) | 0.008 (CI = +/-0.017; p = 0.312)  | 0.367        | -1.60%             |
| Severity  | 2003.1     | 0.054 (CI = +/-0.016; p = 0.000)  | -0.084 (CI = +/-0.156; p = 0.283) | -0.014 (CI = +/-0.012; p = 0.028) | 0.709        | +5.55%             |
| Severity  | 2003.2     | 0.056 (CI = +/-0.017; p = 0.000)  | -0.095 (CI = +/-0.158; p = 0.231) | -0.013 (CI = +/-0.012; p = 0.036) | 0.710        | +5.79%             |
| Severity  | 2004.1     | 0.058 (CI = +/-0.018; p = 0.000)  | -0.087 (CI = +/-0.162; p = 0.284) | -0.013 (CI = +/-0.012; p = 0.046) | 0.707        | +5.96%             |
| Severity  | 2004.2     | 0.059 (CI = +/-0.019; p = 0.000)  | -0.093 (CI = +/-0.166; p = 0.264) | -0.012 (CI = +/-0.013; p = 0.056) | 0.697        | +6.09%             |
| Severity  | 2005.1     | 0.060 (CI = +/-0.021; p = 0.000)  | -0.087 (CI = +/-0.171; p = 0.310) | -0.012 (CI = +/-0.013; p = 0.069) | 0.690        | +6.23%             |
| Severity  | 2005.2     | 0.062 (CI = +/-0.022; p = 0.000)  | -0.094 (CI = +/-0.176; p = 0.283) | -0.011 (CI = +/-0.013; p = 0.083) | 0.681        | +6.41%             |
| Severity  | 2006.1     | 0.062 (CI = +/-0.024; p = 0.000)  | -0.093 (CI = +/-0.182; p = 0.303) | -0.011 (CI = +/-0.013; p = 0.093) | 0.667        | +6.43%             |
| Severity  | 2006.2     | 0.062 (CI = +/-0.025; p = 0.000)  | -0.093 (CI = +/-0.188; p = 0.323) | -0.011 (CI = +/-0.014; p = 0.100) | 0.645        | +6.40%             |
| Severity  | 2007.1     | 0.061 (CI = +/-0.027; p = 0.000)  | -0.095 (CI = +/-0.195; p = 0.328) | -0.012 (CI = +/-0.014; p = 0.106) | 0.627        | +6.34%             |
| Severity  | 2007.2     | 0.062 (CI = +/-0.029; p = 0.000)  | -0.097 (CI = +/-0.203; p = 0.334) | -0.012 (CI = +/-0.015; p = 0.119) | 0.607        | +6.41%             |
| Severity  | 2008.1     | 0.065 (CI = +/-0.032; p = 0.000)  | -0.088 (CI = +/-0.210; p = 0.397) | -0.011 (CI = +/-0.015; p = 0.148) | 0.600        | +6.67%             |
| Severity  | 2008.2     | 0.068 (CI = +/-0.034; p = 0.000)  | -0.099 (CI = +/-0.217; p = 0.353) | -0.010 (CI = +/-0.015; p = 0.181) | 0.593        | +7.03%             |
| Severity  | 2009.1     | 0.078 (CI = +/-0.035; p = 0.000)  | -0.065 (CI = +/-0.213; p = 0.536) | -0.008 (CI = +/-0.015; p = 0.276) | 0.635        | +8.11%             |
| Severity  | 2009.2     | 0.097 (CI = +/-0.030; p = 0.000)  | -0.124 (CI = +/-0.173; p = 0.152) | -0.005 (CI = +/-0.012; p = 0.401) | 0.778        | +10.16%            |
| Severity  | 2010.1     | 0.114 (CI = +/-0.025; p = 0.000)  | -0.071 (CI = +/-0.139; p = 0.302) | -0.002 (CI = +/-0.010; p = 0.722) | 0.869        | +12.05%            |
| Severity  | 2010.2     | 0.126 (CI = +/-0.022; p = 0.000)  | -0.106 (CI = +/-0.118; p = 0.075) | 0.000 (CI = +/-0.008; p = 0.952)  | 0.912        | +13.46%            |
| Severity  | 2011.1     | 0.137 (CI = +/-0.021; p = 0.000)  | -0.076 (CI = +/-0.105; p = 0.145) | 0.002 (CI = +/-0.007; p = 0.545)  | 0.934        | +14.66%            |
| Severity  | 2011.2     | 0.138 (CI = +/-0.023; p = 0.000)  | -0.080 (CI = +/-0.110; p = 0.145) | 0.002 (CI = +/-0.008; p = 0.524)  | 0.925        | +14.82%            |
| Severity  | 2012.1     | 0.140 (CI = +/-0.026; p = 0.000)  | -0.076 (CI = +/-0.117; p = 0.187) | 0.003 (CI = +/-0.008; p = 0.502)  | 0.917        | +15.00%            |
| Severity  | 2012.2     | 0.131 (CI = +/-0.027; p = 0.000)  | -0.056 (CI = +/-0.112; p = 0.308) | 0.001 (CI = +/-0.008; p = 0.690)  | 0.909        | +13.98%            |
| Severity  | 2013.1     | 0.133 (CI = +/-0.031; p = 0.000)  | -0.050 (CI = +/-0.120; p = 0.386) | 0.002 (CI = +/-0.008; p = 0.634)  | 0.899        | +14.28%            |
| Severity  | 2013.2     | 0.145 (CI = +/-0.031; p = 0.000)  | -0.073 (CI = +/-0.113; p = 0.190) | 0.003 (CI = +/-0.008; p = 0.393)  | 0.913        | +15.59%            |
| Severity  | 2014.1     | 0.141 (CI = +/-0.036; p = 0.000)  | -0.080 (CI = +/-0.121; p = 0.177) | 0.003 (CI = +/-0.008; p = 0.493)  | 0.897        | +15.17%            |
| Severity  | 2014.2     | 0.137 (CI = +/-0.041; p = 0.000)  | -0.073 (CI = +/-0.129; p = 0.242) | 0.002 (CI = +/-0.009; p = 0.578)  | 0.869        | +14.71%            |
| Severity  | 2015.1     | 0.156 (CI = +/-0.040; p = 0.000)  | -0.040 (CI = +/-0.116; p = 0.460) | 0.004 (CI = +/-0.008; p = 0.238)  | 0.905        | +16.92%            |
| Severity  | 2015.2     | 0.158 (CI = +/-0.047; p = 0.000)  | -0.043 (CI = +/-0.127; p = 0.471) | 0.005 (CI = +/-0.008; p = 0.258)  | 0.880        | +17.09%            |
| Severity  | 2016.1     | 0.172 (CI = +/-0.053; p = 0.000)  | -0.022 (CI = +/-0.131; p = 0.711) | 0.006 (CI = +/-0.009; p = 0.161)  | 0.883        | +18.75%            |
| Severity  | 2016.2     | 0.165 (CI = +/-0.063; p = 0.000)  | -0.013 (CI = +/-0.145; p = 0.845) | 0.005 (CI = +/-0.009; p = 0.218)  | 0.839        | +17.93%            |
| Severity  | 2017.1     | 0.160 (CI = +/-0.078; p = 0.002)  | -0.019 (CI = +/-0.165; p = 0.793) | 0.005 (CI = +/-0.011; p = 0.292)  | 0.780        | +17.36%            |
| Frequency | 2003.1     | 0.000 (CI = +/-0.022; p = 0.974)  | -0.171 (CI = +/-0.209; p = 0.106) | 0.033 (CI = +/-0.016; p = 0.000)  | 0.405        | +0.04%             |
| Frequency | 2003.2     | -0.003 (CI = +/-0.023; p = 0.818) | -0.156 (CI = +/-0.212; p = 0.145) | 0.032 (CI = +/-0.016; p = 0.000)  | 0.412        | -0.26%             |
| Frequency | 2004.1     | -0.007 (CI = +/-0.024; p = 0.531) | -0.180 (CI = +/-0.213; p = 0.095) | 0.031 (CI = +/-0.016; p = 0.000)  | 0.439        | -0.74%             |
| Frequency | 2004.2     | -0.011 (CI = +/-0.025; p = 0.365) | -0.162 (CI = +/-0.215; p = 0.135) | 0.030 (CI = +/-0.016; p = 0.001)  | 0.451        | -1.12%             |
| Frequency | 2005.1     | -0.016 (CI = +/-0.026; p = 0.234) | -0.182 (CI = +/-0.218; p = 0.098) | 0.029 (CI = +/-0.016; p = 0.001)  | 0.470        | -1.55%             |
| Frequency | 2005.2     | -0.017 (CI = +/-0.028; p = 0.230) | -0.177 (CI = +/-0.225; p = 0.117) | 0.029 (CI = +/-0.017; p = 0.002)  | 0.470        | -1.67%             |
| Frequency | 2006.1     | -0.021 (CI = +/-0.030; p = 0.166) | -0.194 (CI = +/-0.230; p = 0.095) | 0.028 (CI = +/-0.017; p = 0.002)  | 0.481        | -2.04%             |
| Frequency | 2006.2     | -0.023 (CI = +/-0.032; p = 0.144) | -0.184 (CI = +/-0.237; p = 0.123) | 0.027 (CI = +/-0.017; p = 0.004)  | 0.484        | -2.30%             |
| Frequency | 2007.1     | -0.027 (CI = +/-0.034; p = 0.109) | -0.200 (CI = +/-0.243; p = 0.102) | 0.026 (CI = +/-0.018; p = 0.006)  | 0.492        | -2.70%             |
| Frequency | 2007.2     | -0.029 (CI = +/-0.036; p = 0.110) | -0.193 (CI = +/-0.251; p = 0.126) | 0.026 (CI = +/-0.018; p = 0.008)  | 0.491        | -2.89%             |
| Frequency | 2008.1     | -0.035 (CI = +/-0.039; p = 0.075) | -0.214 (CI = +/-0.258; p = 0.099) | 0.024 (CI = +/-0.019; p = 0.012)  | 0.504        | -3.44%             |
| Frequency | 2008.2     | -0.043 (CI = +/-0.041; p = 0.042) | -0.188 (CI = +/-0.261; p = 0.149) | 0.023 (CI = +/-0.019; p = 0.018)  | 0.527        | -4.18%             |
| Frequency | 2009.1     | -0.057 (CI = +/-0.041; p = 0.008) | -0.239 (CI = +/-0.249; p = 0.059) | 0.020 (CI = +/-0.018; p = 0.030)  | 0.602        | -5.58%             |
| Frequency | 2009.2     | -0.075 (CI = +/-0.038; p = 0.000) | -0.183 (CI = +/-0.222; p = 0.102) | 0.017 (CI = +/-0.016; p = 0.038)  | 0.700        | -7.27%             |
| Frequency | 2010.1     | -0.099 (CI = +/-0.030; p = 0.000) | -0.258 (CI = +/-0.165; p = 0.004) | 0.012 (CI = +/-0.012; p = 0.043)  | 0.848        | -9.46%             |
| Frequency | 2010.2     | -0.117 (CI = +/-0.024; p = 0.000) | -0.209 (CI = +/-0.127; p = 0.003) | 0.009 (CI = +/-0.009; p = 0.040)  | 0.917        | -11.00%            |
| Frequency | 2011.1     | -0.122 (CI = +/-0.026; p = 0.000) | -0.226 (CI = +/-0.129; p = 0.002) | 0.008 (CI = +/-0.009; p = 0.068)  | 0.917        | -11.53%            |
| Frequency | 2011.2     | -0.126 (CI = +/-0.028; p = 0.000) | -0.217 (CI = +/-0.134; p = 0.003) | 0.008 (CI = +/-0.009; p = 0.094)  | 0.915        | -11.86%            |
| Frequency | 2012.1     | -0.131 (CI = +/-0.031; p = 0.000) | -0.230 (CI = +/-0.139; p = 0.003) | 0.007 (CI = +/-0.010; p = 0.145)  | 0.909        | -12.31%            |
| Frequency | 2012.2     | -0.137 (CI = +/-0.034; p = 0.000) | -0.218 (CI = +/-0.144; p = 0.005) | 0.006 (CI = +/-0.010; p = 0.197)  | 0.908        | -12.78%            |
| Frequency | 2013.1     | -0.136 (CI = +/-0.039; p = 0.000) | -0.217 (CI = +/-0.154; p = 0.009) | 0.006 (CI = +/-0.010; p = 0.219)  | 0.891        | -12.74%            |
| Frequency | 2013.2     | -0.134 (CI = +/-0.045; p = 0.000) | -0.222 (CI = +/-0.163; p = 0.011) | 0.007 (CI = +/-0.011; p = 0.221)  | 0.880        | -12.50%            |
| Frequency | 2014.1     | -0.131 (CI = +/-0.052; p = 0.000) | -0.218 (CI = +/-0.176; p = 0.019) | 0.007 (CI = +/-0.012; p = 0.233)  | 0.854        | -12.31%            |
| Frequency | 2014.2     | -0.134 (CI = +/-0.060; p = 0.000) | -0.213 (CI = +/-0.190; p = 0.031) | 0.007 (CI = +/-0.013; p = 0.277)  | 0.842        | -12.53%            |
| Frequency | 2015.1     | -0.146 (CI = +/-0.069; p = 0.001) | -0.234 (CI = +/-0.201; p = 0.026) | 0.005 (CI = +/-0.013; p = 0.408)  | 0.831        | -13.59%            |
| Frequency | 2015.2     | -0.162 (CI = +/-0.078; p = 0.001) | -0.210 (CI = +/-0.210; p = 0.050) | 0.004 (CI = +/-0.014; p = 0.535)  | 0.837        | -14.92%            |
| Frequency | 2016.1     | -0.183 (CI = +/-0.088; p = 0.001) | -0.242 (CI = +/-0.219; p = 0.034) | 0.002 (CI = +/-0.014; p = 0.761)  | 0.836        | -16.74%            |
| Frequency | 2016.2     | -0.198 (CI = +/-0.104; p = 0.002) | -0.222 (CI = +/-0.238; p = 0.064) | 0.001 (CI = +/-0.015; p = 0.877)  | 0.832        | -17.99%            |
| Frequency | 2017.1     | -0.176 (CI = +/-0.123; p = 0.012) | -0.193 (CI = +/-0.260; p = 0.123) | 0.003 (CI = +/-0.017; p = 0.719)  | 0.762        | -16.16%            |

**All Perils**

Coverage = AP

End Trend Period = 2022.1

Excluded Points = 2010.2,2012.2,2016.2

Parameters Included: time, seasonality, mobility

| Fit       | Start Date | Time                              | Seasonality                       | Mobility                          | Adjusted R <sup>2</sup> | Implied Trend |
|-----------|------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|---------------|
|           |            |                                   |                                   |                                   |                         | Rate          |
| Loss Cost | 2003.1     | 0.053 (CI = +/-0.012; p = 0.000)  | -0.203 (CI = +/-0.112; p = 0.001) | 0.018 (CI = +/-0.008; p = 0.000)  | 0.744                   | +5.48%        |
| Loss Cost | 2003.2     | 0.052 (CI = +/-0.012; p = 0.000)  | -0.199 (CI = +/-0.115; p = 0.001) | 0.018 (CI = +/-0.008; p = 0.000)  | 0.715                   | +5.39%        |
| Loss Cost | 2004.1     | 0.050 (CI = +/-0.013; p = 0.000)  | -0.214 (CI = +/-0.114; p = 0.001) | 0.017 (CI = +/-0.008; p = 0.000)  | 0.707                   | +5.11%        |
| Loss Cost | 2004.2     | 0.047 (CI = +/-0.013; p = 0.000)  | -0.202 (CI = +/-0.114; p = 0.001) | 0.017 (CI = +/-0.008; p = 0.000)  | 0.670                   | +4.83%        |
| Loss Cost | 2005.1     | 0.045 (CI = +/-0.013; p = 0.000)  | -0.215 (CI = +/-0.116; p = 0.001) | 0.016 (CI = +/-0.008; p = 0.001)  | 0.659                   | +4.58%        |
| Loss Cost | 2005.2     | 0.045 (CI = +/-0.014; p = 0.000)  | -0.218 (CI = +/-0.119; p = 0.001) | 0.016 (CI = +/-0.009; p = 0.001)  | 0.636                   | +4.64%        |
| Loss Cost | 2006.1     | 0.043 (CI = +/-0.015; p = 0.000)  | -0.233 (CI = +/-0.121; p = 0.001) | 0.015 (CI = +/-0.009; p = 0.001)  | 0.629                   | +4.34%        |
| Loss Cost | 2006.2     | 0.040 (CI = +/-0.016; p = 0.000)  | -0.222 (CI = +/-0.122; p = 0.001) | 0.015 (CI = +/-0.009; p = 0.002)  | 0.578                   | +4.05%        |
| Loss Cost | 2007.1     | 0.036 (CI = +/-0.017; p = 0.000)  | -0.240 (CI = +/-0.123; p = 0.000) | 0.014 (CI = +/-0.009; p = 0.003)  | 0.579                   | +3.67%        |
| Loss Cost | 2007.2     | 0.035 (CI = +/-0.018; p = 0.001)  | -0.236 (CI = +/-0.127; p = 0.001) | 0.014 (CI = +/-0.009; p = 0.004)  | 0.535                   | +3.55%        |
| Loss Cost | 2008.1     | 0.033 (CI = +/-0.020; p = 0.002)  | -0.245 (CI = +/-0.133; p = 0.001) | 0.013 (CI = +/-0.009; p = 0.006)  | 0.532                   | +3.35%        |
| Loss Cost | 2008.2     | 0.029 (CI = +/-0.021; p = 0.009)  | -0.233 (CI = +/-0.134; p = 0.002) | 0.013 (CI = +/-0.009; p = 0.010)  | 0.477                   | +2.92%        |
| Loss Cost | 2009.1     | 0.025 (CI = +/-0.023; p = 0.030)  | -0.247 (CI = +/-0.140; p = 0.001) | 0.012 (CI = +/-0.009; p = 0.016)  | 0.482                   | +2.58%        |
| Loss Cost | 2009.2     | 0.027 (CI = +/-0.025; p = 0.034)  | -0.252 (CI = +/-0.145; p = 0.002) | 0.012 (CI = +/-0.010; p = 0.017)  | 0.472                   | +2.77%        |
| Loss Cost | 2010.1     | 0.021 (CI = +/-0.028; p = 0.122)  | -0.274 (CI = +/-0.152; p = 0.001) | 0.011 (CI = +/-0.010; p = 0.032)  | 0.490                   | +2.17%        |
| Loss Cost | 2011.1     | 0.017 (CI = +/-0.031; p = 0.257)  | -0.267 (CI = +/-0.156; p = 0.002) | 0.010 (CI = +/-0.010; p = 0.050)  | 0.455                   | +1.73%        |
| Loss Cost | 2011.2     | 0.015 (CI = +/-0.035; p = 0.364)  | -0.264 (CI = +/-0.163; p = 0.003) | 0.010 (CI = +/-0.011; p = 0.067)  | 0.429                   | +1.54%        |
| Loss Cost | 2012.1     | 0.014 (CI = +/-0.040; p = 0.483)  | -0.268 (CI = +/-0.177; p = 0.006) | 0.010 (CI = +/-0.012; p = 0.092)  | 0.420                   | +1.37%        |
| Loss Cost | 2013.1     | -0.002 (CI = +/-0.041; p = 0.899) | -0.246 (CI = +/-0.165; p = 0.006) | 0.008 (CI = +/-0.011; p = 0.152)  | 0.443                   | -0.25%        |
| Loss Cost | 2013.2     | 0.012 (CI = +/-0.042; p = 0.550)  | -0.274 (CI = +/-0.157; p = 0.002) | 0.009 (CI = +/-0.010; p = 0.074)  | 0.530                   | +1.20%        |
| Loss Cost | 2014.1     | 0.012 (CI = +/-0.049; p = 0.590)  | -0.273 (CI = +/-0.172; p = 0.005) | 0.009 (CI = +/-0.011; p = 0.093)  | 0.504                   | +1.25%        |
| Loss Cost | 2014.2     | 0.007 (CI = +/-0.057; p = 0.800)  | -0.264 (CI = +/-0.184; p = 0.009) | 0.009 (CI = +/-0.012; p = 0.130)  | 0.485                   | +0.67%        |
| Loss Cost | 2015.1     | 0.018 (CI = +/-0.067; p = 0.553)  | -0.241 (CI = +/-0.199; p = 0.023) | 0.010 (CI = +/-0.013; p = 0.108)  | 0.435                   | +1.86%        |
| Loss Cost | 2015.2     | 0.006 (CI = +/-0.078; p = 0.863)  | -0.226 (CI = +/-0.211; p = 0.038) | 0.009 (CI = +/-0.014; p = 0.161)  | 0.418                   | +0.61%        |
| Loss Cost | 2016.1     | 0.006 (CI = +/-0.101; p = 0.894)  | -0.226 (CI = +/-0.247; p = 0.067) | 0.009 (CI = +/-0.015; p = 0.210)  | 0.360                   | +0.61%        |
| Loss Cost | 2017.1     | -0.016 (CI = +/-0.125; p = 0.768) | -0.212 (CI = +/-0.262; p = 0.098) | 0.008 (CI = +/-0.017; p = 0.312)  | 0.367                   | -1.60%        |
|           |            |                                   |                                   |                                   |                         |               |
| Severity  | 2003.1     | 0.055 (CI = +/-0.017; p = 0.000)  | -0.113 (CI = +/-0.166; p = 0.176) | -0.013 (CI = +/-0.012; p = 0.046) | 0.718                   | +5.64%        |
| Severity  | 2003.2     | 0.057 (CI = +/-0.018; p = 0.000)  | -0.125 (CI = +/-0.168; p = 0.140) | -0.012 (CI = +/-0.012; p = 0.059) | 0.719                   | +5.39%        |
| Severity  | 2004.1     | 0.059 (CI = +/-0.019; p = 0.000)  | -0.117 (CI = +/-0.174; p = 0.178) | -0.012 (CI = +/-0.013; p = 0.072) | 0.714                   | +6.04%        |
| Severity  | 2004.2     | 0.060 (CI = +/-0.020; p = 0.000)  | -0.124 (CI = +/-0.179; p = 0.167) | -0.011 (CI = +/-0.013; p = 0.086) | 0.704                   | +6.18%        |
| Severity  | 2005.1     | 0.061 (CI = +/-0.022; p = 0.000)  | -0.119 (CI = +/-0.185; p = 0.200) | -0.011 (CI = +/-0.013; p = 0.101) | 0.695                   | +6.28%        |
| Severity  | 2005.2     | 0.063 (CI = +/-0.023; p = 0.000)  | -0.126 (CI = +/-0.190; p = 0.185) | -0.011 (CI = +/-0.014; p = 0.121) | 0.685                   | +6.47%        |
| Severity  | 2006.1     | 0.062 (CI = +/-0.025; p = 0.000)  | -0.128 (CI = +/-0.199; p = 0.197) | -0.011 (CI = +/-0.014; p = 0.129) | 0.670                   | +6.44%        |
| Severity  | 2006.2     | 0.062 (CI = +/-0.027; p = 0.000)  | -0.127 (CI = +/-0.205; p = 0.215) | -0.011 (CI = +/-0.014; p = 0.137) | 0.646                   | +6.41%        |
| Severity  | 2007.1     | 0.061 (CI = +/-0.029; p = 0.000)  | -0.133 (CI = +/-0.215; p = 0.213) | -0.011 (CI = +/-0.015; p = 0.139) | 0.626                   | +6.27%        |
| Severity  | 2007.2     | 0.061 (CI = +/-0.031; p = 0.001)  | -0.135 (CI = +/-0.223; p = 0.223) | -0.011 (CI = +/-0.015; p = 0.154) | 0.602                   | +6.32%        |
| Severity  | 2008.1     | 0.063 (CI = +/-0.034; p = 0.001)  | -0.127 (CI = +/-0.235; p = 0.273) | -0.011 (CI = +/-0.016; p = 0.182) | 0.591                   | +6.50%        |
| Severity  | 2008.2     | 0.066 (CI = +/-0.037; p = 0.001)  | -0.137 (CI = +/-0.242; p = 0.253) | -0.010 (CI = +/-0.016; p = 0.220) | 0.579                   | +6.86%        |
| Severity  | 2009.1     | 0.077 (CI = +/-0.040; p = 0.001)  | -0.093 (CI = +/-0.245; p = 0.440) | -0.008 (CI = +/-0.016; p = 0.327) | 0.615                   | +8.00%        |
| Severity  | 2009.2     | 0.098 (CI = +/-0.034; p = 0.000)  | -0.140 (CI = +/-0.196; p = 0.152) | -0.004 (CI = +/-0.013; p = 0.506) | 0.770                   | +10.35%       |
| Severity  | 2010.1     | 0.121 (CI = +/-0.028; p = 0.000)  | -0.054 (CI = +/-0.155; p = 0.475) | 0.000 (CI = +/-0.010; p = 0.995)  | 0.875                   | +12.91%       |
| Severity  | 2011.1     | 0.139 (CI = +/-0.023; p = 0.000)  | -0.080 (CI = +/-0.115; p = 0.160) | 0.003 (CI = +/-0.008; p = 0.454)  | 0.935                   | +14.92%       |
| Severity  | 2011.2     | 0.141 (CI = +/-0.025; p = 0.000)  | -0.084 (CI = +/-0.120; p = 0.158) | 0.003 (CI = +/-0.008; p = 0.430)  | 0.925                   | +15.15%       |
| Severity  | 2012.1     | 0.144 (CI = +/-0.029; p = 0.000)  | -0.076 (CI = +/-0.129; p = 0.227) | 0.003 (CI = +/-0.009; p = 0.403)  | 0.915                   | +15.43%       |
| Severity  | 2013.1     | 0.133 (CI = +/-0.031; p = 0.000)  | -0.063 (CI = +/-0.125; p = 0.300) | 0.002 (CI = +/-0.008; p = 0.594)  | 0.901                   | +14.26%       |
| Severity  | 2013.2     | 0.145 (CI = +/-0.031; p = 0.000)  | -0.084 (CI = +/-0.118; p = 0.146) | 0.003 (CI = +/-0.008; p = 0.366)  | 0.915                   | +15.56%       |
| Severity  | 2014.1     | 0.140 (CI = +/-0.036; p = 0.000)  | -0.095 (CI = +/-0.126; p = 0.126) | 0.003 (CI = +/-0.008; p = 0.480)  | 0.900                   | +14.99%       |
| Severity  | 2014.2     | 0.135 (CI = +/-0.041; p = 0.000)  | -0.088 (CI = +/-0.134; p = 0.177) | 0.002 (CI = +/-0.009; p = 0.572)  | 0.870                   | +14.46%       |
| Severity  | 2015.1     | 0.154 (CI = +/-0.042; p = 0.000)  | -0.051 (CI = +/-0.127; p = 0.390) | 0.004 (CI = +/-0.008; p = 0.267)  | 0.900                   | +16.62%       |
| Severity  | 2015.2     | 0.154 (CI = +/-0.051; p = 0.000)  | -0.052 (CI = +/-0.139; p = 0.418) | 0.004 (CI = +/-0.009; p = 0.298)  | 0.867                   | +16.70%       |
| Severity  | 2016.1     | 0.170 (CI = +/-0.063; p = 0.000)  | -0.026 (CI = +/-0.152; p = 0.708) | 0.006 (CI = +/-0.010; p = 0.203)  | 0.859                   | +18.56%       |
| Severity  | 2017.1     | 0.160 (CI = +/-0.078; p = 0.002)  | -0.019 (CI = +/-0.165; p = 0.793) | 0.005 (CI = +/-0.011; p = 0.292)  | 0.780                   | +17.36%       |
|           |            |                                   |                                   |                                   |                         |               |
| Frequency | 2003.1     | -0.002 (CI = +/-0.021; p = 0.881) | -0.090 (CI = +/-0.204; p = 0.374) | 0.031 (CI = +/-0.015; p = 0.000)  | 0.407                   | -0.16%        |
| Frequency | 2003.2     | -0.005 (CI = +/-0.022; p = 0.660) | -0.074 (CI = +/-0.207; p = 0.470) | 0.030 (CI = +/-0.015; p = 0.000)  | 0.420                   | -0.48%        |
| Frequency | 2004.1     | -0.009 (CI = +/-0.023; p = 0.437) | -0.097 (CI = +/-0.209; p = 0.350) | 0.029 (CI = +/-0.015; p = 0.001)  | 0.443                   | -0.88%        |
| Frequency | 2004.2     | -0.013 (CI = +/-0.024; p = 0.280) | -0.078 (CI = +/-0.211; p = 0.453) | 0.028 (CI = +/-0.015; p = 0.001)  | 0.462                   | -1.27%        |
| Frequency | 2005.1     | -0.016 (CI = +/-0.025; p = 0.198) | -0.097 (CI = +/-0.216; p = 0.367) | 0.027 (CI = +/-0.016; p = 0.001)  | 0.476                   | -1.60%        |
| Frequency | 2005.2     | -0.017 (CI = +/-0.027; p = 0.197) | -0.092 (CI = +/-0.222; p = 0.406) | 0.027 (CI = +/-0.016; p = 0.002)  | 0.474                   | -1.72%        |
| Frequency | 2006.1     | -0.020 (CI = +/-0.029; p = 0.167) | -0.105 (CI = +/-0.231; p = 0.359) | 0.026 (CI = +/-0.016; p = 0.003)  | 0.477                   | -1.97%        |
| Frequency | 2006.2     | -0.022 (CI = +/-0.031; p = 0.147) | -0.095 (CI = +/-0.237; p = 0.416) | 0.026 (CI = +/-0.017; p = 0.004)  | 0.480                   | -2.21%        |
| Frequency | 2007.1     | -0.025 (CI = +/-0.033; p = 0.138) | -0.107 (CI = +/-0.248; p = 0.381) | 0.025 (CI = +/-0.017; p = 0.006)  | 0.478                   | -2.45%        |
| Frequency | 2007.2     | -0.026 (CI = +/-0.036; p = 0.143) | -0.101 (CI = +/-0.256; p = 0.421) | 0.025 (CI = +/-0.018; p = 0.009)  | 0.474                   | -2.61%        |
| Frequency | 2008.1     | -0.030 (CI = +/-0.039; p = 0.127) | -0.118 (CI = +/-0.269; p = 0.373) | 0.024 (CI = +/-0.018; p = 0.013)  | 0.474                   | -2.96%        |
| Frequency | 2008.2     | -0.038 (CI = +/-0.042; p = 0.077) | -0.097 (CI = +/-0.271; p = 0.466) | 0.023 (CI = +/-0.019; p = 0.019)  | 0.498                   | -3.68%        |
| Frequency | 2009.1     | -0.052 (CI = +/-0.044; p = 0.023) | -0.155 (CI = +/-0.270; p = 0.245) | 0.020 (CI = +/-0.018; p = 0.034)  | 0.560                   | -5.02%        |
| Frequency | 2009.2     | -0.071 (CI = +/-0.041; p = 0.002) | -0.112 (CI = +/-0.238; p = 0.337) | 0.016 (CI = +/-0.016; p = 0.045)  | 0.676                   | -6.87%        |
| Frequency | 2010.1     | -0.100 (CI = +/-0.033; p = 0.000) | -0.220 (CI = +/-0.183; p = 0.021) | 0.011 (CI = +/-0.012; p = 0.068)  | 0.835                   | -9.51%        |
| Frequency | 2011.1     | -0.122 (CI = +/-0.025; p = 0.000) | -0.188 (CI = +/-0.127; p = 0.006) | 0.008 (CI = +/-0.008; p = 0.074)  | 0.926                   | -11.48%       |
| Frequency | 2011.2     | -0.126 (CI = +/-0.028; p = 0.000) | -0.180 (CI = +/-0.131; p = 0.010) | 0.007 (CI = +/-0.009; p = 0.105)  | 0.922                   | -11.82%       |
| Frequency | 2012.1     | -0.130 (CI = +/-0.032; p = 0.000) | -0.192 (CI = +/-0.140; p = 0.011) | 0.006 (CI = +/-0.009; p = 0.159)  | 0.912                   | -12.18%       |
| Frequency | 2013.1     | -0.136 (CI = +/-0.036; p = 0.000) | -0.184 (CI = +/-0.144; p = 0.016) | 0.006 (CI = +/-0.010; p = 0.227)  | 0.908                   | -12.90%       |
| Frequency | 2013.2     | -0.133 (CI = +/-0.041; p = 0.000) | -0.190 (CI = +/-0.153; p = 0.019) | 0.006 (CI = +/-0.010; p = 0.224)  | 0.896                   | -12.43%       |
| Frequency | 2014.1     | -0.127 (CI = +/-0.047; p = 0.000) | -0.177 (CI = +/-0.166; p = 0.038) | 0.007 (CI = +/-0.011; p = 0.204)  | 0.871                   | -11.95%       |
| Frequency | 2014.2     | -0.128 (CI = +/-0.055; p = 0.000) | -0.176 (CI = +/-0.179; p = 0.053) | 0.007 (CI = +/-0.012; p = 0.240)  | 0.856                   | -12.05%       |
| Frequency | 2015.1     | -0.135 (CI = +/-0.066; p = 0.001) | -0.189 (CI = +/-0.198; p = 0.059) | 0.006 (CI = +/-0.013; p = 0.330)  | 0.830                   | -12.66%       |
| Frequency | 2015.2     | -0.148 (CI = +/-0.077; p = 0.002) | -0.174 (CI = +/-0.208; p = 0.091) | 0.005 (CI = +/-0.013; p = 0.438)  | 0.827                   | -13.79%       |
| Frequency | 2016.1     | -0.164 (CI = +/-0.097; p = 0.005) | -0.201 (CI = +/-0.237; p = 0.087) | 0.003 (CI = +/-0.015; p = 0.612)  | 0.794                   | -15.14%       |
| Frequency | 2017.1     | -0.176 (CI = +/-0.123; p = 0.012) | -0.193 (CI = +/-0.260; p = 0.123) | 0.003 (CI = +/-0.017; p = 0.719)  | 0.762                   | -16.16%       |

**Specified Perils**

Coverage = SP  
 End Trend Period = 2022.1  
 Excluded Points = NA  
 Parameters included: time, seasonality, mobility

| Fit       | Start Date | Time                              | Seasonality                       | Mobility                          | Adjusted R <sup>2</sup> | Implied Trend Rate |
|-----------|------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|--------------------|
| Loss Cost | 2003.1     | 0.056 (CI = +/-0.019; p = 0.000)  | -0.463 (CI = +/-0.176; p = 0.000) | 0.003 (CI = +/-0.014; p = 0.663)  | 0.668                   | +5.80%             |
| Loss Cost | 2003.2     | 0.059 (CI = +/-0.020; p = 0.000)  | -0.474 (CI = +/-0.179; p = 0.000) | 0.003 (CI = +/-0.014; p = 0.607)  | 0.662                   | +6.04%             |
| Loss Cost | 2004.1     | 0.061 (CI = +/-0.021; p = 0.000)  | -0.462 (CI = +/-0.183; p = 0.000) | 0.004 (CI = +/-0.014; p = 0.542)  | 0.667                   | +6.30%             |
| Loss Cost | 2004.2     | 0.064 (CI = +/-0.022; p = 0.000)  | -0.477 (CI = +/-0.185; p = 0.000) | 0.005 (CI = +/-0.014; p = 0.475)  | 0.667                   | +6.65%             |
| Loss Cost | 2005.1     | 0.060 (CI = +/-0.022; p = 0.000)  | -0.498 (CI = +/-0.186; p = 0.000) | 0.004 (CI = +/-0.014; p = 0.587)  | 0.665                   | +6.19%             |
| Loss Cost | 2005.2     | 0.064 (CI = +/-0.023; p = 0.000)  | -0.515 (CI = +/-0.188; p = 0.000) | 0.005 (CI = +/-0.014; p = 0.504)  | 0.669                   | +6.61%             |
| Loss Cost | 2006.1     | 0.063 (CI = +/-0.025; p = 0.000)  | -0.519 (CI = +/-0.194; p = 0.000) | 0.004 (CI = +/-0.014; p = 0.538)  | 0.664                   | +6.51%             |
| Loss Cost | 2006.2     | 0.062 (CI = +/-0.027; p = 0.000)  | -0.516 (CI = +/-0.201; p = 0.000) | 0.004 (CI = +/-0.015; p = 0.563)  | 0.629                   | +6.42%             |
| Loss Cost | 2007.1     | 0.065 (CI = +/-0.029; p = 0.000)  | -0.506 (CI = +/-0.207; p = 0.000) | 0.005 (CI = +/-0.015; p = 0.520)  | 0.631                   | +6.68%             |
| Loss Cost | 2007.2     | 0.073 (CI = +/-0.029; p = 0.000)  | -0.536 (CI = +/-0.203; p = 0.000) | 0.006 (CI = +/-0.015; p = 0.383)  | 0.664                   | +7.54%             |
| Loss Cost | 2008.1     | 0.074 (CI = +/-0.032; p = 0.000)  | -0.530 (CI = +/-0.211; p = 0.000) | 0.007 (CI = +/-0.015; p = 0.369)  | 0.663                   | +7.73%             |
| Loss Cost | 2008.2     | 0.075 (CI = +/-0.035; p = 0.000)  | -0.531 (CI = +/-0.219; p = 0.000) | 0.007 (CI = +/-0.016; p = 0.379)  | 0.628                   | +7.76%             |
| Loss Cost | 2009.1     | 0.071 (CI = +/-0.038; p = 0.001)  | -0.543 (CI = +/-0.228; p = 0.000) | 0.006 (CI = +/-0.016; p = 0.446)  | 0.622                   | +7.39%             |
| Loss Cost | 2009.2     | 0.057 (CI = +/-0.036; p = 0.004)  | -0.497 (CI = +/-0.211; p = 0.000) | 0.004 (CI = +/-0.015; p = 0.618)  | 0.573                   | +5.84%             |
| Loss Cost | 2010.1     | 0.059 (CI = +/-0.040; p = 0.006)  | -0.491 (CI = +/-0.221; p = 0.000) | 0.004 (CI = +/-0.016; p = 0.594)  | 0.572                   | +6.06%             |
| Loss Cost | 2010.2     | 0.054 (CI = +/-0.044; p = 0.017)  | -0.478 (CI = +/-0.230; p = 0.000) | 0.003 (CI = +/-0.016; p = 0.666)  | 0.511                   | +5.60%             |
| Loss Cost | 2011.1     | 0.056 (CI = +/-0.049; p = 0.027)  | -0.475 (CI = +/-0.242; p = 0.001) | 0.004 (CI = +/-0.017; p = 0.661)  | 0.508                   | +5.72%             |
| Loss Cost | 2011.2     | 0.044 (CI = +/-0.052; p = 0.090)  | -0.447 (CI = +/-0.245; p = 0.001) | 0.002 (CI = +/-0.017; p = 0.807)  | 0.427                   | +4.54%             |
| Loss Cost | 2012.1     | 0.034 (CI = +/-0.057; p = 0.224)  | -0.472 (CI = +/-0.253; p = 0.001) | 0.000 (CI = +/-0.017; p = 0.970)  | 0.440                   | +3.47%             |
| Loss Cost | 2012.2     | 0.011 (CI = +/-0.055; p = 0.693)  | -0.419 (CI = +/-0.232; p = 0.001) | -0.003 (CI = +/-0.016; p = 0.723) | 0.387                   | +1.06%             |
| Loss Cost | 2013.1     | 0.026 (CI = +/-0.060; p = 0.377)  | -0.385 (CI = +/-0.235; p = 0.003) | 0.000 (CI = +/-0.016; p = 0.952)  | 0.384                   | +2.60%             |
| Loss Cost | 2013.2     | 0.025 (CI = +/-0.069; p = 0.446)  | -0.384 (CI = +/-0.251; p = 0.005) | -0.001 (CI = +/-0.017; p = 0.948) | 0.335                   | +2.54%             |
| Loss Cost | 2014.1     | 0.000 (CI = +/-0.072; p = 0.989)  | -0.434 (CI = +/-0.244; p = 0.002) | -0.004 (CI = +/-0.017; p = 0.622) | 0.430                   | -0.04%             |
| Loss Cost | 2014.2     | -0.023 (CI = +/-0.076; p = 0.532) | -0.396 (CI = +/-0.242; p = 0.004) | -0.006 (CI = +/-0.016; p = 0.434) | 0.403                   | -2.23%             |
| Loss Cost | 2015.1     | -0.017 (CI = +/-0.090; p = 0.689) | -0.386 (CI = +/-0.264; p = 0.008) | -0.005 (CI = +/-0.018; p = 0.517) | 0.346                   | -1.67%             |
| Loss Cost | 2015.2     | -0.057 (CI = +/-0.086; p = 0.173) | -0.325 (CI = +/-0.233; p = 0.011) | -0.009 (CI = +/-0.015; p = 0.241) | 0.409                   | -5.51%             |
| Loss Cost | 2016.1     | -0.070 (CI = +/-0.103; p = 0.160) | -0.344 (CI = +/-0.255; p = 0.014) | -0.010 (CI = +/-0.017; p = 0.219) | 0.389                   | -6.71%             |
| Loss Cost | 2016.2     | -0.069 (CI = +/-0.125; p = 0.235) | -0.344 (CI = +/-0.286; p = 0.024) | -0.010 (CI = +/-0.019; p = 0.256) | 0.369                   | -6.71%             |
| Loss Cost | 2017.1     | -0.066 (CI = +/-0.156; p = 0.353) | -0.340 (CI = +/-0.329; p = 0.045) | -0.010 (CI = +/-0.021; p = 0.317) | 0.257                   | -6.36%             |
| Severity  | 2003.1     | 0.048 (CI = +/-0.011; p = 0.000)  | 0.089 (CI = +/-0.100; p = 0.081)  | 0.007 (CI = +/-0.008; p = 0.088)  | 0.723                   | +4.89%             |
| Severity  | 2003.2     | 0.047 (CI = +/-0.011; p = 0.000)  | 0.094 (CI = +/-0.102; p = 0.071)  | 0.006 (CI = +/-0.008; p = 0.106)  | 0.703                   | +4.78%             |
| Severity  | 2004.1     | 0.049 (CI = +/-0.012; p = 0.000)  | 0.106 (CI = +/-0.102; p = 0.043)  | 0.007 (CI = +/-0.008; p = 0.073)  | 0.712                   | +5.03%             |
| Severity  | 2004.2     | 0.048 (CI = +/-0.012; p = 0.000)  | 0.109 (CI = +/-0.105; p = 0.043)  | 0.007 (CI = +/-0.008; p = 0.085)  | 0.693                   | +4.96%             |
| Severity  | 2005.1     | 0.047 (CI = +/-0.013; p = 0.000)  | 0.103 (CI = +/-0.108; p = 0.060)  | 0.007 (CI = +/-0.008; p = 0.107)  | 0.658                   | +4.84%             |
| Severity  | 2005.2     | 0.047 (CI = +/-0.014; p = 0.000)  | 0.103 (CI = +/-0.111; p = 0.069)  | 0.007 (CI = +/-0.008; p = 0.114)  | 0.641                   | +4.84%             |
| Severity  | 2006.1     | 0.050 (CI = +/-0.015; p = 0.000)  | 0.113 (CI = +/-0.113; p = 0.051)  | 0.007 (CI = +/-0.008; p = 0.090)  | 0.639                   | +5.08%             |
| Severity  | 2006.2     | 0.043 (CI = +/-0.013; p = 0.000)  | 0.141 (CI = +/-0.098; p = 0.006)  | 0.006 (CI = +/-0.007; p = 0.111)  | 0.660                   | +4.35%             |
| Severity  | 2007.1     | 0.042 (CI = +/-0.014; p = 0.000)  | 0.138 (CI = +/-0.101; p = 0.009)  | 0.006 (CI = +/-0.007; p = 0.135)  | 0.616                   | +4.26%             |
| Severity  | 2007.2     | 0.039 (CI = +/-0.015; p = 0.000)  | 0.149 (CI = +/-0.101; p = 0.006)  | 0.005 (CI = +/-0.007; p = 0.177)  | 0.596                   | +3.94%             |
| Severity  | 2008.1     | 0.039 (CI = +/-0.016; p = 0.000)  | 0.151 (CI = +/-0.105; p = 0.007)  | 0.005 (CI = +/-0.008; p = 0.182)  | 0.560                   | +3.99%             |
| Severity  | 2008.2     | 0.035 (CI = +/-0.017; p = 0.000)  | 0.163 (CI = +/-0.105; p = 0.004)  | 0.004 (CI = +/-0.008; p = 0.242)  | 0.542                   | +3.60%             |
| Severity  | 2009.1     | 0.038 (CI = +/-0.018; p = 0.000)  | 0.171 (CI = +/-0.109; p = 0.004)  | 0.005 (CI = +/-0.008; p = 0.209)  | 0.528                   | +3.83%             |
| Severity  | 2009.2     | 0.031 (CI = +/-0.017; p = 0.001)  | 0.193 (CI = +/-0.101; p = 0.001)  | 0.004 (CI = +/-0.007; p = 0.297)  | 0.547                   | +3.10%             |
| Severity  | 2010.1     | 0.035 (CI = +/-0.018; p = 0.001)  | 0.208 (CI = +/-0.100; p = 0.000)  | 0.005 (CI = +/-0.007; p = 0.186)  | 0.585                   | +3.61%             |
| Severity  | 2010.2     | 0.043 (CI = +/-0.017; p = 0.000)  | 0.187 (CI = +/-0.091; p = 0.000)  | 0.006 (CI = +/-0.006; p = 0.071)  | 0.676                   | +4.40%             |
| Severity  | 2011.1     | 0.039 (CI = +/-0.018; p = 0.000)  | 0.174 (CI = +/-0.092; p = 0.001)  | 0.005 (CI = +/-0.006; p = 0.118)  | 0.604                   | +3.93%             |
| Severity  | 2011.2     | 0.035 (CI = +/-0.020; p = 0.002)  | 0.184 (CI = +/-0.094; p = 0.001)  | 0.004 (CI = +/-0.006; p = 0.165)  | 0.596                   | +3.53%             |
| Severity  | 2012.1     | 0.037 (CI = +/-0.022; p = 0.002)  | 0.190 (CI = +/-0.098; p = 0.001)  | 0.005 (CI = +/-0.007; p = 0.147)  | 0.571                   | +3.80%             |
| Severity  | 2012.2     | 0.043 (CI = +/-0.024; p = 0.001)  | 0.177 (CI = +/-0.099; p = 0.002)  | 0.006 (CI = +/-0.007; p = 0.097)  | 0.609                   | +4.40%             |
| Severity  | 2013.1     | 0.044 (CI = +/-0.027; p = 0.004)  | 0.179 (CI = +/-0.105; p = 0.003)  | 0.006 (CI = +/-0.007; p = 0.112)  | 0.547                   | +4.46%             |
| Severity  | 2013.2     | 0.042 (CI = +/-0.031; p = 0.011)  | 0.183 (CI = +/-0.112; p = 0.004)  | 0.005 (CI = +/-0.008; p = 0.144)  | 0.532                   | +4.25%             |
| Severity  | 2014.1     | 0.038 (CI = +/-0.035; p = 0.037)  | 0.175 (CI = +/-0.120; p = 0.008)  | 0.005 (CI = +/-0.008; p = 0.208)  | 0.421                   | +3.85%             |
| Severity  | 2014.2     | 0.047 (CI = +/-0.039; p = 0.022)  | 0.159 (CI = +/-0.122; p = 0.015)  | 0.006 (CI = +/-0.008; p = 0.147)  | 0.465                   | +4.78%             |
| Severity  | 2015.1     | 0.048 (CI = +/-0.046; p = 0.043)  | 0.161 (CI = +/-0.134; p = 0.023)  | 0.006 (CI = +/-0.009; p = 0.173)  | 0.374                   | +4.87%             |
| Severity  | 2015.2     | 0.040 (CI = +/-0.053; p = 0.122)  | 0.172 (CI = +/-0.143; p = 0.023)  | 0.005 (CI = +/-0.009; p = 0.239)  | 0.360                   | +4.08%             |
| Severity  | 2016.1     | 0.029 (CI = +/-0.062; p = 0.321)  | 0.156 (CI = +/-0.153; p = 0.047)  | 0.004 (CI = +/-0.010; p = 0.365)  | 0.193                   | +2.91%             |
| Severity  | 2016.2     | 0.041 (CI = +/-0.072; p = 0.226)  | 0.139 (CI = +/-0.165; p = 0.087)  | 0.005 (CI = +/-0.011; p = 0.310)  | 0.192                   | +4.16%             |
| Severity  | 2017.1     | 0.028 (CI = +/-0.087; p = 0.473)  | 0.122 (CI = +/-0.183; p = 0.157)  | 0.004 (CI = +/-0.012; p = 0.434)  | -0.015                  | +2.82%             |
| Frequency | 2003.1     | 0.009 (CI = +/-0.020; p = 0.393)  | -0.551 (CI = +/-0.191; p = 0.000) | -0.004 (CI = +/-0.015; p = 0.613) | 0.466                   | +0.87%             |
| Frequency | 2003.2     | 0.012 (CI = +/-0.021; p = 0.257)  | -0.568 (CI = +/-0.193; p = 0.000) | -0.003 (CI = +/-0.015; p = 0.693) | 0.483                   | +1.20%             |
| Frequency | 2004.1     | 0.012 (CI = +/-0.022; p = 0.283)  | -0.568 (CI = +/-0.199; p = 0.000) | -0.003 (CI = +/-0.015; p = 0.702) | 0.479                   | +1.21%             |
| Frequency | 2004.2     | 0.016 (CI = +/-0.023; p = 0.174)  | -0.586 (CI = +/-0.201; p = 0.000) | -0.002 (CI = +/-0.015; p = 0.794) | 0.499                   | +1.61%             |
| Frequency | 2005.1     | 0.013 (CI = +/-0.025; p = 0.299)  | -0.601 (CI = +/-0.205; p = 0.000) | -0.003 (CI = +/-0.015; p = 0.710) | 0.508                   | +1.29%             |
| Frequency | 2005.2     | 0.017 (CI = +/-0.026; p = 0.198)  | -0.618 (CI = +/-0.208; p = 0.000) | -0.002 (CI = +/-0.015; p = 0.796) | 0.522                   | +1.69%             |
| Frequency | 2006.1     | 0.013 (CI = +/-0.028; p = 0.325)  | -0.632 (CI = +/-0.213; p = 0.000) | -0.003 (CI = +/-0.016; p = 0.718) | 0.530                   | +1.36%             |
| Frequency | 2006.2     | 0.020 (CI = +/-0.029; p = 0.169)  | -0.657 (CI = +/-0.213; p = 0.000) | -0.002 (CI = +/-0.016; p = 0.841) | 0.560                   | +1.99%             |
| Frequency | 2007.1     | 0.023 (CI = +/-0.031; p = 0.135)  | -0.644 (CI = +/-0.219; p = 0.000) | -0.001 (CI = +/-0.016; p = 0.925) | 0.556                   | +2.32%             |
| Frequency | 2007.2     | 0.034 (CI = +/-0.030; p = 0.027)  | -0.685 (CI = +/-0.206; p = 0.000) | 0.001 (CI = +/-0.015; p = 0.848)  | 0.633                   | +3.46%             |
| Frequency | 2008.1     | 0.035 (CI = +/-0.032; p = 0.034)  | -0.680 (CI = +/-0.214; p = 0.000) | 0.002 (CI = +/-0.015; p = 0.823)  | 0.631                   | +3.59%             |
| Frequency | 2008.2     | 0.039 (CI = +/-0.035; p = 0.028)  | -0.694 (CI = +/-0.220; p = 0.000) | 0.002 (CI = +/-0.016; p = 0.753)  | 0.628                   | +4.01%             |
| Frequency | 2009.1     | 0.034 (CI = +/-0.037; p = 0.074)  | -0.714 (CI = +/-0.226; p = 0.000) | 0.001 (CI = +/-0.016; p = 0.875)  | 0.637                   | +3.43%             |
| Frequency | 2009.2     | 0.026 (CI = +/-0.040; p = 0.183)  | -0.690 (CI = +/-0.229; p = 0.000) | 0.000 (CI = +/-0.016; p = 0.998)  | 0.604                   | +2.66%             |
| Frequency | 2010.1     | 0.023 (CI = +/-0.043; p = 0.275)  | -0.699 (CI = +/-0.240; p = 0.000) | -0.001 (CI = +/-0.017; p = 0.944) | 0.604                   | +2.37%             |
| Frequency | 2010.2     | 0.011 (CI = +/-0.045; p = 0.604)  | -0.665 (CI = +/-0.237; p = 0.000) | -0.002 (CI = +/-0.017; p = 0.763) | 0.578                   | +1.15%             |
| Frequency | 2011.1     | 0.017 (CI = +/-0.050; p = 0.482)  | -0.649 (CI = +/-0.248; p = 0.000) | -0.001 (CI = +/-0.017; p = 0.866) | 0.565                   | +1.72%             |
| Frequency | 2011.2     | 0.010 (CI = +/-0.054; p = 0.713)  | -0.630 (CI = +/-0.257; p = 0.000) | -0.002 (CI = +/-0.018; p = 0.774) | 0.531                   | +0.97%             |
| Frequency | 2012.1     | -0.003 (CI = +/-0.059; p = 0.913) | -0.663 (CI = +/-0.262; p = 0.000) | -0.005 (CI = +/-0.018; p = 0.601) | 0.561                   | -0.31%             |
| Frequency | 2012.2     | -0.033 (CI = +/-0.053; p = 0.211) | -0.597 (CI = +/-0.221; p = 0.000) | -0.008 (CI = +/-0.015; p = 0.261) | 0.624                   | -3.20%             |
| Frequency | 2013.1     | -0.018 (CI = +/-0.057; p = 0.514) | -0.564 (CI = +/-0.224; p = 0.000) | -0.006 (CI = +/-0.015; p = 0.405) | 0.589                   | -1.78%             |
| Frequency | 2013.2     | -0.017 (CI = +/-0.065; p = 0.595) | -0.567 (CI = +/-0.239; p = 0.000) | -0.006 (CI = +/-0.016; p = 0.441) | 0.576                   | -1.64%             |
| Frequency | 2014.1     | -0.038 (CI = +/-0.070; p = 0.259) | -0.609 (CI = +/-0.238; p = 0.000) | -0.009 (CI = +/-0.016; p = 0.258) | 0.635                   | -3.75%             |
| Frequency | 2014.2     | -0.069 (CI = +/-0.067; p = 0.043) | -0.555 (CI = +/-0.212; p = 0.000) | -0.012 (CI = +/-0.014; p = 0.094) | 0.701                   | -6.69%             |
| Frequency | 2015.1     | -0.064 (CI = +/-0.079; p = 0.101) | -0.547 (CI = +/-0.231; p = 0.000) | -0.011 (CI = +/-0.015; p = 0.136) | 0.646                   | -6.23%             |
| Frequency | 2015.2     | -0.097 (CI = +/-0.078; p = 0.020) | -0.498 (CI = +/-0.211; p = 0.000) | -0.014 (CI = +/-0.014; p = 0.051) | 0.715                   | -9.21%             |
| Frequency | 2016.1     | -0.098 (CI = +/-0.095; p = 0.044) | -0.500 (CI = +/-0.236; p = 0.001) | -0.014 (CI = +/-0.016; p = 0.071) | 0.657                   | -9.35%             |
| Frequency | 2016.2     | -0.110 (CI = +/-0.113; p = 0.055) | -0.483 (CI = +/-0.260; p = 0.003) | -0.015 (CI = +/-0.017; p = 0.077) | 0.652                   | -10.44%            |
| Frequency | 2017.1     | -0.094 (CI = +/-0.139; p = 0.155) | -0.462 (CI = +/-0.292; p = 0.007) | -0.014 (CI = +/-0.019; p = 0.127) | 0.552                   | -8.93%             |

**Specified Perils**

Coverage = SP  
 End Trend Period = 2022.1  
 Excluded Points = 2006.1  
 Parameters Included: time, seasonality, mobility

| Fit       | Start Date | Time                              | Seasonality                       | Mobility                          | Adjusted R <sup>2</sup> | Implied Trend Rate |
|-----------|------------|-----------------------------------|-----------------------------------|-----------------------------------|-------------------------|--------------------|
| Loss Cost | 2003.1     | 0.055 (CI = +/-0.019; p = 0.000)  | -0.456 (CI = +/-0.180; p = 0.000) | 0.003 (CI = +/-0.014; p = 0.681)  | 0.648                   | +5.71%             |
| Loss Cost | 2003.2     | 0.058 (CI = +/-0.020; p = 0.000)  | -0.468 (CI = +/-0.184; p = 0.000) | 0.003 (CI = +/-0.014; p = 0.627)  | 0.638                   | +5.95%             |
| Loss Cost | 2004.1     | 0.060 (CI = +/-0.021; p = 0.000)  | -0.457 (CI = +/-0.188; p = 0.000) | 0.004 (CI = +/-0.014; p = 0.562)  | 0.643                   | +6.21%             |
| Loss Cost | 2004.2     | 0.064 (CI = +/-0.023; p = 0.000)  | -0.473 (CI = +/-0.191; p = 0.000) | 0.005 (CI = +/-0.014; p = 0.493)  | 0.639                   | +6.58%             |
| Loss Cost | 2005.1     | 0.059 (CI = +/-0.024; p = 0.000)  | -0.492 (CI = +/-0.192; p = 0.000) | 0.004 (CI = +/-0.014; p = 0.614)  | 0.635                   | +6.08%             |
| Loss Cost | 2005.2     | 0.063 (CI = +/-0.025; p = 0.000)  | -0.512 (CI = +/-0.195; p = 0.000) | 0.005 (CI = +/-0.014; p = 0.524)  | 0.636                   | +6.55%             |
| Loss Cost | 2006.2     | 0.062 (CI = +/-0.027; p = 0.000)  | -0.516 (CI = +/-0.201; p = 0.000) | 0.004 (CI = +/-0.015; p = 0.563)  | 0.629                   | +6.42%             |
| Loss Cost | 2007.1     | 0.065 (CI = +/-0.029; p = 0.000)  | -0.506 (CI = +/-0.207; p = 0.000) | 0.005 (CI = +/-0.015; p = 0.520)  | 0.631                   | +6.68%             |
| Loss Cost | 2007.2     | 0.073 (CI = +/-0.029; p = 0.000)  | -0.536 (CI = +/-0.203; p = 0.000) | 0.006 (CI = +/-0.015; p = 0.383)  | 0.664                   | +7.54%             |
| Loss Cost | 2008.1     | 0.074 (CI = +/-0.032; p = 0.000)  | -0.530 (CI = +/-0.211; p = 0.000) | 0.007 (CI = +/-0.015; p = 0.369)  | 0.663                   | +7.73%             |
| Loss Cost | 2008.2     | 0.075 (CI = +/-0.035; p = 0.000)  | -0.531 (CI = +/-0.219; p = 0.000) | 0.007 (CI = +/-0.016; p = 0.379)  | 0.628                   | +7.76%             |
| Loss Cost | 2009.1     | 0.071 (CI = +/-0.038; p = 0.001)  | -0.543 (CI = +/-0.228; p = 0.000) | 0.006 (CI = +/-0.016; p = 0.446)  | 0.622                   | +7.39%             |
| Loss Cost | 2009.2     | 0.057 (CI = +/-0.036; p = 0.004)  | -0.497 (CI = +/-0.211; p = 0.000) | 0.004 (CI = +/-0.015; p = 0.618)  | 0.573                   | +5.84%             |
| Loss Cost | 2010.1     | 0.059 (CI = +/-0.040; p = 0.006)  | -0.491 (CI = +/-0.221; p = 0.000) | 0.004 (CI = +/-0.016; p = 0.594)  | 0.572                   | +6.06%             |
| Loss Cost | 2010.2     | 0.054 (CI = +/-0.044; p = 0.017)  | -0.478 (CI = +/-0.230; p = 0.000) | 0.003 (CI = +/-0.016; p = 0.666)  | 0.511                   | +5.60%             |
| Loss Cost | 2011.1     | 0.056 (CI = +/-0.049; p = 0.027)  | -0.475 (CI = +/-0.242; p = 0.001) | 0.004 (CI = +/-0.017; p = 0.661)  | 0.508                   | +5.72%             |
| Loss Cost | 2011.2     | 0.044 (CI = +/-0.052; p = 0.090)  | -0.447 (CI = +/-0.245; p = 0.001) | 0.002 (CI = +/-0.017; p = 0.807)  | 0.427                   | +4.54%             |
| Loss Cost | 2012.1     | 0.034 (CI = +/-0.057; p = 0.224)  | -0.472 (CI = +/-0.253; p = 0.001) | 0.000 (CI = +/-0.017; p = 0.970)  | 0.440                   | +3.47%             |
| Loss Cost | 2012.2     | 0.011 (CI = +/-0.055; p = 0.693)  | -0.419 (CI = +/-0.232; p = 0.001) | -0.003 (CI = +/-0.016; p = 0.723) | 0.387                   | +1.06%             |
| Loss Cost | 2013.1     | 0.026 (CI = +/-0.060; p = 0.377)  | -0.385 (CI = +/-0.235; p = 0.003) | 0.000 (CI = +/-0.016; p = 0.952)  | 0.384                   | +2.60%             |
| Loss Cost | 2013.2     | 0.025 (CI = +/-0.069; p = 0.446)  | -0.384 (CI = +/-0.251; p = 0.005) | -0.001 (CI = +/-0.017; p = 0.948) | 0.335                   | +2.54%             |
| Loss Cost | 2014.1     | 0.000 (CI = +/-0.072; p = 0.989)  | -0.434 (CI = +/-0.244; p = 0.002) | -0.004 (CI = +/-0.017; p = 0.622) | 0.430                   | -0.04%             |
| Loss Cost | 2014.2     | -0.023 (CI = +/-0.076; p = 0.532) | -0.396 (CI = +/-0.242; p = 0.004) | -0.006 (CI = +/-0.016; p = 0.434) | 0.403                   | -2.23%             |
| Loss Cost | 2015.1     | -0.017 (CI = +/-0.090; p = 0.689) | -0.386 (CI = +/-0.264; p = 0.008) | -0.005 (CI = +/-0.018; p = 0.517) | 0.346                   | -1.67%             |
| Loss Cost | 2015.2     | -0.057 (CI = +/-0.086; p = 0.173) | -0.325 (CI = +/-0.233; p = 0.011) | -0.009 (CI = +/-0.015; p = 0.241) | 0.409                   | -5.51%             |
| Loss Cost | 2016.1     | -0.070 (CI = +/-0.103; p = 0.160) | -0.344 (CI = +/-0.255; p = 0.014) | -0.010 (CI = +/-0.017; p = 0.219) | 0.389                   | -6.71%             |
| Loss Cost | 2016.2     | -0.069 (CI = +/-0.125; p = 0.235) | -0.344 (CI = +/-0.286; p = 0.024) | -0.010 (CI = +/-0.019; p = 0.256) | 0.369                   | -6.71%             |
| Loss Cost | 2017.1     | -0.066 (CI = +/-0.156; p = 0.353) | -0.340 (CI = +/-0.329; p = 0.045) | -0.010 (CI = +/-0.021; p = 0.317) | 0.257                   | -6.36%             |
| Severity  | 2003.1     | 0.045 (CI = +/-0.009; p = 0.000)  | 0.112 (CI = +/-0.089; p = 0.015)  | 0.006 (CI = +/-0.007; p = 0.070)  | 0.757                   | +4.59%             |
| Severity  | 2003.2     | 0.043 (CI = +/-0.010; p = 0.000)  | 0.121 (CI = +/-0.090; p = 0.010)  | 0.006 (CI = +/-0.007; p = 0.090)  | 0.741                   | +4.41%             |
| Severity  | 2004.1     | 0.045 (CI = +/-0.010; p = 0.000)  | 0.130 (CI = +/-0.090; p = 0.006)  | 0.006 (CI = +/-0.007; p = 0.062)  | 0.747                   | +4.63%             |
| Severity  | 2004.2     | 0.044 (CI = +/-0.011; p = 0.000)  | 0.138 (CI = +/-0.091; p = 0.004)  | 0.006 (CI = +/-0.007; p = 0.079)  | 0.730                   | +4.47%             |
| Severity  | 2005.1     | 0.042 (CI = +/-0.011; p = 0.000)  | 0.131 (CI = +/-0.093; p = 0.007)  | 0.006 (CI = +/-0.007; p = 0.109)  | 0.692                   | +4.28%             |
| Severity  | 2005.2     | 0.041 (CI = +/-0.012; p = 0.000)  | 0.135 (CI = +/-0.096; p = 0.007)  | 0.005 (CI = +/-0.007; p = 0.131)  | 0.672                   | +4.17%             |
| Severity  | 2006.2     | 0.043 (CI = +/-0.013; p = 0.000)  | 0.141 (CI = +/-0.098; p = 0.006)  | 0.006 (CI = +/-0.007; p = 0.111)  | 0.660                   | +4.35%             |
| Severity  | 2007.1     | 0.042 (CI = +/-0.014; p = 0.000)  | 0.138 (CI = +/-0.101; p = 0.009)  | 0.006 (CI = +/-0.007; p = 0.135)  | 0.616                   | +4.26%             |
| Severity  | 2007.2     | 0.039 (CI = +/-0.015; p = 0.000)  | 0.149 (CI = +/-0.101; p = 0.006)  | 0.005 (CI = +/-0.007; p = 0.177)  | 0.596                   | +3.94%             |
| Severity  | 2008.1     | 0.039 (CI = +/-0.016; p = 0.000)  | 0.151 (CI = +/-0.105; p = 0.007)  | 0.005 (CI = +/-0.008; p = 0.182)  | 0.560                   | +3.99%             |
| Severity  | 2008.2     | 0.035 (CI = +/-0.017; p = 0.000)  | 0.163 (CI = +/-0.105; p = 0.004)  | 0.004 (CI = +/-0.008; p = 0.242)  | 0.542                   | +3.60%             |
| Severity  | 2009.1     | 0.038 (CI = +/-0.018; p = 0.000)  | 0.171 (CI = +/-0.109; p = 0.004)  | 0.005 (CI = +/-0.008; p = 0.209)  | 0.528                   | +3.83%             |
| Severity  | 2009.2     | 0.031 (CI = +/-0.017; p = 0.001)  | 0.193 (CI = +/-0.101; p = 0.001)  | 0.004 (CI = +/-0.007; p = 0.297)  | 0.547                   | +3.10%             |
| Severity  | 2010.1     | 0.035 (CI = +/-0.018; p = 0.001)  | 0.208 (CI = +/-0.100; p = 0.000)  | 0.005 (CI = +/-0.007; p = 0.186)  | 0.585                   | +3.61%             |
| Severity  | 2010.2     | 0.043 (CI = +/-0.017; p = 0.000)  | 0.187 (CI = +/-0.091; p = 0.000)  | 0.006 (CI = +/-0.006; p = 0.071)  | 0.676                   | +4.40%             |
| Severity  | 2011.1     | 0.039 (CI = +/-0.018; p = 0.000)  | 0.174 (CI = +/-0.092; p = 0.001)  | 0.005 (CI = +/-0.006; p = 0.118)  | 0.604                   | +3.93%             |
| Severity  | 2011.2     | 0.035 (CI = +/-0.020; p = 0.002)  | 0.184 (CI = +/-0.094; p = 0.001)  | 0.004 (CI = +/-0.006; p = 0.165)  | 0.596                   | +3.53%             |
| Severity  | 2012.1     | 0.037 (CI = +/-0.022; p = 0.002)  | 0.190 (CI = +/-0.098; p = 0.001)  | 0.005 (CI = +/-0.007; p = 0.147)  | 0.571                   | +3.80%             |
| Severity  | 2012.2     | 0.043 (CI = +/-0.024; p = 0.001)  | 0.177 (CI = +/-0.099; p = 0.002)  | 0.006 (CI = +/-0.007; p = 0.097)  | 0.609                   | +4.40%             |
| Severity  | 2013.1     | 0.044 (CI = +/-0.027; p = 0.004)  | 0.179 (CI = +/-0.105; p = 0.003)  | 0.006 (CI = +/-0.007; p = 0.112)  | 0.547                   | +4.46%             |
| Severity  | 2013.2     | 0.042 (CI = +/-0.031; p = 0.011)  | 0.183 (CI = +/-0.112; p = 0.004)  | 0.005 (CI = +/-0.008; p = 0.144)  | 0.532                   | +4.25%             |
| Severity  | 2014.1     | 0.038 (CI = +/-0.035; p = 0.037)  | 0.175 (CI = +/-0.120; p = 0.008)  | 0.005 (CI = +/-0.008; p = 0.208)  | 0.421                   | +3.85%             |
| Severity  | 2014.2     | 0.047 (CI = +/-0.039; p = 0.022)  | 0.159 (CI = +/-0.122; p = 0.015)  | 0.006 (CI = +/-0.008; p = 0.147)  | 0.465                   | +4.78%             |
| Severity  | 2015.1     | 0.048 (CI = +/-0.046; p = 0.043)  | 0.161 (CI = +/-0.134; p = 0.023)  | 0.006 (CI = +/-0.009; p = 0.173)  | 0.374                   | +4.87%             |
| Severity  | 2015.2     | 0.040 (CI = +/-0.053; p = 0.122)  | 0.172 (CI = +/-0.143; p = 0.023)  | 0.005 (CI = +/-0.009; p = 0.239)  | 0.360                   | +4.08%             |
| Severity  | 2016.1     | 0.029 (CI = +/-0.062; p = 0.321)  | 0.156 (CI = +/-0.153; p = 0.047)  | 0.004 (CI = +/-0.010; p = 0.365)  | 0.193                   | +2.91%             |
| Severity  | 2016.2     | 0.041 (CI = +/-0.072; p = 0.226)  | 0.139 (CI = +/-0.165; p = 0.087)  | 0.005 (CI = +/-0.011; p = 0.310)  | 0.192                   | +4.16%             |
| Severity  | 2017.1     | 0.028 (CI = +/-0.087; p = 0.473)  | 0.122 (CI = +/-0.183; p = 0.157)  | 0.004 (CI = +/-0.012; p = 0.434)  | -0.015                  | +2.82%             |
| Frequency | 2003.1     | 0.011 (CI = +/-0.021; p = 0.303)  | -0.568 (CI = +/-0.194; p = 0.000) | -0.003 (CI = +/-0.015; p = 0.641) | 0.482                   | +1.06%             |
| Frequency | 2003.2     | 0.015 (CI = +/-0.021; p = 0.174)  | -0.589 (CI = +/-0.195; p = 0.000) | -0.002 (CI = +/-0.015; p = 0.737) | 0.505                   | +1.47%             |
| Frequency | 2004.1     | 0.015 (CI = +/-0.023; p = 0.191)  | -0.587 (CI = +/-0.201; p = 0.000) | -0.002 (CI = +/-0.015; p = 0.754) | 0.501                   | +1.51%             |
| Frequency | 2004.2     | 0.020 (CI = +/-0.024; p = 0.097)  | -0.611 (CI = +/-0.202; p = 0.000) | -0.001 (CI = +/-0.015; p = 0.870) | 0.527                   | +2.02%             |
| Frequency | 2005.1     | 0.017 (CI = +/-0.025; p = 0.179)  | -0.623 (CI = +/-0.206; p = 0.000) | -0.002 (CI = +/-0.015; p = 0.791) | 0.534                   | +1.72%             |
| Frequency | 2005.2     | 0.023 (CI = +/-0.027; p = 0.094)  | -0.647 (CI = +/-0.208; p = 0.000) | -0.001 (CI = +/-0.015; p = 0.914) | 0.556                   | +2.28%             |
| Frequency | 2006.2     | 0.020 (CI = +/-0.029; p = 0.169)  | -0.657 (CI = +/-0.213; p = 0.000) | -0.002 (CI = +/-0.016; p = 0.841) | 0.560                   | +1.99%             |
| Frequency | 2007.1     | 0.023 (CI = +/-0.031; p = 0.135)  | -0.644 (CI = +/-0.219; p = 0.000) | -0.001 (CI = +/-0.016; p = 0.925) | 0.556                   | +2.32%             |
| Frequency | 2007.2     | 0.034 (CI = +/-0.030; p = 0.027)  | -0.685 (CI = +/-0.206; p = 0.000) | 0.001 (CI = +/-0.015; p = 0.848)  | 0.633                   | +3.46%             |
| Frequency | 2008.1     | 0.035 (CI = +/-0.032; p = 0.034)  | -0.680 (CI = +/-0.214; p = 0.000) | 0.002 (CI = +/-0.015; p = 0.823)  | 0.631                   | +3.59%             |
| Frequency | 2008.2     | 0.039 (CI = +/-0.035; p = 0.028)  | -0.694 (CI = +/-0.220; p = 0.000) | 0.002 (CI = +/-0.016; p = 0.753)  | 0.628                   | +4.01%             |
| Frequency | 2009.1     | 0.034 (CI = +/-0.037; p = 0.074)  | -0.714 (CI = +/-0.226; p = 0.000) | 0.001 (CI = +/-0.016; p = 0.875)  | 0.637                   | +3.43%             |
| Frequency | 2009.2     | 0.026 (CI = +/-0.040; p = 0.183)  | -0.690 (CI = +/-0.229; p = 0.000) | 0.000 (CI = +/-0.016; p = 0.998)  | 0.604                   | +2.66%             |
| Frequency | 2010.1     | 0.023 (CI = +/-0.043; p = 0.275)  | -0.699 (CI = +/-0.240; p = 0.000) | -0.001 (CI = +/-0.017; p = 0.944) | 0.604                   | +2.37%             |
| Frequency | 2010.2     | 0.011 (CI = +/-0.045; p = 0.604)  | -0.665 (CI = +/-0.237; p = 0.000) | -0.002 (CI = +/-0.017; p = 0.763) | 0.578                   | +1.15%             |
| Frequency | 2011.1     | 0.017 (CI = +/-0.050; p = 0.482)  | -0.649 (CI = +/-0.248; p = 0.000) | -0.001 (CI = +/-0.017; p = 0.866) | 0.565                   | +1.72%             |
| Frequency | 2011.2     | 0.010 (CI = +/-0.054; p = 0.713)  | -0.630 (CI = +/-0.257; p = 0.000) | -0.002 (CI = +/-0.018; p = 0.774) | 0.531                   | +0.97%             |
| Frequency | 2012.1     | -0.003 (CI = +/-0.059; p = 0.913) | -0.663 (CI = +/-0.262; p = 0.000) | -0.005 (CI = +/-0.018; p = 0.601) | 0.561                   | -0.31%             |
| Frequency | 2012.2     | -0.033 (CI = +/-0.053; p = 0.211) | -0.597 (CI = +/-0.221; p = 0.000) | -0.008 (CI = +/-0.015; p = 0.261) | 0.624                   | -3.20%             |
| Frequency | 2013.1     | -0.018 (CI = +/-0.057; p = 0.514) | -0.564 (CI = +/-0.224; p = 0.000) | -0.006 (CI = +/-0.015; p = 0.405) | 0.589                   | -1.78%             |
| Frequency | 2013.2     | -0.017 (CI = +/-0.065; p = 0.595) | -0.567 (CI = +/-0.239; p = 0.000) | -0.006 (CI = +/-0.016; p = 0.441) | 0.576                   | -1.64%             |
| Frequency | 2014.1     | -0.038 (CI = +/-0.070; p = 0.259) | -0.609 (CI = +/-0.238; p = 0.000) | -0.009 (CI = +/-0.016; p = 0.258) | 0.635                   | -3.75%             |
| Frequency | 2014.2     | -0.069 (CI = +/-0.067; p = 0.043) | -0.555 (CI = +/-0.212; p = 0.000) | -0.012 (CI = +/-0.014; p = 0.094) | 0.701                   | -6.69%             |
| Frequency | 2015.1     | -0.064 (CI = +/-0.079; p = 0.101) | -0.547 (CI = +/-0.231; p = 0.000) | -0.011 (CI = +/-0.015; p = 0.136) | 0.646                   | -6.23%             |
| Frequency | 2015.2     | -0.097 (CI = +/-0.078; p = 0.020) | -0.498 (CI = +/-0.211; p = 0.000) | -0.014 (CI = +/-0.014; p = 0.051) | 0.715                   | -9.21%             |
| Frequency | 2016.1     | -0.098 (CI = +/-0.095; p = 0.044) | -0.500 (CI = +/-0.236; p = 0.001) | -0.014 (CI = +/-0.016; p = 0.071) | 0.657                   | -9.35%             |
| Frequency | 2016.2     | -0.110 (CI = +/-0.113; p = 0.055) | -0.483 (CI = +/-0.260; p = 0.003) | -0.015 (CI = +/-0.017; p = 0.077) | 0.652                   | -10.44%            |
| Frequency | 2017.1     | -0.094 (CI = +/-0.139; p = 0.155) | -0.462 (CI = +/-0.292; p = 0.007) | -0.014 (CI = +/-0.019; p = 0.127) | 0.552                   | -8.93%             |

**Underinsured Motorists**

Coverage = UM  
End Trend Period = 2022.1  
Excluded Points = NA  
Parameters Included: time, mobility

| Fit       | Start Date | Time                              | Mobility                         | Adjusted R^2 | Implied Trend |
|-----------|------------|-----------------------------------|----------------------------------|--------------|---------------|
|           |            |                                   |                                  |              | Rate          |
| Loss Cost | 2003.1     | 0.036 (CI = +/-0.033; p = 0.038)  | 0.020 (CI = +/-0.024; p = 0.107) | 0.072        | +3.62%        |
| Loss Cost | 2003.2     | 0.026 (CI = +/-0.034; p = 0.128)  | 0.017 (CI = +/-0.023; p = 0.147) | 0.026        | +2.60%        |
| Loss Cost | 2004.1     | 0.028 (CI = +/-0.036; p = 0.124)  | 0.018 (CI = +/-0.024; p = 0.144) | 0.028        | +2.80%        |
| Loss Cost | 2004.2     | 0.028 (CI = +/-0.038; p = 0.148)  | 0.018 (CI = +/-0.024; p = 0.153) | 0.021        | +2.79%        |
| Loss Cost | 2005.1     | 0.028 (CI = +/-0.040; p = 0.169)  | 0.018 (CI = +/-0.025; p = 0.160) | 0.017        | +2.83%        |
| Loss Cost | 2005.2     | 0.033 (CI = +/-0.043; p = 0.120)  | 0.019 (CI = +/-0.025; p = 0.137) | 0.032        | +3.39%        |
| Loss Cost | 2006.1     | 0.044 (CI = +/-0.044; p = 0.048)  | 0.022 (CI = +/-0.025; p = 0.089) | 0.078        | +4.51%        |
| Loss Cost | 2006.2     | 0.055 (CI = +/-0.045; p = 0.019)  | 0.024 (CI = +/-0.025; p = 0.056) | 0.130        | +5.65%        |
| Loss Cost | 2007.1     | 0.066 (CI = +/-0.047; p = 0.007)  | 0.026 (CI = +/-0.024; p = 0.034) | 0.184        | +6.82%        |
| Loss Cost | 2007.2     | 0.056 (CI = +/-0.049; p = 0.026)  | 0.024 (CI = +/-0.024; p = 0.050) | 0.125        | +5.79%        |
| Loss Cost | 2008.1     | 0.070 (CI = +/-0.050; p = 0.008)  | 0.027 (CI = +/-0.024; p = 0.027) | 0.193        | +7.25%        |
| Loss Cost | 2008.2     | 0.069 (CI = +/-0.055; p = 0.016)  | 0.027 (CI = +/-0.025; p = 0.034) | 0.166        | +7.12%        |
| Loss Cost | 2009.1     | 0.067 (CI = +/-0.059; p = 0.029)  | 0.027 (CI = +/-0.026; p = 0.042) | 0.139        | +6.94%        |
| Loss Cost | 2009.2     | 0.071 (CI = +/-0.065; p = 0.034)  | 0.027 (CI = +/-0.026; p = 0.043) | 0.135        | +7.33%        |
| Loss Cost | 2010.1     | 0.082 (CI = +/-0.070; p = 0.023)  | 0.029 (CI = +/-0.027; p = 0.034) | 0.165        | +8.55%        |
| Loss Cost | 2010.2     | 0.096 (CI = +/-0.075; p = 0.014)  | 0.032 (CI = +/-0.027; p = 0.025) | 0.204        | +10.10%       |
| Loss Cost | 2011.1     | 0.082 (CI = +/-0.081; p = 0.048)  | 0.029 (CI = +/-0.028; p = 0.040) | 0.140        | +8.50%        |
| Loss Cost | 2011.2     | 0.065 (CI = +/-0.087; p = 0.139)  | 0.027 (CI = +/-0.028; p = 0.063) | 0.086        | +6.67%        |
| Loss Cost | 2012.1     | 0.089 (CI = +/-0.093; p = 0.058)  | 0.030 (CI = +/-0.028; p = 0.036) | 0.151        | +9.33%        |
| Loss Cost | 2012.2     | 0.087 (CI = +/-0.104; p = 0.098)  | 0.030 (CI = +/-0.030; p = 0.048) | 0.124        | +9.04%        |
| Loss Cost | 2013.1     | 0.124 (CI = +/-0.108; p = 0.027)  | 0.035 (CI = +/-0.029; p = 0.020) | 0.232        | +13.17%       |
| Loss Cost | 2013.2     | 0.097 (CI = +/-0.118; p = 0.100)  | 0.032 (CI = +/-0.029; p = 0.036) | 0.165        | +10.23%       |
| Loss Cost | 2014.1     | 0.086 (CI = +/-0.135; p = 0.196)  | 0.030 (CI = +/-0.031; p = 0.055) | 0.133        | +8.94%        |
| Loss Cost | 2014.2     | 0.018 (CI = +/-0.126; p = 0.768)  | 0.023 (CI = +/-0.027; p = 0.088) | 0.202        | +1.77%        |
| Loss Cost | 2015.1     | 0.004 (CI = +/-0.147; p = 0.948)  | 0.022 (CI = +/-0.029; p = 0.128) | 0.205        | +0.45%        |
| Loss Cost | 2015.2     | 0.027 (CI = +/-0.171; p = 0.736)  | 0.024 (CI = +/-0.031; p = 0.117) | 0.180        | +2.73%        |
| Loss Cost | 2016.1     | 0.036 (CI = +/-0.204; p = 0.702)  | 0.024 (CI = +/-0.033; p = 0.134) | 0.159        | +3.68%        |
| Loss Cost | 2016.2     | 0.020 (CI = +/-0.246; p = 0.859)  | 0.023 (CI = +/-0.036; p = 0.184) | 0.153        | +2.01%        |
| Loss Cost | 2017.1     | 0.074 (CI = +/-0.287; p = 0.567)  | 0.026 (CI = +/-0.038; p = 0.149) | 0.122        | +7.70%        |
| Severity  | 2003.1     | 0.024 (CI = +/-0.023; p = 0.045)  | 0.007 (CI = +/-0.017; p = 0.396) | 0.061        | +2.43%        |
| Severity  | 2003.2     | 0.016 (CI = +/-0.023; p = 0.164)  | 0.005 (CI = +/-0.016; p = 0.529) | 0.001        | +1.62%        |
| Severity  | 2004.1     | 0.013 (CI = +/-0.024; p = 0.297)  | 0.004 (CI = +/-0.016; p = 0.611) | -0.025       | +1.26%        |
| Severity  | 2004.2     | 0.013 (CI = +/-0.026; p = 0.299)  | 0.004 (CI = +/-0.016; p = 0.602) | -0.026       | +1.33%        |
| Severity  | 2005.1     | 0.010 (CI = +/-0.027; p = 0.450)  | 0.003 (CI = +/-0.017; p = 0.675) | -0.043       | +1.02%        |
| Severity  | 2005.2     | 0.005 (CI = +/-0.028; p = 0.719)  | 0.002 (CI = +/-0.017; p = 0.787) | -0.060       | +0.50%        |
| Severity  | 2006.1     | 0.015 (CI = +/-0.028; p = 0.286)  | 0.005 (CI = +/-0.016; p = 0.563) | -0.026       | +1.49%        |
| Severity  | 2006.2     | 0.017 (CI = +/-0.030; p = 0.244)  | 0.005 (CI = +/-0.016; p = 0.524) | -0.019       | +1.74%        |
| Severity  | 2007.1     | 0.017 (CI = +/-0.032; p = 0.274)  | 0.005 (CI = +/-0.017; p = 0.532) | -0.026       | +1.75%        |
| Severity  | 2007.2     | 0.013 (CI = +/-0.034; p = 0.455)  | 0.004 (CI = +/-0.017; p = 0.623) | -0.052       | +1.26%        |
| Severity  | 2008.1     | 0.013 (CI = +/-0.037; p = 0.457)  | 0.004 (CI = +/-0.017; p = 0.617) | -0.054       | +1.36%        |
| Severity  | 2008.2     | 0.022 (CI = +/-0.038; p = 0.250)  | 0.006 (CI = +/-0.017; p = 0.484) | -0.023       | +2.23%        |
| Severity  | 2009.1     | 0.016 (CI = +/-0.041; p = 0.421)  | 0.005 (CI = +/-0.018; p = 0.573) | -0.054       | +1.65%        |
| Severity  | 2009.2     | 0.024 (CI = +/-0.044; p = 0.268)  | 0.006 (CI = +/-0.018; p = 0.471) | -0.029       | +2.45%        |
| Severity  | 2010.1     | 0.024 (CI = +/-0.048; p = 0.311)  | 0.006 (CI = +/-0.019; p = 0.487) | -0.040       | +2.45%        |
| Severity  | 2010.2     | 0.038 (CI = +/-0.051; p = 0.136)  | 0.009 (CI = +/-0.019; p = 0.340) | 0.017        | +3.85%        |
| Severity  | 2011.1     | 0.027 (CI = +/-0.055; p = 0.308)  | 0.007 (CI = +/-0.019; p = 0.447) | -0.042       | +2.78%        |
| Severity  | 2011.2     | 0.030 (CI = +/-0.061; p = 0.318)  | 0.007 (CI = +/-0.020; p = 0.443) | -0.047       | +3.02%        |
| Severity  | 2012.1     | 0.038 (CI = +/-0.067; p = 0.244)  | 0.009 (CI = +/-0.020; p = 0.384) | -0.028       | +3.92%        |
| Severity  | 2012.2     | 0.039 (CI = +/-0.076; p = 0.291)  | 0.009 (CI = +/-0.021; p = 0.403) | -0.044       | +3.98%        |
| Severity  | 2013.1     | 0.074 (CI = +/-0.073; p = 0.046)  | 0.013 (CI = +/-0.019; p = 0.159) | 0.130        | +7.68%        |
| Severity  | 2013.2     | 0.051 (CI = +/-0.077; p = 0.177)  | 0.011 (CI = +/-0.019; p = 0.256) | 0.004        | +5.26%        |
| Severity  | 2014.1     | 0.028 (CI = +/-0.083; p = 0.484)  | 0.008 (CI = +/-0.019; p = 0.394) | -0.082       | +2.82%        |
| Severity  | 2014.2     | -0.013 (CI = +/-0.079; p = 0.734) | 0.003 (CI = +/-0.017; p = 0.671) | -0.060       | -1.26%        |
| Severity  | 2015.1     | -0.043 (CI = +/-0.082; p = 0.281) | 0.000 (CI = +/-0.016; p = 0.965) | 0.067        | -4.17%        |
| Severity  | 2015.2     | -0.034 (CI = +/-0.097; p = 0.460) | 0.001 (CI = +/-0.017; p = 0.885) | -0.018       | -3.30%        |
| Severity  | 2016.1     | -0.041 (CI = +/-0.115; p = 0.447) | 0.001 (CI = +/-0.019; p = 0.949) | -0.030       | -4.01%        |
| Severity  | 2016.2     | -0.050 (CI = +/-0.139; p = 0.433) | 0.000 (CI = +/-0.020; p = 0.989) | -0.044       | -4.90%        |
| Severity  | 2017.1     | -0.034 (CI = +/-0.167; p = 0.656) | 0.001 (CI = +/-0.022; p = 0.929) | -0.154       | -3.30%        |
| Frequency | 2003.1     | 0.012 (CI = +/-0.024; p = 0.335)  | 0.013 (CI = +/-0.017; p = 0.151) | 0.005        | +1.17%        |
| Frequency | 2003.2     | 0.010 (CI = +/-0.025; p = 0.444)  | 0.012 (CI = +/-0.018; p = 0.175) | -0.002       | +0.97%        |
| Frequency | 2004.1     | 0.015 (CI = +/-0.026; p = 0.250)  | 0.014 (CI = +/-0.018; p = 0.128) | 0.015        | +1.52%        |
| Frequency | 2004.2     | 0.014 (CI = +/-0.028; p = 0.304)  | 0.013 (CI = +/-0.018; p = 0.142) | 0.009        | +1.44%        |
| Frequency | 2005.1     | 0.018 (CI = +/-0.029; p = 0.227)  | 0.014 (CI = +/-0.018; p = 0.123) | 0.019        | +1.79%        |
| Frequency | 2005.2     | 0.028 (CI = +/-0.029; p = 0.053)  | 0.017 (CI = +/-0.017; p = 0.055) | 0.085        | +2.87%        |
| Frequency | 2006.1     | 0.029 (CI = +/-0.031; p = 0.061)  | 0.017 (CI = +/-0.018; p = 0.057) | 0.082        | +2.97%        |
| Frequency | 2006.2     | 0.038 (CI = +/-0.031; p = 0.020)  | 0.019 (CI = +/-0.017; p = 0.032) | 0.139        | +3.84%        |
| Frequency | 2007.1     | 0.049 (CI = +/-0.031; p = 0.003)  | 0.021 (CI = +/-0.016; p = 0.012) | 0.233        | +4.98%        |
| Frequency | 2007.2     | 0.044 (CI = +/-0.033; p = 0.012)  | 0.020 (CI = +/-0.017; p = 0.018) | 0.184        | +4.47%        |
| Frequency | 2008.1     | 0.057 (CI = +/-0.032; p = 0.001)  | 0.023 (CI = +/-0.015; p = 0.005) | 0.301        | +5.81%        |
| Frequency | 2008.2     | 0.047 (CI = +/-0.033; p = 0.007)  | 0.021 (CI = +/-0.015; p = 0.008) | 0.237        | +4.79%        |
| Frequency | 2009.1     | 0.051 (CI = +/-0.036; p = 0.007)  | 0.022 (CI = +/-0.015; p = 0.007) | 0.247        | +5.20%        |
| Frequency | 2009.2     | 0.047 (CI = +/-0.039; p = 0.020)  | 0.021 (CI = +/-0.016; p = 0.011) | 0.206        | +4.76%        |
| Frequency | 2010.1     | 0.058 (CI = +/-0.040; p = 0.007)  | 0.023 (CI = +/-0.015; p = 0.005) | 0.277        | +5.95%        |
| Frequency | 2010.2     | 0.058 (CI = +/-0.044; p = 0.012)  | 0.023 (CI = +/-0.016; p = 0.007) | 0.258        | +6.02%        |
| Frequency | 2011.1     | 0.054 (CI = +/-0.049; p = 0.031)  | 0.022 (CI = +/-0.017; p = 0.011) | 0.219        | +5.57%        |
| Frequency | 2011.2     | 0.035 (CI = +/-0.048; p = 0.148)  | 0.019 (CI = +/-0.016; p = 0.018) | 0.187        | +3.54%        |
| Frequency | 2012.1     | 0.051 (CI = +/-0.050; p = 0.047)  | 0.022 (CI = +/-0.015; p = 0.008) | 0.260        | +5.21%        |
| Frequency | 2012.2     | 0.048 (CI = +/-0.056; p = 0.092)  | 0.021 (CI = +/-0.016; p = 0.012) | 0.238        | +4.87%        |
| Frequency | 2013.1     | 0.050 (CI = +/-0.064; p = 0.117)  | 0.022 (CI = +/-0.017; p = 0.016) | 0.232        | +5.10%        |
| Frequency | 2013.2     | 0.046 (CI = +/-0.073; p = 0.195)  | 0.021 (CI = +/-0.018; p = 0.024) | 0.217        | +4.73%        |
| Frequency | 2014.1     | 0.058 (CI = +/-0.082; p = 0.153)  | 0.022 (CI = +/-0.019; p = 0.022) | 0.232        | +5.95%        |
| Frequency | 2014.2     | 0.030 (CI = +/-0.087; p = 0.469)  | 0.019 (CI = +/-0.019; p = 0.041) | 0.250        | +3.07%        |
| Frequency | 2015.1     | 0.047 (CI = +/-0.100; p = 0.324)  | 0.021 (CI = +/-0.019; p = 0.035) | 0.257        | +4.82%        |
| Frequency | 2015.2     | 0.061 (CI = +/-0.117; p = 0.278)  | 0.022 (CI = +/-0.021; p = 0.037) | 0.259        | +6.24%        |
| Frequency | 2016.1     | 0.077 (CI = +/-0.137; p = 0.240)  | 0.024 (CI = +/-0.022; p = 0.039) | 0.264        | +8.01%        |
| Frequency | 2016.2     | 0.070 (CI = +/-0.166; p = 0.364)  | 0.023 (CI = +/-0.025; p = 0.060) | 0.249        | +7.27%        |
| Frequency | 2017.1     | 0.108 (CI = +/-0.193; p = 0.233)  | 0.026 (CI = +/-0.026; p = 0.051) | 0.270        | +11.38%       |



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