

# **PRELIMINARY REVIEW OF INDUSTRY EXPERIENCE**

**AS OF DECEMBER 31, 2014**

**PRIVATE PASSENGER VEHICLES**

**ALBERTA AUTO INSURANCE RATE BOARD**

29 JUNE 2015

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PRELIMINARY

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## Introduction

This report was prepared by Oliver, Wyman Limited (Oliver Wyman), actuarial consultants to the Alberta Automobile Insurance Rate Board (the Board) as part of the Board's "2015 Annual Review" of Industry experience.

This report presents the results of our preliminary analysis of Alberta's Industry loss and expense experience for private passenger vehicles for consideration by the Board in determining benchmarks for rate filings submitted between October 1, 2015 and March 31, 2016. The scope of our analysis includes all coverages:

Basic Coverage: Third Party Liability (TPL) and Accident Benefits

Additional Coverage: Collision, Comprehensive, All Perils, Specified Perils, Underinsured Motorist

## ***Data and Reliances***

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 the Insurance Bureau of Canada (IBC). We have not audited, verified, or reviewed this data for reasonableness, accuracy, or consistency, as it is outside the scope of our study. In the event material errors are found in this data, our findings may need to be revised.

## ***Limitations***

The assumptions and judgments we have made in selecting the factors, provisions, and methodologies that we present in this report for the Board's consideration in determining benchmarks that apply to rate filings submitted between October 1, 2015 and March 31, 2016 are based on data and information made available to us at the time of this analysis. While our assumptions, judgments, and findings are subject to uncertainty as is inherent in any loss forecast, we believe that due to the Minor Injury Regulation and economic environment that our assumptions, judgments, and findings continue to be subject to a greater than normal degree of uncertainty.

Our analysis reflects the experience of the insurance industry as a whole, including the Facility Association (FA), and the two Risk Sharing Pools (RSPs)<sup>1</sup>, 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.

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<sup>1</sup> We refer to the insurance companies operating in Alberta, including the Facility Association and the two Risk Sharing Pools, as the "Industry"; and we refer to the aggregate claim or expense experience as "Industry experience."

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### Summary of Findings

In this report we present:

- assumptions, factors, and provisions we recommend<sup>2</sup> serve as benchmarks for rate filings submitted between October 1, 2015 and March 31, 2016
- other assumptions, factors, and provisions for the Board's consideration as it reviews rate filings submitted between October 1, 2015 and March 31, 2016

We note that our recommended assumptions, factors, and provisions that we present in this preliminary report are subject to change based on feedback provided by stakeholders in writing and/or at the Board's Open Meeting to be held on August 18, 2015. We will present our final recommendations to the Board after the Open Meeting.

During the Board's 2015 Semi-Annual Review (SAR) of Industry experience, three suggestions were made that represent a departure from the manner in which we perform our analysis and present our recommendations:

- that claim indemnity amounts be analyzed separately from allocated loss adjustment expense (ALAE)
- that the provision for unallocated loss adjustment expense (ULAE) not be reflected in the trend analysis

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

- that the Health Cost Recovery assessment benchmark consider that some policies written by insurers under the Board's Industry benchmarks will be written when, presumably, a new, and likely higher, assessment will be in effect

As respects the first suggestion, in virtually all insurer rate filings that are submitted for Board review and approval, indemnity and ALAE claim amounts are analyzed and presented on a combined basis. Hence having indemnity only development factor and/or trend benchmarks would not be consistent with general practice. We, therefore, continue to combine indemnity and ALAE in performing our review and presenting our recommended benchmarks.

As respects the second suggestion, we recognize that by the nature of ULAE costs, the ULAE factors calculated by GISA (which we accept) are not directly associated with the indemnity and ALAE claim amounts that arise in a particular accident year. However, we include the GISA provisions for ULAE with the indemnity and ALAE claim amounts in calculating trend rates in order to avoid any biases that may be caused by individual insurers changing the categorization of claim costs from ALAE to ULAE or vice versa. In Appendix C we present the same trend summaries we present in Appendix B, but without including the provisions for ULAE. We note that the differences are immaterial.

The Board's rate filing benchmarks that will result from this 2015 Annual Review will reflect the Government's 2016 Health Recovery Assessment<sup>3</sup>. These benchmarks will apply to rate filings submitted between October 1, 2015 and March 31, 2016. Hence, insurers will be required to reflect the 2016 assessment in calculating their rate level needs even though some policies will be written in 2017.<sup>4</sup>

There seem to be possible ways to address this third issue:

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<sup>3</sup> Assuming it is announced by the time the Board sets the new benchmarks.

<sup>4</sup> For example, a filing submitted to the Board for approval on March 31, 2016 may not become effective until June 1, 2016. Assuming the approved rates are to remain in effect for one year, they will apply to policies written between June 1, 2016 and May 31, 2017.

1. The Government announce the assessment about a year in advance (e.g., announce the 2017 assessment by October 1, 2016).
2. In setting the benchmarks, the Board should try to anticipate what the 2017 assessment will be and build that estimate into the benchmark.
3. Make no change to the Board's current practice of accepting the Government announced assessment when it is announced, and accept this timing issue.

Given that Option #1 is not feasible, that for Option #2 the Board is not privy to how the Government determines the assessment (particularly any "catch-up" portion of the assessment) hence cannot accurately estimate what future assessments will be, that insurers tend not seek approval of their full indicated rate changes, and that the impact would generally not be expected to be material, we recommend Option #3.

We welcome additional thoughts from stakeholders on these issues.

### ***Analysis of Industry Claim Cost and Expense Experience***

The analysis that we present in this report is of Industry claim cost and expense experience in Alberta over recent past years; including the claim experience that emerged under the reform measures that became effective in 2004; the claim experience that emerged between the February 8, 2008 ruling by the Alberta Court of Queen's Bench striking down the Minor Injury Regulation, the June 2009 Alberta Court of Appeal's decision to overturn the Court of Queen's Bench ruling, and the December 2009 Supreme Court of Canada's denial of the Plaintiff's request for leave to appeal; and the claim experience that subsequently emerged to the end of 2014. We consider the Industry claim experience through December 31, 2014 as reported to GISA.



## ***Other Comments***

In this report we present 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 and the reasonableness of views that may be expressed by stakeholders.

We suggest that the Board also consider additional information provided by stakeholders that may be more current or that may provide more insight into the Industry private passenger vehicle claim experience (particularly as respects the Bodily Injury coverage) that has emerged or is expected to emerge. However, in doing so the Board should 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 alternative assumption, factor, or provision may be reasonable, it may not be reasonable to combine alternative assumptions, factors, or provisions.

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## Recent Legislative Reforms and Government Actions

The Automobile Insurance Rate Board (AIRB) was established on October 5, 2004 to regulate automobile insurance premiums for Basic Coverage and to monitor premiums for Additional Coverage for private passenger vehicles in the Province of Alberta.

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. Stakeholders including the Consumer Representative were given the opportunity to respond to this analysis at an open meeting held during the month of June, in either Calgary or Edmonton.

The purpose of this 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 set 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 Act and a new, supporting, Automobile Insurance Premiums Regulation have come into force effective July 1, 2014. With the new Act and Premiums Regulation:

- the Board's mandate is expanded to also regulate Additional Coverage,
- the Industry-Wide Adjustment process is discontinued, and
- Alberta moves to a "file-and-approve" model where insurers must file on an individual company basis for revisions to their rating programs.

The Premiums Regulation requires the Board to conduct an Annual Review and a Semi-Annual Review for private passenger vehicles. A component of these Reviews is to analyse Industry experience and develop benchmarks for rating factors for individual rate filings. The Board will consider all input in developing its reports. The reports will be posted on the AIRB website at [www.airb.alberta.ca](http://www.airb.alberta.ca) and will include information that insurers should consider in preparing their rate filings.

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

- a cap on pain and suffering for minor injuries at \$4,000<sup>5</sup>;
- the consideration of collateral sources;
- the determination of wage loss based on net, rather than gross wages;
- the increase of medical/rehabilitation benefits under Accident Benefits to \$50,000; and
- maximum diagnosis and treatment protocol fees for medical/rehabilitation benefits under Accident Benefits.

These reforms became effective October 1, 2004, with the exception of 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 October 1, 2004, the Government introduced the Grid Rate System, which set maximum premiums to be charged for the Basic Coverage, and established two Risk Sharing Pools under a "take all comers" underwriting system.

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<sup>5</sup> The \$4,000 limit was increased to \$4,144 effective January 1, 2007; to \$4,339 effective January 1, 2008; to \$4,504 effective January 1, 2009; to \$4,518 effective January 1, 2010; to \$4,559 effective January 1, 2011, to \$4,641 effective January 1, 2012, to \$4,725 effective January 1, 2013, to \$4,777 effective January 1, 2014, to \$4,892 effective January 1, 2015.

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.

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 Plaintiff's request for leave to appeal, thereby affirming the cap on minor injuries.

Maximum fees for certain diagnosis and treatment protocols have been updated regularly since introduced, with the most recent increases effective in June 2013.

On March 17, 2011 the Government extended the Minor Injury Regulation to September 30, 2016.

A Renewed Diagnostic and Treatment Protocols Regulation came into force on July 1, 2014.<sup>6</sup>

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<sup>6</sup> It is our understanding that the changes are administrative in nature (clarifications). To the extent there are any substantive changes, the impact will be reflected in our final report to the Board.

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## Analysis – General Discussion

### ***Introduction***

In the sections that follow we present:

- an analysis and discussion of Industry loss development factors and trend rates
- the Industry loss development factors and trend rates we recommend<sup>7</sup> the Board consider in reviewing Industry's overall performance, and to serve as benchmarks to apply to rate filings submitted between October 1, 2015 and March 31, 2016
- other assumptions, factors, and provisions for the Board to consider in reviewing Industry's overall performance, and to consider in reviewing rate filings submitted between October 1, 2015 and March 31, 2016

The projection of future rate needs is subject to uncertainty. Therefore, we provide rationale for the assumptions, factors, provisions, and calculations that we present, as well as information to help the Board evaluate their reasonableness and the reasonableness of the views that may be presented by other interested parties.

### ***Claim Cost – Data***

The source for the claim data that we analyze is the Industry AIX 2014-2 Automobile Exhibit (as of December 31, 2014) provided by GISA, and it includes the experience of all drivers in the province, including the Facility Association and the two RSPs (from the time they were formed).

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<sup>7</sup> See previous comments on recommendations.

The claim data that is available through the Industry AIX Automobile Experience report is in two categories:

Paid Claim Amounts – claim cost 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 what is referred to as reported incurred claim amounts.

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 (1) any overall inadequacies or redundancies in the case reserves that are established on individual claims, and (2) 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” varies from company to company.

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

We estimate the final (ultimate) number of all claims and cost<sup>8</sup> of all claims that arise from events that occur in the first and second half of the year, separately, through to December 2014 (referred to as “accident half-years”) and then use those estimates to measure and select loss trend rates.

We estimate the final/ultimate claim cost by accident half-year by performing 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 that insurance companies report to GISA and which are published by GISA. 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 they are not reported to GISA.

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<sup>8</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.

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

We select loss<sup>9</sup> development factors to estimate the actuarial reserve need, hence the final claim cost, for each accident half-year through December 2014 (we group claims by the accident half-year that the events that give rise to the claims occur), separately for each of the coverages.<sup>10</sup> 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 December 2014, separately for each of the coverages.

Our selection of loss development factors and claim count development factors for each of the Basic coverages and Additional coverages is discussed in the next section.

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<sup>9</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>10</sup> This actuarial technique is often referred to as the “Incurred Loss Development Method” or the “Reported Incurred Loss Development Method.”



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### Selection of Loss Development Factors and Claim Count Development Factors

The data we use to select loss development factors and claim count development factors is the 2014-2 AIX Industry Alberta accident half-year<sup>11</sup> reported incurred loss and allocated loss adjustment expense (ALAE) and claim count data.

Generally (exceptions discussed below), we select the weighted average of the last six development factors, adjusted, where appropriate, to reflect seasonality evident in the 6 to 12 month development period<sup>12</sup>, as we consider this selection to be a reasonable balance between responsiveness and stability.<sup>13</sup> We refer to these selections as our default selections.

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<sup>11</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>12</sup> The 6-12 month development period refers to the six months following the end of the particular accident half-year. For example, the 6-12 month development period for the 2014-1 accident half-year is the period spanning July 1, 2014 through December 31, 2014. Other development periods referenced in this report (e.g., 12-18) are similarly defined.

<sup>13</sup> If seasonality is evident our default selection is the weighted average of the December 2010, December 2011, December 2012 and December 2013 semester development factors.

## ***Bodily Injury***

Reported Claim Counts: In our 2015 Semi-Annual Review (2015 SAR), we selected a 6-12 month development factor of 0.985 for the June 2014 semester, which was the average of (a) the June 2012 semester factor (0.970) and (b) the June 2013 semester factor (1.000). The actual factor that emerged was 0.979.

The 6-12 month development factors for the periods ending December 31, are, generally, higher than for the periods ending June 30. The 6-12 month factors ending December 2010, December 2011, December 2012 and December 2013 are: 1.015, 1.027, 1.086, and 1.073, respectively. Recognizing the higher recent development factors, for this study we average the actual 6-12 month development factors for the December 2012 and December 2013 semesters. The result is our selected factor, 1.080.

For the other time intervals, to be consistent with our selection of reported claim amount development factors, we select the four semester weighted average, subject to smoothing.

Reported Claim Amounts: The estimation of ultimate claim costs for the Bodily Injury coverage continues to be a challenge given the loss development that has occurred and the information that has been presented by IBC and other stakeholders concerning the erosion of the minor injury cap.

For development intervals other than 6-12 months, in our 2015 SAR, based on a continued observed pattern of increasing development factors, we selected the weighted average of the last four development factors, subject to smoothing.

A comparison of our 2015 SAR selections and the actual development factors that have since emerged for each development period up to 84 months follows.

| Development Interval | OW Selected Factor For<br>2015 SAR | Actual Factors That Have<br>Emerg |
|----------------------|------------------------------------|-----------------------------------|
| 12-18                | 1.054                              | 1.059                             |
| 18-24                | 1.082                              | 1.092                             |
| 24-30                | 1.091                              | 1.078                             |
| 30-36                | 1.094                              | 1.081                             |
| 36-42                | 1.081                              | 1.061                             |
| 42-48                | 1.060                              | 1.047                             |
| 48-54                | 1.048                              | 1.006                             |
| 54-60                | 1.042                              | 1.019                             |
| 60-66                | 1.028                              | 1.019                             |
| 66-72                | 1.029                              | 0.999                             |
| 72-78                | 1.018                              | 1.005                             |
| 78-84                | 1.014                              | 0.998                             |

As can be seen from the above table, for only 2 of the 12 development intervals were the actual development factors that emerged higher than what we had selected.

Since for the more immature development periods, the four semester weighted average (the approach we selected for the 2015 SAR) produces higher development factors than the six semester weighted average (our default approach), and since, in our opinion, it is not clear that the observed pattern of increasing development factors has come to an end, we continue to select the weighted average of the last four development factors, subject to smoothing.

As respects the 6-12 month development interval, in our 2015 SAR, we selected a 6-12 month development factor of 1.218, which was the average of (a) the June 2012 semester factor (1.206) and (b) the June 2013 semester factor (1.230). The actual factor that emerged was 1.218.

The 6-12 month development factors for the periods ending December 31, are, generally, higher than for the periods ending June 30. The 6-12 month factors ending December 2010, December 2011, December 2012 and December 2013 are: 1.110, 1.147, 1.213, and 1.273, respectively. Recognizing what appears to be a continued pattern of increasing development factors as well as

the uncertainty as to whether that pattern will continue, for this study we average the actual 6-12 month development factors for the December 2012 and December 2013 semesters. The result is an indicated factor of 1.243.

In selecting the 6-12 month claim amount development factor (for which the estimate is most uncertain) we also consider the estimate derived from an application of what is commonly referred to as the Bornhuetter-Ferguson Method (an actuarial ultimate loss estimation method). In applying this method we derive the a priori loss estimate by trending the estimated accident half-year pure premiums (excluding the provisions ULAE) that we derive from the 12-ultimate claim amount development factors we select, over the period 2011.2 – 2014.1 at a rate of +3.6% per year (reflecting seasonality) and then multiply by the earned exposure counts. We use the selected cumulative incurred development factor to blend the resulting a priori loss estimate with the reported incurred losses. This results in an ultimate loss estimate from which we derive an estimated 6-12 month development factor of 1.192, slightly lower than the 1.243 discussed above<sup>14</sup>. We select 1.243 as the 6-12 month development factor.

We also considered the results of an application of the loss reserving “tool” called MetaRisk Reserve – a generalized linear method based loss reserving model developed by Guy Carpenter that also considers loss development along the calendar year (as opposed to only accident year and development year). For this Annual Review we present the results for information only; we will continue to consider this approach at future reviews as we develop a deeper understanding of the differences in the results.<sup>15</sup>

## ***Property Damage***

Reported Claim Counts: In our 2015 SAR, we selected a 6-12 month development factor for the June 2014 semester of 1.052. This was the weighted average of the actual June 2010, June 2011,

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<sup>14</sup> Refer to Appendix D

<sup>15</sup> Results presented in Appendix D.

June 2012, and June 2013 semester factors. The actual 6-12 month development factor for the June 2014 semester that emerged was 1.029. For this study, we follow a similar approach - except that we consider the weighted average of the actual December 2010, December 2011, December 2012 and December 2013 semester factors – and select a 6-12 month development factor of 1.105 for the December<sup>16</sup> 2014 semester.

We select the default factors for other time periods, subject to smoothing.

Reported Claim Amounts: In our 2015 SAR, we selected a 6-12 month development factor for the June 2014 semester of 1.106. This was the weighted average of the actual 6-12 month development factors for the June 2010, June 2011, June 2012, and June 2013 semester factors – our default selection when seasonality is present. The actual 6-12 month development factor for the June 2014 semester that emerged was 1.090. For this study, we again select our default selection, the weighted average of the actual 6-12 month development factors for the December 2010, December 2011, December 2012 and December 2013 semester factors, 1.190<sup>17</sup>.

We select the default factors for other time periods, subject to smoothing.

### ***Accident Benefits - Medical/Rehab***

Reported Claim Counts: In our 2015 SAR, we selected a 6-12 month development factor for the June 2014 semester of 0.884 – the average of the last six semester actual factors (our default selection when there is no evidence of seasonality). The actual 6-12 month development factor for the June 2014 semester that emerged was 0.901. For this study, we select 0.886 as the 6-12 month development for the December 2014 semester, the average of the last six semester actual factors.

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<sup>16</sup> The Property Damage 6-12 month claim count development factors ending December are generally higher than those ending June.

<sup>17</sup> The Property Damage 6-12 month loss development factors ending December are generally higher than those ending June.

We select the default factors for other time periods, subject to smoothing.

Reported Claim Amounts: In our 2015 SAR, we selected a 6-12 month development factor of 0.713 for the June 2014 semester – the average of the actual development factors for the June 2010, June 2011, June 2012, and June 2013 semesters actual factors. The actual 6-12 month development factor for the June 2014 semester that emerged was 0.724. For this study, we select 0.731 as the 6-12 month development factor for the December 2014 semester, the average of the actual development factors for the December 2010, December 2011, December 2012 and December 2013 semesters actual factors.<sup>18</sup>

We select the default factors for other time periods, subject to smoothing.

### ***Accident Benefits - Disability Income***

Reported Claim Counts: In our 2015 SAR, we selected a 6-12 month development factor for the June 2014 semester of 0.974 - the ten semester weighted average. The actual 6-12 month development factor for the June 2014 semester that emerged was 1.011. For this study, we again select the ten semester weighted average for the December 2014 semester, which is 0.980.

We select the ten semester average factor for all other time periods, subject to smoothing.

Reported Claim Amounts: In our 2015 SAR, we selected a 6-12 month development factor for the June 2014 semester of 1.378 – the three semester weighted average in recognition of what appeared to be an upward trend in development factors. The actual 6-12 month development factor for the June 2014 semester that emerged was 1.361. In recognition of generally higher recent actual development we select the four semester weighted average for the December 2014 semester, which is 1.376.

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<sup>18</sup> The Medical/Rehab 6-12 month loss development factors ending December are generally higher than those ending June.

We select the ten semester average for all other time periods, subject to smoothing.

### ***Accident Benefits - Death Benefits***

Reported Claim Counts: In our 2015 SAR, we selected a 6-12 month development factor for the June 2014 semester of 0.985 – the twenty semester average. The actual 6-12 month development factor for the June 2014 semester that emerged was 0.945. For this study, we again select the twenty semester average for the December 2014 semester, which is 0.987.

We select the twenty semester average (or all-year average as appropriate) for all other time periods, subject to smoothing.

Reported Claim Amounts: In our 2015 SAR, we selected a 6-12 month development factor for the June 2014 semester of 1.189 – the twenty semester average. The actual 6-12 month development factor for the June 2014 semester that emerged was 1.045. For this study, we again select the twenty semester average for the December 2014 semester, which is 1.188.

We select the twenty semester average (or all-year average as appropriate) for all other time periods, subject to smoothing.

### ***Accident Benefits - Funeral***

Reported Claim Counts: In our 2015 SAR, we selected a 6-12 month development factor for the June 2014 semester of 1.031 – the twenty semester average. The actual 6-12 month development factor for the June 2014 semester that emerged was 0.943. For this study, we again select the twenty semester average for the December 2014 semester, which is 1.026.

We select the twenty semester average (or all-year average as appropriate) for all other time periods, subject to smoothing.

Reported Claim Amounts: In our 2015 SAR, we selected a 6-12 month development factor for the June 2014 semester of 1.092 – the twenty semester average. The actual 6-12 month development factor for the June 2014 semester that emerged was 0.994 (historically, a relatively low factor). For this study, we again select the twenty semester average for the December 2014 semester, which is 1.089.

We select the twenty semester average (or all-year average as appropriate) for all other time periods, subject to smoothing.

## ***Collision***

Reported Claim Counts: In our 2015 SAR, we selected the weighted average of the actual 6-12 month development factors for the last six semesters (our default selection), 0.806, as the 6-12 month development factor for the June 2014 semester. The actual 6-12 month development factor for the June 2014 semester that emerged was 0.816. For this study, we again select the weighted average of the actual 6-12 month development factors for the last six semesters (our default selection), for the December 2014 semester, which is 0.805.

We select the default factors for other time periods, subject to smoothing.

Reported Claim Amounts: In our 2015 SAR, we selected the weighted average of the actual 6-12 month development factors for the last six semesters (our default selection), 0.722, as the 6-12 month development factor for the June 2014 semester. The actual 6-12 month development factor for the June 2014 semester that emerged was 0.714. For this study, we again select the weighted average of the actual 6-12 month development factors for the last six semesters (our default selection), for the December 2014 semester, which is 0.721.



We select the default factors for other time periods, subject to smoothing.

## ***Comprehensive***

Reported Claim Counts: In our 2015 SAR, we selected the weighted average of the actual 6-12 month development factors for the June 2010, June 2011, June 2012, and June 2013 semesters (our default selection when there is evidence of seasonality), 1.072, as the 6-12 month development factor for the June 2014 semester. The actual 6-12 month development factor for the June 2014 semester that emerged was 1.061. For this study, we again select our default selection, the weighted average of the actual 6-12 month development factors for the December 2010, December 2011, December 2012 and December 2013 semesters for the December 2014 semester, which is 1.012.

We select the default factors for other time periods, subject to smoothing.

Reported Claim Amounts: In our 2015 SAR, we selected the weighted average of the actual 6-12 month development factors for the June 2010, June 2011, June 2012, and June 2013 semesters (our default selection when there is evidence of seasonality), 1.101, as the 6-12 month development factor for the June 2014 semester. The actual 6-12 month development factor for the June 2014 semester that emerged was 0.999 (historically, a relatively low factor). For this study, we again select our default selection, the weighted average of the actual 6-12 month development factors for the December 2010, December 2011, December 2012 and December 2013 semesters for the December 2014 semester, which is 1.013.

We select the default factors for other time periods, subject to smoothing.

## ***All Perils***

Reported Claim Counts: In our 2015 SAR, we selected the weighted average of the actual 6-12 month development factors for the June 2010, June 2011, June 2012, and June 2013 semesters (our default selection when there is evidence of seasonality), 1.112, as the 6-12 month development factor for the June 2014 semester. The actual 6-12 month development factor for the June 2014 semester that emerged was 1.055. For this study, we again select our default selection, the weighted average of the actual 6-12 month development factors for the December 2010, December 2011, December 2012 and December 2013 semesters for the December 2014 semester, which is 1.071.

We select the default factors for other time periods, subject to smoothing.

Reported Claim Amounts: In our 2015 SAR, we selected the weighted average of the last six semesters, 0.879, as the 6-12 month development factor for the June 2014 semester. The actual 6-12 month development factor for the June 2014 semester that emerged was 0.778 (historically, a relatively low factor). For this study, we again select the weighted average of the last six semester 6-12 month development factors for the December 2014 semester, which is 0.879.

We select the default factors for other time periods, subject to smoothing.

## ***Specified Perils***

Reported Claim Counts: In our 2015 SAR, we selected the weighted average of the actual 6-12 month development factors for the June 2010, June 2011, June 2012, and June 2013 semesters (our default selection when there is evidence of seasonality), 0.994, as the 6-12 month development factor for the June 2014 semester. The actual 6-12 month development factor for the June 2014 semester that emerged was 0.953. For this study, we again select our default selection, the weighted average of the actual 6-12 month development factors for the December

2010, December 2011, December 2012 and December 2013 semesters for the December 2014 semester, which is 1.004.

We select the default factors for other time periods, subject to smoothing.

Reported Claim Amounts: In our 2015 SAR, we selected the weighted average of the actual 6-12 month development factors for the June 2010, June 2011, June 2012, and June 2013 semesters, 1.025, as the 6-12 month development factor for the June 2014 semester. The actual 6-12 month development factor for the June 2014 semester that emerged was 0.998. For this study, we again select our default selection when there is evidence of seasonality, the weighted average of the actual 6-12 month development factors for the December 2010, December 2011, December 2012 and December 2013 semesters for the December 2014 semester, which is 0.991.

We select the default factors for other time periods, subject to smoothing.

### ***Underinsured Motorist***

Reported Claim Counts: In our 2015 SAR, we selected the all-semester weighted average of the actual 6-12 month development factors, 1.477, as the 6-12 month development factor for the June 2014 semester. The actual 6-12 month development factor for the June 2014 semester that emerged was 1.556. For this study, we again select the all-semester weighted average for the December 2014 semester, which is 1.510.

We select the all-semester weighted average for all other time periods, subject to smoothing.

Reported Claim Amounts: In our 2015 SAR, we selected the all-semester weighted average of the actual 6-12 month development factors, 2.558, as the 6-12 month development factor for the June 2014 semester. The actual 6-12 month development factor for the June 2014 semester that emerged was 3.460. For this study, we again select the all-semester weighted average for the December 2014 semester, which is 2.670.

We select the all-semester weighted average for all other time periods, subject to smoothing.

The historical development factors (patterns) and our selected factors are presented in Appendix A.

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

We note that the selection of development factors has an effect on the selected loss trend rates and other key assumptions, factors, and provisions. As a result of the claim experience that has emerged and the development factors we select, our estimates of ultimate loss costs, frequencies<sup>19</sup>, and severities by accident year have changed from those presented in our 2015 SAR.<sup>20</sup> The changes are as follows.

#### ***Bodily Injury***

| 2015 SAR |           |          |           | 2015 Annual Review |          |           |
|----------|-----------|----------|-----------|--------------------|----------|-----------|
| AY       | Loss Cost | Severity | Frequency | Loss Cost          | Severity | Frequency |
| 2014.1   | \$286.3   | \$55,125 | 5.19      | \$270.9            | \$50,664 | 5.35      |
| 2013     | \$304.0   | \$54,331 | 5.59      | \$289.4            | \$50,421 | 5.74      |
| 2012     | \$304.7   | \$53,587 | 5.69      | \$283.2            | \$48,554 | 5.83      |
| 2011     | \$268.8   | \$46,054 | 5.84      | \$251.5            | \$42,296 | 5.95      |
| 2010     | \$251.5   | \$42,604 | 5.90      | \$236.2            | \$39,470 | 5.98      |
| 2009     | \$252.9   | \$42,727 | 5.92      | \$243.6            | \$40,832 | 5.97      |

Overall, over this five-and-a-half year period our estimates of ultimate loss costs have decreased by approximately 6%, and our estimate for 2014.1 decreased by about 5%. This decline is in contrast to the increases in estimates of ultimate loss costs that we presented in our prior three studies.

<sup>19</sup> Number of claims per 1,000 insured vehicles.

<sup>20</sup> These estimates include a provision for allocated and unallocated loss adjustment expenses.

### ***Property Damage***

| 2015 SAR |           |          |           | 2015 Annual Review |          |           |
|----------|-----------|----------|-----------|--------------------|----------|-----------|
| AY       | Loss Cost | Severity | Frequency | Loss Cost          | Severity | Frequency |
| 2014.1   | \$158.8   | \$5,069  | 31.33     | \$155.8            | \$5,094  | 30.59     |
| 2013     | \$163.5   | \$5,168  | 31.65     | \$163.3            | \$5,177  | 31.54     |
| 2012     | \$154.5   | \$4,928  | 31.35     | \$155.1            | \$4,947  | 31.36     |
| 2011     | \$153.3   | \$4,706  | 32.57     | \$153.5            | \$4,711  | 32.57     |
| 2010     | \$144.9   | \$4,524  | 32.02     | \$144.9            | \$4,523  | 32.03     |
| 2009     | \$150.7   | \$4,612  | 32.67     | \$150.6            | \$4,609  | 32.68     |

Overall, over this five-and-a-half year period our estimates of ultimate loss costs have not materially changed, and our estimate for 2014.1 decreased by about 2%.

### ***Accident Benefits–Medical/Rehabilitation***

| 2015 SAR |           |          |           | 2015 Annual Review |          |           |
|----------|-----------|----------|-----------|--------------------|----------|-----------|
| AY       | Loss Cost | Severity | Frequency | Loss Cost          | Severity | Frequency |
| 2014.1   | \$24.8    | \$2,938  | 8.45      | \$25.1             | \$2,912  | 8.60      |
| 2013     | \$28.2    | \$3,096  | 9.10      | \$28.1             | \$3,084  | 9.12      |
| 2012     | \$28.6    | \$3,091  | 9.24      | \$28.3             | \$3,066  | 9.24      |
| 2011     | \$27.1    | \$2,907  | 9.32      | \$27.0             | \$2,896  | 9.32      |
| 2010     | \$26.1    | \$2,872  | 9.09      | \$25.9             | \$2,854  | 9.09      |
| 2009     | \$25.4    | \$2,778  | 9.14      | \$25.3             | \$2,763  | 9.14      |

Overall, over this five-and-a-half year period our estimates of ultimate loss costs have not materially changed, and our estimate for 2014.1 increased by about 1%.

**Accident Benefits - Disability Income**

| 2015 SAR |           |          |           | 2015 Annual Review |          |           |
|----------|-----------|----------|-----------|--------------------|----------|-----------|
| AY       | Loss Cost | Severity | Frequency | Loss Cost          | Severity | Frequency |
| 2014.1   | \$8.2     | \$8,934  | 0.92      | \$8.3              | \$8,627  | 0.96      |
| 2013     | \$9.8     | \$9,138  | 1.07      | \$10.1             | \$9,458  | 1.07      |
| 2012     | \$10.5    | \$9,464  | 1.11      | \$10.8             | \$9,713  | 1.11      |
| 2011     | \$9.4     | \$8,641  | 1.09      | \$9.7              | \$8,894  | 1.09      |
| 2010     | \$9.8     | \$8,997  | 1.09      | \$10.1             | \$9,208  | 1.09      |
| 2009     | \$11.2    | \$9,173  | 1.22      | \$11.5             | \$9,476  | 1.22      |

Overall, over this five-and-a-half year period our estimates of ultimate loss costs have increased by about 3%, and our estimate for 2014.1 increased by about 1%.

**Collision**

| 2015 SAR |           |          |           | 2015 Annual Review |          |           |
|----------|-----------|----------|-----------|--------------------|----------|-----------|
| AY       | Loss Cost | Severity | Frequency | Loss Cost          | Severity | Frequency |
| 2014.1   | \$247.7   | \$5,595  | 44.27     | \$240.4            | \$5,411  | 44.43     |
| 2013     | \$253.1   | \$5,571  | 45.44     | \$247.9            | \$5,514  | 44.95     |
| 2012     | \$229.2   | \$5,286  | 43.36     | \$227.5            | \$5,255  | 43.28     |
| 2011     | \$226.9   | \$4,951  | 45.83     | \$226.8            | \$4,949  | 45.82     |
| 2010     | \$210.3   | \$4,723  | 44.53     | \$210.3            | \$4,723  | 44.52     |
| 2009     | \$237.7   | \$4,917  | 48.34     | \$237.6            | \$4,916  | 48.33     |

Overall, over this five-and-a-half year period our estimates of ultimate loss costs have decreased by about 1%, and our estimate for 2014.1 decreased by about 3%.

**Comprehensive**

| 2015 SAR |           |          |           | 2015 Annual Review |          |           |
|----------|-----------|----------|-----------|--------------------|----------|-----------|
| AY       | Loss Cost | Severity | Frequency | Loss Cost          | Severity | Frequency |
| 2014.1   | \$88.8    | \$5,297  | 16.77     | \$79.8             | \$4,830  | 16.52     |
| 2013     | \$166.4   | \$5,785  | 28.77     | \$166.7            | \$5,779  | 28.84     |
| 2012     | \$175.5   | \$5,014  | 35.01     | \$175.1            | \$5,002  | 35.01     |
| 2011     | \$110.3   | \$4,585  | 24.07     | \$110.3            | \$4,583  | 24.07     |
| 2010     | \$196.9   | \$4,981  | 39.54     | \$196.9            | \$4,981  | 39.54     |
| 2009     | \$123.6   | \$4,558  | 27.11     | \$123.5            | \$4,555  | 27.11     |

Overall, over this five-and-a-half year period our estimates of ultimate loss costs have decreased by about 1%, and our estimate for 2014.1 decreased by about 10%.

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## Selection of Loss Trend Rates

### ***Introduction***

Loss trend rates are factors that are used to determine rate level indications. They are applied to the experience period incurred losses to adjust for 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 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 during the period the new premiums will be in effect (i.e., “future trend”).

Therefore, past trend rates should reflect the underlying trend patterns that occurred during the experience period. Future trend rates should reflect those same patterns that occurred during the experience period, as well as the likelihood that those patterns may change.

To derive estimates of appropriate loss trend rates, we perform a regression analysis using a model we developed, on our estimates of the Industry Alberta ultimate claim frequency, claim severity (including allocated loss adjustment expenses and a provision for unallocated loss adjustment expenses), and loss cost by accident year that we derive through the application of loss development factors and claim count development factors that we select (as we discuss in Section 5).



We perform our regression analysis by sub-coverage. In doing so, we reflect several parameters that could have an impact on the trends, such as time, seasonality, and, as appropriate, reform measures.

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<sup>21</sup> 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 analysed. In selecting future trend rates, if appropriate, we adjust our selected past trend rates after giving consideration to the changes that have occurred over the recent past if there is evidence of new patterns emerging.

### ***Time Period***

We present the experience by accident half-year, spanning the period 2000-1 to 2014-2, but in selecting past trend rates we generally give less consideration to periods prior to 2007-1 due to the reforms that occurred.

### ***Seasonality***

Some coverages exhibit what is referred to as “seasonality” – where claim costs (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. The Bodily Injury, Property

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<sup>21</sup> We do not present the findings for all the regression models that we review to deepen our understanding of the underlying trend patterns.

Damage, Medical, Disability Income, Death Benefits, Funeral, and Comprehensive coverages exhibit seasonality – and we reflect seasonality in analyzing trend patterns for these coverages. We do not find seasonality to be statistically significant for Collision, hence do not reflect seasonality in analyzing trend patterns for this coverage.

## ***Reforms***

The purpose of the reform parameter is to isolate and, in a sense, remove the impact that reforms had on the level of claim costs so that the underlying claim cost trend can be identified.

However, as we generally consider the claim experience that emerged following the reforms, we do not include reform parameters in our regression models.

## ***Other Considerations***

In selecting loss trend rates, we also consider:

- statistical significance of each parameter
- variance in results based on different historical time periods selected
- interdependence of frequency and severity trend patterns
- uncertainty in the estimated values

## ***Selection of Loss Trend Rates<sup>22</sup>***

### ***Bodily Injury***

For the 2015 SAR, we selected a past and future loss cost trend of +2.0%, with a “level change” factor at the 2011.2 accident half-year of 1.21 (to reflect what we observed to be a change in the severity level, possibly associated with the Sparrowhawk decision and erosion of the minor injury cap).

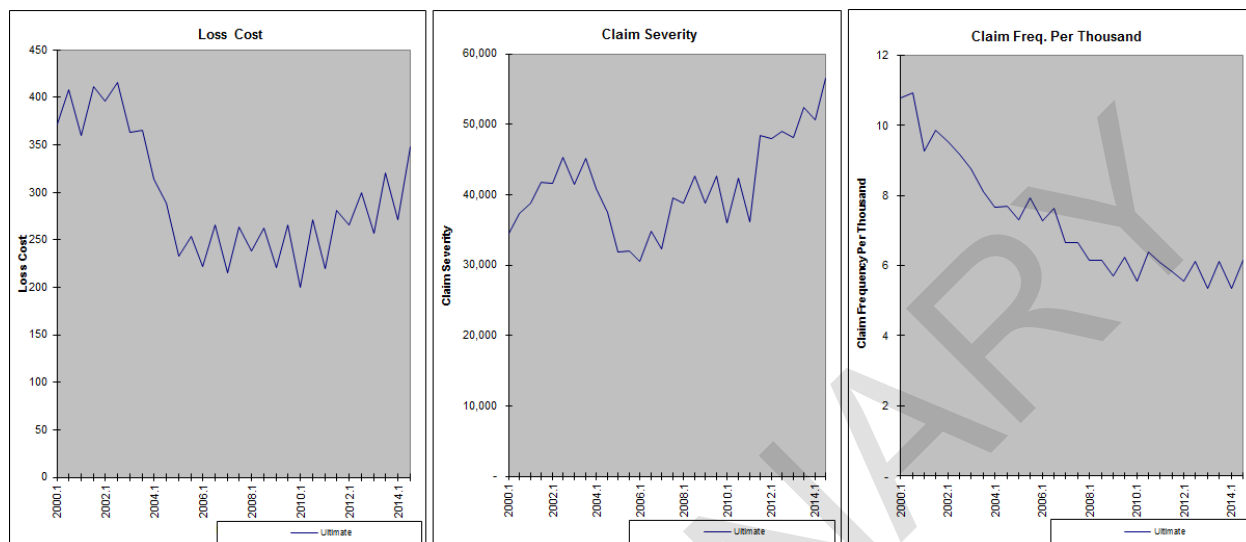
We estimate that during 2014-2, as compared to 2013-2, claim frequency increased by 0.5%, severity increased by 7.9%, and loss cost increased by 8.4%. We also estimate that during the accident year ending December 31, 2014, as compared to the accident year ending December 31, 2013, claim frequency increased by 0.2%, severity increased by 6.7%, and loss cost increased by 6.9%.

The following graphs display our estimate of the actual loss cost (average claim cost per vehicle), average severity (average claim cost per claim), and frequency rate (average claim incidence rate) over the period 2000-1 through 2014-2.<sup>23</sup>

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<sup>22</sup> The past frequency rates, severities, and loss costs discussed in this section, including those presented in the graphs, represent our estimates of what the frequency rates, severities, and loss costs have been. Our estimates are based on our ultimate claim count and claim amount estimates discussed in the previous section. Other actuaries may very well have different ultimate claim count and claim amount estimates, and hence different estimates of past frequency rates, severities, and loss costs.

<sup>23</sup> In our 2015 SAR, we adjusted the Bodily Injury data to reflect what we had estimated to have been the impact of the Alberta Court of Queen’s Bench decision on claim cost payments. As the impact of these adjustments is not material, we have not made those adjustments in this Annual Review.



A review of the historical data points (as depicted in the above graphs) indicates a considerable amount of variability. Severity has exhibited an upward trend since Bill 53, with a rather sharp increase in the second half of 2011 and first half of 2012. Frequency has generally exhibited a downward trend, but that downward trend has been leveling off.

Because of the sharp rise in severity, we test for a change in severity level during the second half of 2011. That test produces T-test statistics that are significant. As reported in our 2015 SAR report, we don't know the cause of the change in level, but based on the timing and information provided by IBC and insurers suspect that the change in level may to some extent be due to the January 2012 Sparrowhawk decision.

At the same time that severity experienced a sharp increase, frequency declined by approximately 10%. The T-test statistics for a change (decline) in level at 2011-2 for frequency are mixed (as frequency has experienced rather large declines before). Based on these mixed results, and as we are not aware of any reason for the decline in frequency, we do not include a parameter for a frequency level change in our model.

The indicated severity and frequency trends, associated Adjusted R-square values, indicated level change values, and T-test statistics, over various trend measurement periods, with no data exclusions – with and without consideration of the change in severity level - are presented in Appendix B.

The indicated loss cost trends and Adjusted R-square values for the period ending just prior to the observed change in severity level are summarized below.

|               | Loss Cost |             |
|---------------|-----------|-------------|
|               | Trend     | Adjusted R2 |
| 2005.2-2011.1 | +0.0%     | 82%         |
| 2006.2-2011.1 | -0.5%     | 82%         |
| 2007.2-2011.1 | -1.2%     | 77%         |

Based on this information, we select a past loss cost trend rate through 2011.1 of **+0.0%**.

The indicated statistics for the severity level change are summarized below.

**With Severity Level Change**

|               | <b>Severity</b> |                    |                              |
|---------------|-----------------|--------------------|------------------------------|
|               | <b>Trend</b>    | <b>Adjusted R2</b> | <b>Change in Level Value</b> |
| 2005.1-2014.2 | +4.4%           | 90%                | 1.10                         |
| 2006.1-2014.2 | +4.1%           | 89%                | 1.11                         |
| 2007.1-2014.2 | +2.6%           | 88%                | 1.16                         |
| 2008.1-2014.2 | +1.2%           | 87%                | 1.20                         |
| 2009.1-2014.2 | +2.6%           | 89%                | 1.17                         |
| 2010.1-2014.2 | +4.4%           | 93%                | 1.16                         |
| 2011.1-2014.2 | +4.7%           | 96%                | 1.23                         |
| 2011.2-2014.2 | +4.7%           | 82%                | NA                           |
| 2012.1-2014.2 | +5.0%           | 80%                | NA                           |

**With Severity Level Change**

|               | <b>Severity</b> |                    |                              |
|---------------|-----------------|--------------------|------------------------------|
|               | <b>Trend</b>    | <b>Adjusted R2</b> | <b>Change in Level Value</b> |
| 2004.2-2014.1 | +3.7%           | 86%                | 1.13                         |
| 2005.2-2014.1 | +4.6%           | 87%                | 1.09                         |
| 2006.2-2014.1 | +3.2%           | 84%                | 1.14                         |
| 2007.2-2014.1 | +0.7%           | 87%                | 1.22                         |
| 2008.2-2014.1 | +0.7%           | 85%                | 1.22                         |
| 2009.2-2014.1 | +2.7%           | 87%                | 1.18                         |
| 2010.2-2014.1 | +3.4%           | 86%                | 1.18                         |
| 2011.2-2014.1 | +3.4%           | 70%                | NA                           |

Based on these results (primarily those over the longer time horizon and giving consideration to (a) the uncertainty of the 2014.2 severity and (b) the indicated trends compared to our selected post severity level change trend (see below), we select a severity level change parameter of **1.10**.

The indicated loss cost trends and Adjusted R-square values for the period following the observed change in severity level are summarized below.

**Without Severity Level Change**

|               | <b>Loss Cost</b> |                    |
|---------------|------------------|--------------------|
|               | <b>Trend</b>     | <b>Adjusted R2</b> |
| 2011.2-2014.2 | +5.4%            | 86%                |
| 2012.1-2014.2 | +4.2%            | 87%                |

**Without Severity Level Change**

|               | <b>Loss Cost</b> |                    |
|---------------|------------------|--------------------|
|               | <b>Trend</b>     | <b>Adjusted R2</b> |
| 2011.2-2014.1 | +3.8%            | 78%                |

Based on these results, and giving consideration to the uncertainty of the 2014.2 estimates, we select a past/future loss cost trend beginning 2011.2 of +4.5%.

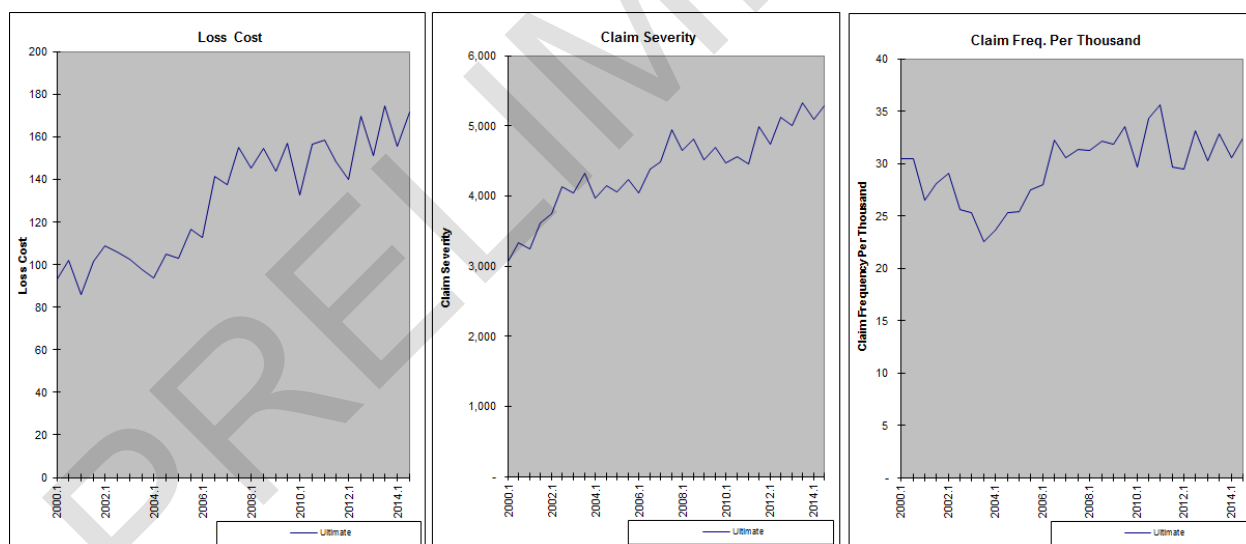
In summary, we select a past loss cost trend rate through 2011.1 of **+0.0%**, a 2011.2 level change of **+10%**, and a past/future loss cost trend beginning 2011.2 of **+4.5%**.

### *Property Damage*

For the 2015 SAR we selected a past and future loss cost trend rate of +3.0%.

We estimate that the loss cost for the second half of 2014 is approximately 2% lower than the loss cost for the second half of 2013 and that the loss cost for the accident year ending December 31, 2014 is approximately the same as the loss cost for the accident year ending December 31, 2013.

The following graphs display our estimate of the actual loss cost (average claim cost per vehicle), average severity (average claim cost per claim), and frequency rate (average claim incidence rate) over the period 2000-1 through 2014-2.



A review of the historical data points (as depicted in the above graphs) indicates a considerable amount of variability, with severity generally exhibiting an upward trend, and frequency exhibiting changing patterns, but generally leveling off in recent years.



The measured loss cost, severity, and frequency trends; associated Adjusted R-square values; and F-test values; over various trend measurement periods; with the seasonality parameter applied; and with no data exclusions, are presented in Appendix B and are summarized below.

|               | Loss Cost |             |
|---------------|-----------|-------------|
|               | Trend     | Adjusted R2 |
| 2005.1-2014.2 | +3.5%     | 68%         |
| 2006.1-2014.2 | +2.4%     | 66%         |
| 2007.1-2014.2 | +1.6%     | 62%         |
| 2008.1-2014.2 | +1.7%     | 56%         |
| 2009.1-2014.2 | +2.3%     | 57%         |
| 2010.1-2014.2 | +3.1%     | 58%         |
| 2011.1-2014.2 | +2.4%     | 34%         |

As the above tables and Appendix B show, the measured longer term loss cost trends hover around +1.5% to +3.5% with Adjusted R-square values that are not particularly strong – which we attribute to the general flatness of the frequency trend. (The Adjusted R-square values are stronger for severity.)

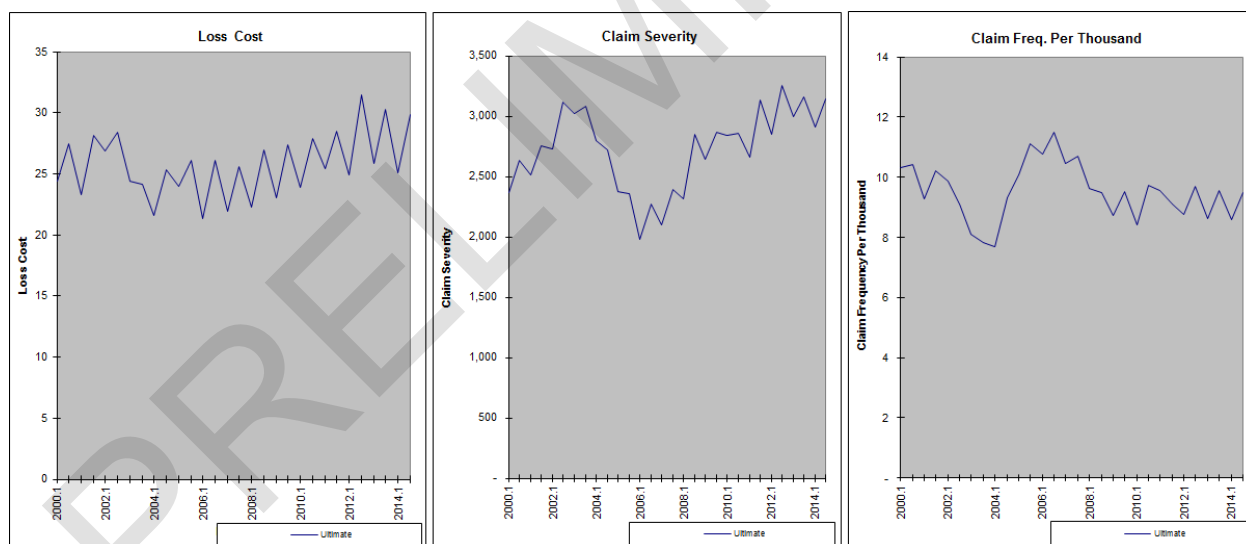
We select a past and future trend rate of **+3.0%**, primarily based on the measured trend over the five year period, 2010.1-2014.2 – the same as our 2015 SAR selected trend.

### ***Accident Benefits–Medical/Rehabilitation***

For the 2015 SAR we selected a past and future loss cost trend rate of +2.5%.

We estimate that the loss cost for the second half of 2014 is approximately 1% lower than the loss cost for the second half of 2013 and that the loss cost for the accident year ending December 31, 2014 is approximately 2% lower than the loss cost for the accident year ending December 31, 2013.

The following graphs display our estimate of the actual loss cost (average claim cost per vehicle), average severity (average claim cost per claim), and frequency rate (average claim incidence rate) over the period 2000-1 through 2014-2.



A review of the historical data points (as depicted in the above graphs) indicates a considerable amount of variability, with severity generally exhibiting an upward trend since 2005, and frequency exhibiting changing patterns, but leveling off in recent years.

The measured loss cost, severity, and frequency trends; associated Adjusted R-square values; and F-test values; over various trend measurement periods; with the seasonality parameter applied; and with no data exclusions, are presented in Appendix B and are summarized below.

|               | Loss Cost |             |
|---------------|-----------|-------------|
|               | Trend     | Adjusted R2 |
| 2005.1-2014.2 | +1.9%     | 88%         |
| 2006.1-2014.2 | +2.4%     | 94%         |
| 2007.1-2014.2 | +2.4%     | 93%         |
| 2008.1-2014.2 | +2.3%     | 92%         |
| 2009.1-2014.2 | +2.0%     | 90%         |
| 2010.1-2014.2 | +1.5%     | 87%         |
| 2011.1-2014.2 | +0.5%     | 88%         |

As the above tables and Appendix B show, the measured longer term trends hover around +2% with relatively strong Adjusted R-square values. The measured trends begin to level off in 2010.1, and this is largely due to a flattening of the severity trend.

Based on the above results we select a past and future loss cost trend of **+2.0%**, a half point lower than our 2015 SAR selection.

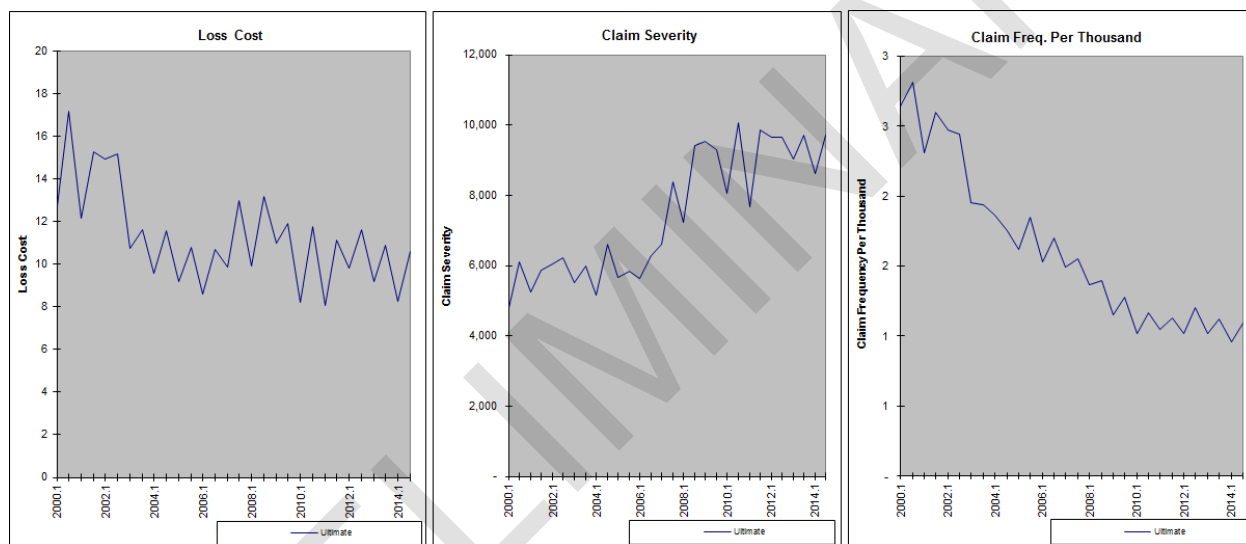
### ***Accident Benefits - Disability Income***

For the 2015 SAR we selected a past and future loss cost trend rate of -2.0%.

We estimate that the loss cost for the second half of 2014 is approximately 3% lower than the loss cost for the second half of 2013 and that the loss cost for the accident year ending December

31, 2014 is approximately 6% lower than the loss cost for the accident year ending December 31, 2013.

The following graphs display our estimate of the actual loss cost (average claim cost per vehicle), average severity (average claim cost per claim), and frequency rate (average claim incidence rate) over the period 2000-1 through 2014-2.



A review of the historical data points (as depicted in the above graphs) indicates a considerable amount of variability, with severity generally exhibiting an upward trend (in part, due to the 2007 reforms), but leveling off to some extent in recent years, and frequency exhibiting a generally downward trend, also leveling off to some extent in recent years.

The measured loss cost, severity, and frequency trends; associated Adjusted R-square values; and F-test values; over various trend measurement periods; with the seasonality parameter applied; and with no data exclusions, are presented in Appendix B and are summarized below.

|               | Loss Cost |             |
|---------------|-----------|-------------|
|               | Trend     | Adjusted R2 |
| 2007.1-2014.2 | -2.6%     | 77%         |
| 2008.1-2014.2 | -2.8%     | 72%         |
| 2009.1-2014.2 | -2.4%     | 65%         |
| 2010.1-2014.2 | -0.4%     | 76%         |
| 2011.1-2014.2 | -1.0%     | 69%         |

As the above table and Appendix B show, the measured trends hover around -2.5% for periods beginning 2007 through 2009 with moderately strong Adjusted R-square values; then due to a modest leveling off of frequency increase but remain negative beginning in 2010.

Based on the above results – primarily the observed trend over the period 2007.1 – 2014.2, we select a past and future loss cost trend of **-2.5%**.

### ***Accident Benefits - Death Benefits***

For the 2015 SAR we selected a past and future loss cost trend rate of -2.0%.

We estimate that the loss cost for the second half of 2014 is approximately 8% lower than the loss cost for the second half of 2013 and that the loss cost for the accident year ending December 31, 2014 is approximately 2% lower than the loss cost for the accident year ending December 31, 2013.

Due to the low claim cost volume for this coverage, we consider the trend pattern that has occurred over the ten-year period 2005.1-2014.2, with the seasonality parameter applied, and with no data exclusions: -5.1% - but also consider our 2015 SAR selected trend.

We select a past and future loss cost trend rate of **-3.5%**.

### ***Accident Benefits - Funeral Benefits***

For the 2015 SAR we selected a past and future loss cost trend rate of **-4.5%**.

We estimate that the loss cost for the second half of 2014 is approximately 9% lower than the loss cost for the second half of 2013 and that the loss cost for the accident year ending December 31, 2014 is approximately 6% lower than the loss cost for the accident year ending December 31, 2013.

Due to the low claim cost volume for this coverage and the increase in benefits that became effective on March 1, 2007, we consider the loss cost trend pattern that has occurred over the seven-year period 2008.1-2014.2, with the seasonality parameter applied, and with no data exclusions: **-7.2%** - but also consider our 2015 SAR selected trend.

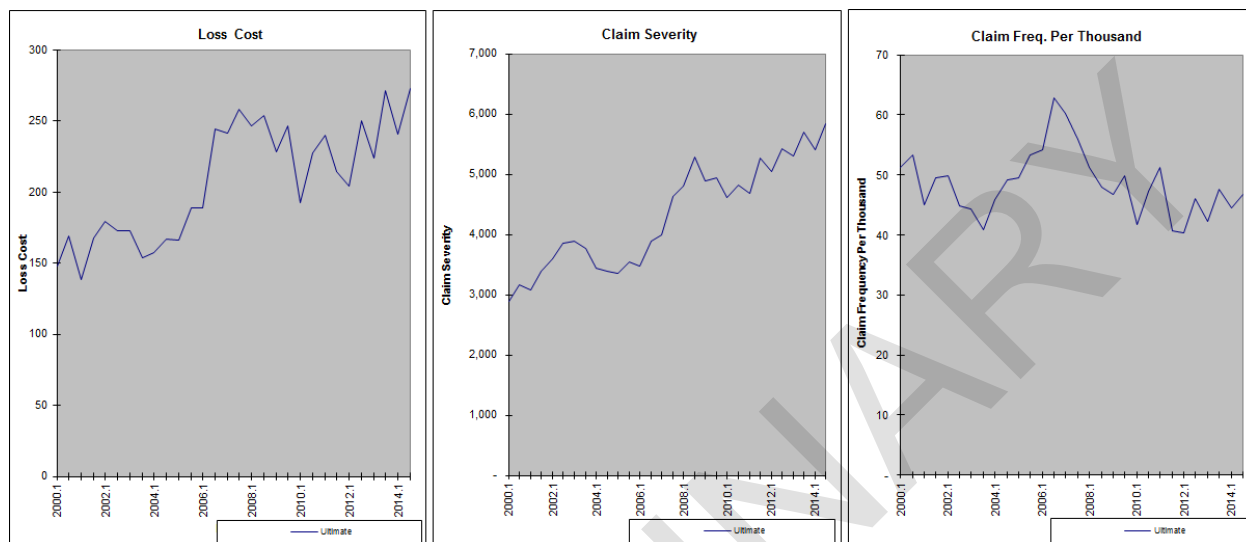
We select a past and future loss cost trend rate of **-5.5%**.

### ***Collision***

For the 2015 SAR we selected a past and future loss cost trend rate of **+3.0%**.

We estimate that the loss cost for the second half of 2014 is approximately 1% higher than the loss cost for the second half of 2013 and that the loss cost for the accident year ending December 31, 2014 is approximately 4% higher than the loss cost for the accident year ending December 31, 2013.

The following graphs display our estimate of the actual loss cost (average claim cost per vehicle), average severity (average claim cost per claim), and frequency rate (average claim incidence rate) over the period 2000-1 through 2014-2.



A review of the historical data points (as depicted in the above graphs) indicates a considerable amount of variability, with severity generally exhibiting an upward trend, and frequency exhibiting changing patterns, but increasing over the recent years..

The measured loss cost, severity, and frequency trends; associated Adjusted R-square values; and F-test values; over various trend measurement periods; with the seasonality parameter not applied; and with no data exclusions, are presented in Appendix B and are summarized below.

|               | Loss Cost |             |
|---------------|-----------|-------------|
|               | Trend     | Adjusted R2 |
| 2005.1-2014.2 | +2.2%     | 19%         |
| 2006.1-2014.2 | +0.9%     | -1%         |
| 2007.1-2014.2 | +0.3%     | -7%         |
| 2008.1-2014.2 | +1.1%     | -3%         |
| 2009.1-2014.2 | +2.9%     | 17%         |
| 2010.1-2014.2 | +5.6%     | 45%         |
| 2011.1-2014.2 | +5.4%     | 28%         |

As the above table and Appendix B show, the measured trends are generally increasing over the time periods, but with weak Adjusted R-square values (which is due to the flatness of the frequency trend).

In the following table we present the measured severity and frequency trends, with associated Adjusted R-square values, with the seasonality parameter applied for severity, but not for frequency.



|               | Severity |             | Frequency |             |
|---------------|----------|-------------|-----------|-------------|
|               | Trend    | Adjusted R2 | Trend     | Adjusted R2 |
| 2005.1-2014.2 | +5.0%    | 80%         | - 2.8%    | 43%         |
| 2006.1-2014.2 | +4.3%    | 75%         | - 3.4%    | 49%         |
| 2007.1-2014.2 | +3.1%    | 73%         | - 2.9%    | 35%         |
| 2008.1-2014.2 | +2.4%    | 64%         | - 1.4%    | 7%          |
| 2009.1-2014.2 | +3.4%    | 80%         | - 0.7%    | -7%         |
| 2010.1-2014.2 | +4.6%    | 96%         | +0.6%     | -11%        |
| 2011.1-2014.2 | +4.3%    | 95%         | +0.5%     | -16%        |

The above table reveals severity trends ranging from +2.4% to +5.0% (about +4.5% over the more recent periods) with stronger Adjusted R-square values, and declining or relatively flat frequency trends (about +0.5% over the more recent periods) with weaker Adjusted R-square values.

Based on the above results – primarily the 2010.1-2014.2 time period - we select a past and future loss cost trend of **+5.0%**.

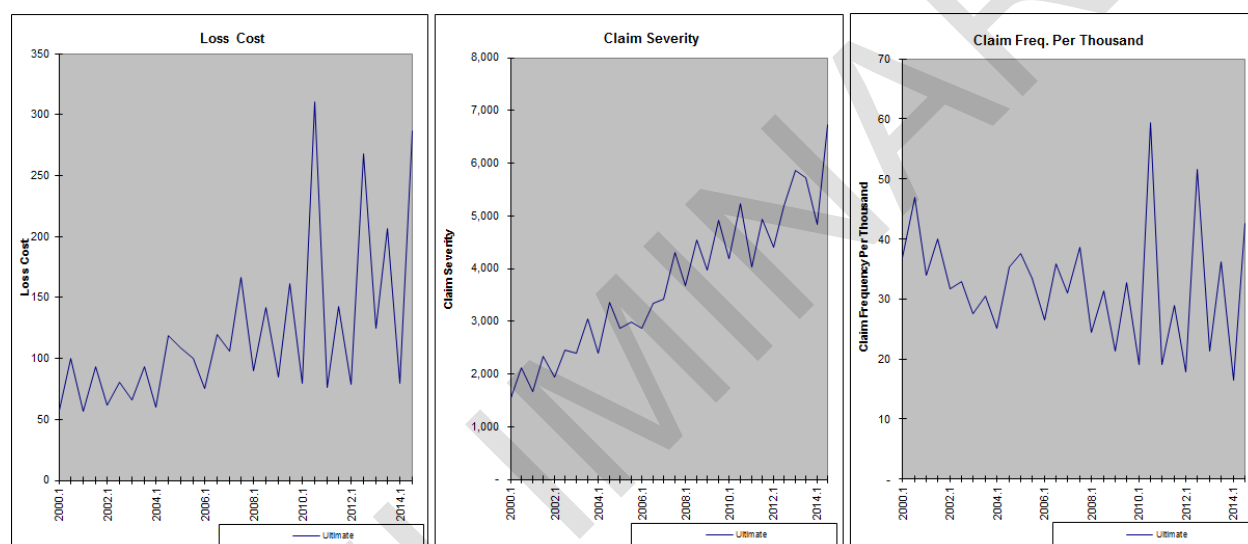
### ***Comprehensive***

In our 2015 SAR we selected a past and future loss cost trend rate of +1.0%, based on claim experience excluding claims arising from catastrophes.

We estimate that the loss cost for the second half of 2014 is approximately 39% higher than the loss cost for the second half of 2013 and that the loss cost for the accident year ending December

31, 2014 is approximately 10% higher than the loss cost for the accident year ending December 31, 2013.

The following graphs display our estimate of the actual loss cost (average claim cost per vehicle), average severity (average claim cost per claim), and frequency rate (average claim incidence rate) over the period 2000-1 through 2014-2.



As can be seen from the graphs, the Comprehensive coverage claim experience has been quite volatile (particularly for frequency). This is largely due to the exposure to catastrophes. (See discussion of catastrophe losses later in this report.) For this reason, we remove catastrophe losses from the historical experience for purposes of analysing and selecting trend rates for this coverage. However, GISA has not yet released its catastrophe report as of December 31, 2014. Therefore, we provisionally select same loss cost trend as what we presented in our 2015 SAR: **+1.0%**, but recognize that we may very well change our selection after reviewing the 2014 catastrophe report.

### ***All Perils***

We select a past and future loss cost trend rate that is in line with our selected loss cost trend rates for Collision and Comprehensive, **+4.0%**.

### ***Specified Perils***

We provisionally select the same past and future loss cost trend rate as we do for Comprehensive, **+1.0%**.

### ***Underinsured Motorists***

We select a past and future loss cost trend rate that is in line with the observed Bodily Injury severity trends, **+4.5%**.

\*\*\*\*\*

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 2015 SAR

**Estimated Annual Past/Future Loss Cost Trend Rates**

| <b>Coverages</b>               | <b>2015 AR</b>            | <b>2015 SAR</b>     |
|--------------------------------|---------------------------|---------------------|
|                                |                           |                     |
| <b>TPL-Bodily Injury</b>       | +0.0%/+4.5% <sup>24</sup> | +2.0% <sup>25</sup> |
| <b>TPL-Property Damage</b>     | +3.0%                     | +3.0%               |
| <b>TPL - Subtotal</b>          | +4.0%                     | +2.5%               |
|                                |                           |                     |
| <b>AB-Death</b>                | -3.5%                     | -2.0%               |
| <b>AB-Funeral</b>              | -5.5%                     | -4.5%               |
| <b>AB-Medical/Rehab</b>        | +2.0%                     | +2.5%               |
| <b>AB-Disability Income</b>    | -2.5%                     | -2.0%               |
| <b>AB – Uninsured Motorist</b> | +0.0%                     | +0.0%               |
| <b>AB - Total</b>              | +1.0%                     | +1.0%               |
|                                |                           |                     |
| <b>Collision</b>               | +5.0%                     | +3.0%               |
| <b>Comprehensive</b>           | +1.0% <sup>26</sup>       | +1.0%               |
| <b>All Perils</b>              | +4.0%                     | +2.0%               |
| <b>Specified Perils</b>        | +1.0% <sup>27</sup>       | +1.0%               |
| <b>Underinsured Motorists</b>  | +4.5%                     | +2.0%               |

<sup>24</sup> Past/future cut-off is 2011.2; severity level adjustment of +10% for periods prior to 2011.2.

<sup>25</sup> With a severity level adjustment of +21% for periods prior to 2011.2.

<sup>26</sup> Provisional selection.

<sup>27</sup> Provisional selection.

## 7

## 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 and trend rates, allocated loss adjustment expenses are included with the reported Industry loss data. We provide for unallocated loss adjustment expenses (ULAE) through the application of factors that are published and applied by GISA in the AIX exhibits to the accident year experience.

As points of reference for the Board as it reviews individual insurer rate filings, we provide the Board with the Industry average ULAE expense provisions published by GISA.

### ULAE Provision - Total Auto Province of Alberta

| Year   | 2005 | 2006 | 2007 | 2008 | 2009  | 2010  | 2011 | 2012 | 2013 | 2014 |
|--------|------|------|------|------|-------|-------|------|------|------|------|
| ULAE % | 9.7% | 8.7% | 8.9% | 8.4% | 10.5% | 10.2% | 9.5% | 9.1% | 9.9% | 9.3% |

We include these provisions in our analysis.

# 8

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## Catastrophe Provision

GISA has not yet updated its catastrophe loss report to reflect 2014 claim experience and so the discussion that follows is the same as we presented in our year-end 2013 Annual Review. We will update our analysis and recommended benchmark when the updated report is released.

Comprehensive coverage (in particular) 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 cannot be predicted, 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.

To provide the Board with a point of reference as it reviews individual insurer rate filings, based on our review of the catastrophe losses that have occurred in Alberta for private passenger vehicle Comprehensive coverage as reported in GISA’s Catastrophe Report for Alberta from 1993-2013 (as shown below), and information presented by IBC and other stakeholders, we find a provision of 40% to be reasonable.

## Alberta Comprehensive Coverage

| YEAR              | NUMBER<br>OF TOTAL<br>CLAIMS | NUMBER<br>OF CAT.<br>CLAIMS | Catastrophe<br>Claim % | AMOUNT<br>OF NON-CAT.<br>LOSSES | AMOUNT<br>OF CAT.<br>LOSSES | Catastrophe<br>Factor |
|-------------------|------------------------------|-----------------------------|------------------------|---------------------------------|-----------------------------|-----------------------|
| 1994              | 85,000                       | 1,629                       | 1.9%                   | 75,222,532                      | 2,867,745                   | 1.038                 |
| 1995              | 80,528                       | 13,394                      | 16.6%                  | 69,740,431                      | 27,882,535                  | 1.400                 |
| 1996              | 76,791                       | 14,203                      | 18.5%                  | 69,942,760                      | 34,020,082                  | 1.486                 |
| 1997              | 56,532                       | 399                         | 0.7%                   | 70,988,133                      | 691,552                     | 1.010                 |
| 1998              | 61,016                       | 7,358                       | 12.1%                  | 77,543,655                      | 19,192,563                  | 1.248                 |
| 1999              | 50,802                       | 1,581                       | 3.1%                   | 77,153,192                      | 2,558,841                   | 1.033                 |
| 2000              | 54,351                       | 6,955                       | 12.8%                  | 84,860,237                      | 17,376,959                  | 1.205                 |
| 2001              | 50,860                       | 3,094                       | 6.1%                   | 94,166,216                      | 9,671,236                   | 1.103                 |
| 2002              | 46,490                       | 1,933                       | 4.2%                   | 98,394,252                      | 4,388,752                   | 1.045                 |
| 2003              | 43,068                       | 3,186                       | 7.4%                   | 106,445,316                     | 11,686,052                  | 1.110                 |
| 2004              | 46,345                       | 6,136                       | 13.2%                  | 112,609,249                     | 25,613,362                  | 1.227                 |
| 2005              | 57,486                       | 14,714                      | 25.6%                  | 125,896,210                     | 42,844,189                  | 1.340                 |
| 2006              | 54,273                       | 5,559                       | 10.2%                  | 152,320,523                     | 18,597,807                  | 1.122                 |
| 2007              | 65,009                       | 12,849                      | 19.8%                  | 194,348,299                     | 60,646,002                  | 1.312                 |
| 2008              | 54,530                       | 5,443                       | 10.0%                  | 206,645,891                     | 24,198,541                  | 1.117                 |
| 2009              | 55,113                       | 8,002                       | 14.5%                  | 206,482,348                     | 44,789,940                  | 1.217                 |
| 2010              | 81,709                       | 38,940                      | 47.7%                  | 223,263,925                     | 183,997,214                 | 1.824                 |
| 2011              | 50,834                       | 9,385                       | 18.5%                  | 188,583,617                     | 44,763,683                  | 1.237                 |
| 2012              | 76,295                       | 34,816                      | 45.6%                  | 211,268,646                     | 170,956,731                 | 1.809                 |
| 2013              | 65,095                       | 19,673                      | 30.2%                  | 243,052,986                     | 130,514,575                 | 1.537                 |
| All Years         | 1,212,127                    | 209,249                     | 17.3%                  | 2,688,928,418                   | 877,258,361                 | 1.326                 |
| Last 15 Years     | 852,260                      | 172,266                     | 20.2%                  | 2,325,490,907                   | 792,603,884                 | 1.341                 |
| Last 10 Years     | 606,689                      | 155,517                     | 25.6%                  | 1,864,471,694                   | 746,922,044                 | 1.401                 |
| Last 5 Years      | 329,046                      | 110,816                     | 33.7%                  | 1,072,651,522                   | 575,022,143                 | 1.536                 |
| All ex.HH/LL      | 956,005                      | 133,513                     | 14.0%                  | 2,082,928,316                   | 519,054,023                 | 1.249                 |
| Last 15 ex. HH/LL | 604,843                      | 94,996                      | 15.7%                  | 1,697,160,567                   | 430,702,346                 | 1.254                 |
| Last 10 ex. HH/LL | 351,506                      | 70,759                      | 20.1%                  | 1,159,649,324                   | 349,171,751                 | 1.301                 |
| All ex.H/L        | 1,084,059                    | 169,910                     | 15.7%                  | 2,376,135,001                   | 692,569,595                 | 1.291                 |
| Last 15 ex. H/L   | 727,483                      | 131,745                     | 18.1%                  | 2,005,284,729                   | 606,047,829                 | 1.302                 |
| Last 10 ex. H/L   | 478,635                      | 111,134                     | 23.2%                  | 1,508,809,459                   | 544,327,023                 | 1.361                 |
| Last 5 ex. H/L    | 196,503                      | 63,874                      | 32.5%                  | 641,014,919                     | 346,261,246                 | 1.540                 |
| Time Wgtd. Ex H/L | 887,392                      | 100,876                     | 11.4%                  | 1,616,276,896                   | 328,428,351                 | 1.203                 |
| Selected          |                              |                             |                        |                                 |                             | <b>1.400</b>          |

## 9

## Investment Income on Cash Flow

The selected provision for claim cost should be adjusted (reduced) to reflect the investment income earned on the cash flows arising from the insurance operations (i.e., the premium collected before it is used to pay claim costs and other expenses). It has been the Board's position that the selected investment rate can be a risk-free rate based on Government of Canada bond yields.

As a point of reference for the Board as it reviews individual insurer rate filings, we calculate an investment rate of 1.5%, in a manner consistent with the way in which the Board selected the investment rate of 1.1% for the 2015 SAR; that is, based on the Alberta Government's forecast of risk-free investment rates.

The latest Alberta Government forecasts for short-term (3-month bills) and long-term (10-year bonds) yields as follows:<sup>28</sup>

| <b>Year</b> | <b>Short-term</b> | <b>Long-term</b> |
|-------------|-------------------|------------------|
| 2016        | 0.95%             | 2.65%            |
| 2017        | 1.60%             | 3.40%            |

Weighting the forecasted short-term (80%) and long-term (20%)<sup>29</sup> yields results in average yields of approximately 1.29% for 2016 and 1.96% for 2017. Weighting these estimated 2016 and 2017 yields by 75%/25%<sup>30</sup>, respectively, results in an average yield of 1.5% (rounded).

<sup>28</sup> Source: Government of Alberta 1st Quarter Update of Budget 2015 Forecast.

<sup>29</sup> The 80%/20% weights are intended to approximate a duration of 2.2 years – the average number of years to settle Basic and Additional coverages claims.

<sup>30</sup> The 75%/25% weights target an average written date of October 1, 2016. This date is based on the following assumptions: (a) the interest rate will apply to filings submitted between October 1, 2015 and March 31, 2016, (b) the average filing submitted



Subject to the following comment, we recommend the Board consider the 1.5% rate as appropriate for all coverages.

Should the Government of Alberta again update its interest rate forecast before October 1, 2106, 2015, we recommend the Board consider any such updates in determining the risk-free interest rate benchmark.

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during this time period is January 1, 2016, (c) the average lag between filing submission and effective date is three months, and (d) the average written date is October 1, 2016.

# 10

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## Health Cost Recovery

The Ministry of Health and Wellness has announced the 2015 Health Cost Recovery assessment percentage to be 6.44% (of written premium). The 2016 assessment has not yet been announced.

# 11

## Operating Expenses

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

The IBC expense survey has been replaced with a new GISA Automobile Insurance Financial Information Report, beginning with the 2012 calendar year. The 2013 report was released in November 2014. The 2014 report has not yet been released. We will update the information presented in this section when the 2014 report is released.

The Automobile Insurance Financial Information Report includes an “Industry Expense Report” for private passenger vehicles, by province. The 2013 Industry expense ratios for Alberta as presented in the GISA report as a percentage of direct written premiums are as follows.

|                            | <b>2013 GISA Industry<br/>Expense Report</b> |
|----------------------------|----------------------------------------------|
| Direct Commissions         | 10.4%                                        |
| Contingent Commissions     | 1.1%                                         |
| Total Commissions          | 11.5%                                        |
| Premium and Fire Taxes     | 2.8%                                         |
| Other Acquisition Expenses | 3.3%                                         |
| General Expenses           | 6.5%                                         |
| All Other Expenses         |                                              |

|                |                      |
|----------------|----------------------|
| Total Expenses | 24.2 <sup>31</sup> % |
|----------------|----------------------|

We note the following Disclaimer issued by GISA as respects the expense figures presented in its 2012 Expense Report:

*This is the first year GISA has collected and published automobile insurance industry financial information. Users are advised to use this information with caution, and be aware that this report contains only one year of data, and as such does not reflect the cyclical nature of the industry...The quality of the Industry Expense Report for PPA is dependent on the accuracy of the data filed by insurers...An independent data audit of the data submission in the GISA reporting template has not been performed."*

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<sup>31</sup> These ratios presented in the 2013 Industry Expense Report are the weighted average expense ratios calculated by GISA using the direct written premiums of each insurer as weights.

# 12

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## Profit

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

# 13

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## Definitions of Key Terms

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

### 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 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 two 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 (PD) coverage protects the insured against liability arising from an accident that causes damage to the property of another person.

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 dependants 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.

## **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, 2013 for injuries suffered in an automobile accident that occurred on December 15, 2012, is considered to be an accident year 2012 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 2013 and 5 TPL claims occurred during 2013, the company's TPL claim frequency for 2013 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:

- (a) 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
- (b) Reported incurred losses and ALAE also develop because, for a number of reasons, the initial case reserves established by claims adjusters, can not fully and accurately reflect the amount the claim will ultimately settle at. This pattern of under-reserving and over-reserving is common within the insurance Industry (although the degree to which reported incurred losses and ALAE are under-reserved or over-reserved varies by company, jurisdiction, line of business, etc.). 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 and 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:

- (a) the total aggregate dollar amount of losses paid on all reported claims as of a certain date (referred to as the valuation date), and
- (b) 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 loss 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, plus \$25,000, plus \$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 excess of the assets of an insurance company over 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 is comprised of 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 (a) underwriting profit, and (b) 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

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 measured over a one-year period.

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## Closing

This report was prepared by Paula Elliott, FCAS, FCIA and Ted Zubulake, FCAS, FCIA, MAAA of Oliver Wyman.

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

Sincerely,



Paula Elliott, FCIA, FCAS  
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Ted J. Zubulake, FCIA, FCAS  
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## Appendix A

**Exhibit 1:** Selected reported claim count and reported incurred claim amount development factors.

**Exhibit 2:** Historical reported claim count, reported incurred claim amount, and reported paid claim amount (for Bodily Injury only) triangles.

**Exhibit 3:** Calculation of loss cost discount factors.



**TPL BI**  
**Estimated Ultimate Incurred Counts**  
**Incurred Counts Development Method**

| Accident<br>Semester | Car-Years<br>as of<br>12/31/2014 | Claim Counts<br>as of<br>12/31/2014 | Cumulative<br>Development<br>Factors | Estimated<br>Ultimate<br>Incurred Counts |
|----------------------|----------------------------------|-------------------------------------|--------------------------------------|------------------------------------------|
| (1)                  | (2)                              | (3)                                 | (4)                                  | (5)                                      |
| Jun-00               | 782,580                          | 8,443                               | 1.000                                | 8,443                                    |
| Dec-00               | 810,796                          | 8,860                               | 1.000                                | 8,860                                    |
| Jun-01               | 830,225                          | 7,690                               | 1.000                                | 7,690                                    |
| Dec-01               | 851,902                          | 8,394                               | 1.000                                | 8,394                                    |
| Jun-02               | 834,467                          | 7,954                               | 1.000                                | 7,954                                    |
| Dec-02               | 869,889                          | 7,983                               | 1.000                                | 7,983                                    |
| Jun-03               | 853,493                          | 7,486                               | 1.000                                | 7,486                                    |
| Dec-03               | 874,537                          | 7,075                               | 1.000                                | 7,075                                    |
| Jun-04               | 861,327                          | 6,598                               | 1.000                                | 6,598                                    |
| Dec-04               | 888,617                          | 6,840                               | 1.000                                | 6,840                                    |
| Jun-05               | 884,451                          | 6,448                               | 1.000                                | 6,448                                    |
| Dec-05               | 939,959                          | 7,451                               | 1.000                                | 7,451                                    |
| Jun-06               | 945,710                          | 6,881                               | 0.999                                | 6,877                                    |
| Dec-06               | 1,001,691                        | 7,660                               | 0.998                                | 7,647                                    |
| Jun-07               | 1,002,213                        | 6,691                               | 0.997                                | 6,670                                    |
| Dec-07               | 1,056,660                        | 7,075                               | 0.995                                | 7,037                                    |
| Jun-08               | 1,052,706                        | 6,509                               | 0.992                                | 6,459                                    |
| Dec-08               | 1,097,553                        | 6,824                               | 0.989                                | 6,751                                    |
| Jun-09               | 1,080,218                        | 6,246                               | 0.984                                | 6,149                                    |
| Dec-09               | 1,119,434                        | 7,122                               | 0.979                                | 6,976                                    |
| Jun-10               | 1,100,281                        | 6,274                               | 0.975                                | 6,119                                    |
| Dec-10               | 1,147,235                        | 7,563                               | 0.969                                | 7,331                                    |
| Jun-11               | 1,128,779                        | 7,126                               | 0.963                                | 6,864                                    |
| Dec-11               | 1,178,668                        | 7,162                               | 0.957                                | 6,855                                    |
| Jun-12               | 1,172,340                        | 6,806                               | 0.954                                | 6,495                                    |
| Dec-12               | 1,224,777                        | 7,970                               | 0.939                                | 7,486                                    |
| Jun-13               | 1,215,606                        | 7,033                               | 0.923                                | 6,491                                    |
| Dec-13               | 1,274,980                        | 8,624                               | 0.905                                | 7,802                                    |
| Jun-14               | 1,261,700                        | 7,916                               | 0.852                                | 6,746                                    |
| Dec-14               | 1,285,927                        | 8,592                               | 0.920                                | 7,905                                    |
| Total                | 30,628,723                       | 221,296                             |                                      | 215,882                                  |

**TPL BI**  
**Estimated Ultimate Incurred Losses**  
**Incurred Losses Development Method**  
**Losses in \$ 000s**

| Accident<br>Semester | Car-Years<br>as of<br>12/31/2014 | Losses<br>as of<br>12/31/2014 | Cumulative<br>Development<br>Factors | Estimated<br>Ultimate<br>Incurred Losses |
|----------------------|----------------------------------|-------------------------------|--------------------------------------|------------------------------------------|
| (1)                  | (2)                              | (3)                           | (4)                                  | (5)                                      |
| Jun-00               | 782,580                          | 264,515                       | 1.000                                | 264,515                                  |
| Dec-00               | 810,796                          | 300,780                       | 1.000                                | 300,780                                  |
| Jun-01               | 830,225                          | 277,614                       | 1.000                                | 277,614                                  |
| Dec-01               | 851,902                          | 326,097                       | 1.000                                | 326,097                                  |
| Jun-02               | 834,467                          | 303,494                       | 1.000                                | 303,494                                  |
| Dec-02               | 869,889                          | 332,249                       | 1.000                                | 332,249                                  |
| Jun-03               | 853,493                          | 283,875                       | 1.000                                | 283,875                                  |
| Dec-03               | 874,537                          | 291,899                       | 1.000                                | 291,899                                  |
| Jun-04               | 861,327                          | 244,815                       | 1.000                                | 244,815                                  |
| Dec-04               | 888,617                          | 232,423                       | 1.000                                | 232,423                                  |
| Jun-05               | 884,451                          | 187,570                       | 1.000                                | 187,570                                  |
| Dec-05               | 939,959                          | 216,803                       | 1.003                                | 217,398                                  |
| Jun-06               | 945,710                          | 191,960                       | 1.005                                | 192,890                                  |
| Dec-06               | 1,001,691                        | 242,959                       | 1.010                                | 245,438                                  |
| Jun-07               | 1,002,213                        | 194,861                       | 1.017                                | 198,218                                  |
| Dec-07               | 1,056,660                        | 248,746                       | 1.026                                | 255,298                                  |
| Jun-08               | 1,052,706                        | 223,727                       | 1.035                                | 231,657                                  |
| Dec-08               | 1,097,553                        | 254,616                       | 1.045                                | 265,953                                  |
| Jun-09               | 1,080,218                        | 203,522                       | 1.060                                | 215,667                                  |
| Dec-09               | 1,119,434                        | 249,218                       | 1.081                                | 269,283                                  |
| Jun-10               | 1,100,281                        | 180,508                       | 1.107                                | 199,750                                  |
| Dec-10               | 1,147,235                        | 246,283                       | 1.145                                | 282,106                                  |
| Jun-11               | 1,128,779                        | 191,627                       | 1.185                                | 227,060                                  |
| Dec-11               | 1,178,668                        | 243,350                       | 1.246                                | 303,111                                  |
| Jun-12               | 1,172,340                        | 213,641                       | 1.338                                | 285,808                                  |
| Dec-12               | 1,224,777                        | 230,022                       | 1.462                                | 336,301                                  |
| Jun-13               | 1,215,606                        | 177,739                       | 1.597                                | 283,768                                  |
| Dec-13               | 1,274,980                        | 213,353                       | 1.742                                | 371,722                                  |
| Jun-14               | 1,261,700                        | 169,792                       | 1.841                                | 312,664                                  |
| Dec-14               | 1,285,927                        | 178,464                       | 2.289                                | 408,590                                  |
| Total                | 30,628,723                       | 7,116,523                     |                                      | 8,148,013                                |

**TPL PD**  
**Estimated Ultimate Incurred Counts**  
**Incurred Counts Development Method**

| Accident<br>Semester | Car-Years<br>as of<br>12/31/2014 | Claim Counts<br>as of<br>12/31/2014 | Cumulative<br>Development<br>Factors | Estimated<br>Ultimate<br>Incurred Counts |
|----------------------|----------------------------------|-------------------------------------|--------------------------------------|------------------------------------------|
| (1)                  | (2)                              | (3)                                 | (4)                                  | (5)                                      |
| Jun-00               | 782,580                          | 23,818                              | 1.000                                | 23,818                                   |
| Dec-00               | 810,796                          | 24,731                              | 1.000                                | 24,731                                   |
| Jun-01               | 830,225                          | 21,967                              | 1.000                                | 21,967                                   |
| Dec-01               | 851,902                          | 23,891                              | 1.000                                | 23,891                                   |
| Jun-02               | 834,467                          | 24,234                              | 1.000                                | 24,234                                   |
| Dec-02               | 869,889                          | 22,313                              | 1.000                                | 22,313                                   |
| Jun-03               | 853,493                          | 21,590                              | 1.000                                | 21,590                                   |
| Dec-03               | 874,537                          | 19,748                              | 1.000                                | 19,748                                   |
| Jun-04               | 861,327                          | 20,360                              | 1.000                                | 20,360                                   |
| Dec-04               | 888,617                          | 22,515                              | 1.000                                | 22,515                                   |
| Jun-05               | 884,451                          | 22,496                              | 1.000                                | 22,496                                   |
| Dec-05               | 939,959                          | 25,854                              | 1.000                                | 25,854                                   |
| Jun-06               | 945,710                          | 26,426                              | 1.000                                | 26,426                                   |
| Dec-06               | 1,001,691                        | 32,324                              | 1.000                                | 32,324                                   |
| Jun-07               | 1,002,213                        | 30,647                              | 1.000                                | 30,647                                   |
| Dec-07               | 1,056,660                        | 33,105                              | 1.000                                | 33,105                                   |
| Jun-08               | 1,052,706                        | 32,857                              | 1.000                                | 32,857                                   |
| Dec-08               | 1,097,553                        | 35,308                              | 1.000                                | 35,308                                   |
| Jun-09               | 1,080,218                        | 34,407                              | 1.000                                | 34,407                                   |
| Dec-09               | 1,119,434                        | 37,476                              | 1.000                                | 37,476                                   |
| Jun-10               | 1,100,281                        | 32,662                              | 1.000                                | 32,662                                   |
| Dec-10               | 1,147,235                        | 39,323                              | 1.000                                | 39,323                                   |
| Jun-11               | 1,128,779                        | 40,143                              | 1.000                                | 40,143                                   |
| Dec-11               | 1,178,668                        | 35,020                              | 1.000                                | 35,020                                   |
| Jun-12               | 1,172,340                        | 34,603                              | 1.000                                | 34,596                                   |
| Dec-12               | 1,224,777                        | 40,627                              | 0.999                                | 40,583                                   |
| Jun-13               | 1,215,606                        | 36,818                              | 0.999                                | 36,763                                   |
| Dec-13               | 1,274,980                        | 41,827                              | 0.999                                | 41,800                                   |
| Jun-14               | 1,261,700                        | 38,650                              | 0.999                                | 38,592                                   |
| Dec-14               | 1,285,927                        | 37,831                              | 1.103                                | 41,738                                   |
| Total                | 30,628,723                       | 913,571                             |                                      | 917,287                                  |

**TPL PD**  
**Estimated Ultimate Incurred Losses**  
**Incurred Losses Development Method**  
**Losses in \$ 000s**

| Accident<br>Semester | Car-Years<br>as of<br>12/31/2014 | Losses<br>as of<br>12/31/2014 | Cumulative<br>Development<br>Factors | Estimated<br>Ultimate<br>Incurred Losses |
|----------------------|----------------------------------|-------------------------------|--------------------------------------|------------------------------------------|
| (1)                  | (2)                              | (3)                           | (4)                                  | (5)                                      |
| Jun-00               | 782,580                          | 66,258                        | 1.000                                | 66,258                                   |
| Dec-00               | 810,796                          | 75,034                        | 1.000                                | 75,034                                   |
| Jun-01               | 830,225                          | 66,306                        | 1.000                                | 66,306                                   |
| Dec-01               | 851,902                          | 80,355                        | 1.000                                | 80,355                                   |
| Jun-02               | 834,467                          | 83,281                        | 1.000                                | 83,281                                   |
| Dec-02               | 869,889                          | 84,784                        | 1.000                                | 84,784                                   |
| Jun-03               | 853,493                          | 79,854                        | 1.000                                | 79,854                                   |
| Dec-03               | 874,537                          | 78,214                        | 1.000                                | 78,214                                   |
| Jun-04               | 861,327                          | 73,268                        | 1.000                                | 73,268                                   |
| Dec-04               | 888,617                          | 84,696                        | 1.000                                | 84,696                                   |
| Jun-05               | 884,451                          | 83,069                        | 1.000                                | 83,069                                   |
| Dec-05               | 939,959                          | 99,843                        | 1.000                                | 99,843                                   |
| Jun-06               | 945,710                          | 98,228                        | 1.000                                | 98,228                                   |
| Dec-06               | 1,001,691                        | 130,588                       | 1.000                                | 130,588                                  |
| Jun-07               | 1,002,213                        | 126,473                       | 1.000                                | 126,473                                  |
| Dec-07               | 1,056,660                        | 150,377                       | 1.000                                | 150,377                                  |
| Jun-08               | 1,052,706                        | 141,056                       | 1.000                                | 141,056                                  |
| Dec-08               | 1,097,553                        | 156,723                       | 1.000                                | 156,723                                  |
| Jun-09               | 1,080,218                        | 140,766                       | 1.000                                | 140,766                                  |
| Dec-09               | 1,119,434                        | 159,050                       | 1.000                                | 159,050                                  |
| Jun-10               | 1,100,281                        | 132,666                       | 1.000                                | 132,666                                  |
| Dec-10               | 1,147,235                        | 162,859                       | 1.000                                | 162,859                                  |
| Jun-11               | 1,128,779                        | 163,494                       | 1.001                                | 163,659                                  |
| Dec-11               | 1,178,668                        | 159,791                       | 1.000                                | 159,858                                  |
| Jun-12               | 1,172,340                        | 150,249                       | 1.001                                | 150,352                                  |
| Dec-12               | 1,224,777                        | 190,648                       | 0.999                                | 190,464                                  |
| Jun-13               | 1,215,606                        | 167,101                       | 1.002                                | 167,403                                  |
| Dec-13               | 1,274,980                        | 201,343                       | 1.006                                | 202,509                                  |
| Jun-14               | 1,261,700                        | 176,807                       | 1.017                                | 179,838                                  |
| Dec-14               | 1,285,927                        | 166,516                       | 1.211                                | 201,632                                  |
| Total                | 30,628,723                       | 3,729,696                     |                                      | 3,769,462                                |

**AB All Med Exp**  
**Estimated Ultimate Incurred Counts**  
**Incurred Counts Development Method**

| Accident<br>Semester | Car-Years<br>as of<br>12/31/2014 | Claim Counts<br>as of<br>12/31/2014 | Cumulative<br>Development<br>Factors | Estimated<br>Ultimate<br>Incurred Counts |
|----------------------|----------------------------------|-------------------------------------|--------------------------------------|------------------------------------------|
| (1)                  | (2)                              | (3)                                 | (4)                                  | (5)                                      |
| Jun-00               | 780,439                          | 8,046                               | 1.000                                | 8,046                                    |
| Dec-00               | 807,484                          | 8,426                               | 1.000                                | 8,426                                    |
| Jun-01               | 812,444                          | 7,545                               | 1.000                                | 7,545                                    |
| Dec-01               | 844,102                          | 8,614                               | 1.000                                | 8,614                                    |
| Jun-02               | 832,380                          | 8,204                               | 1.000                                | 8,204                                    |
| Dec-02               | 869,521                          | 7,909                               | 1.000                                | 7,909                                    |
| Jun-03               | 853,159                          | 6,908                               | 1.000                                | 6,908                                    |
| Dec-03               | 875,870                          | 6,869                               | 1.000                                | 6,869                                    |
| Jun-04               | 864,302                          | 6,659                               | 1.000                                | 6,659                                    |
| Dec-04               | 893,637                          | 8,323                               | 1.000                                | 8,323                                    |
| Jun-05               | 888,577                          | 8,941                               | 1.000                                | 8,941                                    |
| Dec-05               | 941,651                          | 10,452                              | 1.000                                | 10,452                                   |
| Jun-06               | 945,398                          | 10,177                              | 1.000                                | 10,177                                   |
| Dec-06               | 1,000,815                        | 11,492                              | 1.000                                | 11,491                                   |
| Jun-07               | 1,001,483                        | 10,460                              | 1.000                                | 10,459                                   |
| Dec-07               | 1,056,479                        | 11,324                              | 1.000                                | 11,322                                   |
| Jun-08               | 1,053,269                        | 10,154                              | 1.000                                | 10,152                                   |
| Dec-08               | 1,098,119                        | 10,412                              | 1.000                                | 10,408                                   |
| Jun-09               | 1,080,603                        | 9,429                               | 1.000                                | 9,425                                    |
| Dec-09               | 1,119,820                        | 10,688                              | 1.000                                | 10,683                                   |
| Jun-10               | 1,100,479                        | 9,261                               | 1.000                                | 9,256                                    |
| Dec-10               | 1,147,364                        | 11,182                              | 1.000                                | 11,176                                   |
| Jun-11               | 1,128,484                        | 10,787                              | 1.000                                | 10,782                                   |
| Dec-11               | 1,178,585                        | 10,726                              | 1.000                                | 10,721                                   |
| Jun-12               | 1,172,586                        | 10,283                              | 0.999                                | 10,271                                   |
| Dec-12               | 1,225,515                        | 11,901                              | 0.998                                | 11,877                                   |
| Jun-13               | 1,216,308                        | 10,549                              | 0.995                                | 10,499                                   |
| Dec-13               | 1,275,674                        | 12,338                              | 0.990                                | 12,216                                   |
| Jun-14               | 1,262,385                        | 11,181                              | 0.972                                | 10,863                                   |
| Dec-14               | 1,285,703                        | 14,167                              | 0.861                                | 12,200                                   |
| Total                | 30,612,632                       | 293,407                             |                                      | 290,874                                  |

**AB All Med Exp**  
**Estimated Ultimate Incurred Losses**  
**Incurred Losses Development Method**  
**Losses in \$ 000s**

| Accident<br>Semester | Car-Years<br>as of<br>12/31/2014 | Losses<br>as of<br>12/31/2014 | Cumulative<br>Development<br>Factors | Estimated<br>Ultimate<br>Incurred Losses |
|----------------------|----------------------------------|-------------------------------|--------------------------------------|------------------------------------------|
| (1)                  | (2)                              | (3)                           | (4)                                  | (5)                                      |
| Jun-00               | 780,439                          | 17,323                        | 1.000                                | 17,323                                   |
| Dec-00               | 807,484                          | 20,168                        | 1.000                                | 20,168                                   |
| Jun-01               | 812,444                          | 17,625                        | 1.000                                | 17,625                                   |
| Dec-01               | 844,102                          | 22,088                        | 1.000                                | 22,088                                   |
| Jun-02               | 832,380                          | 20,576                        | 1.000                                | 20,576                                   |
| Dec-02               | 869,521                          | 22,662                        | 1.000                                | 22,662                                   |
| Jun-03               | 853,159                          | 19,081                        | 1.000                                | 19,084                                   |
| Dec-03               | 875,870                          | 19,362                        | 1.000                                | 19,369                                   |
| Jun-04               | 864,302                          | 16,897                        | 1.000                                | 16,903                                   |
| Dec-04               | 893,637                          | 20,538                        | 1.000                                | 20,547                                   |
| Jun-05               | 888,577                          | 19,381                        | 1.000                                | 19,389                                   |
| Dec-05               | 941,651                          | 22,427                        | 1.000                                | 22,433                                   |
| Jun-06               | 945,398                          | 18,533                        | 1.000                                | 18,538                                   |
| Dec-06               | 1,000,815                        | 24,042                        | 1.001                                | 24,063                                   |
| Jun-07               | 1,001,483                        | 20,227                        | 0.997                                | 20,175                                   |
| Dec-07               | 1,056,479                        | 24,940                        | 0.998                                | 24,883                                   |
| Jun-08               | 1,053,269                        | 21,756                        | 0.996                                | 21,674                                   |
| Dec-08               | 1,098,119                        | 27,465                        | 0.996                                | 27,353                                   |
| Jun-09               | 1,080,603                        | 22,576                        | 0.999                                | 22,542                                   |
| Dec-09               | 1,119,820                        | 27,737                        | 1.000                                | 27,738                                   |
| Jun-10               | 1,100,479                        | 23,907                        | 1.000                                | 23,908                                   |
| Dec-10               | 1,147,364                        | 29,025                        | 1.000                                | 29,032                                   |
| Jun-11               | 1,128,484                        | 26,146                        | 1.002                                | 26,203                                   |
| Dec-11               | 1,178,585                        | 30,612                        | 1.002                                | 30,685                                   |
| Jun-12               | 1,172,586                        | 26,727                        | 1.004                                | 26,827                                   |
| Dec-12               | 1,225,515                        | 35,467                        | 0.998                                | 35,404                                   |
| Jun-13               | 1,216,308                        | 29,361                        | 0.973                                | 28,578                                   |
| Dec-13               | 1,275,674                        | 35,820                        | 0.981                                | 35,131                                   |
| Jun-14               | 1,262,385                        | 31,105                        | 0.930                                | 28,939                                   |
| Dec-14               | 1,285,703                        | 51,647                        | 0.680                                | 35,127                                   |
| Total                | 30,612,632                       | 745,221                       |                                      | 724,966                                  |

**AB All DI**  
**Estimated Ultimate Incurred Counts**  
**Incurred Counts Development Method**

| Accident<br>Semester | Car-Years<br>as of<br>12/31/2014 | Claim Counts<br>as of<br>12/31/2014 | Cumulative<br>Development<br>Factors | Estimated<br>Ultimate<br>Incurred Counts |
|----------------------|----------------------------------|-------------------------------------|--------------------------------------|------------------------------------------|
| (1)                  | (2)                              | (3)                                 | (4)                                  | (5)                                      |
| Jun-00               | 780,439                          | 2,063                               | 1.000                                | 2,063                                    |
| Dec-00               | 807,484                          | 2,271                               | 1.000                                | 2,271                                    |
| Jun-01               | 812,444                          | 1,874                               | 1.000                                | 1,874                                    |
| Dec-01               | 844,102                          | 2,192                               | 1.000                                | 2,192                                    |
| Jun-02               | 832,380                          | 2,055                               | 1.000                                | 2,055                                    |
| Dec-02               | 869,521                          | 2,121                               | 1.000                                | 2,121                                    |
| Jun-03               | 853,159                          | 1,663                               | 1.000                                | 1,663                                    |
| Dec-03               | 875,870                          | 1,695                               | 1.000                                | 1,695                                    |
| Jun-04               | 864,302                          | 1,611                               | 1.000                                | 1,611                                    |
| Dec-04               | 893,637                          | 1,565                               | 1.000                                | 1,565                                    |
| Jun-05               | 888,577                          | 1,439                               | 1.000                                | 1,439                                    |
| Dec-05               | 941,651                          | 1,741                               | 1.000                                | 1,741                                    |
| Jun-06               | 945,398                          | 1,443                               | 1.000                                | 1,443                                    |
| Dec-06               | 1,000,815                        | 1,703                               | 1.000                                | 1,703                                    |
| Jun-07               | 1,001,483                        | 1,497                               | 1.000                                | 1,497                                    |
| Dec-07               | 1,056,479                        | 1,639                               | 1.000                                | 1,639                                    |
| Jun-08               | 1,053,269                        | 1,439                               | 1.000                                | 1,439                                    |
| Dec-08               | 1,098,119                        | 1,535                               | 1.000                                | 1,535                                    |
| Jun-09               | 1,080,603                        | 1,245                               | 1.000                                | 1,245                                    |
| Dec-09               | 1,119,820                        | 1,434                               | 1.000                                | 1,434                                    |
| Jun-10               | 1,100,479                        | 1,122                               | 1.000                                | 1,122                                    |
| Dec-10               | 1,147,364                        | 1,336                               | 1.000                                | 1,336                                    |
| Jun-11               | 1,128,484                        | 1,182                               | 0.999                                | 1,181                                    |
| Dec-11               | 1,178,585                        | 1,329                               | 0.999                                | 1,328                                    |
| Jun-12               | 1,172,586                        | 1,198                               | 0.998                                | 1,196                                    |
| Dec-12               | 1,225,515                        | 1,481                               | 0.996                                | 1,476                                    |
| Jun-13               | 1,216,308                        | 1,249                               | 0.992                                | 1,239                                    |
| Dec-13               | 1,275,674                        | 1,449                               | 0.986                                | 1,429                                    |
| Jun-14               | 1,262,385                        | 1,252                               | 0.964                                | 1,207                                    |
| Dec-14               | 1,285,703                        | 1,483                               | 0.945                                | 1,401                                    |
| Total                | 30,612,632                       | 47,306                              |                                      | 47,138                                   |

**AB All DI**  
**Estimated Ultimate Incurred Losses**  
**Incurred Losses Development Method**  
**Losses in \$ 000s**

| Accident<br>Semester | Car-Years<br>as of<br>12/31/2014 | Losses<br>as of<br>12/31/2014 | Cumulative<br>Development<br>Factors | Estimated<br>Ultimate<br>Incurred Losses |
|----------------------|----------------------------------|-------------------------------|--------------------------------------|------------------------------------------|
| (1)                  | (2)                              | (3)                           | (4)                                  | (5)                                      |
| Jun-00               | 780,439                          | 9,022                         | 1.000                                | 9,022                                    |
| Dec-00               | 807,484                          | 12,597                        | 1.000                                | 12,597                                   |
| Jun-01               | 812,444                          | 9,157                         | 1.000                                | 9,157                                    |
| Dec-01               | 844,102                          | 11,956                        | 1.000                                | 11,956                                   |
| Jun-02               | 832,380                          | 11,426                        | 1.000                                | 11,426                                   |
| Dec-02               | 869,521                          | 12,109                        | 1.000                                | 12,109                                   |
| Jun-03               | 853,159                          | 8,371                         | 1.000                                | 8,371                                    |
| Dec-03               | 875,870                          | 9,288                         | 1.000                                | 9,288                                    |
| Jun-04               | 864,302                          | 7,517                         | 1.000                                | 7,517                                    |
| Dec-04               | 893,637                          | 9,389                         | 1.000                                | 9,389                                    |
| Jun-05               | 888,577                          | 7,441                         | 1.000                                | 7,441                                    |
| Dec-05               | 941,651                          | 9,274                         | 1.000                                | 9,274                                    |
| Jun-06               | 945,398                          | 7,467                         | 1.000                                | 7,467                                    |
| Dec-06               | 1,000,815                        | 9,866                         | 1.000                                | 9,866                                    |
| Jun-07               | 1,001,483                        | 9,068                         | 1.000                                | 9,068                                    |
| Dec-07               | 1,056,479                        | 12,602                        | 1.000                                | 12,602                                   |
| Jun-08               | 1,053,269                        | 9,580                         | 1.004                                | 9,615                                    |
| Dec-08               | 1,098,119                        | 13,311                        | 1.003                                | 13,354                                   |
| Jun-09               | 1,080,603                        | 10,608                        | 1.013                                | 10,749                                   |
| Dec-09               | 1,119,820                        | 11,910                        | 1.014                                | 12,079                                   |
| Jun-10               | 1,100,479                        | 8,045                         | 1.018                                | 8,194                                    |
| Dec-10               | 1,147,364                        | 11,966                        | 1.021                                | 12,222                                   |
| Jun-11               | 1,128,484                        | 8,083                         | 1.026                                | 8,292                                    |
| Dec-11               | 1,178,585                        | 11,654                        | 1.027                                | 11,964                                   |
| Jun-12               | 1,172,586                        | 10,287                        | 1.027                                | 10,567                                   |
| Dec-12               | 1,225,515                        | 12,695                        | 1.029                                | 13,062                                   |
| Jun-13               | 1,216,308                        | 9,864                         | 1.030                                | 10,164                                   |
| Dec-13               | 1,275,674                        | 11,555                        | 1.094                                | 12,639                                   |
| Jun-14               | 1,262,385                        | 7,814                         | 1.219                                | 9,524                                    |
| Dec-14               | 1,285,703                        | 7,416                         | 1.677                                | 12,439                                   |
| Total                | 30,612,632                       | 301,337                       |                                      | 311,413                                  |



**AB DB**  
**Estimated Ultimate Incurred Counts**  
**Incurred Counts Development Method**

| Accident<br>Semester | Car-Years<br>as of<br>12/31/2014 | Claim Counts<br>as of<br>12/31/2014 | Cumulative<br>Development<br>Factors | Estimated<br>Ultimate<br>Incurred Counts |
|----------------------|----------------------------------|-------------------------------------|--------------------------------------|------------------------------------------|
| (1)                  | (2)                              | (3)                                 | (4)                                  | (5)                                      |
| Jun-00               | 780,439                          | 55                                  | 1.000                                | 55                                       |
| Dec-00               | 807,484                          | 85                                  | 1.000                                | 85                                       |
| Jun-01               | 812,444                          | 61                                  | 1.000                                | 61                                       |
| Dec-01               | 844,102                          | 74                                  | 1.000                                | 74                                       |
| Jun-02               | 832,380                          | 66                                  | 1.000                                | 66                                       |
| Dec-02               | 869,521                          | 64                                  | 1.000                                | 64                                       |
| Jun-03               | 853,159                          | 61                                  | 1.000                                | 61                                       |
| Dec-03               | 875,870                          | 81                                  | 1.000                                | 81                                       |
| Jun-04               | 864,302                          | 51                                  | 1.000                                | 51                                       |
| Dec-04               | 893,637                          | 71                                  | 1.000                                | 71                                       |
| Jun-05               | 888,577                          | 64                                  | 1.000                                | 64                                       |
| Dec-05               | 941,651                          | 77                                  | 1.000                                | 77                                       |
| Jun-06               | 945,398                          | 62                                  | 1.000                                | 62                                       |
| Dec-06               | 1,000,815                        | 72                                  | 1.000                                | 72                                       |
| Jun-07               | 1,001,483                        | 60                                  | 1.000                                | 60                                       |
| Dec-07               | 1,056,479                        | 83                                  | 0.999                                | 83                                       |
| Jun-08               | 1,053,269                        | 57                                  | 0.998                                | 57                                       |
| Dec-08               | 1,098,119                        | 79                                  | 0.997                                | 79                                       |
| Jun-09               | 1,080,603                        | 45                                  | 0.996                                | 45                                       |
| Dec-09               | 1,119,820                        | 55                                  | 0.995                                | 55                                       |
| Jun-10               | 1,100,479                        | 39                                  | 0.995                                | 39                                       |
| Dec-10               | 1,147,364                        | 71                                  | 0.993                                | 71                                       |
| Jun-11               | 1,128,484                        | 32                                  | 0.984                                | 31                                       |
| Dec-11               | 1,178,585                        | 58                                  | 0.980                                | 57                                       |
| Jun-12               | 1,172,586                        | 65                                  | 0.974                                | 63                                       |
| Dec-12               | 1,225,515                        | 58                                  | 0.971                                | 56                                       |
| Jun-13               | 1,216,308                        | 42                                  | 0.944                                | 40                                       |
| Dec-13               | 1,275,674                        | 55                                  | 0.924                                | 51                                       |
| Jun-14               | 1,262,385                        | 52                                  | 0.884                                | 46                                       |
| Dec-14               | 1,285,703                        | 71                                  | 0.873                                | 62                                       |
| Total                | 30,612,632                       | 1,866                               |                                      | 1,838                                    |

**AB DB**  
**Estimated Ultimate Incurred Losses**  
**Incurred Losses Development Method**  
**Losses in \$ 000s**

| Accident<br>Semester | Car-Years<br>as of<br>12/31/2014 | Losses<br>as of<br>12/31/2014 | Cumulative<br>Development<br>Factors | Estimated<br>Ultimate<br>Incurred Losses |
|----------------------|----------------------------------|-------------------------------|--------------------------------------|------------------------------------------|
| (1)                  | (2)                              | (3)                           | (4)                                  | (5)                                      |
| Jun-00               | 780,439                          | 1,211                         | 1.000                                | 1,211                                    |
| Dec-00               | 807,484                          | 1,924                         | 1.000                                | 1,924                                    |
| Jun-01               | 812,444                          | 1,686                         | 1.000                                | 1,686                                    |
| Dec-01               | 844,102                          | 1,037                         | 1.000                                | 1,037                                    |
| Jun-02               | 832,380                          | 1,202                         | 1.000                                | 1,202                                    |
| Dec-02               | 869,521                          | 1,423                         | 1.000                                | 1,423                                    |
| Jun-03               | 853,159                          | 1,092                         | 1.000                                | 1,092                                    |
| Dec-03               | 875,870                          | 1,442                         | 1.000                                | 1,442                                    |
| Jun-04               | 864,302                          | 922                           | 1.000                                | 922                                      |
| Dec-04               | 893,637                          | 1,871                         | 1.000                                | 1,871                                    |
| Jun-05               | 888,577                          | 1,299                         | 1.000                                | 1,299                                    |
| Dec-05               | 941,651                          | 2,110                         | 1.000                                | 2,110                                    |
| Jun-06               | 945,398                          | 1,638                         | 0.996                                | 1,632                                    |
| Dec-06               | 1,000,815                        | 1,161                         | 1.001                                | 1,161                                    |
| Jun-07               | 1,001,483                        | 997                           | 1.005                                | 1,002                                    |
| Dec-07               | 1,056,479                        | 1,597                         | 1.002                                | 1,601                                    |
| Jun-08               | 1,053,269                        | 1,213                         | 1.003                                | 1,216                                    |
| Dec-08               | 1,098,119                        | 1,842                         | 1.003                                | 1,847                                    |
| Jun-09               | 1,080,603                        | 833                           | 1.002                                | 835                                      |
| Dec-09               | 1,119,820                        | 1,892                         | 1.009                                | 1,909                                    |
| Jun-10               | 1,100,479                        | 880                           | 1.004                                | 884                                      |
| Dec-10               | 1,147,364                        | 1,538                         | 1.007                                | 1,548                                    |
| Jun-11               | 1,128,484                        | 1,348                         | 0.996                                | 1,343                                    |
| Dec-11               | 1,178,585                        | 1,398                         | 0.994                                | 1,389                                    |
| Jun-12               | 1,172,586                        | 1,257                         | 0.991                                | 1,246                                    |
| Dec-12               | 1,225,515                        | 2,090                         | 0.983                                | 2,054                                    |
| Jun-13               | 1,216,308                        | 912                           | 0.969                                | 884                                      |
| Dec-13               | 1,275,674                        | 1,618                         | 0.979                                | 1,584                                    |
| Jun-14               | 1,262,385                        | 1,051                         | 0.967                                | 1,017                                    |
| Dec-14               | 1,285,703                        | 1,281                         | 1.150                                | 1,473                                    |
| Total                | 30,612,632                       | 41,767                        |                                      | 41,846                                   |

**AB Funeral**  
**Estimated Ultimate Incurred Counts**  
**Incurred Counts Development Method**

| Accident<br>Semester | Car-Years<br>as of<br>12/31/2014 | Claim Counts<br>as of<br>12/31/2014 | Cumulative<br>Development<br>Factors | Estimated<br>Ultimate<br>Incurred Counts |
|----------------------|----------------------------------|-------------------------------------|--------------------------------------|------------------------------------------|
| (1)                  | (2)                              | (3)                                 | (4)                                  | (5)                                      |
| Jun-00               | 780,439                          | 76                                  | 1.000                                | 76                                       |
| Dec-00               | 807,484                          | 115                                 | 1.000                                | 115                                      |
| Jun-01               | 812,444                          | 94                                  | 1.000                                | 94                                       |
| Dec-01               | 844,102                          | 93                                  | 1.000                                | 93                                       |
| Jun-02               | 832,380                          | 80                                  | 1.000                                | 80                                       |
| Dec-02               | 869,521                          | 85                                  | 1.000                                | 85                                       |
| Jun-03               | 853,159                          | 60                                  | 1.000                                | 60                                       |
| Dec-03               | 875,870                          | 128                                 | 1.000                                | 128                                      |
| Jun-04               | 864,302                          | 78                                  | 1.000                                | 78                                       |
| Dec-04               | 893,637                          | 115                                 | 1.000                                | 115                                      |
| Jun-05               | 888,577                          | 95                                  | 1.000                                | 95                                       |
| Dec-05               | 941,651                          | 128                                 | 1.000                                | 128                                      |
| Jun-06               | 945,398                          | 110                                 | 0.999                                | 110                                      |
| Dec-06               | 1,000,815                        | 117                                 | 1.001                                | 117                                      |
| Jun-07               | 1,001,483                        | 93                                  | 1.001                                | 93                                       |
| Dec-07               | 1,056,479                        | 130                                 | 1.000                                | 130                                      |
| Jun-08               | 1,053,269                        | 98                                  | 0.999                                | 98                                       |
| Dec-08               | 1,098,119                        | 122                                 | 0.999                                | 122                                      |
| Jun-09               | 1,080,603                        | 81                                  | 0.999                                | 81                                       |
| Dec-09               | 1,119,820                        | 97                                  | 0.997                                | 97                                       |
| Jun-10               | 1,100,479                        | 74                                  | 0.994                                | 74                                       |
| Dec-10               | 1,147,364                        | 118                                 | 0.993                                | 117                                      |
| Jun-11               | 1,128,484                        | 59                                  | 0.988                                | 58                                       |
| Dec-11               | 1,178,585                        | 101                                 | 0.987                                | 100                                      |
| Jun-12               | 1,172,586                        | 90                                  | 0.984                                | 89                                       |
| Dec-12               | 1,225,515                        | 104                                 | 0.981                                | 102                                      |
| Jun-13               | 1,216,308                        | 71                                  | 0.969                                | 69                                       |
| Dec-13               | 1,275,674                        | 104                                 | 0.955                                | 99                                       |
| Jun-14               | 1,262,385                        | 82                                  | 0.922                                | 76                                       |
| Dec-14               | 1,285,703                        | 107                                 | 0.945                                | 101                                      |
| Total                | 30,612,632                       | 2,905                               |                                      | 2,879                                    |

**AB Funeral**  
**Estimated Ultimate Incurred Losses**  
**Incurred Losses Development Method**  
**Losses in \$ 000s**

| Accident<br>Semester | Car-Years<br>as of<br>12/31/2014 | Losses<br>as of<br>12/31/2014 | Cumulative<br>Development<br>Factors | Estimated<br>Ultimate<br>Incurred Losses |
|----------------------|----------------------------------|-------------------------------|--------------------------------------|------------------------------------------|
| (1)                  | (2)                              | (3)                           | (4)                                  | (5)                                      |
| Jun-00               | 780,439                          | 187                           | 1.000                                | 187                                      |
| Dec-00               | 807,484                          | 321                           | 1.000                                | 321                                      |
| Jun-01               | 812,444                          | 262                           | 1.000                                | 262                                      |
| Dec-01               | 844,102                          | 268                           | 1.000                                | 268                                      |
| Jun-02               | 832,380                          | 232                           | 1.000                                | 232                                      |
| Dec-02               | 869,521                          | 249                           | 1.000                                | 249                                      |
| Jun-03               | 853,159                          | 203                           | 1.000                                | 203                                      |
| Dec-03               | 875,870                          | 563                           | 1.000                                | 563                                      |
| Jun-04               | 864,302                          | 207                           | 1.000                                | 207                                      |
| Dec-04               | 893,637                          | 272                           | 1.000                                | 272                                      |
| Jun-05               | 888,577                          | 261                           | 1.001                                | 262                                      |
| Dec-05               | 941,651                          | 353                           | 1.001                                | 354                                      |
| Jun-06               | 945,398                          | 251                           | 0.999                                | 250                                      |
| Dec-06               | 1,000,815                        | 288                           | 0.999                                | 287                                      |
| Jun-07               | 1,001,483                        | 399                           | 0.998                                | 398                                      |
| Dec-07               | 1,056,479                        | 641                           | 0.997                                | 639                                      |
| Jun-08               | 1,053,269                        | 468                           | 0.997                                | 466                                      |
| Dec-08               | 1,098,119                        | 738                           | 0.997                                | 735                                      |
| Jun-09               | 1,080,603                        | 484                           | 0.990                                | 479                                      |
| Dec-09               | 1,119,820                        | 561                           | 0.985                                | 552                                      |
| Jun-10               | 1,100,479                        | 402                           | 0.981                                | 395                                      |
| Dec-10               | 1,147,364                        | 696                           | 0.980                                | 682                                      |
| Jun-11               | 1,128,484                        | 308                           | 0.972                                | 299                                      |
| Dec-11               | 1,178,585                        | 541                           | 0.971                                | 526                                      |
| Jun-12               | 1,172,586                        | 532                           | 0.969                                | 515                                      |
| Dec-12               | 1,225,515                        | 570                           | 0.955                                | 544                                      |
| Jun-13               | 1,216,308                        | 383                           | 0.943                                | 361                                      |
| Dec-13               | 1,275,674                        | 565                           | 0.933                                | 526                                      |
| Jun-14               | 1,262,385                        | 409                           | 0.913                                | 373                                      |
| Dec-14               | 1,285,703                        | 487                           | 0.994                                | 484                                      |
| Total                | 30,612,632                       | 12,101                        |                                      | 11,895                                   |

**Collision**  
**Estimated Ultimate Incurred Counts**  
**Incurred Counts Development Method**

| Accident<br>Semester | Car-Years<br>as of<br>12/31/2014 | Claim Counts<br>as of<br>12/31/2014 | Cumulative<br>Development<br>Factors | Estimated<br>Ultimate<br>Incurred Counts |
|----------------------|----------------------------------|-------------------------------------|--------------------------------------|------------------------------------------|
| (1)                  | (2)                              | (3)                                 | (4)                                  | (5)                                      |
| Jun-00               | 518,251                          | 26,587                              | 1.000                                | 26,587                                   |
| Dec-00               | 541,747                          | 28,896                              | 1.000                                | 28,896                                   |
| Jun-01               | 563,695                          | 25,426                              | 1.000                                | 25,426                                   |
| Dec-01               | 583,784                          | 28,914                              | 1.000                                | 28,914                                   |
| Jun-02               | 584,115                          | 29,119                              | 1.000                                | 29,119                                   |
| Dec-02               | 608,784                          | 27,264                              | 1.000                                | 27,264                                   |
| Jun-03               | 601,882                          | 26,640                              | 1.000                                | 26,637                                   |
| Dec-03               | 621,938                          | 25,418                              | 1.000                                | 25,413                                   |
| Jun-04               | 618,615                          | 28,354                              | 1.000                                | 28,347                                   |
| Dec-04               | 642,166                          | 31,612                              | 1.000                                | 31,604                                   |
| Jun-05               | 647,383                          | 32,097                              | 1.000                                | 32,087                                   |
| Dec-05               | 687,146                          | 36,684                              | 1.000                                | 36,672                                   |
| Jun-06               | 696,014                          | 37,744                              | 1.000                                | 37,731                                   |
| Dec-06               | 741,283                          | 46,643                              | 1.000                                | 46,624                                   |
| Jun-07               | 750,060                          | 45,263                              | 1.000                                | 45,244                                   |
| Dec-07               | 792,469                          | 44,281                              | 1.000                                | 44,260                                   |
| Jun-08               | 798,345                          | 40,956                              | 1.000                                | 40,937                                   |
| Dec-08               | 834,468                          | 40,074                              | 1.000                                | 40,055                                   |
| Jun-09               | 823,603                          | 38,478                              | 1.000                                | 38,460                                   |
| Dec-09               | 845,120                          | 42,210                              | 1.000                                | 42,190                                   |
| Jun-10               | 828,624                          | 34,612                              | 1.000                                | 34,596                                   |
| Dec-10               | 854,563                          | 40,364                              | 1.000                                | 40,345                                   |
| Jun-11               | 841,045                          | 43,069                              | 1.000                                | 43,049                                   |
| Dec-11               | 872,431                          | 35,483                              | 1.000                                | 35,466                                   |
| Jun-12               | 869,728                          | 35,184                              | 0.999                                | 35,150                                   |
| Dec-12               | 906,138                          | 41,795                              | 0.998                                | 41,717                                   |
| Jun-13               | 903,568                          | 38,388                              | 0.993                                | 38,126                                   |
| Dec-13               | 946,071                          | 46,085                              | 0.977                                | 45,023                                   |
| Jun-14               | 940,708                          | 45,924                              | 0.910                                | 41,791                                   |
| Dec-14               | 961,051                          | 61,249                              | 0.733                                | 44,891                                   |
| Total                | 22,424,794                       | 1,104,813                           |                                      | 1,082,621                                |

**Collision**  
**Estimated Ultimate Incurred Losses**  
**Incurred Losses Development Method**  
**Losses in \$ 000s**

| Accident<br>Semester | Car-Years<br>as of<br>12/31/2014 | Losses<br>as of<br>12/31/2014 | Cumulative<br>Development<br>Factors | Estimated<br>Ultimate<br>Incurred Losses |
|----------------------|----------------------------------|-------------------------------|--------------------------------------|------------------------------------------|
| (1)                  | (2)                              | (3)                           | (4)                                  | (5)                                      |
| Jun-00               | 518,251                          | 69,662                        | 1.000                                | 69,662                                   |
| Dec-00               | 541,747                          | 83,238                        | 1.000                                | 83,238                                   |
| Jun-01               | 563,695                          | 72,578                        | 1.000                                | 72,578                                   |
| Dec-01               | 583,784                          | 90,963                        | 1.000                                | 90,963                                   |
| Jun-02               | 584,115                          | 96,063                        | 1.000                                | 96,063                                   |
| Dec-02               | 608,784                          | 96,376                        | 1.000                                | 96,376                                   |
| Jun-03               | 601,882                          | 94,965                        | 1.000                                | 94,962                                   |
| Dec-03               | 621,938                          | 87,445                        | 1.000                                | 87,438                                   |
| Jun-04               | 618,615                          | 88,312                        | 1.000                                | 88,302                                   |
| Dec-04               | 642,166                          | 97,222                        | 1.000                                | 97,200                                   |
| Jun-05               | 647,383                          | 98,152                        | 1.000                                | 98,129                                   |
| Dec-05               | 687,146                          | 118,412                       | 1.000                                | 118,381                                  |
| Jun-06               | 696,014                          | 120,887                       | 1.000                                | 120,840                                  |
| Dec-06               | 741,283                          | 166,774                       | 0.999                                | 166,689                                  |
| Jun-07               | 750,060                          | 166,320                       | 1.000                                | 166,248                                  |
| Dec-07               | 792,469                          | 188,097                       | 1.000                                | 188,015                                  |
| Jun-08               | 798,345                          | 181,807                       | 1.000                                | 181,728                                  |
| Dec-08               | 834,468                          | 195,353                       | 1.000                                | 195,268                                  |
| Jun-09               | 823,603                          | 170,383                       | 1.000                                | 170,309                                  |
| Dec-09               | 845,120                          | 188,545                       | 1.000                                | 188,463                                  |
| Jun-10               | 828,624                          | 144,817                       | 1.000                                | 144,754                                  |
| Dec-10               | 854,563                          | 176,573                       | 1.000                                | 176,496                                  |
| Jun-11               | 841,045                          | 184,532                       | 1.000                                | 184,452                                  |
| Dec-11               | 872,431                          | 170,758                       | 0.999                                | 170,589                                  |
| Jun-12               | 869,728                          | 162,946                       | 0.998                                | 162,636                                  |
| Dec-12               | 906,138                          | 208,508                       | 0.995                                | 207,557                                  |
| Jun-13               | 903,568                          | 187,327                       | 0.981                                | 183,818                                  |
| Dec-13               | 946,071                          | 246,608                       | 0.946                                | 233,178                                  |
| Jun-14               | 940,708                          | 252,088                       | 0.821                                | 206,869                                  |
| Dec-14               | 961,051                          | 405,306                       | 0.592                                | 239,903                                  |
| Total                | 22,424,794                       | 4,611,014                     |                                      | 4,381,103                                |

**Comprehensive  
Estimated Ultimate Incurred Counts  
Incurred Counts Development Method**

| Accident<br>Semester | Car-Years<br>as of<br>12/31/2014 | Claim Counts<br>as of<br>12/31/2014 | Cumulative<br>Development<br>Factors | Estimated<br>Ultimate<br>Incurred Counts |
|----------------------|----------------------------------|-------------------------------------|--------------------------------------|------------------------------------------|
| (1)                  | (2)                              | (3)                                 | (4)                                  | (5)                                      |
| Jun-00               | 635,968                          | 23,473                              | 1.000                                | 23,473                                   |
| Dec-00               | 657,837                          | 30,839                              | 1.000                                | 30,839                                   |
| Jun-01               | 672,444                          | 22,827                              | 1.000                                | 22,827                                   |
| Dec-01               | 699,556                          | 28,030                              | 1.000                                | 28,030                                   |
| Jun-02               | 704,350                          | 22,350                              | 1.000                                | 22,350                                   |
| Dec-02               | 731,460                          | 24,135                              | 1.000                                | 24,135                                   |
| Jun-03               | 729,421                          | 20,110                              | 1.000                                | 20,110                                   |
| Dec-03               | 751,856                          | 22,953                              | 1.000                                | 22,953                                   |
| Jun-04               | 753,861                          | 18,913                              | 1.000                                | 18,913                                   |
| Dec-04               | 778,048                          | 27,540                              | 1.000                                | 27,540                                   |
| Jun-05               | 785,901                          | 29,597                              | 1.000                                | 29,597                                   |
| Dec-05               | 832,749                          | 27,890                              | 1.000                                | 27,890                                   |
| Jun-06               | 842,891                          | 22,280                              | 1.000                                | 22,280                                   |
| Dec-06               | 890,498                          | 31,992                              | 1.000                                | 31,990                                   |
| Jun-07               | 905,984                          | 28,050                              | 1.000                                | 28,049                                   |
| Dec-07               | 955,160                          | 36,872                              | 1.000                                | 36,871                                   |
| Jun-08               | 967,929                          | 23,659                              | 1.000                                | 23,658                                   |
| Dec-08               | 1,007,534                        | 31,551                              | 1.000                                | 31,549                                   |
| Jun-09               | 1,003,881                        | 21,407                              | 1.000                                | 21,405                                   |
| Dec-09               | 1,028,558                        | 33,705                              | 1.000                                | 33,701                                   |
| Jun-10               | 1,018,734                        | 19,397                              | 1.000                                | 19,395                                   |
| Dec-10               | 1,047,658                        | 62,312                              | 1.000                                | 62,307                                   |
| Jun-11               | 1,040,163                        | 19,798                              | 1.000                                | 19,796                                   |
| Dec-11               | 1,071,642                        | 31,036                              | 1.000                                | 31,031                                   |
| Jun-12               | 1,074,138                        | 19,254                              | 1.000                                | 19,250                                   |
| Dec-12               | 1,109,198                        | 57,195                              | 1.000                                | 57,181                                   |
| Jun-13               | 1,109,358                        | 23,635                              | 1.000                                | 23,632                                   |
| Dec-13               | 1,148,843                        | 41,513                              | 1.000                                | 41,500                                   |
| Jun-14               | 1,146,901                        | 18,925                              | 1.001                                | 18,943                                   |
| Dec-14               | 1,159,352                        | 48,724                              | 1.013                                | 49,365                                   |
| Total                | 27,261,874                       | 869,962                             |                                      | 870,561                                  |

**Comprehensive  
Estimated Ultimate Incurred Losses  
Incurred Losses Development Method  
Losses in \$ 000s**

| Accident<br>Semester | Car-Years<br>as of<br>12/31/2014 | Losses<br>as of<br>12/31/2014 | Cumulative<br>Development<br>Factors | Estimated<br>Ultimate<br>Incurred Losses |
|----------------------|----------------------------------|-------------------------------|--------------------------------------|------------------------------------------|
| (1)                  | (2)                              | (3)                           | (4)                                  | (5)                                      |
| Jun-00               | 635,968                          | 33,100                        | 1.000                                | 33,100                                   |
| Dec-00               | 657,837                          | 59,617                        | 1.000                                | 59,617                                   |
| Jun-01               | 672,444                          | 35,510                        | 1.000                                | 35,510                                   |
| Dec-01               | 699,556                          | 60,896                        | 1.000                                | 60,896                                   |
| Jun-02               | 704,350                          | 39,961                        | 1.000                                | 39,961                                   |
| Dec-02               | 731,460                          | 54,247                        | 1.000                                | 54,247                                   |
| Jun-03               | 729,421                          | 44,073                        | 1.000                                | 44,070                                   |
| Dec-03               | 751,856                          | 63,987                        | 1.000                                | 63,982                                   |
| Jun-04               | 753,861                          | 41,146                        | 1.000                                | 41,141                                   |
| Dec-04               | 778,048                          | 84,080                        | 1.000                                | 84,067                                   |
| Jun-05               | 785,901                          | 77,592                        | 1.000                                | 77,576                                   |
| Dec-05               | 832,749                          | 76,132                        | 1.000                                | 76,116                                   |
| Jun-06               | 842,891                          | 58,709                        | 1.000                                | 58,695                                   |
| Dec-06               | 890,498                          | 98,478                        | 1.000                                | 98,451                                   |
| Jun-07               | 905,984                          | 88,159                        | 1.000                                | 88,130                                   |
| Dec-07               | 955,160                          | 145,991                       | 1.000                                | 145,938                                  |
| Jun-08               | 967,929                          | 80,141                        | 1.000                                | 80,108                                   |
| Dec-08               | 1,007,534                        | 132,185                       | 1.000                                | 132,126                                  |
| Jun-09               | 1,003,881                        | 77,156                        | 1.000                                | 77,126                                   |
| Dec-09               | 1,028,558                        | 150,098                       | 1.000                                | 150,023                                  |
| Jun-10               | 1,018,734                        | 73,678                        | 1.000                                | 73,641                                   |
| Dec-10               | 1,047,658                        | 295,878                       | 1.000                                | 295,731                                  |
| Jun-11               | 1,040,163                        | 72,928                        | 1.000                                | 72,891                                   |
| Dec-11               | 1,071,642                        | 139,986                       | 1.000                                | 139,916                                  |
| Jun-12               | 1,074,138                        | 77,765                        | 1.000                                | 77,726                                   |
| Dec-12               | 1,109,198                        | 272,939                       | 0.999                                | 272,629                                  |
| Jun-13               | 1,109,358                        | 126,357                       | 0.998                                | 126,097                                  |
| Dec-13               | 1,148,843                        | 217,263                       | 0.995                                | 216,265                                  |
| Jun-14               | 1,146,901                        | 85,058                        | 0.984                                | 83,702                                   |
| Dec-14               | 1,159,352                        | 305,311                       | 0.997                                | 304,353                                  |
| Total                | 27,261,874                       | 3,168,420                     |                                      | 3,163,831                                |



**Specified Perils  
Estimated Ultimate Incurred Counts  
Incurred Counts Development Method**

| Accident<br>Semester | Car-Years<br>as of<br>12/31/2014 | Claim Counts<br>as of<br>12/31/2014 | Cumulative<br>Development<br>Factors | Estimated<br>Ultimate<br>Incurred Counts |
|----------------------|----------------------------------|-------------------------------------|--------------------------------------|------------------------------------------|
| (1)                  | (2)                              | (3)                                 | (4)                                  | (5)                                      |
| Jun-00               | 21,711                           | 182                                 | 1.000                                | 182                                      |
| Dec-00               | 20,521                           | 311                                 | 1.000                                | 311                                      |
| Jun-01               | 19,513                           | 175                                 | 1.000                                | 175                                      |
| Dec-01               | 17,834                           | 233                                 | 1.000                                | 233                                      |
| Jun-02               | 17,164                           | 134                                 | 1.000                                | 134                                      |
| Dec-02               | 16,307                           | 146                                 | 1.000                                | 146                                      |
| Jun-03               | 15,427                           | 123                                 | 1.000                                | 123                                      |
| Dec-03               | 14,869                           | 145                                 | 1.000                                | 145                                      |
| Jun-04               | 14,258                           | 111                                 | 1.000                                | 111                                      |
| Dec-04               | 15,389                           | 119                                 | 1.000                                | 119                                      |
| Jun-05               | 14,848                           | 110                                 | 1.000                                | 110                                      |
| Dec-05               | 12,705                           | 103                                 | 1.000                                | 103                                      |
| Jun-06               | 11,792                           | 96                                  | 1.000                                | 96                                       |
| Dec-06               | 11,496                           | 139                                 | 1.000                                | 139                                      |
| Jun-07               | 11,142                           | 104                                 | 1.000                                | 104                                      |
| Dec-07               | 11,091                           | 109                                 | 1.000                                | 109                                      |
| Jun-08               | 10,398                           | 59                                  | 1.000                                | 59                                       |
| Dec-08               | 9,620                            | 71                                  | 1.000                                | 71                                       |
| Jun-09               | 9,642                            | 35                                  | 1.000                                | 35                                       |
| Dec-09               | 9,737                            | 93                                  | 1.000                                | 93                                       |
| Jun-10               | 9,750                            | 36                                  | 1.000                                | 36                                       |
| Dec-10               | 9,692                            | 132                                 | 1.000                                | 132                                      |
| Jun-11               | 9,665                            | 47                                  | 1.000                                | 47                                       |
| Dec-11               | 9,484                            | 83                                  | 1.000                                | 83                                       |
| Jun-12               | 9,509                            | 34                                  | 1.002                                | 34                                       |
| Dec-12               | 9,301                            | 170                                 | 1.000                                | 170                                      |
| Jun-13               | 9,335                            | 61                                  | 1.002                                | 61                                       |
| Dec-13               | 9,035                            | 81                                  | 0.998                                | 81                                       |
| Jun-14               | 9,058                            | 41                                  | 1.002                                | 41                                       |
| Dec-14               | 8,821                            | 124                                 | 1.007                                | 125                                      |
| Total                | 379,113                          | 3,407                               |                                      | 3,408                                    |

**Specified Perils  
Estimated Ultimate Incurred Losses  
Incurred Losses Development Method  
Losses in \$ 000s**

| Accident<br>Semester | Car-Years<br>as of<br>12/31/2014 | Losses<br>as of<br>12/31/2014 | Cumulative<br>Development<br>Factors | Estimated<br>Ultimate<br>Incurred Losses |
|----------------------|----------------------------------|-------------------------------|--------------------------------------|------------------------------------------|
| (1)                  | (2)                              | (3)                           | (4)                                  | (5)                                      |
| Jun-00               | 21,711                           | 292                           | 1.000                                | 292                                      |
| Dec-00               | 20,521                           | 711                           | 1.000                                | 711                                      |
| Jun-01               | 19,513                           | 387                           | 1.000                                | 387                                      |
| Dec-01               | 17,834                           | 578                           | 1.000                                | 578                                      |
| Jun-02               | 17,164                           | 345                           | 1.000                                | 345                                      |
| Dec-02               | 16,307                           | 418                           | 1.000                                | 418                                      |
| Jun-03               | 15,427                           | 318                           | 1.000                                | 318                                      |
| Dec-03               | 14,869                           | 489                           | 1.000                                | 489                                      |
| Jun-04               | 14,258                           | 309                           | 1.000                                | 309                                      |
| Dec-04               | 15,389                           | 298                           | 1.000                                | 298                                      |
| Jun-05               | 14,848                           | 350                           | 1.000                                | 350                                      |
| Dec-05               | 12,705                           | 347                           | 1.000                                | 347                                      |
| Jun-06               | 11,792                           | 205                           | 1.000                                | 205                                      |
| Dec-06               | 11,496                           | 419                           | 1.000                                | 419                                      |
| Jun-07               | 11,142                           | 330                           | 1.000                                | 330                                      |
| Dec-07               | 11,091                           | 377                           | 1.000                                | 377                                      |
| Jun-08               | 10,398                           | 200                           | 1.000                                | 200                                      |
| Dec-08               | 9,620                            | 279                           | 1.000                                | 279                                      |
| Jun-09               | 9,642                            | 112                           | 1.000                                | 112                                      |
| Dec-09               | 9,737                            | 409                           | 1.000                                | 409                                      |
| Jun-10               | 9,750                            | 206                           | 1.000                                | 206                                      |
| Dec-10               | 9,692                            | 419                           | 1.000                                | 419                                      |
| Jun-11               | 9,665                            | 193                           | 1.000                                | 193                                      |
| Dec-11               | 9,484                            | 349                           | 1.000                                | 349                                      |
| Jun-12               | 9,509                            | 181                           | 0.997                                | 181                                      |
| Dec-12               | 9,301                            | 680                           | 0.994                                | 676                                      |
| Jun-13               | 9,335                            | 321                           | 0.995                                | 319                                      |
| Dec-13               | 9,035                            | 357                           | 0.992                                | 354                                      |
| Jun-14               | 9,058                            | 262                           | 0.976                                | 256                                      |
| Dec-14               | 8,821                            | 614                           | 0.967                                | 594                                      |
| Total                | 379,113                          | 10,754                        |                                      | 10,719                                   |

**All Perils**  
**Estimated Ultimate Incurred Counts**  
**Incurred Counts Development Method**

| Accident<br>Semester | Car-Years<br>as of<br>12/31/2014 | Claim Counts<br>as of<br>12/31/2014 | Cumulative<br>Development<br>Factors | Estimated<br>Ultimate<br>Incurred Counts |
|----------------------|----------------------------------|-------------------------------------|--------------------------------------|------------------------------------------|
| (1)                  | (2)                              | (3)                                 | (4)                                  | (5)                                      |
| Jun-00               | 28,895                           | 3,092                               | 1.000                                | 3,092                                    |
| Dec-00               | 28,610                           | 3,314                               | 1.000                                | 3,314                                    |
| Jun-01               | 26,476                           | 2,506                               | 1.000                                | 2,506                                    |
| Dec-01               | 26,756                           | 2,599                               | 1.000                                | 2,599                                    |
| Jun-02               | 27,383                           | 2,537                               | 1.000                                | 2,537                                    |
| Dec-02               | 28,982                           | 2,295                               | 1.000                                | 2,295                                    |
| Jun-03               | 27,792                           | 2,129                               | 1.000                                | 2,129                                    |
| Dec-03               | 28,818                           | 2,362                               | 1.000                                | 2,362                                    |
| Jun-04               | 27,917                           | 2,231                               | 1.000                                | 2,231                                    |
| Dec-04               | 27,107                           | 2,639                               | 1.000                                | 2,639                                    |
| Jun-05               | 22,856                           | 2,469                               | 1.000                                | 2,469                                    |
| Dec-05               | 20,220                           | 2,221                               | 1.000                                | 2,221                                    |
| Jun-06               | 19,577                           | 2,002                               | 1.000                                | 2,002                                    |
| Dec-06               | 19,882                           | 2,326                               | 1.000                                | 2,326                                    |
| Jun-07               | 19,352                           | 2,158                               | 1.000                                | 2,158                                    |
| Dec-07               | 20,803                           | 2,407                               | 1.000                                | 2,406                                    |
| Jun-08               | 19,098                           | 1,717                               | 1.000                                | 1,716                                    |
| Dec-08               | 16,151                           | 1,449                               | 1.000                                | 1,448                                    |
| Jun-09               | 13,978                           | 998                                 | 1.000                                | 998                                      |
| Dec-09               | 13,536                           | 1,179                               | 1.000                                | 1,179                                    |
| Jun-10               | 12,104                           | 1,239                               | 1.000                                | 1,239                                    |
| Dec-10               | 11,946                           | 2,385                               | 1.000                                | 2,384                                    |
| Jun-11               | 10,949                           | 1,840                               | 1.000                                | 1,839                                    |
| Dec-11               | 10,787                           | 2,132                               | 1.000                                | 2,131                                    |
| Jun-12               | 10,258                           | 1,568                               | 1.000                                | 1,567                                    |
| Dec-12               | 10,193                           | 2,107                               | 1.001                                | 2,108                                    |
| Jun-13               | 9,878                            | 1,580                               | 1.004                                | 1,586                                    |
| Dec-13               | 10,276                           | 1,844                               | 1.010                                | 1,863                                    |
| Jun-14               | 10,302                           | 1,354                               | 1.032                                | 1,397                                    |
| Dec-14               | 11,883                           | 1,558                               | 1.105                                | 1,721                                    |
| Total                | 572,766                          | 62,237                              |                                      | 62,463                                   |

**All Perils**  
**Estimated Ultimate Incurred Losses**  
**Incurred Losses Development Method**  
**Losses in \$ 000s**

| Accident<br>Semester | Car-Years<br>as of<br>12/31/2014 | Losses<br>as of<br>12/31/2014 | Cumulative<br>Development<br>Factors | Estimated<br>Ultimate<br>Incurred Losses |
|----------------------|----------------------------------|-------------------------------|--------------------------------------|------------------------------------------|
| (1)                  | (2)                              | (3)                           | (4)                                  | (5)                                      |
| Jun-00               | 28,895                           | 5,305                         | 1.000                                | 5,305                                    |
| Dec-00               | 28,610                           | 7,429                         | 1.000                                | 7,429                                    |
| Jun-01               | 26,476                           | 4,384                         | 1.000                                | 4,384                                    |
| Dec-01               | 26,756                           | 6,228                         | 1.000                                | 6,228                                    |
| Jun-02               | 27,383                           | 5,692                         | 1.000                                | 5,692                                    |
| Dec-02               | 28,982                           | 5,521                         | 1.000                                | 5,521                                    |
| Jun-03               | 27,792                           | 4,778                         | 1.000                                | 4,777                                    |
| Dec-03               | 28,818                           | 5,395                         | 1.000                                | 5,394                                    |
| Jun-04               | 27,917                           | 4,522                         | 1.000                                | 4,521                                    |
| Dec-04               | 27,107                           | 5,898                         | 1.000                                | 5,897                                    |
| Jun-05               | 22,856                           | 5,306                         | 1.000                                | 5,305                                    |
| Dec-05               | 20,220                           | 4,727                         | 1.000                                | 4,726                                    |
| Jun-06               | 19,577                           | 3,941                         | 1.000                                | 3,941                                    |
| Dec-06               | 19,882                           | 5,101                         | 1.000                                | 5,100                                    |
| Jun-07               | 19,352                           | 4,750                         | 1.000                                | 4,749                                    |
| Dec-07               | 20,803                           | 6,508                         | 1.000                                | 6,507                                    |
| Jun-08               | 19,098                           | 4,466                         | 1.000                                | 4,465                                    |
| Dec-08               | 16,151                           | 5,343                         | 1.000                                | 5,342                                    |
| Jun-09               | 13,978                           | 4,435                         | 1.000                                | 4,434                                    |
| Dec-09               | 13,536                           | 4,474                         | 0.999                                | 4,471                                    |
| Jun-10               | 12,104                           | 3,375                         | 0.998                                | 3,369                                    |
| Dec-10               | 11,946                           | 6,288                         | 1.001                                | 6,293                                    |
| Jun-11               | 10,949                           | 3,466                         | 1.001                                | 3,468                                    |
| Dec-11               | 10,787                           | 4,596                         | 1.001                                | 4,602                                    |
| Jun-12               | 10,258                           | 2,730                         | 1.001                                | 2,733                                    |
| Dec-12               | 10,193                           | 5,365                         | 1.000                                | 5,364                                    |
| Jun-13               | 9,878                            | 4,684                         | 0.982                                | 4,598                                    |
| Dec-13               | 10,276                           | 4,872                         | 0.969                                | 4,721                                    |
| Jun-14               | 10,302                           | 3,602                         | 0.936                                | 3,370                                    |
| Dec-14               | 11,883                           | 7,119                         | 0.823                                | 5,858                                    |
| Total                | 572,766                          | 150,303                       |                                      | 148,564                                  |

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

TPL BI  
Reported Counts  
Data as of 12/31/14

| Accident Semester | Car-Years | 6      | 12     | 18     | 24    | 30    | 36    | 42    | 48    | 54    | 60    | 66    | 72    | 78    | 84    | 90    | 96    | 102   | 108   | 114   | 120   | 126   | 132   | 138   | 144   | 150   | 156   | 162   | 168   | 174   | 180   |
|-------------------|-----------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                   | (1)       |        |        |        |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
| Jun-00            | 782,580   | 9,566  | 10,012 | 9,545  | 9,276 | 9,048 | 8,923 | 8,772 | 8,671 | 8,607 | 8,552 | 8,524 | 8,488 | 8,482 | 8,468 | 8,461 | 8,450 | 8,455 | 8,453 | 8,450 | 8,450 | 8,450 | 8,448 | 8,444 | 8,444 | 8,443 | 8,443 | 8,443 | 8,443 | 8,443 | 8,443 |
| Dec-00            | 810,796   | 9,383  | 10,634 | 10,038 | 9,732 | 9,595 | 9,329 | 9,191 | 9,101 | 9,036 | 8,972 | 8,912 | 8,898 | 8,887 | 8,883 | 8,867 | 8,869 | 8,867 | 8,870 | 8,869 | 8,865 | 8,869 | 8,867 | 8,865 | 8,865 | 8,863 | 8,861 | 8,861 | 8,860 | 8,860 | 8,860 |
| Jun-01            | 830,225   | 9,115  | 9,310  | 8,735  | 8,514 | 8,256 | 8,074 | 7,986 | 7,897 | 7,836 | 7,781 | 7,762 | 7,736 | 7,716 | 7,697 | 7,717 | 7,698 | 7,695 | 7,693 | 7,695 | 7,693 | 7,690 | 7,690 | 7,690 | 7,690 | 7,690 | 7,690 | 7,690 | 7,690 | 7,690 | 7,690 |
| Dec-01            | 851,902   | 10,031 | 10,550 | 9,889  | 9,370 | 9,080 | 8,906 | 8,821 | 8,703 | 8,566 | 8,519 | 8,473 | 8,445 | 8,412 | 8,436 | 8,420 | 8,421 | 8,411 | 8,406 | 8,404 | 8,401 | 8,399 | 8,397 | 8,396 | 8,396 | 8,394 | 8,394 | 8,394 | 8,394 | 8,394 | 8,394 |
| Jun-02            | 834,467   | 10,107 | 10,259 | 9,352  | 8,876 | 8,613 | 8,430 | 8,312 | 8,128 | 8,082 | 8,043 | 8,021 | 7,984 | 7,987 | 7,976 | 7,981 | 7,974 | 7,969 | 7,971 | 7,964 | 7,960 | 7,959 | 7,959 | 7,959 | 7,954 | 7,953 | 7,954 | 7,954 | 7,954 | 7,954 | 7,954 |
| Dec-02            | 869,889   | 10,122 | 10,123 | 9,279  | 8,964 | 8,758 | 8,566 | 8,320 | 8,248 | 8,161 | 8,112 | 8,059 | 8,056 | 8,028 | 8,027 | 8,009 | 8,008 | 8,004 | 7,993 | 7,989 | 7,991 | 7,986 | 7,985 | 7,983 | 7,983 | 7,983 | 7,983 | 7,983 | 7,983 | 7,983 | 7,983 |
| Jun-03            | 853,493   | 9,418  | 9,241  | 8,673  | 8,393 | 8,134 | 7,796 | 7,767 | 7,706 | 7,655 | 7,577 | 7,573 | 7,533 | 7,542 | 7,524 | 7,507 | 7,510 | 7,500 | 7,495 | 7,494 | 7,490 | 7,488 | 7,486 | 7,485 | 7,486 | 7,486 | 7,486 | 7,486 | 7,486 | 7,486 | 7,486 |
| Dec-03            | 874,537   | 8,425  | 8,728  | 8,216  | 7,948 | 7,589 | 7,438 | 7,439 | 7,355 | 7,257 | 7,212 | 7,156 | 7,167 | 7,137 | 7,132 | 7,126 | 7,110 | 7,097 | 7,094 | 7,082 | 7,080 | 7,076 | 7,077 | 7,075 | 7,075 | 7,075 | 7,075 | 7,075 | 7,075 | 7,075 | 7,075 |
| Jun-04            | 861,327   | 8,065  | 8,083  | 7,590  | 7,100 | 7,010 | 6,928 | 6,912 | 6,769 | 6,734 | 6,679 | 6,698 | 6,671 | 6,656 | 6,646 | 6,628 | 6,614 | 6,616 | 6,607 | 6,603 | 6,603 | 6,603 | 6,600 | 6,598 | 6,598 | 6,598 | 6,598 | 6,598 | 6,598 | 6,598 | 6,598 |
| Dec-04            | 888,617   | 7,905  | 8,203  | 7,489  | 7,363 | 7,291 | 7,218 | 7,126 | 7,052 | 6,980 | 6,981 | 6,944 | 6,914 | 6,900 | 6,868 | 6,860 | 6,871 | 6,853 | 6,851 | 6,846 | 6,844 | 6,840 | 6,840 | 6,840 | 6,840 | 6,840 | 6,840 | 6,840 | 6,840 | 6,840 | 6,840 |
| Jun-05            | 884,451   | 7,736  | 7,562  | 7,159  | 7,065 | 6,951 | 6,775 | 6,688 | 6,612 | 6,622 | 6,573 | 6,578 | 6,558 | 6,522 | 6,505 | 6,512 | 6,475 | 6,471 | 6,454 | 6,453 | 6,448 | 6,448 | 6,448 | 6,448 | 6,448 | 6,448 | 6,448 | 6,448 | 6,448 | 6,448 | 6,448 |
| Dec-05            | 939,959   | 8,255  | 8,592  | 8,148  | 8,024 | 7,904 | 7,669 | 7,653 | 7,667 | 7,617 | 7,612 | 7,580 | 7,544 | 7,512 | 7,523 | 7,489 | 7,476 | 7,465 | 7,457 | 7,451 | 7,451 | 7,451 | 7,451 | 7,451 | 7,451 | 7,451 | 7,451 | 7,451 | 7,451 | 7,451 | 7,451 |
| Jun-06            | 945,710   | 8,020  | 8,004  | 7,660  | 7,474 | 7,185 | 7,075 | 7,141 | 7,069 | 7,058 | 7,015 | 6,980 | 6,951 | 6,979 | 6,925 | 6,914 | 6,902 | 6,884 | 6,881 | 6,881 | 6,881 | 6,881 | 6,881 | 6,881 | 6,881 | 6,881 | 6,881 | 6,881 | 6,881 | 6,881 | 6,881 |
| Dec-06            | 1,001,691 | 8,682  | 8,903  | 8,633  | 8,064 | 8,035 | 8,094 | 7,984 | 7,968 | 7,910 | 7,846 | 7,805 | 7,822 | 7,748 | 7,719 | 7,691 | 7,671 | 7,660 | 7,660 | 7,660 | 7,660 | 7,660 | 7,660 | 7,660 | 7,660 | 7,660 | 7,660 | 7,660 | 7,660 | 7,660 | 7,660 |
| Jun-07            | 1,002,213 | 7,585  | 7,697  | 7,019  | 6,952 | 7,097 | 6,943 | 6,963 | 6,910 | 6,878 | 6,820 | 6,847 | 6,772 | 6,750 | 6,722 | 6,710 | 6,691 | 6,691 | 6,691 | 6,691 | 6,691 | 6,691 | 6,691 | 6,691 | 6,691 | 6,691 | 6,691 | 6,691 | 6,691 | 6,691 | 6,691 |
| Dec-07            | 1,056,660 | 7,356  | 7,777  | 7,392  | 7,437 | 7,447 | 7,406 | 7,403 | 7,338 | 7,261 | 7,264 | 7,183 | 7,137 | 7,099 | 7,088 | 7,075 | 7,075 | 7,075 | 7,075 | 7,075 | 7,075 | 7,075 | 7,075 | 7,075 | 7,075 | 7,075 | 7,075 | 7,075 | 7,075 | 7,075 | 7,075 |
| Jun-08            | 1,052,706 | 6,888  | 7,155  | 6,791  | 6,735 | 6,903 | 6,787 | 6,759 | 6,710 | 6,745 | 6,625 | 6,596 | 6,567 | 6,527 | 6,509 | 6,509 | 6,509 | 6,509 | 6,509 | 6,509 | 6,509 | 6,509 | 6,509 | 6,509 | 6,509 | 6,509 | 6,509 | 6,509 | 6,509 | 6,509 | 6,509 |
| Dec-08            | 1,097,553 | 6,879  | 7,455  | 7,031  | 7,162 | 7,127 | 7,059 | 7,060 | 7,102 | 6,977 | 6,930 | 6,896 | 6,857 | 6,824 | 6,824 | 6,824 | 6,824 | 6,824 | 6,824 | 6,824 | 6,824 | 6,824 | 6,824 | 6,824 | 6,824 | 6,824 | 6,824 | 6,824 | 6,824 | 6,824 | 6,824 |
| Jun-09            | 1,080,218 | 6,951  | 6,769  | 6,608  | 6,517 | 6,503 | 6,451 | 6,518 | 6,403 | 6,349 | 6,307 | 6,279 | 6,246 | 6,246 | 6,246 | 6,246 | 6,246 | 6,246 | 6,246 | 6,246 | 6,246 | 6,246 | 6,246 | 6,246 | 6,246 | 6,246 | 6,246 | 6,246 | 6,246 | 6,246 | 6,246 |
| Dec-09            | 1,119,434 | 7,411  | 8,124  | 7,528  | 7,504 | 7,445 | 7,404 | 7,278 | 7,230 | 7,195 | 7,146 | 7,122 | 7,122 | 7,122 | 7,122 | 7,122 | 7,122 | 7,122 | 7,122 | 7,122 | 7,122 | 7,122 | 7,122 | 7,122 | 7,122 | 7,122 | 7,122 | 7,122 | 7,122 | 7,122 | 7,122 |
| Jun-10            | 1,100,281 | 7,331  | 7,056  | 6,678  | 6,553 | 6,642 | 6,401 | 6,371 | 6,326 | 6,302 | 6,274 | 6,274 | 6,274 | 6,274 | 6,274 | 6,274 | 6,274 | 6,274 | 6,274 | 6,274 | 6,274 | 6,274 | 6,274 | 6,274 | 6,274 | 6,274 | 6,274 | 6,274 | 6,274 | 6,274 | 6,274 |
| Dec-10            | 1,147,235 | 8,507  | 8,633  | 8,127  | 8,119 | 7,844 | 7,686 | 7,662 | 7,622 | 7,563 | 7,563 | 7,563 | 7,563 | 7,563 | 7,563 | 7,563 | 7,563 | 7,563 | 7,563 | 7,563 | 7,563 | 7,563 | 7,563 | 7,563 | 7,563 | 7,563 | 7,563 | 7,563 | 7,563 | 7,563 | 7,563 |
| Jun-11            | 1,128,779 | 8,415  | 8,009  | 7,645  | 7,322 | 7,245 | 7,176 | 7,172 | 7,126 | 7,126 | 7,126 | 7,126 | 7,126 | 7,126 | 7,126 | 7,126 | 7,126 | 7,126 | 7,126 | 7,126 | 7,126 | 7,126 | 7,126 | 7,126 | 7,126 | 7,126 | 7,126 | 7,126 | 7,126 | 7,126 | 7,126 |
| Dec-11            | 1,178,668 | 8,069  | 8,287  | 7,615  | 7,464 | 7,303 | 7,190 | 7,162 | 7,162 | 7,162 | 7,162 | 7,162 | 7,162 | 7,162 | 7,162 | 7,162 | 7,162 | 7,162 | 7,162 | 7,162 | 7,162 | 7,162 | 7,162 | 7,162 | 7,162 | 7,162 | 7,162 | 7,162 | 7,162 | 7,162 | 7,162 |
| Jun-12            | 1,172,340 | 7,869  | 7,636  | 7,209  | 7,049 | 6,926 | 6,806 | 6,806 | 6,806 | 6,806 | 6,806 | 6,806 | 6,806 | 6,806 | 6,806 | 6,806 | 6,806 | 6,806 | 6,806 | 6,806 | 6,806 | 6,806 | 6,806 | 6,806 | 6,806 | 6,806 | 6,806 | 6,806 | 6,806 | 6,806 | 6,806 |
| Dec-12            | 1,224,777 | 7,978  | 8,663  | 8,261  | 8,131 | 7,970 | 7,970 | 7,970 | 7,970 | 7,970 | 7,970 | 7,970 | 7,970 | 7,970 | 7,970 | 7,970 | 7,970 | 7,970 | 7,970 | 7,970 | 7,970 | 7,970 | 7,970 | 7,970 | 7,970 | 7,970 | 7,970 | 7,970 | 7,970 | 7,970 | 7,970 |
| Jun-13            | 1,215,606 | 7,611  | 7,608  | 7,190  | 7,033 | 7,033 | 7,033 | 7,033 | 7,033 | 7,033 | 7,033 | 7,033 | 7,033 | 7,033 | 7,033 | 7,033 | 7,033 | 7,033 | 7,033 | 7,033 | 7,033 | 7,033 | 7,033 | 7,033 | 7,033 | 7,033 | 7,033 | 7,033 | 7,033 | 7,033 | 7,033 |
| Dec-13            | 1,274,980 | 8,670  | 9,306  | 8,624  | 8,624 | 8,624 | 8,624 | 8,624 | 8,624 | 8,624 | 8,624 | 8,624 | 8,624 | 8,624 | 8,624 | 8,624 | 8,624 | 8,624 | 8,624 | 8,624 | 8,624 | 8,624 | 8,624 | 8,624 | 8,624 | 8,624 | 8,624 | 8,624 | 8,624 | 8,624 | 8,624 |
| Jun-14            | 1,261,700 | 8,087  | 7,916  | 7,916  | 7,916 | 7,916 | 7,916 | 7,916 | 7,916 | 7,916 | 7,916 | 7,916 | 7,916 | 7,916 | 7,916 | 7,916 | 7,916 | 7,916 | 7,916 | 7,916 | 7,916 | 7,916 | 7,916 | 7,916 | 7,916 | 7,916 | 7,916 | 7,916 | 7,916 | 7,916 | 7,916 |
| Dec-14            | 1,285,927 | 8,592  | 8,592  | 8,592  | 8,592 | 8,592 | 8,592 | 8,592 | 8,592 | 8,592 | 8,592 | 8,592 | 8,592 | 8,592 | 8,592 | 8,592 | 8,592 | 8,592 | 8,592 | 8,592 | 8,592 | 8,592 | 8,592 | 8,592 | 8,592 | 8,592 | 8,592 | 8,592 | 8,592 | 8,592 | 8,592 |



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

TPL BI

Incurred Losses

Data as of 12/31/14

Losses in \$ 000s

| Accident Semester | Car-Years | 6       | 12      | 18      | 24      | 30      | 36      | 42      | 48      | 54      | 60      | 66      | 72      | 78      | 84      | 90      | 96      | 102     | 108     | 114     | 120     | 126     | 132     | 138     | 144     | 150     | 156     | 162     | 168     | 174     | 180     |
|-------------------|-----------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                   | (1)       |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Jun-00            | 782,580   | 169,464 | 202,297 | 218,193 | 226,187 | 239,007 | 246,863 | 252,029 | 256,868 | 257,988 | 260,444 | 259,834 | 260,802 | 261,837 | 262,498 | 262,508 | 262,908 | 263,214 | 263,674 | 263,618 | 263,356 | 263,425 | 263,457 | 264,479 | 264,416 | 264,455 | 264,569 | 264,763 | 264,559 | 264,507 | 264,515 |
| Dec-00            | 810,796   | 177,592 | 233,922 | 240,753 | 253,758 | 265,759 | 273,126 | 282,745 | 287,252 | 290,783 | 294,955 | 296,888 | 298,852 | 301,245 | 301,108 | 300,570 | 300,517 | 301,175 | 301,155 | 301,205 | 301,257 | 301,176 | 301,350 | 301,404 | 301,167 | 301,049 | 300,888 | 300,853 | 300,789 | 300,780 |         |
| Jun-01            | 830,225   | 175,853 | 204,253 | 220,946 | 230,774 | 240,960 | 251,732 | 258,990 | 261,644 | 264,933 | 266,346 | 268,788 | 271,973 | 272,702 | 273,645 | 274,819 | 275,324 | 275,372 | 276,776 | 277,456 | 277,349 | 277,273 | 276,968 | 276,997 | 277,391 | 277,491 | 277,633 | 277,738 | 277,614 |         |         |
| Dec-01            | 851,902   | 196,019 | 253,382 | 270,955 | 283,114 | 295,717 | 302,141 | 308,020 | 311,653 | 310,632 | 312,964 | 313,936 | 314,244 | 316,281 | 318,992 | 321,291 | 323,412 | 324,260 | 324,464 | 324,777 | 324,792 | 325,465 | 325,704 | 325,803 | 325,621 | 326,187 | 326,090 | 326,097 |         |         |         |
| Jun-02            | 834,467   | 183,933 | 233,688 | 250,409 | 266,059 | 274,657 | 284,098 | 288,459 | 293,772 | 293,053 | 295,512 | 297,923 | 299,711 | 299,340 | 299,752 | 300,749 | 300,057 | 300,647 | 301,183 | 301,721 | 301,602 | 302,146 | 303,155 | 302,896 | 302,956 | 303,476 | 303,494 |         |         |         |         |
| Dec-02            | 869,889   | 196,904 | 253,853 | 273,672 | 290,937 | 302,824 | 308,401 | 314,959 | 321,246 | 326,084 | 328,773 | 328,408 | 330,494 | 330,400 | 332,185 | 332,029 | 333,027 | 332,166 | 331,796 | 332,325 | 332,448 | 332,408 | 332,238 | 332,298 | 332,146 | 332,249 |         |         |         |         |         |
| Jun-03            | 853,493   | 181,013 | 224,362 | 236,298 | 244,627 | 253,826 | 260,666 | 264,997 | 270,365 | 274,262 | 275,368 | 276,878 | 277,090 | 278,642 | 278,001 | 279,715 | 280,079 | 281,375 | 280,587 | 282,585 | 283,947 | 283,967 | 284,300 | 284,094 | 283,875 |         |         |         |         |         |         |
| Dec-03            | 874,537   | 189,513 | 234,007 | 243,565 | 252,964 | 262,823 | 271,472 | 277,028 | 279,819 | 281,123 | 282,201 | 285,607 | 286,473 | 287,380 | 287,025 | 287,445 | 289,112 | 289,162 | 288,824 | 290,579 | 290,878 | 291,692 | 291,364 | 291,899 |         |         |         |         |         |         |         |
| Jun-04            | 861,327   | 170,374 | 202,974 | 204,931 | 208,969 | 213,647 | 219,450 | 225,783 | 229,277 | 232,303 | 232,937 | 234,768 | 236,243 | 235,557 | 236,734 | 238,002 | 240,317 | 241,589 | 242,455 | 244,117 | 243,765 | 243,935 | 244,815 |         |         |         |         |         |         |         |         |
| Dec-04            | 888,617   | 168,599 | 197,662 | 196,670 | 204,657 | 208,154 | 212,401 | 216,967 | 220,477 | 225,528 | 227,551 | 228,528 | 229,164 | 229,595 | 227,257 | 229,326 | 229,314 | 232,434 | 232,416 | 232,500 | 234,061 | 232,423 |         |         |         |         |         |         |         |         |         |
| Jun-05            | 884,451   | 132,381 | 145,575 | 146,170 | 148,635 | 150,596 | 154,820 | 162,221 | 167,478 | 171,292 | 171,530 | 172,840 | 175,057 | 178,434 | 182,266 | 183,980 | 184,985 | 186,284 | 187,669 | 186,461 | 187,570 |         |         |         |         |         |         |         |         |         |         |
| Dec-05            | 939,959   | 140,797 | 164,877 | 161,245 | 163,987 | 165,687 | 175,879 | 185,292 | 193,135 | 195,138 | 195,625 | 197,445 | 200,366 | 204,156 | 208,161 | 210,086 | 212,191 | 213,929 | 215,500 | 216,803 |         |         |         |         |         |         |         |         |         |         |         |
| Jun-06            | 945,710   | 137,451 | 147,050 | 142,699 | 142,320 | 150,169 | 156,122 | 162,609 | 163,101 | 166,974 | 172,082 | 175,312 | 177,860 | 182,044 | 185,362 | 187,359 | 188,190 | 190,510 | 191,960 |         |         |         |         |         |         |         |         |         |         |         |         |
| Dec-06            | 1,001,691 | 159,373 | 189,608 | 173,602 | 176,228 | 190,380 | 200,385 | 206,825 | 210,728 | 219,939 | 221,994 | 225,733 | 231,229 | 235,397 | 238,328 | 238,958 | 242,558 | 242,959 |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Jun-07            | 1,002,213 | 113,309 | 128,951 | 128,606 | 134,978 | 146,440 | 152,527 | 157,870 | 160,737 | 167,279 | 173,607 | 178,944 | 186,585 | 188,928 | 190,628 | 193,962 | 194,861 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Dec-07            | 1,056,660 | 135,785 | 163,960 | 170,226 | 178,737 | 186,606 | 194,409 | 207,715 | 215,258 | 219,843 | 226,608 | 233,725 | 240,849 | 243,507 | 247,063 | 248,746 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Jun-08            | 1,052,706 | 120,258 | 140,609 | 141,311 | 142,263 | 149,705 | 160,333 | 173,691 | 182,588 | 195,122 | 204,581 | 211,237 | 217,254 | 224,090 | 223,727 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Dec-08            | 1,097,553 | 136,879 | 167,168 | 164,686 | 171,682 | 188,009 | 202,364 | 211,816 | 226,011 | 237,973 | 245,715 | 248,619 | 253,435 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Jun-09            | 1,080,218 | 121,587 | 127,292 | 123,751 | 128,009 | 139,215 | 147,289 | 161,999 | 176,501 | 185,189 | 196,422 | 203,827 | 203,522 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Dec-09            | 1,119,434 | 142,842 | 160,447 | 161,646 | 174,045 | 181,501 | 197,740 | 214,396 | 225,829 | 237,575 | 244,666 | 249,218 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Jun-10            | 1,100,281 | 116,441 | 126,394 | 123,675 | 129,667 | 139,349 | 151,022 | 161,833 | 170,909 | 177,150 | 180,508 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Dec-10            | 1,147,235 | 155,703 | 172,780 | 172,365 | 182,698 | 195,603 | 216,373 | 233,266 | 244,784 | 246,283 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Jun-11            | 1,128,779 | 125,730 | 133,891 | 133,993 | 140,110 | 153,119 | 168,234 | 183,071 | 191,627 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Dec-11            | 1,178,668 | 149,121 | 171,113 | 179,144 | 194,363 | 210,816 | 229,263 | 243,350 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Jun-12            | 1,172,340 | 133,657 | 161,252 | 164,395 | 177,049 | 197,651 | 213,641 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Dec-12            | 1,224,777 | 147,885 | 179,414 | 192,384 | 213,394 | 230,022 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Jun-13            | 1,215,606 | 123,133 | 151,392 | 162,836 | 177,739 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Dec-13            | 1,274,980 | 158,189 | 201,439 | 213,353 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Jun-14            | 1,261,700 | 139,349 | 169,792 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Dec-14            | 1,285,927 | 178,464 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |





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

TPL BI

Paid Losses

Data as of 12/31/14

Losses in \$ 000s

| Accident<br>Semester | Car-Years | 6     | 12     | 18     | 24     | 30      | 36      | 42      | 48      | 54      | 60      | 66      | 72      | 78      | 84      | 90      | 96      | 102     | 108     | 114     | 120     | 126     | 132     | 138     | 144     | 150     | 156     | 162     | 168     | 174     | 180     |
|----------------------|-----------|-------|--------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
|                      | (1)       |       |        |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Jun-00               | 782,580   | 6,507 | 23,512 | 48,763 | 78,036 | 109,525 | 137,106 | 157,810 | 176,866 | 193,298 | 211,401 | 222,626 | 230,966 | 236,850 | 244,013 | 249,050 | 251,893 | 254,774 | 256,566 | 257,129 | 259,039 | 260,910 | 261,235 | 262,369 | 262,655 | 262,659 | 262,943 | 263,174 | 264,191 | 264,204 | 264,208 |
| Dec-00               | 810,796   | 5,980 | 24,691 | 51,570 | 82,434 | 122,371 | 153,457 | 182,281 | 204,529 | 220,741 | 236,892 | 251,949 | 263,419 | 272,152 | 276,859 | 283,250 | 286,932 | 289,474 | 292,688 | 296,270 | 297,879 | 298,435 | 298,726 | 298,831 | 299,653 | 300,276 | 300,574 | 300,774 | 300,764 | 300,780 |         |
| Jun-01               | 830,225   | 5,762 | 22,426 | 47,601 | 79,445 | 111,291 | 139,906 | 159,799 | 179,712 | 196,427 | 212,468 | 224,490 | 235,811 | 244,204 | 250,546 | 255,679 | 261,874 | 264,183 | 267,830 | 271,153 | 273,993 | 275,020 | 275,380 | 275,535 | 275,626 | 275,716 | 276,207 | 277,023 | 277,086 |         |         |
| Dec-01               | 851,902   | 5,865 | 24,517 | 52,486 | 85,979 | 130,344 | 162,689 | 191,675 | 213,667 | 234,562 | 249,396 | 265,366 | 274,427 | 284,252 | 291,617 | 300,949 | 307,865 | 312,876 | 315,726 | 317,090 | 319,741 | 321,386 | 322,184 | 322,809 | 323,170 | 324,246 | 325,354 | 325,391 |         |         |         |
| Jun-02               | 834,467   | 5,699 | 24,221 | 53,292 | 86,579 | 120,721 | 152,420 | 176,810 | 199,587 | 217,384 | 233,788 | 246,921 | 258,188 | 268,963 | 274,838 | 279,973 | 285,088 | 289,567 | 293,367 | 295,153 | 297,247 | 298,963 | 299,348 | 300,068 | 300,202 | 301,002 | 301,304 |         |         |         |         |
| Dec-02               | 869,889   | 6,327 | 24,256 | 51,339 | 82,637 | 120,914 | 149,843 | 180,495 | 203,588 | 230,693 | 247,374 | 269,297 | 282,181 | 290,925 | 298,364 | 305,659 | 313,203 | 318,125 | 321,838 | 324,549 | 327,076 | 329,199 | 329,972 | 331,444 | 331,593 | 331,930 |         |         |         |         |         |
| Jun-03               | 853,493   | 5,976 | 23,745 | 50,672 | 76,027 | 104,855 | 132,869 | 153,425 | 175,324 | 192,307 | 209,454 | 221,606 | 233,816 | 244,048 | 252,554 | 258,959 | 264,570 | 266,812 | 270,535 | 271,778 | 273,154 | 275,545 | 277,542 | 279,895 | 280,831 |         |         |         |         |         |         |
| Dec-03               | 874,537   | 6,504 | 22,142 | 43,927 | 69,308 | 98,543  | 123,963 | 148,783 | 168,339 | 186,134 | 203,831 | 220,757 | 233,730 | 248,917 | 257,755 | 265,677 | 272,781 | 275,662 | 279,934 | 283,346 | 284,965 | 288,113 | 288,646 | 290,170 |         |         |         |         |         |         |         |
| Jun-04               | 861,327   | 6,198 | 20,996 | 40,210 | 60,530 | 84,662  | 105,353 | 122,801 | 140,769 | 154,751 | 172,747 | 186,133 | 199,456 | 207,768 | 212,846 | 217,487 | 223,353 | 228,255 | 231,496 | 234,280 | 238,687 | 239,748 | 240,478 |         |         |         |         |         |         |         |         |
| Dec-04               | 888,617   | 4,936 | 20,017 | 34,883 | 53,961 | 75,337  | 90,308  | 108,925 | 123,337 | 141,078 | 156,013 | 169,442 | 181,259 | 193,673 | 201,665 | 209,331 | 214,287 | 219,341 | 223,306 | 225,366 | 227,517 | 228,952 |         |         |         |         |         |         |         |         |         |
| Jun-05               | 884,451   | 5,289 | 18,133 | 27,573 | 39,597 | 49,628  | 56,411  | 68,903  | 83,241  | 99,390  | 114,594 | 126,946 | 138,407 | 147,033 | 155,566 | 163,464 | 168,451 | 172,392 | 177,120 | 179,198 | 180,744 |         |         |         |         |         |         |         |         |         |         |
| Dec-05               | 939,959   | 5,701 | 20,369 | 31,736 | 49,808 | 62,719  | 73,013  | 86,993  | 101,941 | 117,367 | 131,775 | 143,328 | 152,597 | 163,457 | 176,071 | 186,140 | 191,202 | 198,749 | 201,455 | 205,579 |         |         |         |         |         |         |         |         |         |         |         |
| Jun-06               | 945,710   | 4,804 | 16,694 | 26,163 | 35,504 | 45,908  | 61,140  | 74,799  | 88,982  | 100,953 | 116,243 | 128,577 | 139,255 | 149,805 | 159,739 | 166,579 | 171,539 | 175,938 | 177,904 |         |         |         |         |         |         |         |         |         |         |         |         |
| Dec-06               | 1,001,691 | 5,559 | 20,202 | 31,401 | 42,576 | 57,605  | 70,699  | 89,459  | 108,745 | 128,095 | 146,775 | 163,857 | 178,685 | 192,436 | 204,004 | 209,824 | 217,256 | 220,755 |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Jun-07               | 1,002,213 | 4,531 | 16,803 | 25,313 | 35,373 | 48,757  | 59,072  | 73,514  | 89,356  | 99,351  | 115,786 | 127,542 | 140,345 | 152,613 | 162,077 | 168,609 | 175,394 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Dec-07               | 1,056,660 | 3,661 | 14,907 | 29,194 | 44,207 | 60,379  | 80,588  | 101,431 | 116,943 | 134,968 | 155,223 | 174,031 | 184,400 | 198,921 | 209,780 | 219,546 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Jun-08               | 1,052,706 | 3,245 | 14,582 | 25,764 | 36,873 | 52,038  | 64,199  | 78,034  | 95,801  | 113,268 | 133,433 | 149,633 | 165,886 | 176,923 | 190,063 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Dec-08               | 1,097,553 | 4,529 | 15,695 | 29,484 | 42,057 | 58,509  | 76,832  | 97,450  | 113,592 | 137,604 | 160,595 | 183,233 | 202,240 | 215,834 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Jun-09               | 1,080,218 | 3,616 | 13,654 | 24,645 | 35,927 | 50,948  | 62,306  | 77,907  | 94,369  | 107,690 | 122,677 | 138,439 | 153,819 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Dec-09               | 1,119,434 | 4,126 | 18,613 | 30,889 | 43,841 | 62,974  | 78,252  | 99,263  | 119,333 | 139,447 | 165,113 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Jun-10               | 1,100,281 | 4,242 | 17,835 | 28,460 | 36,814 | 49,224  | 67,078  | 79,945  | 97,500  | 112,586 | 126,926 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Dec-10               | 1,147,235 | 3,995 | 21,394 | 35,513 | 49,714 | 69,279  | 87,367  | 115,360 | 138,804 | 161,267 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Jun-11               | 1,128,779 | 4,815 | 18,420 | 29,100 | 40,439 | 58,682  | 73,122  | 88,723  | 109,057 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Dec-11               | 1,178,668 | 3,956 | 19,625 | 36,521 | 54,210 | 78,880  | 99,981  | 128,166 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Jun-12               | 1,172,340 | 4,521 | 20,719 | 33,978 | 50,200 | 73,623  | 95,994  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Dec-12               | 1,224,777 | 4,052 | 22,247 | 38,066 | 59,408 | 89,045  |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Jun-13               | 1,215,606 | 3,576 | 16,630 | 31,546 | 49,614 |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Dec-13               | 1,274,980 | 4,194 | 20,621 | 42,351 |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Jun-14               | 1,261,700 | 4,388 | 23,206 |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |
| Dec-14               | 1,285,927 | 4,149 |        |        |        |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |         |

















Province of Alberta  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)  
AB All Med Exp  
Incurred Losses  
Data as of 12/31/14  
Losses in \$ 000s

| Accident Semester | Car-Years | 6      | 12     | 18     | 24     | 30     | 36     | 42     | 48     | 54     | 60     | 66     | 72     | 78     | 84     | 90     | 96     | 102    | 108    | 114    | 120    | 126    | 132    | 138    | 144    | 150    | 156    | 162    | 168    | 174    | 180    |
|-------------------|-----------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                   | (1)       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Jun-00            | 780,439   | 18,640 | 17,255 | 17,255 | 18,093 | 17,281 | 17,096 | 17,059 | 17,183 | 17,137 | 17,111 | 17,070 | 17,053 | 17,046 | 17,064 | 17,076 | 17,123 | 17,157 | 17,169 | 17,255 | 17,255 | 17,255 | 17,255 | 17,255 | 17,255 | 17,260 | 17,260 | 17,265 | 17,272 | 17,272 | 17,323 |
| Dec-00            | 807,484   | 20,174 | 20,607 | 20,528 | 20,598 | 19,668 | 19,419 | 19,342 | 19,447 | 19,418 | 19,421 | 19,457 | 19,476 | 19,514 | 19,526 | 19,636 | 19,641 | 20,119 | 20,112 | 20,107 | 20,107 | 20,107 | 20,111 | 20,119 | 20,119 | 20,119 | 20,143 | 20,143 | 20,168 |        |        |
| Jun-01            | 812,444   | 19,622 | 18,744 | 18,606 | 18,568 | 17,643 | 17,868 | 17,860 | 17,642 | 17,627 | 17,614 | 17,729 | 17,677 | 17,663 | 17,643 | 17,638 | 17,637 | 17,635 | 17,635 | 17,635 | 17,637 | 17,628 | 17,628 | 17,628 | 17,625 | 17,625 | 17,625 | 17,625 | 17,625 |        |        |
| Dec-01            | 844,102   | 23,478 | 25,044 | 23,491 | 23,039 | 22,341 | 21,993 | 21,999 | 22,067 | 22,102 | 21,974 | 22,050 | 22,088 | 22,062 | 22,095 | 22,092 | 22,038 | 22,057 | 22,064 | 21,927 | 21,955 | 22,053 | 22,054 | 22,061 | 22,089 | 22,089 | 22,088 | 22,088 |        |        |        |
| Jun-02            | 832,380   | 22,656 | 21,979 | 21,298 | 21,168 | 20,582 | 20,408 | 20,457 | 20,485 | 20,350 | 20,371 | 20,367 | 20,414 | 20,370 | 20,362 | 20,349 | 20,443 | 20,443 | 20,460 | 20,460 | 20,560 | 20,560 | 20,560 | 20,560 | 20,560 | 20,560 | 20,560 | 20,560 | 20,576 |        |        |
| Dec-02            | 869,521   | 23,319 | 24,275 | 23,534 | 23,265 | 22,420 | 22,207 | 22,285 | 22,242 | 22,209 | 22,257 | 22,210 | 22,345 | 22,358 | 22,452 | 22,540 | 22,556 | 22,379 | 22,662 | 22,657 | 22,646 | 22,640 | 22,644 | 22,649 | 22,649 | 22,649 | 22,662 |        |        |        |        |
| Jun-03            | 853,159   | 21,878 | 20,547 | 19,835 | 19,626 | 19,087 | 19,041 | 19,032 | 19,014 | 19,033 | 19,044 | 19,039 | 19,064 | 19,047 | 19,063 | 19,070 | 19,094 | 19,089 | 19,089 | 19,079 | 19,078 | 19,081 | 19,081 | 19,081 | 19,081 | 19,081 | 19,081 |        |        |        |        |
| Dec-03            | 875,870   | 22,876 | 21,882 | 20,840 | 20,407 | 20,092 | 19,836 | 19,652 | 19,672 | 19,699 | 19,632 | 19,625 | 19,454 | 19,493 | 19,468 | 19,404 | 19,408 | 19,406 | 19,388 | 19,378 | 19,368 | 19,369 | 19,369 | 19,362 | 19,362 | 19,362 | 19,362 |        |        |        |        |
| Jun-04            | 864,302   | 20,009 | 18,282 | 17,774 | 17,278 | 16,813 | 16,812 | 16,796 | 16,924 | 17,016 | 16,977 | 16,987 | 16,919 | 16,921 | 16,921 | 16,920 | 16,921 | 16,914 | 16,914 | 16,897 | 16,897 | 16,897 | 16,897 | 16,897 | 16,897 | 16,897 | 16,897 |        |        |        |        |
| Dec-04            | 893,637   | 25,908 | 22,565 | 21,240 | 20,735 | 19,964 | 19,897 | 19,894 | 19,866 | 19,860 | 19,807 | 19,914 | 19,938 | 20,554 | 20,562 | 20,587 | 20,598 | 20,613 | 20,598 | 20,538 | 20,538 | 20,538 | 20,538 | 20,538 | 20,538 | 20,538 | 20,538 |        |        |        |        |
| Jun-05            | 888,577   | 25,503 | 21,032 | 20,039 | 19,889 | 19,533 | 19,548 | 19,498 | 19,452 | 19,389 | 19,506 | 19,650 | 19,662 | 19,522 | 19,584 | 19,407 | 19,434 | 19,402 | 19,375 | 19,375 | 19,376 | 19,381 |        |        |        |        |        |        |        |        |        |
| Dec-05            | 941,651   | 30,135 | 23,874 | 22,876 | 23,058 | 22,450 | 22,301 | 22,407 | 22,352 | 22,197 | 22,312 | 22,225 | 22,232 | 22,195 | 22,218 | 22,218 | 22,271 | 22,277 | 22,469 | 22,427 |        |        |        |        |        |        |        |        |        |        |        |
| Jun-06            | 945,398   | 28,096 | 21,403 | 20,104 | 19,620 | 19,075 | 18,814 | 18,659 | 18,640 | 18,602 | 18,608 | 18,543 | 18,544 | 18,544 | 18,528 | 18,529 | 18,528 | 18,533 | 18,533 |        |        |        |        |        |        |        |        |        |        |        |        |
| Dec-06            | 1,000,815 | 35,781 | 27,354 | 25,727 | 25,537 | 24,758 | 24,842 | 24,539 | 24,555 | 24,501 | 24,521 | 24,506 | 24,533 | 24,546 | 24,527 | 24,456 | 24,454 | 24,042 |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Jun-07            | 1,001,483 | 30,219 | 22,612 | 21,227 | 21,037 | 20,410 | 20,273 | 20,303 | 20,319 | 20,394 | 20,367 | 20,291 | 20,296 | 20,305 | 20,275 | 20,280 | 20,227 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Dec-07            | 1,056,479 | 34,594 | 26,845 | 25,106 | 25,029 | 24,260 | 24,002 | 24,102 | 24,156 | 24,229 | 24,298 | 24,258 | 24,394 | 24,760 | 24,892 | 24,940 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Jun-08            | 1,053,269 | 29,026 | 23,844 | 22,678 | 22,464 | 22,059 | 21,774 | 21,720 | 21,740 | 21,697 | 21,706 | 21,880 | 21,887 | 21,885 | 21,756 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Dec-08            | 1,098,119 | 34,480 | 28,966 | 27,529 | 27,505 | 26,742 | 27,422 | 27,241 | 27,265 | 27,339 | 27,531 | 27,530 | 27,493 | 27,465 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Jun-09            | 1,080,603 | 30,072 | 24,571 | 23,599 | 23,633 | 22,832 | 22,678 | 22,493 | 22,472 | 22,503 | 22,511 | 22,499 | 22,576 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Dec-09            | 1,119,820 | 42,092 | 32,342 | 29,599 | 29,153 | 28,129 | 27,947 | 27,985 | 27,932 | 27,978 | 27,780 | 27,737 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Jun-10            | 1,100,479 | 36,867 | 26,358 | 24,951 | 24,101 | 23,763 | 23,743 | 23,778 | 23,827 | 23,957 | 23,907 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Dec-10            | 1,147,364 | 47,772 | 34,586 | 29,457 | 29,713 | 29,010 | 28,756 | 28,958 | 28,968 | 29,025 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Jun-11            | 1,128,484 | 41,504 | 28,616 | 26,956 | 26,953 | 26,093 | 26,058 | 26,124 | 26,146 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Dec-11            | 1,178,585 | 45,761 | 32,573 | 30,660 | 31,470 | 30,522 | 30,551 | 30,612 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Jun-12            | 1,172,586 | 39,731 | 29,286 | 27,856 | 27,863 | 27,167 | 26,727 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Dec-12            | 1,225,515 | 49,390 | 38,235 | 36,024 | 36,323 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Jun-13            | 1,216,308 | 42,721 | 30,346 | 29,353 | 29,361 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Dec-13            | 1,275,674 | 52,858 | 37,732 | 35,820 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Jun-14            | 1,262,385 | 42,950 | 31,105 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| Dec-14            | 1,285,703 | 51,647 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |







Province of Alberta  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)  
AB All DI  
Incurred Losses  
Data as of 12/31/14  
Losses in \$ 000s

| Accident Semester | Car-Years | 6     | 12     | 18     | 24     | 30     | 36     | 42     | 48     | 54     | 60     | 66     | 72     | 78     | 84     | 90     | 96     | 102    | 108    | 114    | 120    | 126    | 132    | 138    | 144    | 150    | 156    | 162    | 168    | 174    | 180    |  |
|-------------------|-----------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
|                   | (1)       |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Jun-00            | 780,439   | 6,623 | 7,888  | 8,660  | 8,979  | 8,936  | 8,897  | 8,851  | 8,888  | 9,044  | 9,057  | 9,048  | 9,002  | 9,009  | 8,985  | 9,013  | 9,013  | 9,031  | 9,022  | 9,022  | 9,022  | 9,022  | 9,022  | 9,022  | 9,022  | 9,022  | 9,022  | 9,022  | 9,022  | 9,022  | 9,022  |  |
| Dec-00            | 807,484   | 7,645 | 10,779 | 11,924 | 12,454 | 12,360 | 12,390 | 12,416 | 12,587 | 12,432 | 12,429 | 12,399 | 12,457 | 12,654 | 12,646 | 12,622 | 12,619 | 12,613 | 12,613 | 12,599 | 12,599 | 12,597 | 12,597 | 12,597 | 12,597 | 12,597 | 12,597 | 12,597 | 12,597 | 12,597 | 12,597 |  |
| Jun-01            | 812,444   | 7,011 | 8,396  | 8,774  | 9,021  | 9,020  | 9,199  | 9,507  | 9,220  | 9,187  | 9,190  | 9,147  | 9,185  | 9,185  | 9,167  | 9,166  | 9,164  | 9,157  | 9,157  | 9,157  | 9,157  | 9,157  | 9,157  | 9,157  | 9,157  | 9,157  | 9,157  | 9,157  | 9,157  | 9,157  | 9,157  |  |
| Dec-01            | 844,102   | 9,079 | 10,929 | 11,149 | 11,759 | 11,714 | 11,940 | 11,740 | 11,835 | 11,887 | 11,925 | 11,998 | 11,940 | 11,890 | 11,890 | 11,891 | 12,036 | 12,036 | 12,035 | 11,974 | 11,974 | 11,958 | 11,958 | 11,958 | 11,958 | 11,956 | 11,956 | 11,956 | 11,956 | 11,956 | 11,956 |  |
| Jun-02            | 832,380   | 7,557 | 9,600  | 10,063 | 10,242 | 10,341 | 10,388 | 10,404 | 10,429 | 10,417 | 10,455 | 10,495 | 10,525 | 10,557 | 10,591 | 10,620 | 11,045 | 11,052 | 11,061 | 11,084 | 11,084 | 11,084 | 11,084 | 11,084 | 11,084 | 11,385 | 11,385 | 11,429 | 11,426 | 11,956 |        |  |
| Dec-02            | 869,521   | 8,733 | 10,945 | 11,788 | 12,282 | 12,028 | 11,719 | 11,737 | 11,769 | 11,739 | 11,743 | 11,741 | 11,711 | 11,685 | 11,674 | 11,674 | 11,662 | 11,662 | 11,662 | 11,662 | 11,662 | 11,662 | 11,662 | 11,662 | 11,662 | 12,076 | 12,109 |        |        |        |        |  |
| Jun-03            | 853,159   | 6,470 | 7,865  | 8,206  | 8,424  | 8,374  | 8,301  | 8,309  | 8,293  | 8,292  | 8,309  | 8,281  | 8,297  | 8,293  | 8,317  | 8,317  | 8,331  | 8,331  | 8,331  | 8,331  | 8,343  | 8,346  | 8,371  | 8,371  | 8,371  | 8,371  |        |        |        |        |        |  |
| Dec-03            | 875,870   | 7,343 | 8,467  | 9,551  | 9,898  | 9,623  | 9,593  | 9,340  | 9,314  | 9,463  | 9,491  | 9,480  | 9,371  | 9,396  | 9,417  | 9,413  | 9,422  | 9,386  | 9,262  | 9,241  | 9,238  | 9,238  | 9,238  | 9,238  | 9,288  |        |        |        |        |        |        |  |
| Jun-04            | 864,302   | 5,623 | 6,908  | 7,507  | 7,727  | 7,571  | 7,585  | 7,575  | 7,585  | 7,563  | 7,523  | 7,522  | 7,522  | 7,523  | 7,523  | 7,523  | 7,523  | 7,521  | 7,521  | 7,517  | 7,517  | 7,517  | 7,517  | 7,517  |        |        |        |        |        |        |        |  |
| Dec-04            | 893,637   | 5,937 | 7,429  | 8,248  | 8,357  | 8,180  | 8,136  | 8,160  | 8,166  | 8,190  | 8,173  | 8,583  | 8,583  | 9,427  | 9,426  | 9,426  | 9,420  | 9,420  | 9,389  | 9,389  | 9,389  | 9,389  | 9,389  |        |        |        |        |        |        |        |        |  |
| Jun-05            | 888,577   | 5,177 | 6,536  | 7,031  | 7,168  | 7,224  | 7,235  | 7,257  | 7,241  | 7,197  | 7,197  | 7,315  | 7,365  | 7,364  | 7,364  | 7,479  | 7,452  | 7,444  | 7,444  | 7,441  | 7,441  |        |        |        |        |        |        |        |        |        |        |  |
| Dec-05            | 941,651   | 5,925 | 7,765  | 8,762  | 9,358  | 9,058  | 9,044  | 9,565  | 9,246  | 9,107  | 9,085  | 9,193  | 9,179  | 9,179  | 9,150  | 9,150  | 9,154  | 9,154  | 9,287  | 9,274  |        |        |        |        |        |        |        |        |        |        |        |  |
| Jun-06            | 945,398   | 5,479 | 6,719  | 7,573  | 7,598  | 7,545  | 7,493  | 7,480  | 7,492  | 7,469  | 7,467  | 7,466  | 7,472  | 7,473  | 7,467  | 7,467  | 7,467  | 7,467  | 7,467  | 7,467  |        |        |        |        |        |        |        |        |        |        |        |  |
| Dec-06            | 1,000,815 | 7,241 | 8,490  | 8,762  | 8,969  | 8,943  | 9,176  | 9,314  | 9,303  | 9,722  | 9,716  | 9,697  | 9,677  | 9,677  | 9,692  | 9,915  | 9,911  | 9,866  |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Jun-07            | 1,001,483 | 6,134 | 7,810  | 8,341  | 8,722  | 8,663  | 8,722  | 8,759  | 8,968  | 9,039  | 9,019  | 9,032  | 9,057  | 9,058  | 9,049  | 9,049  | 9,068  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Dec-07            | 1,056,479 | 8,510 | 10,731 | 11,637 | 12,227 | 12,080 | 11,731 | 11,983 | 12,007 | 11,982 | 11,931 | 11,931 | 11,985 | 12,613 | 12,607 | 12,602 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Jun-08            | 1,053,269 | 6,677 | 7,852  | 9,119  | 9,603  | 9,606  | 9,588  | 9,570  | 9,672  | 9,545  | 9,545  | 9,585  | 9,578  | 9,601  | 9,580  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Dec-08            | 1,098,119 | 8,189 | 10,901 | 12,198 | 13,130 | 13,159 | 13,165 | 13,094 | 13,164 | 13,206 | 13,493 | 13,493 | 13,449 | 13,271 | 13,311 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Jun-09            | 1,080,603 | 6,488 | 8,937  | 10,028 | 10,573 | 10,690 | 10,606 | 10,280 | 10,277 | 10,296 | 10,341 | 10,435 | 10,608 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Dec-09            | 1,119,820 | 7,980 | 10,496 | 11,273 | 11,855 | 11,873 | 12,140 | 12,148 | 11,728 | 11,727 | 11,791 | 11,910 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Jun-10            | 1,100,479 | 5,820 | 7,342  | 7,903  | 8,155  | 8,117  | 8,093  | 8,052  | 8,070  | 8,069  | 8,045  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Dec-10            | 1,147,364 | 7,655 | 9,567  | 10,689 | 11,581 | 11,696 | 11,632 | 11,828 | 11,896 | 11,966 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Jun-11            | 1,128,484 | 5,987 | 7,529  | 8,170  | 8,350  | 8,012  | 8,084  | 8,052  | 8,083  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Dec-11            | 1,178,585 | 7,074 | 9,364  | 10,497 | 11,296 | 11,288 | 11,595 | 11,654 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Jun-12            | 1,172,586 | 6,140 | 8,005  | 9,379  | 10,005 | 10,231 | 10,287 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Dec-12            | 1,225,515 | 7,656 | 10,761 | 11,857 | 12,660 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Jun-13            | 1,216,308 | 5,918 | 7,957  | 9,248  | 9,864  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Dec-13            | 1,275,674 | 7,463 | 10,325 | 11,555 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Jun-14            | 1,262,385 | 5,742 | 7,814  |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
| Dec-14            | 1,285,703 | 7,416 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |



Province of Alberta  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)  
AB DB  
Reported Counts  
Data as of 12/31/14

| Accident<br>Semester | Car-Years | 6  | 12 | 18 | 24 | 30 | 36 | 42 | 48 | 54 | 60 | 66 | 72 | 78 | 84 | 90 | 96 | 102 | 108 | 114 | 120 | 126 | 132 | 138 | 144 | 150 | 156 | 162 | 168 | 174 | 180 |
|----------------------|-----------|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                      | (1)       |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |    |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Jun-00               | 780,439   | 57 | 61 | 59 | 58 | 56 | 56 | 56 | 55 | 56 | 56 | 56 | 55 | 55 | 55 | 55 | 55 | 55  | 55  | 55  | 55  | 55  | 55  | 55  | 55  | 55  | 55  | 55  | 55  | 55  | 55  |
| Dec-00               | 807,484   | 83 | 87 | 89 | 89 | 90 | 88 | 85 | 85 | 86 | 86 | 86 | 86 | 86 | 86 | 85 | 85 | 85  | 85  | 85  | 85  | 85  | 85  | 85  | 85  | 85  | 85  | 85  | 85  | 85  | 85  |
| Jun-01               | 812,444   | 70 | 69 | 66 | 65 | 65 | 62 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  |
| Dec-01               | 844,102   | 71 | 77 | 83 | 81 | 79 | 76 | 75 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74 | 74  | 74  | 74  | 74  | 74  | 74  | 74  | 74  | 74  | 74  | 74  | 74  | 74  | 74  |
| Jun-02               | 832,380   | 58 | 64 | 65 | 69 | 69 | 69 | 69 | 69 | 67 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | 66  | 66  | 66  | 66  | 66  | 66  | 66  | 66  | 66  | 66  | 66  | 66  | 66  | 66  |
| Dec-02               | 869,521   | 71 | 69 | 65 | 66 | 66 | 67 | 68 | 67 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65  | 65  | 64  | 64  | 64  | 64  | 64  | 64  | 64  | 64  | 64  | 64  | 64  | 64  |
| Jun-03               | 853,159   | 72 | 63 | 62 | 62 | 60 | 60 | 60 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61 | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  |
| Dec-03               | 875,870   | 90 | 93 | 92 | 90 | 87 | 85 | 84 | 82 | 82 | 82 | 82 | 82 | 82 | 82 | 81 | 81 | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  |
| Jun-04               | 864,302   | 57 | 50 | 55 | 56 | 54 | 53 | 52 | 52 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51 | 51  | 51  | 51  | 51  | 51  | 51  | 51  | 51  | 51  | 51  | 51  | 51  | 51  | 51  |
| Dec-04               | 893,637   | 71 | 72 | 73 | 72 | 71 | 72 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  |
| Jun-05               | 888,577   | 64 | 66 | 68 | 68 | 67 | 67 | 64 | 65 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64 | 64  | 64  | 64  | 64  | 64  | 64  | 64  | 64  | 64  | 64  | 64  | 64  | 64  | 64  |
| Dec-05               | 941,651   | 80 | 90 | 83 | 81 | 78 | 79 | 77 | 77 | 76 | 76 | 76 | 77 | 76 | 77 | 77 | 77 | 77  | 77  | 77  | 77  | 77  | 77  | 77  | 77  | 77  | 77  | 77  | 77  | 77  | 77  |
| Jun-06               | 945,398   | 80 | 66 | 67 | 64 | 63 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | 62  | 62  | 62  | 62  | 62  | 62  | 62  | 62  | 62  | 62  | 62  | 62  | 62  | 62  |
| Dec-06               | 1,000,815 | 92 | 85 | 79 | 77 | 76 | 75 | 74 | 74 | 74 | 74 | 73 | 72 | 72 | 72 | 72 | 72 | 72  | 72  | 72  | 72  | 72  | 72  | 72  | 72  | 72  | 72  | 72  | 72  | 72  | 72  |
| Jun-07               | 1,001,483 | 72 | 78 | 69 | 67 | 63 | 63 | 62 | 62 | 62 | 60 | 62 | 62 | 62 | 60 | 60 | 60 | 60  | 60  | 60  | 60  | 60  | 60  | 60  | 60  | 60  | 60  | 60  | 60  | 60  | 60  |
| Dec-07               | 1,056,479 | 95 | 88 | 82 | 84 | 84 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83 | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  |
| Jun-08               | 1,053,269 | 55 | 62 | 61 | 58 | 57 | 56 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57 | 57  | 57  | 57  | 57  | 57  | 57  | 57  | 57  | 57  | 57  | 57  | 57  | 57  | 57  |
| Dec-08               | 1,096,119 | 87 | 89 | 88 | 82 | 82 | 82 | 80 | 80 | 80 | 79 | 79 | 79 | 79 | 79 | 79 | 79 | 79  | 79  | 79  | 79  | 79  | 79  | 79  | 79  | 79  | 79  | 79  | 79  | 79  | 79  |
| Jun-09               | 1,080,603 | 55 | 55 | 49 | 48 | 46 | 46 | 46 | 46 | 46 | 46 | 46 | 45 | 45 | 45 | 45 | 45 | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  | 45  |
| Dec-09               | 1,119,820 | 73 | 64 | 58 | 58 | 55 | 57 | 57 | 57 | 57 | 56 | 56 | 55 | 55 | 55 | 55 | 55 | 55  | 55  | 55  | 55  | 55  | 55  | 55  | 55  | 55  | 55  | 55  | 55  | 55  | 55  |
| Jun-10               | 1,100,479 | 44 | 42 | 41 | 40 | 40 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39 | 39  | 39  | 39  | 39  | 39  | 39  | 39  | 39  | 39  | 39  | 39  | 39  | 39  | 39  |
| Dec-10               | 1,147,364 | 91 | 83 | 82 | 78 | 74 | 74 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75 | 75  | 75  | 75  | 75  | 75  | 75  | 75  | 75  | 75  | 75  | 75  | 75  | 75  | 75  |
| Jun-11               | 1,128,484 | 42 | 37 | 35 | 35 | 34 | 34 | 34 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32 | 32  | 32  | 32  | 32  | 32  | 32  | 32  | 32  | 32  | 32  | 32  | 32  | 32  | 32  |
| Dec-11               | 1,178,585 | 66 | 68 | 64 | 61 | 57 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58  | 58  | 58  | 58  | 58  | 58  | 58  | 58  | 58  | 58  | 58  | 58  | 58  | 58  |
| Jun-12               | 1,172,586 | 60 | 72 | 71 | 67 | 66 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65 | 65  | 65  | 65  | 65  | 65  | 65  | 65  | 65  | 65  | 65  | 65  | 65  | 65  | 65  |
| Dec-12               | 1,225,515 | 60 | 62 | 57 | 61 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | 58  | 58  | 58  | 58  | 58  | 58  | 58  | 58  | 58  | 58  | 58  | 58  | 58  | 58  |
| Jun-13               | 1,216,308 | 46 | 46 | 43 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42 | 42  | 42  | 42  | 42  | 42  | 42  | 42  | 42  | 42  | 42  | 42  | 42  | 42  | 42  |
| Dec-13               | 1,275,674 | 69 | 63 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | 55  | 55  | 55  | 55  | 55  | 55  | 55  | 55  | 55  | 55  | 55  | 55  | 55  | 55  |
| Jun-14               | 1,262,385 | 55 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | 52  | 52  | 52  | 52  | 52  | 52  | 52  | 52  | 52  | 52  | 52  | 52  | 52  | 52  |
| Dec-14               | 1,285,703 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  |









Province of Alberta  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)  
AB Funeral  
Reported Counts  
Data as of 12/31/14

| Accident Semester | Car-Years | 6   | 12  | 18  | 24  | 30  | 36  | 42  | 48  | 54  | 60  | 66  | 72  | 78  | 84  | 90  | 96  | 102 | 108 | 114 | 120 | 126 | 132 | 138 | 144 | 150 | 156 | 162 | 168 | 174 | 180 |
|-------------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | (1)       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Jun-00            | 780,439   | 70  | 80  | 80  | 80  | 80  | 80  | 79  | 78  | 78  | 77  | 77  | 76  | 76  | 76  | 76  | 76  | 76  | 76  | 76  | 76  | 76  | 76  | 76  | 76  | 76  | 76  | 76  | 76  | 76  | 76  |
| Dec-00            | 807,484   | 117 | 130 | 124 | 123 | 120 | 118 | 115 | 115 | 115 | 116 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 76  |
| Jun-01            | 812,444   | 88  | 99  | 96  | 97  | 96  | 96  | 95  | 95  | 95  | 94  | 94  | 94  | 94  | 94  | 94  | 94  | 94  | 94  | 94  | 94  | 94  | 94  | 94  | 94  | 94  | 94  | 94  | 94  | 94  |     |
| Dec-01            | 844,102   | 102 | 105 | 102 | 101 | 100 | 97  | 95  | 94  | 93  | 94  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  |     |
| Jun-02            | 832,380   | 89  | 87  | 83  | 80  | 80  | 82  | 82  | 82  | 82  | 80  | 80  | 80  | 80  | 80  | 80  | 80  | 80  | 80  | 80  | 80  | 80  | 80  | 80  | 80  | 80  | 80  | 80  | 80  | 80  |     |
| Dec-02            | 869,521   | 97  | 96  | 91  | 91  | 88  | 87  | 87  | 87  | 85  | 85  | 85  | 85  | 85  | 85  | 85  | 85  | 85  | 86  | 85  | 85  | 85  | 85  | 85  | 85  | 85  | 85  | 85  | 85  | 85  |     |
| Jun-03            | 853,159   | 70  | 69  | 67  | 66  | 62  | 61  | 61  | 62  | 62  | 61  | 61  | 61  | 61  | 61  | 61  | 60  | 60  | 60  | 60  | 60  | 60  | 60  | 60  | 60  | 60  | 60  | 60  | 60  | 60  |     |
| Dec-03            | 875,870   | 128 | 135 | 136 | 133 | 131 | 131 | 129 | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 127 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 |     |
| Jun-04            | 864,302   | 77  | 84  | 82  | 81  | 80  | 80  | 79  | 78  | 78  | 78  | 78  | 78  | 78  | 78  | 78  | 78  | 78  | 78  | 78  | 78  | 78  | 78  | 78  | 78  | 78  | 78  | 78  | 78  | 78  |     |
| Dec-04            | 893,637   | 105 | 117 | 115 | 116 | 116 | 115 | 116 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 | 115 |     |
| Jun-05            | 888,577   | 106 | 103 | 101 | 101 | 99  | 100 | 96  | 96  | 95  | 95  | 95  | 95  | 95  | 95  | 95  | 95  | 95  | 95  | 95  | 95  | 95  | 95  | 95  | 95  | 95  | 95  | 95  | 95  | 95  |     |
| Dec-05            | 941,651   | 122 | 137 | 130 | 126 | 126 | 129 | 130 | 130 | 129 | 129 | 129 | 129 | 129 | 129 | 129 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 | 128 |     |
| Jun-06            | 945,398   | 118 | 115 | 117 | 119 | 112 | 112 | 112 | 112 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 |     |
| Dec-06            | 1,000,815 | 134 | 132 | 128 | 123 | 120 | 120 | 120 | 120 | 120 | 120 | 119 | 118 | 117 | 117 | 117 | 117 | 117 | 117 | 117 | 117 | 117 | 117 | 117 | 117 | 117 | 117 | 117 | 117 | 117 |     |
| Jun-07            | 1,001,483 | 96  | 108 | 98  | 95  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  |     |
| Dec-07            | 1,056,479 | 128 | 136 | 126 | 128 | 131 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 | 130 |     |
| Jun-08            | 1,053,269 | 92  | 99  | 100 | 98  | 98  | 98  | 98  | 98  | 98  | 98  | 98  | 98  | 98  | 98  | 98  | 98  | 98  | 98  | 98  | 98  | 98  | 98  | 98  | 98  | 98  | 98  | 98  | 98  | 98  |     |
| Dec-08            | 1,096,119 | 130 | 132 | 129 | 127 | 126 | 124 | 122 | 123 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 | 122 |     |
| Jun-09            | 1,080,603 | 82  | 92  | 81  | 84  | 82  | 83  | 84  | 83  | 83  | 83  | 83  | 83  | 81  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Dec-09            | 1,119,820 | 120 | 107 | 101 | 99  | 100 | 100 | 99  | 99  | 99  | 99  | 97  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Jun-10            | 1,100,479 | 78  | 80  | 79  | 77  | 77  | 74  | 74  | 75  | 74  | 74  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Dec-10            | 1,147,364 | 126 | 128 | 123 | 121 | 117 | 118 | 119 | 119 | 118 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Jun-11            | 1,128,484 | 65  | 64  | 62  | 61  | 60  | 59  | 59  | 59  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Dec-11            | 1,178,585 | 103 | 111 | 110 | 102 | 100 | 101 | 101 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Jun-12            | 1,172,586 | 90  | 96  | 96  | 94  | 92  | 90  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Dec-12            | 1,225,515 | 101 | 100 | 98  | 102 | 104 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Jun-13            | 1,216,308 | 79  | 78  | 76  | 71  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Dec-13            | 1,275,674 | 112 | 110 | 104 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Jun-14            | 1,262,385 | 87  | 82  |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Dec-14            | 1,285,703 | 107 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |



Province of Alberta  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)  
AB Funeral  
Incurred Losses  
Data as of 12/31/14  
Losses in \$ 000s

| Accident Semester | Car-Years | 6   | 12  | 18  | 24  | 30  | 36  | 42  | 48  | 54  | 60  | 66  | 72  | 78  | 84  | 90  | 96  | 102 | 108 | 114 | 120 | 126 | 132 | 138 | 144 | 150 | 156 | 162 | 168 | 174 | 180 |
|-------------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | (1)       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Jun-00            | 780,439   | 212 | 207 | 201 | 204 | 204 | 202 | 198 | 196 | 196 | 191 | 191 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 | 187 |
| Dec-00            | 807,484   | 280 | 336 | 327 | 324 | 317 | 308 | 322 | 321 | 321 | 331 | 321 | 321 | 321 | 321 | 321 | 321 | 321 | 321 | 321 | 321 | 321 | 321 | 321 | 321 | 321 | 321 | 321 | 321 | 321 | 321 |
| Jun-01            | 812,444   | 234 | 275 | 278 | 285 | 268 | 267 | 265 | 264 | 264 | 262 | 262 | 262 | 262 | 262 | 262 | 262 | 262 | 262 | 262 | 262 | 262 | 262 | 262 | 262 | 262 | 262 | 262 | 262 | 262 | 262 |
| Dec-01            | 844,102   | 259 | 298 | 287 | 292 | 284 | 291 | 287 | 285 | 281 | 270 | 268 | 268 | 268 | 268 | 268 | 268 | 268 | 268 | 268 | 268 | 268 | 268 | 268 | 268 | 268 | 268 | 268 | 268 | 268 | 268 |
| Jun-02            | 832,380   | 211 | 238 | 240 | 235 | 235 | 234 | 235 | 235 | 232 | 229 | 229 | 229 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 | 228 |
| Dec-02            | 869,521   | 260 | 287 | 271 | 271 | 259 | 255 | 254 | 254 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 250 | 249 | 259 | 249 | 249 | 249 | 249 | 249 | 249 | 249 | 249 | 249 | 249 | 249 | 249 |
| Jun-03            | 853,159   | 217 | 237 | 236 | 225 | 216 | 210 | 210 | 213 | 213 | 206 | 205 | 205 | 205 | 205 | 203 | 203 | 203 | 203 | 203 | 203 | 203 | 203 | 203 | 203 | 203 | 203 | 203 | 203 | 203 | 203 |
| Dec-03            | 875,870   | 316 | 324 | 343 | 332 | 319 | 319 | 313 | 309 | 309 | 309 | 309 | 309 | 309 | 309 | 309 | 309 | 309 | 563 | 563 | 563 | 563 | 563 | 563 | 563 | 203 |     |     |     |     |     |
| Jun-04            | 864,302   | 193 | 197 | 194 | 207 | 205 | 205 | 203 | 201 | 201 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 | 207 |
| Dec-04            | 893,637   | 263 | 278 | 273 | 274 | 274 | 272 | 276 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 | 272 |
| Jun-05            | 888,577   | 245 | 289 | 321 | 275 | 271 | 279 | 264 | 264 | 261 | 261 | 261 | 261 | 261 | 261 | 261 | 261 | 261 | 261 | 261 | 261 | 261 | 261 | 261 | 261 | 261 | 261 | 261 | 261 | 261 | 261 |
| Dec-05            | 941,651   | 316 | 370 | 360 | 351 | 369 | 376 | 385 | 383 | 381 | 381 | 381 | 358 | 358 | 358 | 358 | 353 | 353 | 353 | 353 | 353 | 353 | 353 | 353 | 353 | 353 | 353 | 353 | 353 | 353 | 353 |
| Jun-06            | 945,398   | 278 | 264 | 260 | 285 | 273 | 273 | 273 | 273 | 251 | 251 | 251 | 251 | 251 | 251 | 251 | 251 | 251 | 251 | 251 | 251 | 251 | 251 | 251 | 251 | 251 | 251 | 251 | 251 | 251 | 251 |
| Dec-06            | 1,000,815 | 349 | 354 | 357 | 358 | 344 | 329 | 331 | 331 | 331 | 331 | 329 | 327 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 | 288 |
| Jun-07            | 1,001,483 | 370 | 429 | 418 | 406 | 399 | 399 | 399 | 399 | 399 | 399 | 399 | 399 | 399 | 399 | 399 | 399 | 399 | 399 | 399 | 399 | 399 | 399 | 399 | 399 | 399 | 399 | 399 | 399 | 399 | 399 |
| Dec-07            | 1,056,479 | 653 | 693 | 661 | 658 | 674 | 641 | 641 | 641 | 641 | 641 | 641 | 641 | 641 | 641 | 641 | 641 | 641 | 641 | 641 | 641 | 641 | 641 | 641 | 641 | 641 | 641 | 641 | 641 | 641 | 641 |
| Jun-08            | 1,053,269 | 440 | 483 | 485 | 475 | 476 | 473 | 473 | 473 | 468 | 468 | 468 | 468 | 468 | 468 | 468 | 468 | 468 | 468 | 468 | 468 | 468 | 468 | 468 | 468 | 468 | 468 | 468 | 468 | 468 | 468 |
| Dec-08            | 1,098,119 | 720 | 748 | 740 | 729 | 711 | 748 | 739 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 | 738 |
| Jun-09            | 1,080,603 | 403 | 502 | 458 | 498 | 491 | 496 | 501 | 496 | 496 | 496 | 496 | 484 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Dec-09            | 1,119,820 | 613 | 658 | 628 | 619 | 631 | 581 | 571 | 571 | 571 | 571 | 571 | 561 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Jun-10            | 1,100,479 | 392 | 429 | 426 | 418 | 413 | 402 | 402 | 412 | 402 | 402 | 402 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Dec-10            | 1,147,364 | 722 | 767 | 735 | 751 | 715 | 696 | 701 | 701 | 696 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Jun-11            | 1,128,484 | 324 | 330 | 320 | 323 | 313 | 308 | 308 | 308 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Dec-11            | 1,178,585 | 524 | 624 | 630 | 562 | 540 | 541 | 541 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Jun-12            | 1,172,586 | 512 | 585 | 589 | 578 | 562 | 532 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Dec-12            | 1,225,515 | 506 | 546 | 537 | 563 | 570 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Jun-13            | 1,216,308 | 383 | 424 | 406 | 383 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Dec-13            | 1,275,674 | 554 | 598 | 565 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Jun-14            | 1,262,385 | 411 | 409 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Dec-14            | 1,285,703 | 487 |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |





















Province of Alberta  
Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)  
Specified Perils  
Reported Counts  
Data as of 12/31/14

| Accident Semester | Car-Years | 6   | 12  | 18  | 24  | 30  | 36  | 42  | 48  | 54  | 60  | 66  | 72  | 78  | 84  | 90  | 96  | 102 | 108 | 114 | 120 | 126 | 132 | 138 | 144 | 150 | 156 | 162 | 168 | 174 | 180 |
|-------------------|-----------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|
|                   | (1)       |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| Jun-00            | 21,711    | 199 | 182 | 182 | 181 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 | 182 |
| Dec-00            | 20,521    | 313 | 312 | 311 | 311 | 311 | 311 | 311 | 311 | 311 | 311 | 311 | 311 | 311 | 311 | 311 | 311 | 311 | 311 | 311 | 311 | 311 | 311 | 311 | 311 | 311 | 311 | 311 | 311 | 311 | 311 |
| Jun-01            | 19,513    | 187 | 177 | 175 | 176 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 | 175 |
| Dec-01            | 17,834    | 235 | 232 | 234 | 233 | 233 | 233 | 233 | 233 | 233 | 233 | 233 | 233 | 233 | 233 | 233 | 233 | 233 | 233 | 233 | 233 | 233 | 233 | 233 | 233 | 233 | 233 | 233 | 233 | 233 | 233 |
| Jun-02            | 17,164    | 148 | 134 | 131 | 133 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 | 134 |
| Dec-02            | 16,307    | 150 | 147 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 146 |
| Jun-03            | 15,427    | 130 | 124 | 122 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 | 123 |
| Dec-03            | 14,869    | 148 | 146 | 146 | 146 | 146 | 146 | 146 | 146 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 | 145 |
| Jun-04            | 14,258    | 113 | 113 | 110 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 | 111 |
| Dec-04            | 15,389    | 124 | 117 | 120 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 | 119 |
| Jun-05            | 14,848    | 105 | 109 | 108 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 | 110 |
| Dec-05            | 12,705    | 105 | 102 | 102 | 102 | 102 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 | 103 |
| Jun-06            | 11,792    | 96  | 95  | 96  | 95  | 96  | 96  | 96  | 96  | 96  | 96  | 96  | 96  | 96  | 96  | 96  | 96  | 96  | 96  | 96  | 96  | 96  | 96  | 96  | 96  | 96  | 96  | 96  | 96  | 96  | 96  |
| Dec-06            | 11,496    | 144 | 145 | 140 | 139 | 139 | 139 | 139 | 139 | 139 | 139 | 139 | 139 | 139 | 139 | 139 | 139 | 139 | 139 | 139 | 139 | 139 | 139 | 139 | 139 | 139 | 139 | 139 | 139 | 139 | 139 |
| Jun-07            | 11,142    | 95  | 104 | 104 | 104 | 103 | 103 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 | 104 |
| Dec-07            | 11,091    | 117 | 110 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 | 109 |
| Jun-08            | 10,398    | 64  | 63  | 59  | 59  | 59  | 59  | 59  | 59  | 59  | 59  | 59  | 59  | 59  | 59  | 59  | 59  | 59  | 59  | 59  | 59  | 59  | 59  | 59  | 59  | 59  | 59  | 59  | 59  | 59  | 59  |
| Dec-08            | 9,620     | 68  | 70  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  | 71  |
| Jun-09            | 9,642     | 43  | 37  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  | 35  |
| Dec-09            | 9,737     | 100 | 96  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  | 93  |
| Jun-10            | 9,750     | 40  | 35  | 36  | 36  | 36  | 36  | 36  | 36  | 36  | 36  | 36  | 36  | 36  | 36  | 36  | 36  | 36  | 36  | 36  | 36  | 36  | 36  | 36  | 36  | 36  | 36  | 36  | 36  | 36  | 36  |
| Dec-10            | 9,692     | 130 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 | 132 |
| Jun-11            | 9,665     | 49  | 48  | 48  | 47  | 47  | 46  | 47  | 47  | 47  | 47  | 47  | 47  | 47  | 47  | 47  | 47  | 47  | 47  | 47  | 47  | 47  | 47  | 47  | 47  | 47  | 47  | 47  | 47  | 47  | 47  |
| Dec-11            | 9,484     | 84  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  | 83  |
| Jun-12            | 9,509     | 39  | 34  | 34  | 34  | 34  | 34  | 34  | 34  | 34  | 34  | 34  | 34  | 34  | 34  | 34  | 34  | 34  | 34  | 34  | 34  | 34  | 34  | 34  | 34  | 34  | 34  | 34  | 34  | 34  | 34  |
| Dec-12            | 9,301     | 165 | 171 | 170 | 169 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 | 170 |
| Jun-13            | 9,335     | 48  | 58  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  | 61  |
| Dec-13            | 9,035     | 86  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  | 81  |
| Jun-14            | 9,058     | 43  | 41  | 41  | 41  | 41  | 41  | 41  | 41  | 41  | 41  | 41  | 41  | 41  | 41  | 41  | 41  | 41  | 41  | 41  | 41  | 41  | 41  | 41  | 41  | 41  | 41  | 41  | 41  | 41  | 41  |
| Dec-14            | 8,821     | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 | 124 |



















Province of Alberta  
Alberta Automobile Insurance Rate Board  
2015 Private Passenger Industry-Wide Review

**TPL BI**

| Accident<br>Half Year  | Paid Losses and Allocated Loss Adjustment Expenses - Data as of 12/31/2014 (Losses in \$ 000s) |         |         |         |         |         |         |                      |         |         |         |         |         |         | Selected<br>Ultimate |
|------------------------|------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|----------------------|---------|---------|---------|---------|---------|---------|----------------------|
|                        | 102                                                                                            | 108     | 114     | 120     | 126     | 132     | 138     | 144                  | 150     | 156     | 162     | 168     | 174     | 180     |                      |
| 2000-1                 | 254,774                                                                                        | 256,566 | 257,129 | 259,039 | 260,910 | 261,235 | 262,369 | 262,655              | 262,659 | 262,943 | 263,174 | 264,191 | 264,204 | 264,208 | 264,515              |
| 2000-2                 | 289,474                                                                                        | 292,688 | 296,270 | 297,879 | 298,435 | 298,726 | 298,831 | 299,653              | 300,276 | 300,574 | 300,774 | 300,764 | 300,780 |         | 300,780              |
| 2001-1                 | 264,183                                                                                        | 267,830 | 271,153 | 273,993 | 275,020 | 275,380 | 275,535 | 275,626              | 275,716 | 276,207 | 277,023 | 277,086 |         |         | 277,614              |
| 2001-2                 | 312,876                                                                                        | 315,726 | 317,090 | 319,741 | 321,386 | 322,184 | 322,809 | 323,170              | 324,246 | 325,354 | 325,391 |         |         |         | 326,097              |
| 2002-1                 | 289,567                                                                                        | 293,367 | 295,153 | 297,247 | 298,963 | 299,348 | 300,068 | 300,202              | 301,002 | 301,304 |         |         |         |         | 303,494              |
| 2002-2                 | 318,125                                                                                        | 321,838 | 324,549 | 327,076 | 329,199 | 329,972 | 331,444 | 331,593              | 331,930 |         |         |         |         |         | 332,249              |
| 2003-1                 | 266,812                                                                                        | 270,535 | 271,778 | 273,154 | 275,545 | 277,542 | 279,895 | 280,831              |         |         |         |         |         |         | 283,875              |
| 2003-2                 | 275,662                                                                                        | 279,934 | 283,346 | 284,965 | 288,113 | 288,646 | 290,170 |                      |         |         |         |         |         |         | 291,899              |
| 2004-1                 | 228,255                                                                                        | 231,496 | 234,280 | 238,687 | 239,748 | 240,478 |         |                      |         |         |         |         |         |         | 244,815              |
| 2004-2                 | 219,341                                                                                        | 223,306 | 225,366 | 227,517 | 228,952 |         |         |                      |         |         |         |         |         |         | 232,423              |
| 2005-1                 | 172,392                                                                                        | 177,120 | 179,198 | 180,744 |         |         |         |                      |         |         |         |         |         |         | 187,570              |
| 2005-2                 | 198,749                                                                                        | 201,455 | 205,579 |         |         |         |         |                      |         |         |         |         |         |         | 217,398              |
| 2006-1                 | 175,938                                                                                        | 177,904 |         |         |         |         |         |                      |         |         |         |         |         |         | 192,890              |
| 2006-2                 | 220,755                                                                                        |         |         |         |         |         |         |                      |         |         |         |         |         |         | 245,438              |
| 2007-1                 |                                                                                                |         |         |         |         |         |         |                      |         |         |         |         |         |         | 198,218              |
| 2007-2                 |                                                                                                |         |         |         |         |         |         |                      |         |         |         |         |         |         | 255,298              |
| 2008-1                 |                                                                                                |         |         |         |         |         |         |                      |         |         |         |         |         |         | 231,657              |
| 2008-2                 |                                                                                                |         |         |         |         |         |         |                      |         |         |         |         |         |         | 265,953              |
| 2009-1                 |                                                                                                |         |         |         |         |         |         |                      |         |         |         |         |         |         | 215,667              |
| 2009-2                 |                                                                                                |         |         |         |         |         |         |                      |         |         |         |         |         |         | 269,283              |
| 2010-1                 |                                                                                                |         |         |         |         |         |         |                      |         |         |         |         |         |         | 199,750              |
| 2010-2                 |                                                                                                |         |         |         |         |         |         |                      |         |         |         |         |         |         | 282,106              |
| 2011-1                 |                                                                                                |         |         |         |         |         |         |                      |         |         |         |         |         |         | 227,060              |
| 2011-2                 |                                                                                                |         |         |         |         |         |         |                      |         |         |         |         |         |         | 303,111              |
| 2012-1                 |                                                                                                |         |         |         |         |         |         |                      |         |         |         |         |         |         | 285,808              |
| 2012-2                 |                                                                                                |         |         |         |         |         |         |                      |         |         |         |         |         |         | 336,301              |
| 2013-1                 |                                                                                                |         |         |         |         |         |         |                      |         |         |         |         |         |         | 283,768              |
| 2013-2                 |                                                                                                |         |         |         |         |         |         |                      |         |         |         |         |         |         | 371,722              |
| 2014-1                 |                                                                                                |         |         |         |         |         |         |                      |         |         |         |         |         |         | 312,664              |
| 2014-2                 |                                                                                                |         |         |         |         |         |         |                      |         |         |         |         |         |         | 408,590              |
| Accident<br>Year       | Portion of Ultimate Losses Paid by Month of Development                                        |         |         |         |         |         |         | Selected<br>Ultimate |         |         |         |         |         |         |                      |
|                        | 108                                                                                            | 120     | 132     | 144     | 156     | 168     | 180     |                      |         |         |         |         |         |         |                      |
| 2000                   | 96.59%                                                                                         | 98.23%  | 99.00%  | 99.33%  | 99.63%  | 99.94%  | 99.95%  | 565,295              |         |         |         |         |         |         |                      |
| 2001                   | 96.19%                                                                                         | 97.91%  | 98.85%  | 99.13%  | 99.46%  | 99.80%  |         | 603,711              |         |         |         |         |         |         |                      |
| 2002                   | 96.19%                                                                                         | 97.81%  | 98.87%  | 99.36%  | 99.61%  |         |         | 635,743              |         |         |         |         |         |         |                      |
| 2003                   | 94.86%                                                                                         | 96.65%  | 98.24%  | 99.17%  |         |         |         | 575,774              |         |         |         |         |         |         |                      |
| 2004                   | 94.47%                                                                                         | 97.24%  | 98.36%  |         |         |         |         | 477,238              |         |         |         |         |         |         |                      |
| 2005                   | 92.81%                                                                                         | 95.40%  |         |         |         |         |         | 404,968              |         |         |         |         |         |         |                      |
| 2006                   | 90.95%                                                                                         |         |         |         |         |         |         | 438,329              |         |         |         |         |         |         |                      |
| 2007                   |                                                                                                |         |         |         |         |         |         | 453,516              |         |         |         |         |         |         |                      |
| 2008                   |                                                                                                |         |         |         |         |         |         | 497,610              |         |         |         |         |         |         |                      |
| 2009                   |                                                                                                |         |         |         |         |         |         | 484,950              |         |         |         |         |         |         |                      |
| 2010                   |                                                                                                |         |         |         |         |         |         | 481,856              |         |         |         |         |         |         |                      |
| 2011                   |                                                                                                |         |         |         |         |         |         | 530,171              |         |         |         |         |         |         |                      |
| 2012                   |                                                                                                |         |         |         |         |         |         | 622,109              |         |         |         |         |         |         |                      |
| 2013                   |                                                                                                |         |         |         |         |         |         | 655,491              |         |         |         |         |         |         |                      |
| 2014                   |                                                                                                |         |         |         |         |         |         | 721,254              |         |         |         |         |         |         |                      |
| Cumulative Paid Losses |                                                                                                |         |         |         |         |         |         |                      |         |         |         |         |         |         |                      |
| Arithmetic Averages    | 108                                                                                            | 120     | 132     | 144     | 156     | 168     | 180     | Ultimate             |         |         |         |         |         |         |                      |
| All Years              | 94.58%                                                                                         | 97.21%  | 98.67%  | 99.24%  | 99.57%  | 99.87%  | 99.95%  | 100.00%              |         |         |         |         |         |         |                      |
| 10 Year                |                                                                                                |         |         |         |         |         |         |                      |         |         |         |         |         |         |                      |
| 8 Year                 |                                                                                                |         |         |         |         |         |         |                      |         |         |         |         |         |         |                      |
| 6 Year                 | 94.25%                                                                                         | 97.21%  |         |         |         |         |         |                      |         |         |         |         |         |         |                      |
| 4 Year                 | 93.27%                                                                                         | 96.77%  | 98.58%  | 99.24%  |         |         |         |                      |         |         |         |         |         |         |                      |
| 3 Year                 | 92.74%                                                                                         | 96.43%  | 98.49%  | 99.22%  | 99.57%  |         |         |                      |         |         |         |         |         |         |                      |
| All Year ex hi/lo      | 94.90%                                                                                         | 97.40%  | 98.69%  | 99.25%  | 99.61%  |         |         |                      |         |         |         |         |         |         |                      |
| 6 Year ex hi/lo        | 94.58%                                                                                         | 97.40%  |         |         |         |         |         |                      |         |         |         |         |         |         |                      |
| \$ Weighted Averages   |                                                                                                |         |         |         |         |         |         |                      |         |         |         |         |         |         |                      |
| All Years              | 94.83%                                                                                         | 97.31%  | 98.68%  | 99.25%  | 99.57%  | 99.87%  | 99.95%  | 100.00%              |         |         |         |         |         |         |                      |
| 10 Year                |                                                                                                |         |         |         |         |         |         |                      |         |         |         |         |         |         |                      |
| 8 Year                 |                                                                                                |         |         |         |         |         |         |                      |         |         |         |         |         |         |                      |
| 6 Year                 | 94.51%                                                                                         | 97.31%  |         |         |         |         |         |                      |         |         |         |         |         |         |                      |
| 4 Year                 | 93.42%                                                                                         | 96.89%  | 98.60%  | 99.25%  |         |         |         |                      |         |         |         |         |         |         |                      |
| 3 Year                 | 92.79%                                                                                         | 96.49%  | 98.51%  | 99.22%  | 99.57%  |         |         |                      |         |         |         |         |         |         |                      |
| Selected Pay Pattern   | 92.79%                                                                                         | 96.49%  | 98.51%  | 99.22%  | 99.57%  | 99.87%  | 100.00% | 100.00%              |         |         |         |         |         |         |                      |
| Incremental            | 5.59%                                                                                          | 3.70%   | 2.02%   | 0.71%   | 0.34%   | 0.30%   | 0.13%   | 0.00%                |         |         |         |         |         |         |                      |





Province of Alberta  
Alberta Automobile Insurance Rate Board  
2015 Private Passenger Industry-Wide Review

**TPL PD**

| Accident<br>Half Year  | Paid Losses and Allocated Loss Adjustment Expenses - Data as of 12/31/2014 (Losses in \$ 000s) |         |         |         |         |         |         |          |         |        |         |        |         |        | Selected<br>Ultimate |         |
|------------------------|------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|----------|---------|--------|---------|--------|---------|--------|----------------------|---------|
|                        | 102                                                                                            | 108     | 114     | 120     | 126     | 132     | 138     | 144      | 150     | 156    | 162     | 168    | 174     | 180    |                      |         |
| 2000-1                 | 66,264                                                                                         | 66,264  | 66,264  | 66,264  | 66,263  | 66,262  | 66,262  | 66,261   | 66,261  | 66,260 | 66,259  | 66,259 | 66,258  | 66,258 | 66,258               |         |
| 2000-2                 | 75,028                                                                                         | 75,040  | 75,040  | 75,039  | 75,038  | 75,030  | 75,030  | 75,030   | 75,030  | 75,030 | 75,030  | 75,030 | 75,030  | 75,030 | 75,034               |         |
| 2001-1                 | 66,251                                                                                         | 66,253  | 66,252  | 66,292  | 66,306  | 66,306  | 66,306  | 66,305   | 66,305  | 66,305 | 66,305  | 66,305 | 66,305  |        | 66,306               |         |
| 2001-2                 | 80,187                                                                                         | 80,187  | 80,183  | 80,183  | 80,183  | 80,183  | 80,183  | 80,182   | 80,356  | 80,356 | 80,355  | 80,355 |         |        | 80,355               |         |
| 2002-1                 | 83,294                                                                                         | 83,290  | 83,288  | 83,286  | 83,285  | 83,282  | 83,282  | 83,282   | 83,281  | 83,281 |         |        |         |        | 83,281               |         |
| 2002-2                 | 84,790                                                                                         | 84,789  | 84,788  | 84,791  | 84,789  | 84,787  | 84,785  | 84,785   | 84,784  |        |         |        |         |        | 84,784               |         |
| 2003-1                 | 79,821                                                                                         | 79,820  | 79,820  | 79,820  | 79,821  | 79,821  | 79,821  | 79,822   |         |        |         |        |         |        | 79,854               |         |
| 2003-2                 | 78,121                                                                                         | 78,124  | 78,120  | 78,120  | 78,217  | 78,214  | 78,211  |          |         |        |         |        |         |        | 78,214               |         |
| 2004-1                 | 73,235                                                                                         | 73,235  | 73,253  | 73,253  | 73,253  | 73,243  |         |          |         |        |         |        |         |        | 73,268               |         |
| 2004-2                 | 84,646                                                                                         | 84,644  | 84,643  | 84,643  | 84,645  |         |         |          |         |        |         |        |         |        | 84,696               |         |
| 2005-1                 | 83,046                                                                                         | 83,060  | 83,061  | 83,062  |         |         |         |          |         |        |         |        |         |        | 83,069               |         |
| 2005-2                 | 99,570                                                                                         | 99,573  | 99,577  |         |         |         |         |          |         |        |         |        |         |        | 99,843               |         |
| 2006-1                 | 98,201                                                                                         | 98,200  |         |         |         |         |         |          |         |        |         |        |         |        | 98,228               |         |
| 2006-2                 | 130,434                                                                                        |         |         |         |         |         |         |          |         |        |         |        |         |        | 130,588              |         |
| 2007-1                 |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        | 126,473              |         |
| 2007-2                 |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        | 150,377              |         |
| 2008-1                 |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        | 141,056              |         |
| 2008-2                 |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        | 156,723              |         |
| 2009-1                 |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        | 140,766              |         |
| 2009-2                 |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        | 159,050              |         |
| 2010-1                 |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        | 132,666              |         |
| 2010-2                 |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        | 162,859              |         |
| 2011-1                 |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        | 163,659              |         |
| 2011-2                 |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        | 159,858              |         |
| 2012-1                 |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        | 150,352              |         |
| 2012-2                 |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        | 190,464              |         |
| 2013-1                 |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        | 167,403              |         |
| 2013-2                 |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        | 202,509              |         |
| 2014-1                 |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        | 179,838              |         |
| 2014-2                 |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        | 201,632              |         |
| Accident<br>Year       | Portion of Ultimate Losses Paid by Month of Development                                        |         |         |         |         |         |         |          |         |        |         |        |         |        | Selected<br>Ultimate |         |
|                        | 108                                                                                            | 120     | 132     | 144     | 156     | 168     | 180     |          |         |        |         |        |         |        |                      |         |
| 2000                   | 100.00%                                                                                        | 100.01% | 100.01% | 100.00% | 100.00% | 100.00% | 100.00% |          |         |        |         |        |         |        |                      | 141,292 |
| 2001                   | 99.85%                                                                                         | 99.87%  | 99.88%  | 99.88%  | 100.00% | 100.00% |         |          |         |        |         |        |         |        |                      | 146,661 |
| 2002                   | 100.01%                                                                                        | 100.01% | 100.00% | 100.00% | 100.00% |         |         |          |         |        |         |        |         |        |                      | 168,065 |
| 2003                   | 99.92%                                                                                         | 99.92%  | 99.98%  | 99.98%  |         |         |         |          |         |        |         |        |         |        |                      | 158,068 |
| 2004                   | 99.95%                                                                                         | 99.96%  | 99.95%  |         |         |         |         |          |         |        |         |        |         |        |                      | 157,963 |
| 2005                   | 99.85%                                                                                         | 99.85%  |         |         |         |         |         |          |         |        |         |        |         |        |                      | 182,912 |
| 2006                   | 99.92%                                                                                         |         |         |         |         |         |         |          |         |        |         |        |         |        |                      | 228,816 |
| 2007                   |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        |                      | 276,850 |
| 2008                   |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        |                      | 297,779 |
| 2009                   |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        |                      | 299,816 |
| 2010                   |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        |                      | 295,525 |
| 2011                   |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        |                      | 323,518 |
| 2012                   |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        |                      | 340,816 |
| 2013                   |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        |                      | 369,912 |
| 2014                   |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        |                      | 381,470 |
| Cumulative Paid Losses |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        |                      |         |
| Arithmetic Averages    | 108                                                                                            | 120     | 132     | 144     | 156     | 168     | 180     | Ultimate |         |        |         |        |         |        |                      |         |
| All Years              | 99.93%                                                                                         | 99.94%  | 99.97%  | 99.97%  | 100.00% | 100.00% | 100.00% | 100.00%  |         |        |         |        |         |        |                      |         |
| 10 Year                |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        |                      |         |
| 8 Year                 |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        |                      |         |
| 6 Year                 | 99.92%                                                                                         | 99.94%  |         |         |         |         |         |          |         |        |         |        |         |        |                      |         |
| 4 Year                 | 99.91%                                                                                         | 99.93%  | 99.95%  | 99.97%  |         |         |         |          |         |        |         |        |         |        |                      |         |
| 3 Year                 | 99.90%                                                                                         | 99.91%  | 99.98%  | 99.95%  | 100.00% |         |         |          |         |        |         |        |         |        |                      |         |
| All Year ex hi/lo      | 99.93%                                                                                         | 99.94%  | 99.98%  | 99.99%  | 100.00% |         |         |          |         |        |         |        |         |        |                      |         |
| 6 Year ex hi/lo        | 99.91%                                                                                         | 99.94%  |         |         |         |         |         |          |         |        |         |        |         |        |                      |         |
| \$ Weighted Averages   |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        |                      |         |
| All Years              | 99.93%                                                                                         | 99.93%  | 99.97%  | 99.97%  | 100.00% | 100.00% | 100.00% | 100.00%  |         |        |         |        |         |        |                      |         |
| 10 Year                |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        |                      |         |
| 8 Year                 |                                                                                                |         |         |         |         |         |         |          |         |        |         |        |         |        |                      |         |
| 6 Year                 | 99.92%                                                                                         | 99.93%  |         |         |         |         |         |          |         |        |         |        |         |        |                      |         |
| 4 Year                 | 99.91%                                                                                         | 99.93%  | 99.96%  | 99.97%  |         |         |         |          |         |        |         |        |         |        |                      |         |
| 3 Year                 | 99.90%                                                                                         | 99.91%  | 99.98%  | 99.96%  | 100.00% |         |         |          |         |        |         |        |         |        |                      |         |
| Selected Pay Pattern   | 99.90%                                                                                         |         | 99.91%  |         | 99.98%  |         | 99.96%  |          | 100.00% |        | 100.00% |        | 100.00% |        | 100.00%              |         |
| Incremental            | 0.00%                                                                                          | 0.00%   | 0.07%   | -0.02%  | 0.04%   | 0.00%   | 0.00%   | 0.00%    | 0.00%   | 0.00%  | 0.00%   | 0.00%  | 0.00%   | 0.00%  | 0.00%                |         |

Province of Alberta  
Alberta Automobile Insurance Rate Board  
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**AB All Med Exp**

| Accident<br>Half Year | Paid Losses and Allocated Loss Adjustment Expenses - Data as of 12/31/2014 (Losses in \$ 000's) |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------------|-------------------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                       | 6                                                                                               | 12     | 18     | 24     | 30     | 36     | 42     | 48     | 54     | 60     | 66     | 72     | 78     | 84     | 90     | 96     |
| 2000-1                | 3,521                                                                                           | 10,148 | 13,485 | 15,076 | 15,950 | 16,128 | 16,216 | 16,295 | 16,430 | 16,460 | 16,499 | 16,523 | 16,543 | 16,567 | 16,589 | 16,655 |
| 2000-2                | 3,092                                                                                           | 11,534 | 15,500 | 17,505 | 18,670 | 18,935 | 19,006 | 19,073 | 19,156 | 19,217 | 19,257 | 19,358 | 19,412 | 19,421 | 19,535 | 19,545 |
| 2001-1                | 3,136                                                                                           | 10,345 | 14,136 | 16,069 | 17,019 | 17,286 | 17,341 | 17,399 | 17,471 | 17,526 | 17,576 | 17,607 | 17,608 | 17,619 | 17,622 | 17,623 |
| 2001-2                | 3,247                                                                                           | 12,674 | 17,594 | 19,832 | 21,003 | 21,198 | 21,345 | 21,420 | 21,540 | 21,587 | 21,696 | 21,763 | 21,771 | 21,774 | 21,787 | 21,801 |
| 2002-1                | 3,768                                                                                           | 12,621 | 17,018 | 18,997 | 19,859 | 20,013 | 20,105 | 20,173 | 20,198 | 20,226 | 20,275 | 20,309 | 20,315 | 20,317 | 20,319 | 20,323 |
| 2002-2                | 3,590                                                                                           | 13,435 | 18,178 | 20,162 | 21,131 | 21,541 | 21,657 | 21,729 | 21,796 | 21,852 | 21,906 | 22,090 | 22,125 | 22,190 | 22,246 | 22,286 |
| 2003-1                | 3,723                                                                                           | 12,301 | 16,283 | 17,885 | 18,645 | 18,747 | 18,831 | 18,895 | 18,926 | 18,951 | 18,978 | 18,998 | 19,009 | 19,028 | 19,037 | 19,051 |
| 2003-2                | 3,462                                                                                           | 11,985 | 15,864 | 17,441 | 18,334 | 18,556 | 19,031 | 19,084 | 19,120 | 19,169 | 19,185 | 19,193 | 19,199 | 19,218 | 19,245 | 19,298 |
| 2004-1                | 3,823                                                                                           | 11,514 | 14,762 | 15,914 | 16,463 | 16,584 | 16,636 | 16,767 | 16,844 | 16,867 | 16,887 | 16,889 | 16,893 | 16,894 | 16,894 | 16,895 |
| 2004-2                | 4,619                                                                                           | 14,597 | 17,416 | 18,630 | 19,265 | 19,505 | 19,570 | 19,604 | 19,638 | 19,680 | 19,715 | 19,742 | 19,790 | 19,836 | 19,880 | 19,900 |
| 2005-1                | 7,059                                                                                           | 14,430 | 16,655 | 17,762 | 18,526 | 18,727 | 18,836 | 18,928 | 18,968 | 19,137 | 19,174 | 19,193 | 19,192 | 19,266 | 19,279 | 19,350 |
| 2005-2                | 6,754                                                                                           | 15,634 | 18,130 | 20,003 | 20,830 | 21,057 | 21,188 | 21,435 | 21,494 | 21,697 | 21,744 | 21,760 | 21,940 | 22,036 | 22,089 | 22,124 |
| 2006-1                | 6,829                                                                                           | 14,061 | 16,399 | 17,457 | 18,183 | 18,304 | 18,354 | 18,389 | 18,425 | 18,437 | 18,451 | 18,458 | 18,470 | 18,471 | 18,473 | 18,485 |
| 2006-2                | 7,296                                                                                           | 16,980 | 19,796 | 21,347 | 22,329 | 22,652 | 22,795 | 22,924 | 22,953 | 23,046 | 23,110 | 23,219 | 23,307 | 23,322 | 23,871 | 23,950 |
| 2007-1                | 8,010                                                                                           | 15,310 | 17,675 | 19,053 | 19,798 | 19,965 | 20,039 | 20,081 | 20,136 | 20,193 | 20,175 | 20,177 | 20,184 | 20,184 | 20,192 | 20,201 |
| 2007-2                | 7,482                                                                                           | 17,216 | 20,287 | 21,881 | 22,901 | 23,175 | 23,370 | 23,511 | 23,641 | 23,736 | 23,886 | 24,052 | 24,463 | 24,487 | 24,867 |        |
| 2008-1                | 8,323                                                                                           | 16,412 | 19,004 | 20,384 | 21,400 | 21,509 | 21,568 | 21,597 | 21,599 | 21,616 | 21,619 | 21,632 | 21,636 | 21,693 |        |        |
| 2008-2                | 7,967                                                                                           | 18,397 | 22,091 | 24,033 | 25,164 | 25,631 | 26,806 | 26,942 | 27,027 | 27,053 | 27,277 | 27,322 | 27,329 |        |        |        |
| 2009-1                | 8,674                                                                                           | 16,789 | 19,804 | 21,188 | 21,993 | 22,179 | 22,174 | 22,207 | 22,267 | 22,321 | 22,394 | 22,478 |        |        |        |        |
| 2009-2                | 8,970                                                                                           | 20,331 | 23,814 | 25,607 | 26,629 | 26,992 | 27,133 | 27,229 | 27,331 | 27,366 | 27,417 |        |        |        |        |        |
| 2010-1                | 9,187                                                                                           | 17,936 | 20,628 | 22,015 | 22,982 | 23,219 | 23,438 | 23,536 | 23,722 | 23,765 |        |        |        |        |        |        |
| 2010-2                | 9,742                                                                                           | 21,724 | 25,057 | 26,719 | 27,837 | 28,168 | 28,366 | 28,461 | 28,523 |        |        |        |        |        |        |        |
| 2011-1                | 11,003                                                                                          | 20,486 | 23,374 | 24,747 | 25,661 | 25,804 | 25,869 | 25,960 |        |        |        |        |        |        |        |        |
| 2011-2                | 9,973                                                                                           | 21,875 | 25,213 | 27,189 | 28,410 | 29,730 | 29,911 |        |        |        |        |        |        |        |        |        |
| 2012-1                | 10,441                                                                                          | 20,092 | 23,442 | 25,156 | 26,150 | 26,349 |        |        |        |        |        |        |        |        |        |        |
| 2012-2                | 9,921                                                                                           | 23,262 | 27,574 | 30,081 | 31,803 |        |        |        |        |        |        |        |        |        |        |        |
| 2013-1                | 10,703                                                                                          | 21,371 | 24,828 | 26,847 |        |        |        |        |        |        |        |        |        |        |        |        |
| 2013-2                | 11,042                                                                                          | 25,258 | 29,683 |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 2014-1                | 11,905                                                                                          | 23,115 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 2014-2                | 11,494                                                                                          |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |

| Accident<br>Year | Portion of Ultimate Losses Paid by Month of Development |        |        |        |        |        |        |         |
|------------------|---------------------------------------------------------|--------|--------|--------|--------|--------|--------|---------|
|                  | 12                                                      | 24     | 36     | 48     | 60     | 72     | 84     | 96      |
| 2000             | 35.31%                                                  | 81.56% | 92.82% | 94.16% | 95.00% | 95.44% | 95.97% | 96.53%  |
| 2001             | 34.23%                                                  | 84.76% | 96.41% | 97.56% | 98.37% | 98.97% | 99.18% | 99.23%  |
| 2002             | 37.49%                                                  | 85.98% | 95.16% | 96.74% | 97.19% | 97.63% | 98.16% | 98.45%  |
| 2003             | 40.99%                                                  | 87.77% | 96.43% | 98.63% | 99.01% | 99.30% | 99.41% | 99.59%  |
| 2004             | 43.08%                                                  | 89.00% | 95.72% | 97.03% | 97.47% | 97.74% | 97.95% | 98.20%  |
| 2005             | 50.65%                                                  | 85.82% | 94.59% | 95.92% | 97.15% | 97.88% | 98.53% | 99.09%  |
| 2006             | 50.13%                                                  | 87.45% | 95.38% | 96.67% | 97.16% | 97.57% | 98.07% | 99.42%  |
| 2007             | 50.58%                                                  | 87.31% | 95.13% | 96.43% | 97.28% | 97.79% | 99.09% | 100.02% |
| 2008             | 49.73%                                                  | 86.64% | 95.20% | 98.73% | 99.22% | 99.76% | 99.99% |         |
| 2009             | 51.23%                                                  | 89.50% | 97.07% | 98.13% | 98.75% | 99.24% |        |         |
| 2010             | 52.28%                                                  | 88.92% | 96.44% | 98.04% | 98.77% |        |        |         |
| 2011             | 53.54%                                                  | 87.82% | 95.30% | 98.21% |        |        |        |         |
| 2012             | 48.23%                                                  | 84.73% | 93.45% |        |        |        |        |         |
| 2013             | 50.88%                                                  | 88.73% |        |        |        |        |        |         |
| 2014             | 54.02%                                                  |        |        |        |        |        |        |         |

| Arithmetic Averages | Cumulative Paid Losses |        |        |        |        |        |        |        |
|---------------------|------------------------|--------|--------|--------|--------|--------|--------|--------|
|                     | 12                     | 24     | 36     | 48     | 60     | 72     | 84     | 96     |
| All Years           | 46.83%                 | 86.86% | 95.32% | 97.19% | 97.76% | 98.13% | 98.48% | 98.82% |
| 10 Year             | 51.13%                 | 87.59% | 95.47% | 97.45% | 98.04% | 98.13% |        |        |
| 8 Year              | 51.31%                 | 87.64% | 95.32% | 97.40% | 98.10% | 98.36% | 98.80% | 98.82% |
| 6 Year              | 51.70%                 | 87.72% | 95.43% | 97.70% | 98.06% | 98.33% | 98.84% | 99.13% |
| 4 Year              | 51.67%                 | 87.55% | 95.57% | 98.28% | 98.51% | 98.59% | 98.92% | 99.18% |
| 3 Year              | 51.04%                 | 87.10% | 95.06% | 98.13% | 98.91% | 98.93% | 99.05% | 99.51% |
| All Year ex hi/lo   | 47.24%                 | 87.08% | 95.38% | 97.34% | 97.91% | 98.27% | 98.63% | 99.00% |
| 6 Year ex hi/lo     | 51.98%                 | 88.03% | 95.52% | 97.76% | 97.99% | 98.16% | 98.77% | 99.14% |

| \$ Weighted Averages |        |        |        |        |        |        |        |        |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
|                      | 12     | 24     | 36     | 48     | 60     | 72     | 84     | 96     |
| All Years            | 47.67% | 86.96% | 95.30% | 97.28% | 97.83% | 98.19% | 98.54% | 98.86% |
| 10 Year              | 51.20% | 87.57% | 95.41% | 97.51% | 98.08% | 98.19% |        |        |
| 8 Year               | 51.35% | 87.61% | 95.29% | 97.48% | 98.15% | 98.40% | 98.82% | 98.86% |
| 6 Year               | 51.68% | 87.67% | 95.37% | 97.76% | 98.12% | 98.40% | 98.89% | 99.15% |
| 4 Year               | 51.64% | 87.50% | 95.45% | 98.27% | 98.54% | 98.65% | 98.96% | 99.23% |
| 3 Year               | 51.07% | 87.09% | 94.98% | 98.13% | 98.91% | 98.96% | 99.09% | 99.52% |

| Selected Pay Pattern | 51.07% | 87.09% | 94.98% | 98.13% | 98.91% | 98.96% | 99.09% | 99.52% |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|

| Incremental | 51.07% | 36.02% | 7.89% | 3.15% | 0.78% | 0.05% | 0.13% | 0.43% |
|-------------|--------|--------|-------|-------|-------|-------|-------|-------|
|-------------|--------|--------|-------|-------|-------|-------|-------|-------|

| Year               | 1      | 2      | 3     | 4     | 5     | 6     | 7     | 8     | 9      | 10    | 11     | 12    | 13     | 14    | 15    | To Ult |
|--------------------|--------|--------|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|-------|--------|
| Annual Pay Pattern | 51.07% | 36.02% | 7.89% | 3.15% | 0.78% | 0.05% | 0.13% | 0.43% | -0.42% | 0.26% | -0.24% | 0.44% | -0.43% | 0.01% | 0.85% | 0.00%  |

Discounted Value at 1.5%: 0.9815

Data Source: AU20112ALB

Province of Alberta  
Alberta Automobile Insurance Rate Board  
2015 Private Passenger Industry-Wide Review

**AB All Med Exp**

| Accident<br>Half Year  | Paid Losses and Allocated Loss Adjustment Expenses - Data as of 12/31/2014 (Losses in \$ 000s) |        |        |        |        |        |        |        |        |        |         |        |         |        | Selected<br>Ultimate |
|------------------------|------------------------------------------------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|--------|---------|--------|----------------------|
|                        | 102                                                                                            | 108    | 114    | 120    | 126    | 132    | 138    | 144    | 150    | 156    | 162     | 168    | 174     | 180    |                      |
| 2000-1                 | 16,701                                                                                         | 16,810 | 17,234 | 17,234 | 17,234 | 17,235 | 17,235 | 17,235 | 17,236 | 17,236 | 17,244  | 17,249 | 17,252  | 17,261 | 17,323               |
| 2000-2                 | 19,554                                                                                         | 19,556 | 19,558 | 19,559 | 19,561 | 19,582 | 19,583 | 19,584 | 19,584 | 19,584 | 19,586  | 19,602 | 19,610  |        | 20,168               |
| 2001-1                 | 17,623                                                                                         | 17,623 | 17,623 | 17,623 | 17,625 | 17,625 | 17,625 | 17,625 | 17,625 | 17,625 | 17,625  | 17,625 | 17,625  |        | 17,625               |
| 2001-2                 | 21,828                                                                                         | 21,836 | 21,844 | 21,848 | 21,945 | 21,950 | 21,980 | 22,043 | 22,043 | 22,043 | 22,088  |        |         |        | 22,088               |
| 2002-1                 | 20,326                                                                                         | 20,351 | 20,353 | 20,357 | 20,359 | 20,359 | 20,363 | 20,363 | 20,366 | 20,384 |         |        |         |        | 20,576               |
| 2002-2                 | 22,333                                                                                         | 22,371 | 22,389 | 22,417 | 22,434 | 22,483 | 22,512 | 22,532 | 22,537 |        |         |        |         |        | 22,662               |
| 2003-1                 | 19,054                                                                                         | 19,063 | 19,073 | 19,073 | 19,073 | 19,073 | 19,073 | 19,073 |        |        |         |        |         |        | 19,084               |
| 2003-2                 | 19,309                                                                                         | 19,320 | 19,320 | 19,323 | 19,331 | 19,331 | 19,336 |        |        |        |         |        |         |        | 19,369               |
| 2004-1                 | 16,897                                                                                         | 16,897 | 16,897 | 16,897 | 16,897 | 16,897 |        |        |        |        |         |        |         |        | 16,903               |
| 2004-2                 | 19,924                                                                                         | 19,981 | 19,987 | 20,001 | 20,016 |        |        |        |        |        |         |        |         |        | 20,547               |
| 2005-1                 | 19,339                                                                                         | 19,366 | 19,376 | 19,381 |        |        |        |        |        |        |         |        |         |        | 19,389               |
| 2005-2                 | 22,161                                                                                         | 22,291 | 22,326 |        |        |        |        |        |        |        |         |        |         |        | 22,433               |
| 2006-1                 | 18,486                                                                                         | 18,487 |        |        |        |        |        |        |        |        |         |        |         |        | 18,538               |
| 2006-2                 | 23,950                                                                                         |        |        |        |        |        |        |        |        |        |         |        |         |        | 24,063               |
| 2007-1                 |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        | 20,175               |
| 2007-2                 |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        | 24,883               |
| 2008-1                 |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        | 21,674               |
| 2008-2                 |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        | 27,353               |
| 2009-1                 |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        | 22,542               |
| 2009-2                 |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        | 27,738               |
| 2010-1                 |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        | 23,908               |
| 2010-2                 |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        | 29,032               |
| 2011-1                 |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        | 26,203               |
| 2011-2                 |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        | 30,685               |
| 2012-1                 |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        | 26,827               |
| 2012-2                 |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        | 35,404               |
| 2013-1                 |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        | 28,578               |
| 2013-2                 |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        | 35,131               |
| 2014-1                 |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        | 28,939               |
| 2014-2                 |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        | 35,127               |
| Accident<br>Year       | Portion of Ultimate Losses Paid by Month of Development                                        |        |        |        |        |        |        |        |        |        |         |        |         |        | Selected<br>Ultimate |
|                        | 108                                                                                            |        | 120    |        | 132    |        | 144    |        | 156    |        | 168     |        | 180     |        |                      |
| 2000                   | 96.99%                                                                                         |        | 98.13% |        | 98.15% |        | 98.21% |        | 98.21% |        | 98.25%  |        | 98.34%  |        | 37,491               |
| 2001                   | 99.34%                                                                                         |        | 99.38% |        | 99.64% |        | 99.73% |        | 99.89% |        | 100.00% |        |         |        | 39,713               |
| 2002                   | 98.72%                                                                                         |        | 98.86% |        | 98.97% |        | 99.16% |        | 99.27% |        |         |        |         |        | 43,238               |
| 2003                   | 99.79%                                                                                         |        | 99.84% |        | 99.87% |        | 99.89% |        |        |        |         |        |         |        | 38,453               |
| 2004                   | 98.32%                                                                                         |        | 98.49% |        | 98.56% |        |        |        |        |        |         |        |         |        | 37,451               |
| 2005                   | 99.30%                                                                                         |        | 99.73% |        |        |        |        |        |        |        |         |        |         |        | 41,822               |
| 2006                   | 99.61%                                                                                         |        |        |        |        |        |        |        |        |        |         |        |         |        | 42,601               |
| 2007                   |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        | 45,057               |
| 2008                   |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        | 49,026               |
| 2009                   |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        | 50,280               |
| 2010                   |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        | 52,940               |
| 2011                   |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        | 56,889               |
| 2012                   |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        | 62,231               |
| 2013                   |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        | 63,709               |
| 2014                   |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        | 64,065               |
| Cumulative Paid Losses |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        |                      |
| Arithmetic Averages    | 108                                                                                            |        | 120    |        | 132    |        | 144    |        | 156    |        | 168     |        | 180     |        | Ultimate             |
| All Years              | 98.87%                                                                                         |        | 99.07% |        | 99.04% |        | 99.24% |        | 99.12% |        | 99.13%  |        | 98.34%  |        | 100.00%              |
| 10 Year                |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        |                      |
| 8 Year                 |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        |                      |
| 6 Year                 | 99.18%                                                                                         |        | 99.07% |        |        |        |        |        |        |        |         |        |         |        |                      |
| 4 Year                 | 99.25%                                                                                         |        | 99.23% |        | 99.26% |        | 99.24% |        |        |        |         |        |         |        |                      |
| 3 Year                 | 99.08%                                                                                         |        | 99.35% |        | 99.14% |        | 99.59% |        | 99.12% |        |         |        |         |        |                      |
| All Year ex hi/lo      | 99.06%                                                                                         |        | 99.11% |        | 99.06% |        | 99.44% |        | 99.27% |        |         |        |         |        |                      |
| 6 Year ex hi/lo        | 99.24%                                                                                         |        | 99.11% |        |        |        |        |        |        |        |         |        |         |        |                      |
| \$ Weighted Averages   |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        |                      |
| All Years              | 98.89%                                                                                         |        | 99.09% |        | 99.05% |        | 99.25% |        | 99.14% |        | 99.15%  |        | 98.34%  |        | 100.00%              |
| 10 Year                |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        |                      |
| 8 Year                 |                                                                                                |        |        |        |        |        |        |        |        |        |         |        |         |        |                      |
| 6 Year                 | 99.18%                                                                                         |        | 99.09% |        |        |        |        |        |        |        |         |        |         |        |                      |
| 4 Year                 | 99.27%                                                                                         |        | 99.23% |        | 99.26% |        | 99.25% |        |        |        |         |        |         |        |                      |
| 3 Year                 | 99.11%                                                                                         |        | 99.37% |        | 99.13% |        | 99.58% |        | 99.14% |        |         |        |         |        |                      |
| Selected Pay Pattern   | 99.11%                                                                                         |        | 99.37% |        | 99.13% |        | 99.58% |        | 99.14% |        | 99.15%  |        | 100.00% |        | 100.00%              |
| Incremental            | -0.42%                                                                                         |        | 0.26%  |        | -0.24% |        | 0.44%  |        | -0.43% |        | 0.01%   |        | 0.85%   |        | 0.00%                |

Province of Alberta  
Alberta Automobile Insurance Rate Board  
2015 Private Passenger Industry-Wide Review

**AB All DI**

| Accident<br>Half Year | Paid Losses and Allocated Loss Adjustment Expenses - Data as of 12/31/2014 (Losses in \$ 000s) |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
|-----------------------|------------------------------------------------------------------------------------------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
|                       | 6                                                                                              | 12    | 18     | 24     | 30     | 36     | 42     | 48     | 54     | 60     | 66     | 72     | 78     | 84     | 90     | 96     |
| 2000-1                | 2,683                                                                                          | 6,132 | 7,500  | 8,305  | 8,659  | 8,675  | 8,695  | 8,728  | 8,911  | 8,950  | 8,953  | 8,959  | 8,968  | 8,982  | 9,008  | 9,008  |
| 2000-2                | 2,877                                                                                          | 8,406 | 10,266 | 11,410 | 11,934 | 12,011 | 12,098 | 12,168 | 12,284 | 12,312 | 12,337 | 12,398 | 12,537 | 12,531 | 12,531 | 12,531 |
| 2001-1                | 2,440                                                                                          | 5,910 | 7,389  | 8,298  | 8,725  | 9,056  | 9,068  | 9,071  | 9,073  | 9,102  | 9,109  | 9,148  | 9,148  | 9,157  | 9,157  | 9,157  |
| 2001-2                | 2,965                                                                                          | 7,764 | 9,654  | 10,670 | 11,118 | 11,269 | 11,335 | 11,399 | 11,500 | 11,590 | 11,899 | 11,899 | 11,890 | 11,890 | 11,891 | 11,891 |
| 2002-1                | 2,964                                                                                          | 7,128 | 8,728  | 9,620  | 9,969  | 10,063 | 10,120 | 10,175 | 10,256 | 10,324 | 10,403 | 10,451 | 10,505 | 10,520 | 10,536 | 10,605 |
| 2002-2                | 2,928                                                                                          | 7,910 | 9,845  | 10,978 | 11,531 | 11,618 | 11,646 | 11,659 | 11,662 | 11,663 | 11,663 | 11,672 | 11,672 | 11,674 | 11,674 | 11,662 |
| 2003-1                | 2,588                                                                                          | 5,985 | 7,212  | 7,834  | 8,140  | 8,154  | 8,188  | 8,240  | 8,253  | 8,263  | 8,270  | 8,280  | 8,288  | 8,299  | 8,305  | 8,317  |
| 2003-2                | 2,447                                                                                          | 6,032 | 7,409  | 8,289  | 8,647  | 8,790  | 8,902  | 8,930  | 8,948  | 8,965  | 8,990  | 9,006  | 9,022  | 9,063  | 9,118  | 9,136  |
| 2004-1                | 2,319                                                                                          | 5,332 | 6,451  | 7,149  | 7,404  | 7,469  | 7,490  | 7,505  | 7,509  | 7,512  | 7,516  | 7,516  | 7,517  | 7,517  | 7,517  | 7,517  |
| 2004-2                | 2,234                                                                                          | 5,599 | 6,973  | 7,707  | 7,998  | 8,037  | 8,071  | 8,082  | 8,097  | 8,108  | 8,135  | 8,146  | 8,439  | 8,471  | 8,613  | 8,635  |
| 2005-1                | 2,137                                                                                          | 4,763 | 5,897  | 6,505  | 6,799  | 6,877  | 6,925  | 7,005  | 7,029  | 7,034  | 7,050  | 7,109  | 7,121  | 7,131  | 7,447  | 7,433  |
| 2005-2                | 2,245                                                                                          | 5,667 | 7,153  | 8,209  | 8,635  | 8,669  | 8,705  | 8,734  | 8,763  | 8,765  | 8,811  | 8,812  | 8,842  | 8,844  | 8,873  | 8,875  |
| 2006-1                | 2,068                                                                                          | 4,859 | 6,256  | 7,054  | 7,355  | 7,373  | 7,418  | 7,439  | 7,451  | 7,455  | 7,459  | 7,463  | 7,465  | 7,466  | 7,467  | 7,467  |
| 2006-2                | 2,316                                                                                          | 5,892 | 7,294  | 8,221  | 8,655  | 8,752  | 8,831  | 8,873  | 8,929  | 9,153  | 9,230  | 9,517  | 9,540  | 9,564  | 9,652  | 9,665  |
| 2007-1                | 2,230                                                                                          | 5,554 | 7,035  | 7,944  | 8,465  | 8,559  | 8,630  | 8,679  | 8,747  | 8,788  | 8,835  | 8,872  | 8,897  | 8,919  | 8,929  | 8,992  |
| 2007-2                | 2,903                                                                                          | 7,441 | 9,558  | 10,790 | 11,316 | 11,427 | 11,754 | 11,788 | 11,805 | 11,823 | 11,833 | 11,845 | 12,085 | 12,105 | 12,112 |        |
| 2008-1                | 2,492                                                                                          | 6,032 | 7,704  | 8,856  | 9,374  | 9,455  | 9,458  | 9,490  | 9,509  | 9,510  | 9,514  | 9,514  | 9,543  | 9,555  |        |        |
| 2008-2                | 2,802                                                                                          | 7,739 | 10,169 | 11,721 | 12,587 | 12,786 | 12,887 | 12,955 | 12,980 | 13,099 | 13,131 | 13,148 | 13,204 |        |        |        |
| 2009-1                | 2,489                                                                                          | 6,168 | 7,953  | 9,223  | 9,838  | 9,950  | 10,059 | 10,069 | 10,083 | 10,103 | 10,190 | 10,439 |        |        |        |        |
| 2009-2                | 2,488                                                                                          | 6,977 | 8,903  | 10,121 | 10,874 | 11,302 | 11,425 | 11,547 | 11,567 | 11,505 | 11,569 |        |        |        |        |        |
| 2010-1                | 2,222                                                                                          | 5,304 | 6,717  | 7,558  | 7,898  | 7,931  | 7,939  | 8,000  | 8,011  | 8,013  |        |        |        |        |        |        |
| 2010-2                | 2,437                                                                                          | 6,845 | 8,781  | 10,058 | 10,754 | 10,912 | 11,074 | 11,145 | 11,200 |        |        |        |        |        |        |        |
| 2011-1                | 2,358                                                                                          | 5,352 | 6,664  | 7,425  | 7,776  | 7,830  | 7,902  | 7,945  |        |        |        |        |        |        |        |        |
| 2011-2                | 2,392                                                                                          | 6,670 | 8,599  | 9,996  | 10,785 | 10,921 | 11,069 |        |        |        |        |        |        |        |        |        |
| 2012-1                | 2,310                                                                                          | 5,559 | 7,276  | 8,607  | 9,283  | 9,349  |        |        |        |        |        |        |        |        |        |        |
| 2012-2                | 2,563                                                                                          | 6,976 | 9,151  | 10,595 | 11,351 |        |        |        |        |        |        |        |        |        |        |        |
| 2013-1                | 2,281                                                                                          | 5,931 | 7,682  | 9,049  |        |        |        |        |        |        |        |        |        |        |        |        |
| 2013-2                | 2,565                                                                                          | 6,999 | 9,156  |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 2014-1                | 2,355                                                                                          | 5,912 |        |        |        |        |        |        |        |        |        |        |        |        |        |        |
| 2014-2                | 2,399                                                                                          |       |        |        |        |        |        |        |        |        |        |        |        |        |        |        |

| Accident<br>Year | Portion of Ultimate Losses Paid by Month of Development |        |        |        |        |        |        |        |
|------------------|---------------------------------------------------------|--------|--------|--------|--------|--------|--------|--------|
|                  | 12                                                      | 24     | 36     | 48     | 60     | 72     | 84     | 96     |
| 2000             | 41.67%                                                  | 85.91% | 95.33% | 96.34% | 98.22% | 98.50% | 99.54% | 99.63% |
| 2001             | 42.03%                                                  | 85.03% | 95.55% | 96.65% | 97.58% | 99.64% | 99.69% | 99.69% |
| 2002             | 42.73%                                                  | 82.71% | 91.76% | 92.72% | 93.42% | 93.96% | 94.30% | 94.66% |
| 2003             | 47.75%                                                  | 86.32% | 95.14% | 97.07% | 97.46% | 97.80% | 98.09% | 98.73% |
| 2004             | 44.75%                                                  | 83.53% | 91.49% | 92.14% | 92.33% | 92.58% | 94.38% | 95.41% |
| 2005             | 41.93%                                                  | 81.70% | 92.79% | 93.98% | 94.50% | 95.24% | 95.56% | 97.55% |
| 2006             | 41.40%                                                  | 82.78% | 92.47% | 93.87% | 94.52% | 96.31% | 98.12% | 98.76% |
| 2007             | 39.03%                                                  | 80.76% | 91.71% | 94.29% | 95.03% | 95.55% | 96.93% | 97.39% |
| 2008             | 38.46%                                                  | 82.83% | 95.97% | 97.42% | 97.91% | 98.59% | 99.09% |        |
| 2009             | 37.92%                                                  | 79.40% | 91.22% | 94.16% |        | 94.93% | 96.41% |        |
| 2010             | 37.92%                                                  | 80.03% | 91.53% | 93.43% | 94.11% |        |        |        |
| 2011             | 38.23%                                                  | 79.11% | 91.90% | 93.87% |        |        |        |        |
| 2012             | 34.37%                                                  | 75.16% | 87.60% |        |        |        |        |        |
| 2013             | 37.26%                                                  | 79.84% |        |        |        |        |        |        |
| 2014             | 37.84%                                                  |        |        |        |        |        |        |        |

| Arithmetic Averages | Cumulative Paid Losses |        |        |        |        |        |        |        |
|---------------------|------------------------|--------|--------|--------|--------|--------|--------|--------|
|                     | 12                     | 24     | 36     | 48     | 60     | 72     | 84     | 96     |
| All Years           | 40.22%                 | 81.79% | 92.65% | 94.66% | 95.45% | 96.46% | 97.30% | 97.73% |
| 10 Year             | 38.44%                 | 80.51% | 92.18% | 94.29% | 95.18% | 96.46% |        |        |
| 8 Year              | 37.63%                 | 79.99% | 91.90% | 94.14% | 95.10% | 95.80% | 97.02% | 97.73% |
| 6 Year              | 37.26%                 | 79.39% | 91.66% | 94.51% | 95.17% | 95.78% | 97.03% | 97.08% |
| 4 Year              | 36.93%                 | 78.53% | 90.56% | 94.72% | 95.49% | 96.71% | 97.42% | 97.28% |
| 3 Year              | 36.49%                 | 78.03% | 90.34% | 93.82% | 95.65% | 96.85% | 98.04% | 97.90% |
| All Year ex h/i/o   | 40.09%                 | 81.97% | 92.81% | 94.64% | 95.50% | 96.54% | 97.38% | 97.91% |
| 6 Year ex h/i/o     | 37.73%                 | 79.59% | 91.59% | 94.05% | 94.75% | 95.88% | 97.17% | 97.27% |

| \$ Weighted Averages |        |        |        |        |        |        |        |        |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
|                      | 12     | 24     | 36     | 48     | 60     | 72     | 84     | 96     |
| All Years            | 39.97% | 81.65% | 92.60% | 94.70% | 95.52% | 96.54% | 97.36% | 97.71% |
| 10 Year              | 38.25% | 80.33% | 92.10% | 94.32% | 95.23% | 96.54% |        |        |
| 8 Year               | 37.59% | 79.89% | 91.84% | 94.25% | 95.19% | 95.86% | 97.06% | 97.71% |
| 6 Year               | 37.20% | 79.36% | 91.63% | 94.57% | 95.25% | 95.95% | 97.14% | 96.97% |
| 4 Year               | 36.86% | 78.44% | 90.47% | 94.79% | 95.54% | 96.76% | 97.53% | 97.29% |
| 3 Year               | 36.45% | 77.96% | 90.20% | 93.83% | 95.71% | 96.87% | 98.06% | 97.87% |

| Selected Pay Pattern | 36.45% |  | 77.96% |  | 90.20% |  | 93.83% |  | 95.71% |  | 96.87% |  | 98.06% |  | 97.87% |  |
|----------------------|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|
|----------------------|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|--------|--|

| Incremental | 36.45% | 41.51% | 12.25% | 3.63% | 1.88% | 1.16% | 1.19% | -0.19% | -0.41% | 0.39% | -0.89% | 1.31% | 0.26% | 1.33% | 0.15% | 0.00% |
|-------------|--------|--------|--------|-------|-------|-------|-------|--------|--------|-------|--------|-------|-------|-------|-------|-------|
|-------------|--------|--------|--------|-------|-------|-------|-------|--------|--------|-------|--------|-------|-------|-------|-------|-------|

| Year               | 1      | 2      | 3      | 4     | 5     | 6     | 7     | 8      | 9      | 10    | 11     | 12    | 13    | 14    | 15    | To Ult |
|--------------------|--------|--------|--------|-------|-------|-------|-------|--------|--------|-------|--------|-------|-------|-------|-------|--------|
| Annual Pay Pattern | 36.45% | 41.51% | 12.25% | 3.63% | 1.88% | 1.16% | 1.19% | -0.19% | -0.41% | 0.39% | -0.89% | 1.31% | 0.26% | 1.33% | 0.15% | 0.00%  |

Discounted Value at 1.5%: 0.9748

Data Source: AU20112ALB

Province of Alberta  
Alberta Automobile Insurance Rate Board  
2015 Private Passenger Industry-Wide Review

**AB All DI**

| Accident<br>Half Year  | Paid Losses and Allocated Loss Adjustment Expenses - Data as of 12/31/2014 (Losses in \$ 000s) |        |         |        |         |        |         |        |         |        |         |        |         |        | Selected<br>Ultimate |
|------------------------|------------------------------------------------------------------------------------------------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|---------|--------|----------------------|
|                        | 102                                                                                            | 108    | 114     | 120    | 126     | 132    | 138     | 144    | 150     | 156    | 162     | 168    | 174     | 180    |                      |
| 2000-1                 | 9,019                                                                                          | 9,022  | 9,022   | 9,022  | 9,022   | 9,022  | 9,022   | 9,022  | 9,022   | 9,022  | 9,022   | 9,022  | 9,022   | 9,022  | 9,022                |
| 2000-2                 | 12,532                                                                                         | 12,532 | 12,532  | 12,532 | 12,532  | 12,532 | 12,532  | 12,532 | 12,532  | 12,532 | 12,532  | 12,532 | 12,532  | 12,532 | 12,597               |
| 2001-1                 | 9,157                                                                                          | 9,157  | 9,157   | 9,157  | 9,157   | 9,157  | 9,157   | 9,157  | 9,157   | 9,157  | 9,157   | 9,157  | 9,157   |        | 9,157                |
| 2001-2                 | 11,932                                                                                         | 11,950 | 11,964  | 11,970 | 11,956  | 11,956 | 11,956  | 11,956 | 11,956  | 11,956 | 11,956  | 11,956 |         |        | 11,956               |
| 2002-1                 | 10,673                                                                                         | 10,692 | 10,714  | 10,766 | 10,791  | 10,818 | 10,838  | 10,858 | 10,896  | 10,931 |         |        |         |        | 11,426               |
| 2002-2                 | 11,662                                                                                         | 11,662 | 11,662  | 11,662 | 11,662  | 11,662 | 11,662  | 11,662 | 11,666  | 11,689 |         |        |         |        | 12,109               |
| 2003-1                 | 8,323                                                                                          | 8,327  | 8,339   | 8,342  | 8,345   | 8,354  | 8,354   | 8,354  |         |        |         |        |         |        | 8,371                |
| 2003-2                 | 9,149                                                                                          | 9,159  | 9,191   | 9,238  | 9,238   | 9,238  | 9,238   |        |         |        |         |        |         |        | 9,288                |
| 2004-1                 | 7,517                                                                                          | 7,517  | 7,517   | 7,517  | 7,517   | 7,517  |         |        |         |        |         |        |         |        | 7,517                |
| 2004-2                 | 8,656                                                                                          | 8,678  | 8,699   | 8,721  | 8,744   |        |         |        |         |        |         |        |         |        | 9,389                |
| 2005-1                 | 7,436                                                                                          | 7,441  | 7,441   | 7,441  |         |        |         |        |         |        |         |        |         |        | 7,441                |
| 2005-2                 | 8,905                                                                                          | 8,954  | 8,986   |        |         |        |         |        |         |        |         |        |         |        | 9,274                |
| 2006-1                 | 7,467                                                                                          | 7,467  |         |        |         |        |         |        |         |        |         |        |         |        | 7,467                |
| 2006-2                 | 9,674                                                                                          |        |         |        |         |        |         |        |         |        |         |        |         |        | 9,866                |
| 2007-1                 |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        | 9,068                |
| 2007-2                 |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        | 12,602               |
| 2008-1                 |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        | 9,615                |
| 2008-2                 |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        | 13,354               |
| 2009-1                 |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        | 10,749               |
| 2009-2                 |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        | 12,079               |
| 2010-1                 |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        | 8,194                |
| 2010-2                 |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        | 12,222               |
| 2011-1                 |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        | 8,292                |
| 2011-2                 |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        | 11,964               |
| 2012-1                 |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        | 10,567               |
| 2012-2                 |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        | 13,062               |
| 2013-1                 |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        | 10,164               |
| 2013-2                 |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        | 12,639               |
| 2014-1                 |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        | 9,524                |
| 2014-2                 |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        | 12,439               |
| Accident<br>Year       | Portion of Ultimate Losses Paid by Month of Development                                        |        |         |        |         |        |         |        |         |        |         |        |         |        | Selected<br>Ultimate |
|                        | 108                                                                                            |        | 120     |        | 132     |        | 144     |        | 156     |        | 168     |        | 180     |        |                      |
| 2000                   | 99.70%                                                                                         |        | 99.70%  |        | 99.70%  |        | 99.70%  |        | 99.70%  |        | 99.70%  |        | 99.70%  |        | 21,619               |
| 2001                   | 99.89%                                                                                         |        | 100.03% |        | 100.00% |        | 100.00% |        | 100.00% |        | 100.00% |        |         |        | 21,113               |
| 2002                   | 94.99%                                                                                         |        | 95.30%  |        | 95.52%  |        | 95.69%  |        | 96.11%  |        |         |        |         |        | 23,534               |
| 2003                   | 98.97%                                                                                         |        | 99.29%  |        | 99.62%  |        | 99.62%  |        |         |        |         |        |         |        | 17,659               |
| 2004                   | 95.67%                                                                                         |        | 95.92%  |        | 96.18%  |        |         |        |         |        |         |        |         |        | 16,906               |
| 2005                   | 97.79%                                                                                         |        | 98.27%  |        |         |        |         |        |         |        |         |        |         |        | 16,716               |
| 2006                   | 98.89%                                                                                         |        |         |        |         |        |         |        |         |        |         |        |         |        | 17,333               |
| 2007                   |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        | 21,670               |
| 2008                   |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        | 22,969               |
| 2009                   |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        | 22,828               |
| 2010                   |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        | 20,415               |
| 2011                   |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        | 20,256               |
| 2012                   |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        | 23,629               |
| 2013                   |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        | 22,803               |
| 2014                   |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        | 21,963               |
| Cumulative Paid Losses |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        |                      |
| Arithmetic Averages    | 108                                                                                            |        | 120     |        | 132     |        | 144     |        | 156     |        | 168     |        | 180     |        | Ultimate             |
| All Years              | 97.98%                                                                                         |        | 98.09%  |        | 98.21%  |        | 98.75%  |        | 98.61%  |        | 99.85%  |        | 99.70%  |        | 100.00%              |
| 10 Year                |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        |                      |
| 8 Year                 |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        |                      |
| 6 Year                 | 97.70%                                                                                         |        | 98.09%  |        |         |        |         |        |         |        |         |        |         |        |                      |
| 4 Year                 | 97.83%                                                                                         |        | 97.19%  |        | 97.83%  |        | 98.75%  |        |         |        |         |        |         |        |                      |
| 3 Year                 | 97.45%                                                                                         |        | 97.83%  |        | 97.11%  |        | 98.44%  |        | 98.61%  |        |         |        |         |        |                      |
| All Year ex hi/lo      | 98.20%                                                                                         |        | 98.29%  |        | 98.50%  |        | 99.66%  |        | 99.70%  |        |         |        |         |        |                      |
| 6 Year ex hi/lo        | 97.83%                                                                                         |        | 98.29%  |        |         |        |         |        |         |        |         |        |         |        |                      |
| \$ Weighted Averages   |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        |                      |
| All Years              | 97.96%                                                                                         |        | 98.07%  |        | 98.18%  |        | 98.64%  |        | 98.52%  |        | 99.85%  |        | 99.70%  |        | 100.00%              |
| 10 Year                |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        |                      |
| 8 Year                 |                                                                                                |        |         |        |         |        |         |        |         |        |         |        |         |        |                      |
| 6 Year                 | 97.63%                                                                                         |        | 98.07%  |        |         |        |         |        |         |        |         |        |         |        |                      |
| 4 Year                 | 97.85%                                                                                         |        | 97.04%  |        | 97.77%  |        | 98.64%  |        |         |        |         |        |         |        |                      |
| 3 Year                 | 97.46%                                                                                         |        | 97.85%  |        | 96.96%  |        | 98.26%  |        | 98.52%  |        |         |        |         |        |                      |
| Selected Pay Pattern   | 97.46%                                                                                         |        | 97.85%  |        | 96.96%  |        | 98.26%  |        | 98.52%  |        | 99.85%  |        | 100.00% |        | 100.00%              |
| Incremental            | -0.41%                                                                                         |        | 0.39%   |        | -0.89%  |        | 1.31%   |        | 0.26%   |        | 1.33%   |        | 0.15%   |        | 0.00%                |

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**AB DB**

| Accident<br>Half Year | Paid Losses and Allocated Loss Adjustment Expenses - Data as of 12/31/2014 (Losses in \$ 000s) |       |       |       |       |       |       |       |       |       |       |       |       |       |       |       |
|-----------------------|------------------------------------------------------------------------------------------------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
|                       | 6                                                                                              | 12    | 18    | 24    | 30    | 36    | 42    | 48    | 54    | 60    | 66    | 72    | 78    | 84    | 90    | 96    |
| 2000-1                | 336                                                                                            | 699   | 855   | 1,175 | 1,195 | 1,194 | 1,209 | 1,209 | 1,211 | 1,211 | 1,211 | 1,211 | 1,211 | 1,211 | 1,211 | 1,211 |
| 2000-2                | 493                                                                                            | 1,677 | 1,784 | 1,857 | 1,891 | 1,901 | 1,904 | 1,906 | 1,906 | 1,907 | 1,909 | 1,919 | 1,922 | 1,925 | 1,927 | 1,924 |
| 2001-1                | 296                                                                                            | 694   | 862   | 1,009 | 1,079 | 1,096 | 1,114 | 1,125 | 1,138 | 1,164 | 1,176 | 1,189 | 1,200 | 1,216 | 1,230 | 1,243 |
| 2001-2                | 431                                                                                            | 801   | 942   | 1,005 | 1,022 | 1,035 | 1,036 | 1,036 | 1,036 | 1,036 | 1,037 | 1,037 | 1,037 | 1,037 | 1,037 | 1,037 |
| 2002-1                | 471                                                                                            | 904   | 1,033 | 1,099 | 1,112 | 1,113 | 1,148 | 1,148 | 1,149 | 1,154 | 1,160 | 1,164 | 1,181 | 1,181 | 1,181 | 1,181 |
| 2002-2                | 434                                                                                            | 1,072 | 1,262 | 1,347 | 1,379 | 1,423 | 1,423 | 1,423 | 1,423 | 1,423 | 1,423 | 1,423 | 1,423 | 1,423 | 1,423 | 1,423 |
| 2003-1                | 409                                                                                            | 740   | 909   | 954   | 1,021 | 1,021 | 1,021 | 1,049 | 1,050 | 1,050 | 1,051 | 1,051 | 1,053 | 1,053 | 1,088 | 1,092 |
| 2003-2                | 527                                                                                            | 1,096 | 1,228 | 1,389 | 1,419 | 1,423 | 1,440 | 1,442 | 1,442 | 1,442 | 1,442 | 1,442 | 1,442 | 1,442 | 1,442 | 1,442 |
| 2004-1                | 316                                                                                            | 618   | 737   | 779   | 918   | 922   | 920   | 920   | 920   | 920   | 922   | 922   | 922   | 922   | 922   | 922   |
| 2004-2                | 484                                                                                            | 1,385 | 1,494 | 1,764 | 1,830 | 1,871 | 1,871 | 1,871 | 1,871 | 1,871 | 1,871 | 1,871 | 1,871 | 1,871 | 1,871 | 1,871 |
| 2005-1                | 560                                                                                            | 952   | 1,170 | 1,175 | 1,212 | 1,253 | 1,253 | 1,260 | 1,260 | 1,260 | 1,260 | 1,260 | 1,260 | 1,260 | 1,299 | 1,299 |
| 2005-2                | 590                                                                                            | 1,274 | 1,545 | 1,647 | 1,669 | 1,718 | 1,743 | 1,780 | 1,749 | 1,749 | 1,749 | 1,749 | 1,749 | 2,077 | 2,107 | 2,108 |
| 2006-1                | 668                                                                                            | 1,118 | 1,492 | 1,597 | 1,600 | 1,638 | 1,638 | 1,638 | 1,638 | 1,638 | 1,638 | 1,638 | 1,638 | 1,638 | 1,638 | 1,638 |
| 2006-2                | 364                                                                                            | 989   | 1,063 | 1,102 | 1,161 | 1,161 | 1,161 | 1,161 | 1,161 | 1,161 | 1,161 | 1,161 | 1,161 | 1,161 | 1,161 | 1,161 |
| 2007-1                | 266                                                                                            | 787   | 846   | 902   | 949   | 980   | 997   | 997   | 997   | 997   | 997   | 997   | 997   | 997   | 997   | 997   |
| 2007-2                | 538                                                                                            | 1,215 | 1,376 | 1,506 | 1,595 | 1,595 | 1,595 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 | 1,597 |
| 2008-1                | 526                                                                                            | 1,068 | 1,138 | 1,175 | 1,211 | 1,211 | 1,213 | 1,213 | 1,213 | 1,213 | 1,213 | 1,213 | 1,213 | 1,213 | 1,213 | 1,213 |
| 2008-2                | 532                                                                                            | 1,347 | 1,534 | 1,572 | 1,824 | 1,826 | 1,826 | 1,826 | 1,826 | 1,826 | 1,827 | 1,827 | 1,827 | 1,827 | 1,827 | 1,827 |
| 2009-1                | 262                                                                                            | 512   | 731   | 723   | 794   | 794   | 794   | 833   | 833   | 833   | 833   | 833   | 833   | 833   | 833   | 833   |
| 2009-2                | 286                                                                                            | 1,427 | 1,677 | 1,678 | 1,812 | 1,812 | 1,837 | 1,882 | 1,882 | 1,882 | 1,882 | 1,882 | 1,882 | 1,882 | 1,882 | 1,882 |
| 2010-1                | 324                                                                                            | 742   | 889   | 907   | 917   | 880   | 880   | 880   | 880   | 880   | 880   | 880   | 880   | 880   | 880   | 880   |
| 2010-2                | 354                                                                                            | 982   | 1,085 | 1,157 | 1,253 | 1,297 | 1,297 | 1,538 | 1,538 | 1,538 | 1,538 | 1,538 | 1,538 | 1,538 | 1,538 | 1,538 |
| 2011-1                | 418                                                                                            | 1,113 | 1,308 | 1,345 | 1,347 | 1,347 | 1,348 | 1,348 | 1,348 | 1,348 | 1,348 | 1,348 | 1,348 | 1,348 | 1,348 | 1,348 |
| 2011-2                | 316                                                                                            | 920   | 1,180 | 1,264 | 1,344 | 1,379 | 1,383 | 1,383 | 1,383 | 1,383 | 1,383 | 1,383 | 1,383 | 1,383 | 1,383 | 1,383 |
| 2012-1                | 450                                                                                            | 893   | 1,005 | 1,075 | 1,163 | 1,168 | 1,168 | 1,168 | 1,168 | 1,168 | 1,168 | 1,168 | 1,168 | 1,168 | 1,168 | 1,168 |
| 2012-2                | 423                                                                                            | 1,337 | 1,483 | 1,590 | 2,019 | 2,019 | 2,019 | 2,019 | 2,019 | 2,019 | 2,019 | 2,019 | 2,019 | 2,019 | 2,019 | 2,019 |
| 2013-1                | 162                                                                                            | 677   | 751   | 755   | 755   | 755   | 755   | 755   | 755   | 755   | 755   | 755   | 755   | 755   | 755   | 755   |
| 2013-2                | 319                                                                                            | 596   | 689   | 689   | 689   | 689   | 689   | 689   | 689   | 689   | 689   | 689   | 689   | 689   | 689   | 689   |
| 2014-1                | 304                                                                                            | 693   | 693   | 693   | 693   | 693   | 693   | 693   | 693   | 693   | 693   | 693   | 693   | 693   | 693   | 693   |
| 2014-2                | 297                                                                                            | 297   | 297   | 297   | 297   | 297   | 297   | 297   | 297   | 297   | 297   | 297   | 297   | 297   | 297   | 297   |

| Accident<br>Year | Portion of Ultimate Losses Paid by Month of Development |        |         |         |         |         |         |         |
|------------------|---------------------------------------------------------|--------|---------|---------|---------|---------|---------|---------|
|                  | 12                                                      | 24     | 36      | 48      | 60      | 72      | 84      | 96      |
| 2000             | 38.02%                                                  | 94.37% | 98.39%  | 99.30%  | 99.43%  | 99.52%  | 99.92%  | 100.09% |
| 2001             | 41.32%                                                  | 71.65% | 77.78%  | 79.39%  | 80.82%  | 81.73%  | 82.74%  | 83.74%  |
| 2002             | 50.94%                                                  | 89.92% | 94.93%  | 97.95%  | 98.18%  | 98.57%  | 99.22%  | 99.22%  |
| 2003             | 49.98%                                                  | 86.09% | 96.28%  | 98.22%  | 98.34%  | 98.37%  | 98.46%  | 100.00% |
| 2004             | 39.44%                                                  | 81.41% | 98.54%  | 99.92%  | 99.92%  | 100.00% | 100.00% | 100.00% |
| 2005             | 45.24%                                                  | 79.78% | 85.72%  | 88.11%  | 88.30%  | 88.30%  | 88.30%  | 99.91%  |
| 2006             | 53.05%                                                  | 95.23% | 100.21% | 100.21% | 100.21% | 100.21% | 100.21% | 100.21% |
| 2007             | 50.91%                                                  | 87.51% | 98.97%  | 99.62%  | 99.67%  | 99.67%  | 99.67%  | 99.67%  |
| 2008             | 52.24%                                                  | 88.42% | 99.09%  | 99.22%  | 99.22%  | 99.24%  | 99.24%  | 99.24%  |
| 2009             | 29.07%                                                  | 87.47% | 94.97%  | 97.31%  | 98.95%  | 99.31%  | 99.31%  | 99.31%  |
| 2010             | 45.06%                                                  | 81.87% | 87.73%  | 94.2%   | 99.43%  | 99.43%  | 99.43%  | 99.43%  |
| 2011             | 52.29%                                                  | 92.40% | 98.50%  | 99.96%  | 99.96%  | 99.96%  | 99.96%  | 99.96%  |
| 2012             | 39.87%                                                  | 77.52% | 96.59%  | 99.96%  | 99.96%  | 99.96%  | 99.96%  | 99.96%  |
| 2013             | 40.39%                                                  | 58.51% | 96.59%  | 99.96%  | 99.96%  | 99.96%  | 99.96%  | 99.96%  |
| 2014             | 39.73%                                                  | 58.51% | 96.59%  | 99.96%  | 99.96%  | 99.96%  | 99.96%  | 99.96%  |

| Arithmetic Averages | Cumulative Paid Losses |        |        |        |        |        |        |        |
|---------------------|------------------------|--------|--------|--------|--------|--------|--------|--------|
|                     | 12                     | 24     | 36     | 48     | 60     | 72     | 84     | 96     |
| All Years           | 44.50%                 | 83.73% | 94.44% | 96.55% | 96.59% | 96.49% | 96.42% | 97.86% |
| 10 Year             | 44.79%                 | 83.01% | 95.66% | 97.99% | 96.30% | 96.49% | 96.49% | 97.86% |
| 8 Year              | 43.69%                 | 83.62% | 95.22% | 97.97% | 98.00% | 97.96% | 95.98% | 97.86% |
| 6 Year              | 41.07%                 | 81.03% | 95.97% | 99.29% | 97.63% | 97.79% | 97.65% | 99.84% |
| 4 Year              | 43.07%                 | 77.58% | 94.45% | 98.98% | 99.32% | 99.61% | 96.85% | 99.95% |
| 3 Year              | 39.99%                 | 76.14% | 94.27% | 98.89% | 99.20% | 99.41% | 99.71% | 99.93% |
| All Year ex h/i/o   | 45.03%                 | 84.87% | 95.43% | 97.90% | 97.94% | 97.87% | 97.83% | 99.82% |
| 6 Year ex h/i/o     | 41.26%                 | 83.82% | 97.26% | 99.55% | 99.32% | 99.56% | 99.34% | 99.90% |

| \$ Weighted Averages | Cumulative Paid Losses |        |        |        |        |        |        |        |
|----------------------|------------------------|--------|--------|--------|--------|--------|--------|--------|
|                      | 12                     | 24     | 36     | 48     | 60     | 72     | 84     | 96     |
| All Years            | 44.44%                 | 83.88% | 94.44% | 96.41% | 96.43% | 96.36% | 96.27% | 97.94% |
| 10 Year              | 44.85%                 | 83.13% | 95.56% | 97.75% | 96.09% | 96.36% | 96.36% | 97.94% |
| 8 Year               | 43.74%                 | 83.87% | 95.12% | 97.68% | 97.71% | 97.68% | 95.77% | 97.94% |
| 6 Year               | 40.97%                 | 81.41% | 96.18% | 99.28% | 97.25% | 97.45% | 97.30% | 99.85% |
| 4 Year               | 43.04%                 | 77.92% | 94.74% | 98.97% | 99.31% | 99.60% | 96.42% | 99.95% |
| 3 Year               | 39.98%                 | 76.78% | 94.66% | 98.87% | 99.19% | 99.40% | 99.69% | 99.94% |

| Selected Pay Pattern | 39.98% | 76.78% | 94.66% | 98.87% | 99.19% | 99.40% | 99.69% | 99.94% |
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|
|----------------------|--------|--------|--------|--------|--------|--------|--------|--------|

| Incremental | 39.98% | 36.80% | 17.87% | 4.21% | 0.32% | 0.21% | 0.30% | 0.24% |
|-------------|--------|--------|--------|-------|-------|-------|-------|-------|
|-------------|--------|--------|--------|-------|-------|-------|-------|-------|

| Year               | 1      | 2      | 3      | 4     | 5     | 6     | 7     | 8     | 9     | 10     | 11    | 12     | 13    | 14     | 15    | To Ult |
|--------------------|--------|--------|--------|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|--------|-------|--------|
| Annual Pay Pattern | 39.98% | 36.80% | 17.87% | 4.21% | 0.32% | 0.21% | 0.30% | 0.24% | 0.11% | -0.07% | 0.02% | -4.12% | 0.66% | -1.02% | 4.49% | 0.00%  |

Discounted Value at 1.5%: 0.9778

Data Source: AU20112ALB

Province of Alberta  
Alberta Automobile Insurance Rate Board  
2015 Private Passenger Industry-Wide Review

**AB DB**

| Accident<br>Half Year  | Paid Losses and Allocated Loss Adjustment Expenses - Data as of 12/31/2014 (Losses in \$ 000s) |       |         |       |         |       |         |       |         |       |         |       |         |       | Selected<br>Ultimate |
|------------------------|------------------------------------------------------------------------------------------------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|---------|-------|----------------------|
|                        | 102                                                                                            | 108   | 114     | 120   | 126     | 132   | 138     | 144   | 150     | 156   | 162     | 168   | 174     | 180   |                      |
| 2000-1                 | 1,211                                                                                          | 1,211 | 1,211   | 1,211 | 1,211   | 1,211 | 1,211   | 1,211 | 1,211   | 1,211 | 1,211   | 1,211 | 1,211   | 1,211 | 1,211                |
| 2000-2                 | 1,924                                                                                          | 1,924 | 1,924   | 1,924 | 1,924   | 1,924 | 1,924   | 1,924 | 1,924   | 1,924 | 1,924   | 1,924 | 1,924   | 1,924 | 1,924                |
| 2001-1                 | 1,258                                                                                          | 1,273 | 1,287   | 1,300 | 1,316   | 1,332 | 1,347   | 1,361 | 1,378   | 1,392 | 1,407   | 1,423 |         |       | 1,686                |
| 2001-2                 | 1,037                                                                                          | 1,037 | 1,037   | 1,037 | 1,037   | 1,037 | 1,037   | 1,037 | 1,037   | 1,037 | 1,037   |       |         |       | 1,037                |
| 2002-1                 | 1,202                                                                                          | 1,202 | 1,202   | 1,202 | 1,202   | 1,202 | 1,202   | 1,202 | 1,202   | 1,202 | 1,202   |       |         |       | 1,202                |
| 2002-2                 | 1,423                                                                                          | 1,423 | 1,423   | 1,423 | 1,423   | 1,423 | 1,423   | 1,423 | 1,423   | 1,423 |         |       |         |       | 1,423                |
| 2003-1                 | 1,092                                                                                          | 1,092 | 1,092   | 1,092 | 1,092   | 1,092 | 1,092   | 1,092 |         |       |         |       |         |       | 1,092                |
| 2003-2                 | 1,442                                                                                          | 1,442 | 1,442   | 1,442 | 1,442   | 1,442 | 1,442   |       |         |       |         |       |         |       | 1,442                |
| 2004-1                 | 922                                                                                            | 922   | 922     | 922   | 922     |       |         |       |         |       |         |       |         |       | 922                  |
| 2004-2                 | 1,871                                                                                          | 1,871 | 1,871   | 1,871 | 1,871   |       |         |       |         |       |         |       |         |       | 1,871                |
| 2005-1                 | 1,299                                                                                          | 1,299 | 1,299   | 1,299 |         |       |         |       |         |       |         |       |         |       | 1,299                |
| 2005-2                 | 2,108                                                                                          | 2,108 | 2,108   |       |         |       |         |       |         |       |         |       |         |       | 2,110                |
| 2006-1                 | 1,638                                                                                          | 1,638 |         |       |         |       |         |       |         |       |         |       |         |       | 1,632                |
| 2006-2                 | 1,161                                                                                          |       |         |       |         |       |         |       |         |       |         |       |         |       | 1,161                |
| 2007-1                 |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       | 1,002                |
| 2007-2                 |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       | 1,601                |
| 2008-1                 |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       | 1,216                |
| 2008-2                 |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       | 1,847                |
| 2009-1                 |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       | 835                  |
| 2009-2                 |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       | 1,909                |
| 2010-1                 |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       | 884                  |
| 2010-2                 |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       | 1,548                |
| 2011-1                 |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       | 1,343                |
| 2011-2                 |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       | 1,389                |
| 2012-1                 |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       | 1,246                |
| 2012-2                 |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       | 2,054                |
| 2013-1                 |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       | 884                  |
| 2013-2                 |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       | 1,584                |
| 2014-1                 |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       | 1,017                |
| 2014-2                 |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       | 1,473                |
| Accident<br>Year       | Portion of Ultimate Losses Paid by Month of Development                                        |       |         |       |         |       |         |       |         |       |         |       |         |       | Selected<br>Ultimate |
|                        | 108                                                                                            |       | 120     |       | 132     |       | 144     |       | 156     |       | 168     |       | 180     |       |                      |
| 2000                   | 100.00%                                                                                        |       | 100.00% |       | 100.00% |       | 100.00% |       | 100.00% |       | 100.00% |       | 100.00% |       | 3,136                |
| 2001                   | 84.81%                                                                                         |       | 85.83%  |       | 86.99%  |       | 88.06%  |       | 89.21%  |       | 90.35%  |       |         |       | 2,723                |
| 2002                   | 100.00%                                                                                        |       | 100.00% |       | 100.00% |       | 100.00% |       | 100.00% |       |         |       |         |       | 2,625                |
| 2003                   | 100.00%                                                                                        |       | 100.00% |       | 100.00% |       | 100.00% |       |         |       |         |       |         |       | 2,535                |
| 2004                   | 100.00%                                                                                        |       | 100.00% |       | 100.00% |       |         |       |         |       |         |       |         |       | 2,793                |
| 2005                   | 99.94%                                                                                         |       | 99.94%  |       |         |       |         |       |         |       |         |       |         |       | 3,409                |
| 2006                   | 100.21%                                                                                        |       |         |       |         |       |         |       |         |       |         |       |         |       | 2,793                |
| 2007                   |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       | 2,603                |
| 2008                   |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       | 3,064                |
| 2009                   |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       | 2,744                |
| 2010                   |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       | 2,432                |
| 2011                   |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       | 2,732                |
| 2012                   |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       | 3,300                |
| 2013                   |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       | 2,468                |
| 2014                   |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       | 2,490                |
| Cumulative Paid Losses |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       |                      |
| Arithmetic Averages    | 108                                                                                            |       | 120     |       | 132     |       | 144     |       | 156     |       | 168     |       | 180     |       | Ultimate             |
| All Years              | 97.85%                                                                                         |       | 97.63%  |       | 97.40%  |       | 97.02%  |       | 96.40%  |       | 95.17%  |       | 100.00% |       | 100.00%              |
| 10 Year                |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       |                      |
| 8 Year                 |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       |                      |
| 6 Year                 | 97.49%                                                                                         |       | 97.63%  |       |         |       |         |       |         |       |         |       |         |       |                      |
| 4 Year                 | 100.04%                                                                                        |       | 99.99%  |       | 96.75%  |       | 97.02%  |       |         |       |         |       |         |       |                      |
| 3 Year                 | 100.05%                                                                                        |       | 99.98%  |       | 100.00% |       | 96.02%  |       | 96.40%  |       |         |       |         |       |                      |
| All Year ex hi/lo      | 99.99%                                                                                         |       | 99.99%  |       | 100.00% |       | 100.00% |       | 100.00% |       |         |       |         |       |                      |
| 6 Year ex hi/lo        | 99.99%                                                                                         |       | 99.99%  |       |         |       |         |       |         |       |         |       |         |       |                      |
| \$ Weighted Averages   |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       |                      |
| All Years              | 97.95%                                                                                         |       | 97.75%  |       | 97.44%  |       | 97.05%  |       | 96.54%  |       | 95.51%  |       | 100.00% |       | 100.00%              |
| 10 Year                |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       |                      |
| 8 Year                 |                                                                                                |       |         |       |         |       |         |       |         |       |         |       |         |       |                      |
| 6 Year                 | 97.57%                                                                                         |       | 97.75%  |       |         |       |         |       |         |       |         |       |         |       |                      |
| 4 Year                 | 100.03%                                                                                        |       | 99.98%  |       | 96.68%  |       | 97.05%  |       |         |       |         |       |         |       |                      |
| 3 Year                 | 100.04%                                                                                        |       | 99.98%  |       | 100.00% |       | 95.88%  |       | 96.54%  |       |         |       |         |       |                      |
| Selected Pay Pattern   | 100.04%                                                                                        |       | 99.98%  |       | 100.00% |       | 95.88%  |       | 96.54%  |       | 95.51%  |       | 100.00% |       | 100.00%              |
| Incremental            | 0.11%                                                                                          |       | -0.07%  |       | 0.02%   |       | -4.12%  |       | 0.66%   |       | -1.02%  |       | 4.49%   |       | 0.00%                |









Province of Alberta  
Alberta Automobile Insurance Rate Board  
2015 Private Passenger Optional Coverage Review

**Collision**

| Accident<br>Half Year | Paid Losses and Allocated Loss Adjustment Expenses - Data as of 12/31/2014 (Losses in \$ 000s) |         |         |         |         |         |         |        |         |        |         |        |         | Selected<br>Ultimate |                      |
|-----------------------|------------------------------------------------------------------------------------------------|---------|---------|---------|---------|---------|---------|--------|---------|--------|---------|--------|---------|----------------------|----------------------|
|                       | 102                                                                                            | 108     | 114     | 120     | 126     | 132     | 138     | 144    | 150     | 156    | 162     | 168    | 174     | 180                  |                      |
| 2000-1                | 69,696                                                                                         | 69,692  | 69,687  | 69,681  | 69,670  | 69,669  | 69,668  | 69,666 | 69,665  | 69,665 | 69,664  | 69,664 | 69,663  | 69,662               | 69,662               |
| 2000-2                | 83,292                                                                                         | 83,272  | 83,270  | 83,264  | 83,256  | 83,251  | 83,246  | 83,244 | 83,242  | 83,241 | 83,241  | 83,240 | 83,238  |                      | 83,238               |
| 2001-1                | 72,592                                                                                         | 72,594  | 72,600  | 72,598  | 72,597  | 72,595  | 72,593  | 72,590 | 72,581  | 72,581 | 72,579  | 72,575 |         |                      | 72,578               |
| 2001-2                | 91,000                                                                                         | 90,989  | 90,996  | 90,990  | 90,972  | 90,968  | 90,966  | 90,952 | 90,951  | 90,950 | 90,950  |        |         |                      | 90,963               |
| 2002-1                | 96,024                                                                                         | 96,015  | 96,016  | 96,058  | 96,059  | 96,056  | 96,051  | 96,050 | 96,057  | 96,057 |         |        |         |                      | 96,063               |
| 2002-2                | 96,410                                                                                         | 96,405  | 96,397  | 96,384  | 96,381  | 96,370  | 96,373  |        | 96,365  |        |         |        |         |                      | 96,376               |
| 2003-1                | 95,004                                                                                         | 95,001  | 94,981  | 94,977  | 94,972  | 94,963  | 94,958  | 94,954 |         |        |         |        |         |                      | 94,962               |
| 2003-2                | 87,475                                                                                         | 87,462  | 87,454  | 87,449  | 87,445  | 87,431  | 87,429  |        |         |        |         |        |         |                      | 87,438               |
| 2004-1                | 88,345                                                                                         | 88,339  | 88,331  | 88,328  | 88,321  | 88,305  |         |        |         |        |         |        |         |                      | 88,302               |
| 2004-2                | 97,232                                                                                         | 97,218  | 97,216  | 97,217  | 97,223  |         |         |        |         |        |         |        |         |                      | 97,200               |
| 2005-1                | 98,130                                                                                         | 98,130  | 98,125  | 98,136  |         |         |         |        |         |        |         |        |         |                      | 98,129               |
| 2005-2                | 118,400                                                                                        | 118,399 | 118,389 |         |         |         |         |        |         |        |         |        |         |                      | 118,381              |
| 2006-1                | 120,900                                                                                        | 120,871 |         |         |         |         |         |        |         |        |         |        |         |                      | 120,840              |
| 2006-2                | 166,754                                                                                        |         |         |         |         |         |         |        |         |        |         |        |         |                      | 166,689              |
| 2007-1                |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      | 166,248              |
| 2007-2                |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      | 188,015              |
| 2008-1                |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      | 181,728              |
| 2008-2                |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      | 195,268              |
| 2009-1                |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      | 170,309              |
| 2009-2                |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      | 188,463              |
| 2010-1                |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      | 144,754              |
| 2010-2                |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      | 176,496              |
| 2011-1                |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      | 184,452              |
| 2011-2                |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      | 170,589              |
| 2012-1                |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      | 162,636              |
| 2012-2                |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      | 207,557              |
| 2013-1                |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      | 183,818              |
| 2013-2                |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      | 233,178              |
| 2014-1                |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      | 206,869              |
| 2014-2                |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      | 239,903              |
| Accident<br>Year      | Portion of Ultimate Losses Paid by Month of Development                                        |         |         |         |         |         |         |        |         |        |         |        |         |                      | Selected<br>Ultimate |
|                       | 108                                                                                            | 120     | 132     | 144     | 156     | 168     | 180     |        |         |        |         |        |         |                      |                      |
| 2000                  | 100.06%                                                                                        | 100.03% | 100.02% | 100.01% | 100.01% | 100.00% | 100.00% |        |         |        |         |        |         |                      | 152,899              |
| 2001                  | 100.03%                                                                                        | 100.03% | 100.02% | 100.01% | 99.99%  | 99.99%  |         |        |         |        |         |        |         |                      | 163,542              |
| 2002                  | 99.99%                                                                                         | 100.01% | 100.00% | 99.99%  | 99.99%  |         |         |        |         |        |         |        |         |                      | 192,439              |
| 2003                  | 100.04%                                                                                        | 100.02% | 100.00% | 99.99%  |         |         |         |        |         |        |         |        |         |                      | 182,400              |
| 2004                  | 100.04%                                                                                        | 100.02% | 100.01% |         |         |         |         |        |         |        |         |        |         |                      | 185,502              |
| 2005                  | 100.01%                                                                                        | 100.01% |         |         |         |         |         |        |         |        |         |        |         |                      | 216,509              |
| 2006                  | 100.03%                                                                                        |         |         |         |         |         |         |        |         |        |         |        |         |                      | 287,529              |
| 2007                  |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      | 354,263              |
| 2008                  |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      | 376,996              |
| 2009                  |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      | 358,772              |
| 2010                  |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      | 321,250              |
| 2011                  |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      | 355,041              |
| 2012                  |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      | 370,193              |
| 2013                  |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      | 416,996              |
| 2014                  |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      | 446,772              |
| Arithmetic Averages   | Cumulative Paid Losses                                                                         |         |         |         |         |         |         |        |         |        |         |        |         |                      | Ultimate             |
|                       | 108                                                                                            | 120     | 132     | 144     | 156     | 168     | 180     |        |         |        |         |        |         |                      |                      |
| All Years             | 100.03%                                                                                        | 100.02% | 100.01% | 100.00% | 100.00% | 100.00% | 100.00% |        |         |        |         |        |         |                      | 100.00%              |
| 10 Year               |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      |                      |
| 8 Year                |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      |                      |
| 6 Year                | 100.02%                                                                                        | 100.02% |         |         |         |         |         |        |         |        |         |        |         |                      |                      |
| 4 Year                | 100.03%                                                                                        | 100.01% | 100.01% | 100.00% |         |         |         |        |         |        |         |        |         |                      |                      |
| 3 Year                | 100.03%                                                                                        | 100.02% | 100.01% | 100.00% | 100.00% |         |         |        |         |        |         |        |         |                      |                      |
| All Year ex hi/lo     | 100.03%                                                                                        | 100.02% | 100.01% | 100.00% | 99.99%  |         |         |        |         |        |         |        |         |                      |                      |
| 6 Year ex hi/lo       | 100.03%                                                                                        | 100.02% |         |         |         |         |         |        |         |        |         |        |         |                      |                      |
| \$ Weighted Averages  |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      |                      |
|                       | 108                                                                                            | 120     | 132     | 144     | 156     | 168     | 180     |        |         |        |         |        |         |                      |                      |
| All Years             | 100.03%                                                                                        | 100.02% | 100.01% | 100.00% | 100.00% | 100.00% | 100.00% |        |         |        |         |        |         |                      | 100.00%              |
| 10 Year               |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      |                      |
| 8 Year                |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      |                      |
| 6 Year                | 100.02%                                                                                        | 100.02% |         |         |         |         |         |        |         |        |         |        |         |                      |                      |
| 4 Year                | 100.03%                                                                                        | 100.01% | 100.01% | 100.00% |         |         |         |        |         |        |         |        |         |                      |                      |
| 3 Year                | 100.03%                                                                                        | 100.02% | 100.01% | 100.00% | 100.00% |         |         |        |         |        |         |        |         |                      |                      |
| Selected Pay Pattern  |                                                                                                |         |         |         |         |         |         |        |         |        |         |        |         |                      |                      |
|                       | 100.03%                                                                                        |         | 100.02% |         | 100.01% |         | 100.00% |        | 100.00% |        | 100.00% |        | 100.00% |                      | 100.00%              |
| Incremental           | 0.01%                                                                                          |         | -0.01%  |         | -0.01%  |         | -0.01%  |        | 0.00%   |        | 0.00%   |        | 0.00%   |                      | 0.00%                |















# 16

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## Appendix B

**Exhibit 1:** Measured trend results for various time periods; with time and seasonality parameters for all coverages except Collision, and with level change parameter for Bodily Injury only.

**Exhibit 2:** Illustrative graphs and statistical results. Time periods selected to approximate selected trends.

PRELIMINARY

**Third Party Liability - Bodily Injury  
With Seasonality**

No Exclusions

|               | Loss Cost |        |             |                  |                         | Severity |        |             |                  |                         | Frequency |        |             |                  |                         |
|---------------|-----------|--------|-------------|------------------|-------------------------|----------|--------|-------------|------------------|-------------------------|-----------|--------|-------------|------------------|-------------------------|
|               | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Trend    | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic |
| 2005.1-2014.2 | +2.5%     | 0.75   | 29.06       | 4.56             | 5.69                    | +5.7%    | 0.88   | 72.74       | 11.30            | 3.22                    | - 3.1%    | 0.73   | 26.51       | -6.79            | 3.20                    |
| 2006.1-2014.2 | +3.0%     | 0.79   | 32.51       | 4.86             | 5.93                    | +5.8%    | 0.87   | 56.54       | 9.67             | 3.46                    | - 2.7%    | 0.64   | 15.83       | -5.06            | 2.94                    |
| 2007.1-2014.2 | +3.6%     | 0.81   | 32.08       | 5.02             | 5.66                    | +5.5%    | 0.82   | 34.35       | 7.28             | 3.15                    | - 1.7%    | 0.58   | 11.23       | -3.57            | 3.48                    |
| 2008.1-2014.2 | +4.2%     | 0.79   | 26.04       | 4.52             | 5.02                    | +5.3%    | 0.75   | 20.28       | 5.48             | 2.53                    | - 1.1%    | 0.57   | 9.65        | -2.14            | 4.07                    |
| 2009.1-2014.2 | +5.7%     | 0.89   | 47.42       | 6.33             | 6.41                    | +6.7%    | 0.80   | 22.49       | 5.81             | 2.47                    | - 1.0%    | 0.62   | 10.07       | -1.50            | 4.40                    |
| 2010.1-2014.2 | +7.2%     | 0.92   | 56.34       | 6.93             | 6.72                    | +8.4%    | 0.83   | 23.36       | 5.90             | 2.37                    | - 1.2%    | 0.56   | 6.71        | -1.23            | 3.61                    |
| 2011.1-2014.2 | +6.6%     | 0.90   | 32.35       | 4.56             | 5.47                    | +8.0%    | 0.69   | 8.94        | 3.41             | 1.70                    | - 1.3%    | 0.39   | 3.28        | -0.84            | 2.54                    |
| 2011.2-2014.2 | +5.4%     | 0.86   | 19.35       | 3.39             | 5.21                    | +4.7%    | 0.82   | 15.14       | 4.81             | 2.68                    | +0.7%     | 0.84   | 16.80       | 0.71             | 5.75                    |
| 2012.1-2014.2 | +4.2%     | 0.87   | 17.46       | 1.92             | 4.78                    | +5.0%    | 0.80   | 10.76       | 3.45             | 1.96                    | - 0.7%    | 0.95   | 52.86       | -1.00            | 10.08                   |

|               | Loss Cost |        |             |                  |                         | Severity |        |             |                  |                         | Frequency |        |             |                  |                         |
|---------------|-----------|--------|-------------|------------------|-------------------------|----------|--------|-------------|------------------|-------------------------|-----------|--------|-------------|------------------|-------------------------|
|               | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Trend    | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic |
| 2004.2-2014.1 | +1.7%     | 0.65   | 18.84       | 3.05             | 5.57                    | +5.2%    | 0.82   | 44.62       | 9.13             | 3.23                    | - 3.4%    | 0.80   | 40.04       | -8.10            | 3.08                    |
| 2005.2-2014.1 | +2.5%     | 0.75   | 25.85       | 4.42             | 6.07                    | +6.0%    | 0.85   | 50.36       | 9.78             | 3.20                    | - 3.2%    | 0.75   | 26.67       | -6.36            | 2.96                    |
| 2006.2-2014.1 | +2.9%     | 0.74   | 22.34       | 4.09             | 5.70                    | +5.6%    | 0.79   | 29.43       | 7.37             | 2.92                    | - 2.5%    | 0.69   | 18.00       | -4.63            | 3.29                    |
| 2007.2-2014.1 | +3.4%     | 0.72   | 17.90       | 3.80             | 5.05                    | +5.1%    | 0.69   | 15.38       | 5.21             | 2.53                    | - 1.6%    | 0.68   | 15.02       | -3.10            | 4.10                    |
| 2008.2-2014.1 | +4.9%     | 0.84   | 29.07       | 5.22             | 6.25                    | +6.0%    | 0.69   | 13.35       | 4.78             | 2.63                    | - 1.0%    | 0.63   | 10.42       | -1.58            | 4.01                    |
| 2009.2-2014.1 | +6.4%     | 0.87   | 30.10       | 5.49             | 6.35                    | +7.9%    | 0.76   | 14.90       | 5.14             | 2.72                    | - 1.4%    | 0.61   | 8.16        | -1.58            | 3.39                    |
| 2010.2-2014.1 | +5.9%     | 0.84   | 19.52       | 4.12             | 5.48                    | +8.6%    | 0.65   | 7.58        | 3.73             | 1.89                    | - 2.5%    | 0.60   | 6.26        | -1.84            | 2.54                    |
| 2011.2-2014.1 | +3.8%     | 0.78   | 9.87        | 1.92             | 4.39                    | +3.4%    | 0.70   | 6.94        | 3.49             | 2.27                    | +0.4%     | 0.79   | 10.20       | 0.27             | 4.39                    |

**Third Party Liability - Bodily Injury**  
**With Seasonality and Level Change**

No Exclusions

|               | Loss Cost |        |             |                  |                         |                       |                             | Severity |        |             |                  |                         |                       |                             | Frequency |        |             |                  |                         |                       |                             |
|---------------|-----------|--------|-------------|------------------|-------------------------|-----------------------|-----------------------------|----------|--------|-------------|------------------|-------------------------|-----------------------|-----------------------------|-----------|--------|-------------|------------------|-------------------------|-----------------------|-----------------------------|
|               | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Change in Level Value | Change in Level T-Statistic | Trend    | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Change in Level Value | Change in Level T-Statistic | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Change in Level Value | Change in Level T-Statistic |
| 2005.1-2014.2 | +0.3%     | 0.84   | 35.51       | 0.46             | 7.05                    | 1.17                  | 3.43                        | +4.4%    | 0.90   | 57.57       | 5.27             | 3.35                    | 1.10                  | 1.94                        | -3.9%     | 0.74   | 18.70       | -4.90            | 3.17                    | 1.06                  | 1.23                        |
| 2006.1-2014.2 | +0.7%     | 0.86   | 34.48       | 0.77             | 7.00                    | 1.15                  | 2.83                        | +4.1%    | 0.89   | 46.08       | 4.00             | 3.65                    | 1.11                  | 1.96                        | -3.2%     | 0.62   | 10.32       | -3.23            | 2.84                    | 1.04                  | 0.68                        |
| 2007.1-2014.2 | +1.3%     | 0.85   | 28.81       | 1.06             | 6.24                    | 1.13                  | 2.14                        | +2.6%    | 0.88   | 36.38       | 2.22             | 3.65                    | 1.16                  | 2.70                        | -1.3%     | 0.55   | 7.18        | -1.31            | 3.41                    | 0.98                  | -0.54                       |
| 2008.1-2014.2 | +1.7%     | 0.82   | 21.21       | 0.98             | 5.29                    | 1.12                  | 1.69                        | +1.2%    | 0.87   | 30.49       | 0.89             | 3.30                    | 1.20                  | 3.41                        | +0.4%     | 0.65   | 9.21        | 0.46             | 4.66                    | 0.93                  | -1.92                       |
| 2009.1-2014.2 | +4.0%     | 0.90   | 32.94       | 2.39             | 6.38                    | 1.07                  | 1.12                        | +2.6%    | 0.89   | 29.31       | 1.62             | 3.03                    | 1.17                  | 2.83                        | +1.3%     | 0.80   | 15.56       | 1.47             | 6.27                    | 0.91                  | -2.98                       |
| 2010.1-2014.2 | +5.7%     | 0.93   | 39.07       | 3.44             | 6.61                    | 1.06                  | 1.10                        | +4.4%    | 0.93   | 43.01       | 3.04             | 3.27                    | 1.16                  | 3.41                        | +1.2%     | 0.76   | 10.74       | 1.08             | 5.25                    | 0.91                  | -2.66                       |
| 2011.1-2014.2 | +5.4%     | 0.92   | 26.20       | 3.39             | 5.21                    | 1.08                  | 1.39                        | +4.7%    | 0.96   | 60.51       | 4.81             | 2.68                    | 1.23                  | 6.05                        | +0.7%     | 0.83   | 12.49       | 0.71             | 5.75                    | 0.88                  | -3.73                       |
| 2011.2-2014.2 | +5.4%     | 0.86   | 19.35       | 3.39             | 5.21                    |                       |                             | +4.7%    | 0.82   | 15.14       | 4.81             | 2.68                    |                       |                             | +0.7%     | 0.84   | 16.80       | 0.71             | 5.75                    |                       |                             |
| 2012.1-2014.2 | +4.2%     | 0.87   | 17.46       | 1.92             | 4.78                    |                       |                             | +5.0%    | 0.80   | 10.76       | 3.45             | 1.96                    |                       |                             | -0.7%     | 0.95   | 52.86       | -1.00            | 10.08                   |                       |                             |

|               | Loss Cost |        |             |                  |                         |                       |                             | Severity |        |             |                  |                         |                       |                             | Frequency |        |             |                  |                         |                       |                             |
|---------------|-----------|--------|-------------|------------------|-------------------------|-----------------------|-----------------------------|----------|--------|-------------|------------------|-------------------------|-----------------------|-----------------------------|-----------|--------|-------------|------------------|-------------------------|-----------------------|-----------------------------|
|               | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Change in Level Value | Change in Level T-Statistic | Trend    | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Change in Level Value | Change in Level T-Statistic | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Change in Level Value | Change in Level T-Statistic |
| 2004.2-2014.1 | -0.5%     | 0.83   | 31.16       | -0.79            | 7.35                    | 1.19                  | 4.25                        | +3.7%    | 0.86   | 38.58       | 4.33             | 3.31                    | 1.13                  | 2.25                        | -4.0%     | 0.81   | 28.35       | -6.03            | 2.97                    | 1.06                  | 1.30                        |
| 2005.2-2014.1 | +0.4%     | 0.85   | 33.60       | 0.48             | 7.42                    | 1.15                  | 3.44                        | +4.6%    | 0.87   | 37.67       | 4.55             | 3.11                    | 1.09                  | 1.57                        | -4.1%     | 0.76   | 18.62       | -4.62            | 2.80                    | 1.06                  | 1.16                        |
| 2006.2-2014.1 | +0.3%     | 0.84   | 26.93       | 0.25             | 6.62                    | 1.16                  | 2.99                        | +3.2%    | 0.84   | 27.86       | 2.60             | 2.93                    | 1.14                  | 2.30                        | -2.8%     | 0.67   | 11.19       | -2.64            | 3.07                    | 1.02                  | 0.30                        |
| 2007.2-2014.1 | +0.2%     | 0.81   | 19.73       | 0.15             | 5.48                    | 1.16                  | 2.50                        | +0.7%    | 0.87   | 29.34       | 0.55             | 2.95                    | 1.22                  | 3.98                        | -0.5%     | 0.70   | 11.20       | -0.47            | 4.40                    | 0.95                  | -1.30                       |
| 2008.2-2014.1 | +2.2%     | 0.86   | 24.22       | 1.26             | 6.19                    | 1.11                  | 1.68                        | +0.7%    | 0.85   | 22.37       | 0.41             | 2.83                    | 1.22                  | 3.31                        | +1.5%     | 0.80   | 15.24       | 1.50             | 5.93                    | 0.91                  | -2.86                       |
| 2009.2-2014.1 | +4.2%     | 0.87   | 20.87       | 1.85             | 5.84                    | 1.07                  | 1.07                        | +2.7%    | 0.87   | 20.46       | 1.21             | 2.77                    | 1.18                  | 2.61                        | +1.5%     | 0.76   | 10.70       | 1.01             | 4.82                    | 0.91                  | -2.33                       |
| 2010.2-2014.1 | +3.8%     | 0.86   | 15.22       | 1.78             | 5.29                    | 1.07                  | 1.28                        | +3.4%    | 0.86   | 14.82       | 1.47             | 2.10                    | 1.18                  | 2.83                        | +0.4%     | 0.80   | 10.39       | 0.25             | 4.12                    | 0.91                  | -2.46                       |
| 2011.2-2014.1 | +3.8%     | 0.78   | 9.87        | 1.92             | 4.39                    |                       |                             | +3.4%    | 0.70   | 6.94        | 3.49             | 2.27                    |                       |                             | +0.4%     | 0.79   | 10.20       | 0.27             | 4.39                    |                       |                             |

**Third Party Liability - Property Damage**  
**With Seasonality**

No Exclusions

|               | Loss Cost |        |             |                  |                         | Severity |        |             |                  |                         | Frequency |        |             |                  |                         |
|---------------|-----------|--------|-------------|------------------|-------------------------|----------|--------|-------------|------------------|-------------------------|-----------|--------|-------------|------------------|-------------------------|
|               | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Trend    | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic |
| 2005.1-2014.2 | +3.5%     | 0.68   | 21.40       | 5.65             | 2.79                    | +2.2%    | 0.77   | 33.55       | 7.40             | 2.85                    | +1.2%     | 0.25   | 4.18        | 2.28             | 1.57                    |
| 2006.1-2014.2 | +2.4%     | 0.66   | 17.32       | 4.32             | 3.57                    | +2.0%    | 0.71   | 21.32       | 5.62             | 2.77                    | +0.4%     | 0.12   | 2.18        | 0.69             | 1.89                    |
| 2007.1-2014.2 | +1.6%     | 0.62   | 13.19       | 3.03             | 3.79                    | +1.6%    | 0.61   | 12.70       | 3.93             | 2.70                    | - 0.0%    | 0.01   | 1.11        | -0.04            | 1.49                    |
| 2008.1-2014.2 | +1.7%     | 0.56   | 9.20        | 2.49             | 3.16                    | +2.1%    | 0.68   | 14.52       | 4.54             | 2.31                    | - 0.4%    | 0.02   | 1.11        | -0.51            | 1.46                    |
| 2009.1-2014.2 | +2.3%     | 0.57   | 8.30        | 2.44             | 2.88                    | +3.0%    | 0.84   | 28.85       | 6.61             | 2.75                    | - 0.7%    | 0.00   | 1.03        | -0.70            | 1.34                    |
| 2010.1-2014.2 | +3.1%     | 0.58   | 7.16        | 2.41             | 2.45                    | +3.7%    | 0.88   | 32.57       | 6.94             | 2.86                    | - 0.6%    | -0.11  | 0.55        | -0.36            | 1.04                    |
| 2011.1-2014.2 | +2.4%     | 0.34   | 2.81        | 1.21             | 1.73                    | +3.3%    | 0.85   | 21.08       | 4.64             | 3.42                    | - 0.9%    | -0.33  | 0.13        | -0.36            | 0.43                    |
| 2011.2-2014.2 | +4.9%     | 0.77   | 11.07       | 3.17             | 3.48                    | +2.5%    | 0.83   | 15.51       | 4.10             | 3.77                    | +2.4%     | 0.55   | 4.62        | 1.86             | 2.40                    |
| 2012.1-2014.2 | +3.0%     | 0.86   | 16.30       | 1.81             | 4.65                    | +2.6%    | 0.80   | 11.24       | 2.76             | 2.88                    | +0.4%     | 0.88   | 19.89       | 0.46             | 5.88                    |

**Accident Benefits - All Medical/Rehab Expenses  
With Seasonality**

No Exclusions

|               | Loss Cost |        |             |                  |                         | Severity |        |             |                  |                         | Frequency |        |             |                  |                         |
|---------------|-----------|--------|-------------|------------------|-------------------------|----------|--------|-------------|------------------|-------------------------|-----------|--------|-------------|------------------|-------------------------|
|               | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Trend    | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic |
| 2005.1-2014.2 | +1.9%     | 0.88   | 68.67       | 6.48             | 9.16                    | +4.2%    | 0.79   | 36.74       | 7.90             | 2.62                    | - 2.2%    | 0.63   | 17.29       | -5.20            | 3.19                    |
| 2006.1-2014.2 | +2.4%     | 0.94   | 136.19      | 9.54             | 12.49                   | +4.7%    | 0.83   | 41.13       | 8.22             | 3.01                    | - 2.2%    | 0.56   | 11.92       | -4.29            | 2.74                    |
| 2007.1-2014.2 | +2.4%     | 0.93   | 100.55      | 7.76             | 10.96                   | +4.0%    | 0.77   | 26.04       | 6.22             | 2.97                    | - 1.5%    | 0.42   | 6.52        | -2.71            | 2.67                    |
| 2008.1-2014.2 | +2.3%     | 0.92   | 72.35       | 5.56             | 9.89                    | +2.8%    | 0.76   | 21.11       | 4.77             | 3.79                    | - 0.6%    | 0.40   | 5.28        | -1.02            | 3.19                    |
| 2009.1-2014.2 | +2.0%     | 0.90   | 47.98       | 3.72             | 8.43                    | +2.2%    | 0.73   | 15.81       | 3.65             | 3.70                    | - 0.1%    | 0.53   | 7.15        | -0.21            | 3.77                    |
| 2010.1-2014.2 | +1.5%     | 0.87   | 31.96       | 2.01             | 7.27                    | +1.8%    | 0.63   | 8.56        | 2.11             | 3.14                    | - 0.3%    | 0.44   | 4.54        | -0.30            | 3.01                    |
| 2011.1-2014.2 | +0.5%     | 0.88   | 25.52       | 0.43             | 6.87                    | +1.5%    | 0.73   | 10.32       | 1.38             | 3.92                    | - 1.1%    | 0.33   | 2.71        | -0.82            | 2.30                    |
| 2011.2-2014.2 | +0.8%     | 0.85   | 18.58       | 0.55             | 6.07                    | +0.2%    | 0.78   | 11.95       | 0.24             | 4.88                    | +0.6%     | 0.79   | 12.01       | 0.63             | 4.86                    |
| 2012.1-2014.2 | - 1.3%    | 0.95   | 49.42       | -1.07            | 9.76                    | - 0.3%   | 0.78   | 9.74        | -0.23            | 4.28                    | - 1.0%    | 1.00   | 892.77      | -6.58            | 41.84                   |

**Accident Benefits - All Disability Income**  
**With Seasonality**

No Exclusions

|               | Loss Cost |        |             |                  |                         | Severity |        |             |                  |                         | Frequency |        |             |                  |                         |
|---------------|-----------|--------|-------------|------------------|-------------------------|----------|--------|-------------|------------------|-------------------------|-----------|--------|-------------|------------------|-------------------------|
|               | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Trend    | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic |
| 2005.1-2014.2 | - 0.8%    | 0.62   | 16.71       | -1.11            | 5.75                    | +5.5%    | 0.66   | 19.58       | 5.76             | 1.93                    | - 5.9%    | 0.89   | 76.70       | -11.90           | 4.44                    |
| 2006.1-2014.2 | - 1.3%    | 0.65   | 16.64       | -1.60            | 5.67                    | +4.5%    | 0.57   | 12.24       | 4.22             | 2.17                    | - 5.6%    | 0.85   | 48.66       | -9.38            | 3.96                    |
| 2007.1-2014.2 | - 2.6%    | 0.77   | 25.80       | -3.28            | 6.71                    | +2.6%    | 0.52   | 9.09        | 2.68             | 3.01                    | - 5.1%    | 0.79   | 28.95       | -7.06            | 3.58                    |
| 2008.1-2014.2 | - 2.8%    | 0.72   | 18.08       | -2.60            | 5.70                    | +1.3%    | 0.42   | 5.65        | 1.25             | 2.94                    | - 4.0%    | 0.74   | 19.57       | -5.29            | 3.97                    |
| 2009.1-2014.2 | - 2.4%    | 0.65   | 11.31       | -1.62            | 4.66                    | +0.2%    | 0.31   | 3.47        | 0.18             | 2.57                    | - 2.6%    | 0.81   | 24.06       | -4.19            | 6.08                    |
| 2010.1-2014.2 | - 0.4%    | 0.76   | 14.92       | -0.26            | 5.42                    | +1.1%    | 0.49   | 5.24        | 0.70             | 2.99                    | - 1.5%    | 0.83   | 22.88       | -2.22            | 6.68                    |
| 2011.1-2014.2 | - 1.0%    | 0.69   | 8.64        | -0.42            | 4.13                    | +1.2%    | 0.30   | 2.50        | 0.52             | 2.01                    | - 2.2%    | 0.81   | 16.33       | -2.25            | 5.62                    |
| 2011.2-2014.2 | - 4.0%    | 0.84   | 17.19       | -2.24            | 5.42                    | - 1.9%   | 0.59   | 5.30        | -1.57            | 2.85                    | - 2.1%    | 0.80   | 12.87       | -1.63            | 4.80                    |
| 2012.1-2014.2 | - 6.6%    | 0.95   | 53.56       | -5.10            | 10.11                   | - 2.6%   | 0.54   | 3.95        | -1.56            | 2.69                    | - 4.0%    | 0.94   | 37.45       | -3.96            | 8.52                    |



**Collision**  
**No Seasonality**

No Exclusions

|               | Loss Cost |        |             |                  |                         | Severity |        |             |                  |                         | Frequency |        |             |                  |                         |
|---------------|-----------|--------|-------------|------------------|-------------------------|----------|--------|-------------|------------------|-------------------------|-----------|--------|-------------|------------------|-------------------------|
|               | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Trend    | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic |
| 2005.1-2014.2 | +2.2%     | 0.19   | 5.48        | 2.34             |                         | +5.1%    | 0.78   | 69.55       | 8.34             |                         | - 2.8%    | 0.43   | 15.54       | -3.94            |                         |
| 2006.1-2014.2 | +0.9%     | -0.01  | 0.85        | 0.92             |                         | +4.4%    | 0.71   | 41.74       | 6.46             |                         | - 3.4%    | 0.49   | 17.07       | -4.13            |                         |
| 2007.1-2014.2 | +0.3%     | -0.07  | 0.06        | 0.24             |                         | +3.2%    | 0.62   | 25.62       | 5.06             |                         | - 2.9%    | 0.35   | 9.16        | -3.03            |                         |
| 2008.1-2014.2 | +1.1%     | -0.03  | 0.64        | 0.80             |                         | +2.5%    | 0.49   | 13.55       | 3.68             |                         | - 1.4%    | 0.07   | 1.96        | -1.40            |                         |
| 2009.1-2014.2 | +2.9%     | 0.17   | 3.21        | 1.79             |                         | +3.6%    | 0.71   | 27.32       | 5.23             |                         | - 0.7%    | -0.07  | 0.27        | -0.52            |                         |
| 2010.1-2014.2 | +5.6%     | 0.45   | 8.41        | 2.90             |                         | +5.0%    | 0.83   | 43.47       | 6.59             |                         | +0.6%     | -0.11  | 0.09        | 0.31             |                         |
| 2011.1-2014.2 | +5.4%     | 0.28   | 3.69        | 1.92             |                         | +4.9%    | 0.69   | 16.54       | 4.07             |                         | +0.5%     | -0.16  | 0.03        | 0.18             |                         |
| 2011.2-2014.2 | +8.5%     | 0.52   | 7.53        | 2.74             |                         | +3.6%    | 0.54   | 7.98        | 2.82             |                         | +4.7%     | 0.45   | 5.84        | 2.42             |                         |
| 2012.1-2014.2 | +9.1%     | 0.41   | 4.41        | 2.10             |                         | +4.6%    | 0.58   | 7.97        | 2.82             |                         | +4.3%     | 0.23   | 2.51        | 1.59             |                         |

Province of Alberta  
Private Passenger Automobile (excl. Farmers)

**Third Party Liability - Bodily Injury**

| Accident<br>Period | Time | Seasonality | Earned<br>Exposures | Ultimate<br>Counts | Ultimate<br>Losses | ULAE<br>Adjustment | Ultimate<br>Losses & LAE | Ultimate<br>Loss Cost | Fitted<br>Loss Cost |
|--------------------|------|-------------|---------------------|--------------------|--------------------|--------------------|--------------------------|-----------------------|---------------------|
| 2011.2             | 24   | 1           | 1,178,668           | 6,855              | 303,111            | 1.095              | 331,755                  | 281.47                | 287.73              |
| 2012.1             | 25   | 0           | 1,172,340           | 6,495              | 285,808            | 1.091              | 311,873                  | 266.03                | 250.94              |
| 2012.2             | 26   | 1           | 1,224,777           | 7,486              | 336,301            | 1.091              | 366,972                  | 299.62                | 303.23              |
| 2013.1             | 27   | 0           | 1,215,606           | 6,491              | 283,768            | 1.099              | 311,993                  | 256.66                | 264.46              |
| 2013.2             | 28   | 1           | 1,274,980           | 7,802              | 371,722            | 1.099              | 408,696                  | 320.55                | 319.56              |
| 2014.1             | 29   | 0           | 1,261,700           | 6,746              | 312,664            | 1.093              | 341,773                  | 270.88                | 278.70              |
| 2014.2             | 30   | 1           | 1,285,927           | 7,905              | 408,590            | 1.093              | 446,630                  | 347.32                | 336.77              |

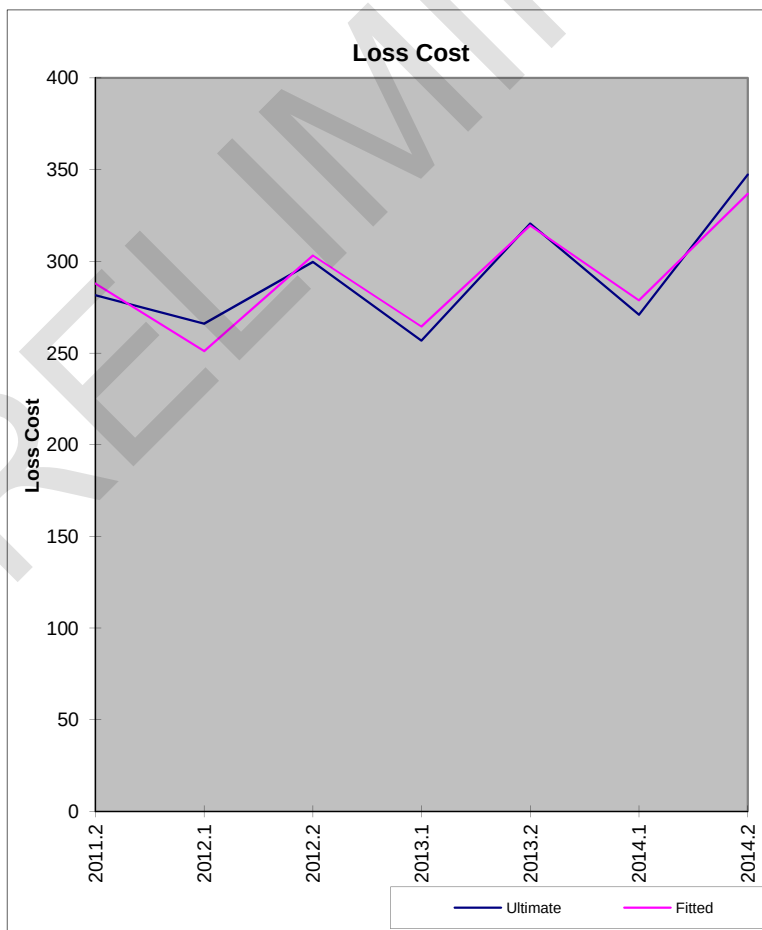
**Avg Annual Trend** 5.4%

Province of Alberta  
Private Passenger Automobile (excl. Farmers)

**Third Party Liability - Bodily Injury**

**Loss Cost**

|                                |                        |          |
|--------------------------------|------------------------|----------|
| <b>Regression Coefficients</b> | <b>Constant</b>        | 130.2551 |
|                                | <b>Time</b>            | 1.0266   |
|                                | <b>Seasonality</b>     | 1.1771   |
| <b>Regression Statistics</b>   | <b>Deg. of Freedom</b> | 4.0000   |
|                                | <b>F-Statistic</b>     | 19.3452  |
|                                | <b>R2</b>              | 0.9063   |
|                                | <b>SSReg</b>           | 0.0648   |
|                                | <b>SSResid</b>         | 0.0067   |
|                                | <b>Adjusted R2</b>     | 0.8595   |
| <b>p-Values</b>                | <b>Constant</b>        | 0.0000   |
|                                | <b>Time</b>            | 0.0275   |
|                                | <b>Seasonality</b>     | 0.0065   |
| <b>T-Statistics</b>            | <b>Constant</b>        | 23.1662  |
|                                | <b>Time</b>            | 3.3906   |
|                                | <b>Seasonality</b>     | 5.2148   |



Province of Alberta  
Private Passenger Automobile (excl. Farmers)

**Third Party Liability - Property Damage**

| Accident<br>Period | Time | Seasonality | Earned<br>Exposures | Ultimate<br>Counts | Ultimate<br>Losses | ULAE<br>Adjustment | Ultimate<br>Losses & LAE | Ultimate<br>Loss Cost | Fitted<br>Loss Cost |
|--------------------|------|-------------|---------------------|--------------------|--------------------|--------------------|--------------------------|-----------------------|---------------------|
| 2010.1             | 21   | 0           | 1,100,281           | 32,662             | 132,666            | 1.102              | 146,159                  | 132.84                | 138.58              |
| 2010.2             | 22   | 1           | 1,147,235           | 39,323             | 162,859            | 1.102              | 179,421                  | 156.39                | 153.99              |
| 2011.1             | 23   | 0           | 1,128,779           | 40,143             | 163,659            | 1.095              | 179,125                  | 158.69                | 142.92              |
| 2011.2             | 24   | 1           | 1,178,668           | 35,020             | 159,858            | 1.095              | 174,965                  | 148.44                | 158.82              |
| 2012.1             | 25   | 0           | 1,172,340           | 34,596             | 150,352            | 1.091              | 164,064                  | 139.95                | 147.41              |
| 2012.2             | 26   | 1           | 1,224,777           | 40,583             | 190,464            | 1.091              | 207,834                  | 169.69                | 163.80              |
| 2013.1             | 27   | 0           | 1,215,606           | 36,763             | 167,403            | 1.099              | 184,054                  | 151.41                | 152.03              |
| 2013.2             | 28   | 1           | 1,274,980           | 41,800             | 202,509            | 1.099              | 222,652                  | 174.63                | 168.94              |
| 2014.1             | 29   | 0           | 1,261,700           | 38,592             | 179,838            | 1.093              | 196,581                  | 155.81                | 156.80              |
| 2014.2             | 30   | 1           | 1,285,927           | 41,738             | 201,632            | 1.093              | 220,403                  | 171.40                | 174.24              |

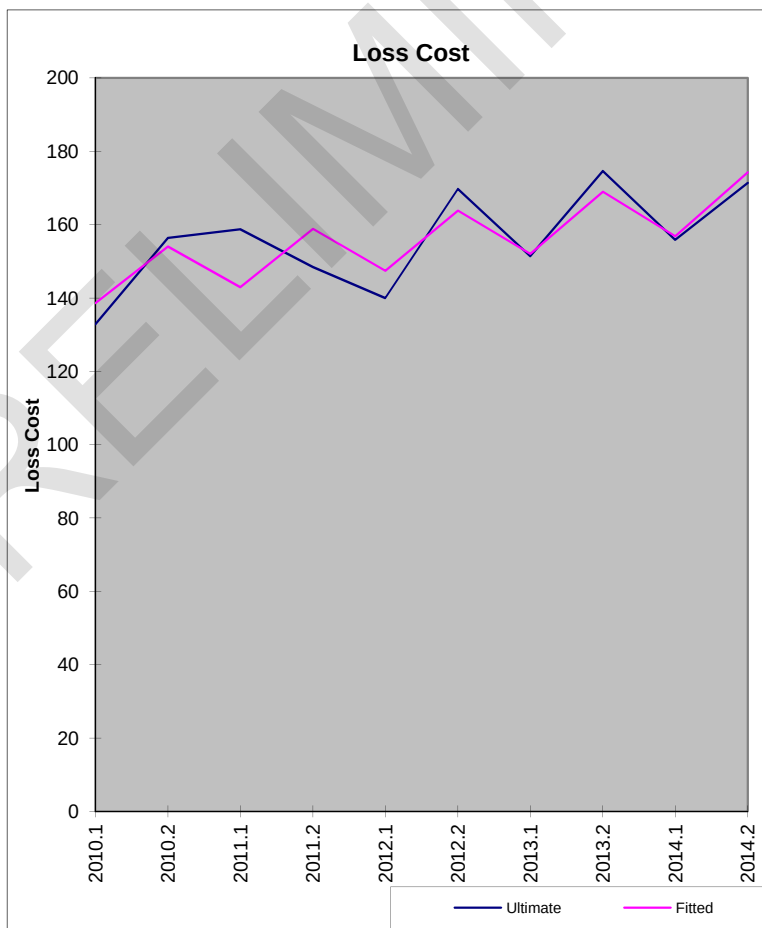
**Avg Annual Trend** 3.1%

Province of Alberta  
Private Passenger Automobile (excl. Farmers)

**Third Party Liability - Property Damage**

**Loss Cost**

|                                |                        |          |
|--------------------------------|------------------------|----------|
| <b>Regression Coefficients</b> | <b>Constant</b>        | 100.1962 |
|                                | <b>Time</b>            | 1.0156   |
|                                | <b>Seasonality</b>     | 1.0942   |
| <b>Regression Statistics</b>   | <b>Deg. of Freedom</b> | 7.0000   |
|                                | <b>F-Statistic</b>     | 7.1603   |
|                                | <b>R2</b>              | 0.6717   |
|                                | <b>SSReg</b>           | 0.0469   |
|                                | <b>SSResid</b>         | 0.0229   |
|                                | <b>Adjusted R2</b>     | 0.5779   |
| <b>p-Values</b>                | <b>Constant</b>        | 0.0000   |
|                                | <b>Time</b>            | 0.0465   |
|                                | <b>Seasonality</b>     | 0.0441   |
| <b>T-Statistics</b>            | <b>Constant</b>        | 28.4465  |
|                                | <b>Time</b>            | 2.4140   |
|                                | <b>Seasonality</b>     | 2.4496   |



Province of Alberta  
Private Passenger Automobile (excl. Farmers)

**Accident Benefits - All Medical/Rehab Expenses**

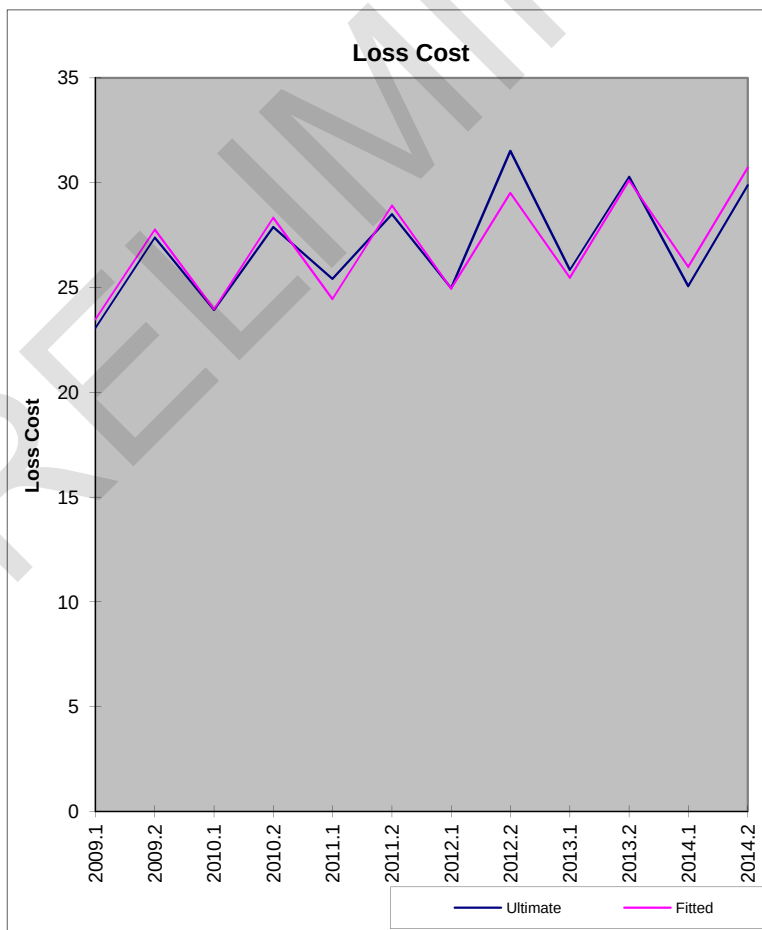
| Accident Period | Time | Seasonality | Earned Exposures | Ultimate Counts | Ultimate Losses | ULAE Adjustment | Ultimate Losses & LAE | Ultimate Loss Cost | Fitted Loss Cost |
|-----------------|------|-------------|------------------|-----------------|-----------------|-----------------|-----------------------|--------------------|------------------|
| 2009.1          | 19   | 0           | 1,080,603        | 9,425           | 22,542          | 1.105           | 24,911                | 23.05              | 23.48            |
| 2009.2          | 20   | 1           | 1,119,820        | 10,683          | 27,738          | 1.105           | 30,653                | 27.37              | 27.76            |
| 2010.1          | 21   | 0           | 1,100,479        | 9,256           | 23,908          | 1.102           | 26,339                | 23.93              | 23.96            |
| 2010.2          | 22   | 1           | 1,147,364        | 11,176          | 29,032          | 1.102           | 31,985                | 27.88              | 28.33            |
| 2011.1          | 23   | 0           | 1,128,484        | 10,782          | 26,203          | 1.095           | 28,680                | 25.41              | 24.44            |
| 2011.2          | 24   | 1           | 1,178,585        | 10,721          | 30,685          | 1.095           | 33,585                | 28.50              | 28.91            |
| 2012.1          | 25   | 0           | 1,172,586        | 10,271          | 26,827          | 1.091           | 29,273                | 24.96              | 24.94            |
| 2012.2          | 26   | 1           | 1,225,515        | 11,877          | 35,404          | 1.091           | 38,633                | 31.52              | 29.50            |
| 2013.1          | 27   | 0           | 1,216,308        | 10,499          | 28,578          | 1.099           | 31,421                | 25.83              | 25.45            |
| 2013.2          | 28   | 1           | 1,275,674        | 12,216          | 35,131          | 1.099           | 38,625                | 30.28              | 30.10            |
| 2014.1          | 29   | 0           | 1,262,385        | 10,863          | 28,939          | 1.093           | 31,633                | 25.06              | 25.97            |
| 2014.2          | 30   | 1           | 1,285,703        | 12,200          | 35,127          | 1.093           | 38,397                | 29.86              | 30.71            |

**Avg Annual Trend** 2.0%

Province of Alberta  
Private Passenger Automobile (excl. Farmers)

**Accident Benefits - All Medical/Rehab Expenses**

| Loss Cost               |                 |         |
|-------------------------|-----------------|---------|
| Regression Coefficients | Constant        | 19.3810 |
|                         | Time            | 1.0101  |
|                         | Seasonality     | 1.1707  |
| Regression Statistics   | Deg. of Freedom | 9.0000  |
|                         | F-Statistic     | 47.9785 |
|                         | R2              | 0.9143  |
|                         | SSReg           | 0.0986  |
|                         | SSResid         | 0.0093  |
| p-Values                | Constant        | 0.0000  |
|                         | Time            | 0.0047  |
|                         | Seasonality     | 0.0000  |
| T-Statistics            | Constant        | 44.6867 |
|                         | Time            | 3.7238  |
|                         | Seasonality     | 8.4255  |



Province of Alberta  
Private Passenger Automobile (excl. Farmers)

**Accident Benefits - All Disability Income**

| Accident<br>Period | Time | Seasonality | Earned<br>Exposures | Ultimate<br>Counts | Ultimate<br>Losses | ULAE<br>Adjustment | Ultimate<br>Losses & LAE | Ultimate<br>Loss Cost | Fitted<br>Loss Cost |
|--------------------|------|-------------|---------------------|--------------------|--------------------|--------------------|--------------------------|-----------------------|---------------------|
| 2007.1             | 15   | 0           | 1,001,483           | 1,497              | 9,068              | 1.089              | 9,874                    | 9.86                  | 10.14               |
| 2007.2             | 16   | 1           | 1,056,479           | 1,639              | 12,602             | 1.089              | 13,721                   | 12.99                 | 12.87               |
| 2008.1             | 17   | 0           | 1,053,269           | 1,439              | 9,615              | 1.084              | 10,419                   | 9.89                  | 9.87                |
| 2008.2             | 18   | 1           | 1,098,119           | 1,535              | 13,354             | 1.084              | 14,471                   | 13.18                 | 12.53               |
| 2009.1             | 19   | 0           | 1,080,603           | 1,245              | 10,749             | 1.105              | 11,878                   | 10.99                 | 9.61                |
| 2009.2             | 20   | 1           | 1,119,820           | 1,434              | 12,079             | 1.105              | 13,349                   | 11.92                 | 12.20               |
| 2010.1             | 21   | 0           | 1,100,479           | 1,122              | 8,194              | 1.102              | 9,027                    | 8.20                  | 9.35                |
| 2010.2             | 22   | 1           | 1,147,364           | 1,336              | 12,222             | 1.102              | 13,465                   | 11.74                 | 11.88               |
| 2011.1             | 23   | 0           | 1,128,484           | 1,181              | 8,292              | 1.095              | 9,075                    | 8.04                  | 9.11                |
| 2011.2             | 24   | 1           | 1,178,585           | 1,328              | 11,964             | 1.095              | 13,095                   | 11.11                 | 11.57               |
| 2012.1             | 25   | 0           | 1,172,586           | 1,196              | 10,567             | 1.091              | 11,531                   | 9.83                  | 8.87                |
| 2012.2             | 26   | 1           | 1,225,515           | 1,476              | 13,062             | 1.091              | 14,253                   | 11.63                 | 11.26               |
| 2013.1             | 27   | 0           | 1,216,308           | 1,239              | 10,164             | 1.099              | 11,175                   | 9.19                  | 8.63                |
| 2013.2             | 28   | 1           | 1,275,674           | 1,429              | 12,639             | 1.099              | 13,896                   | 10.89                 | 10.96               |
| 2014.1             | 29   | 0           | 1,262,385           | 1,207              | 9,524              | 1.093              | 10,410                   | 8.25                  | 8.41                |
| 2014.2             | 30   | 1           | 1,285,703           | 1,401              | 12,439             | 1.093              | 13,597                   | 10.58                 | 10.67               |

**Avg Annual Trend** -2.6%

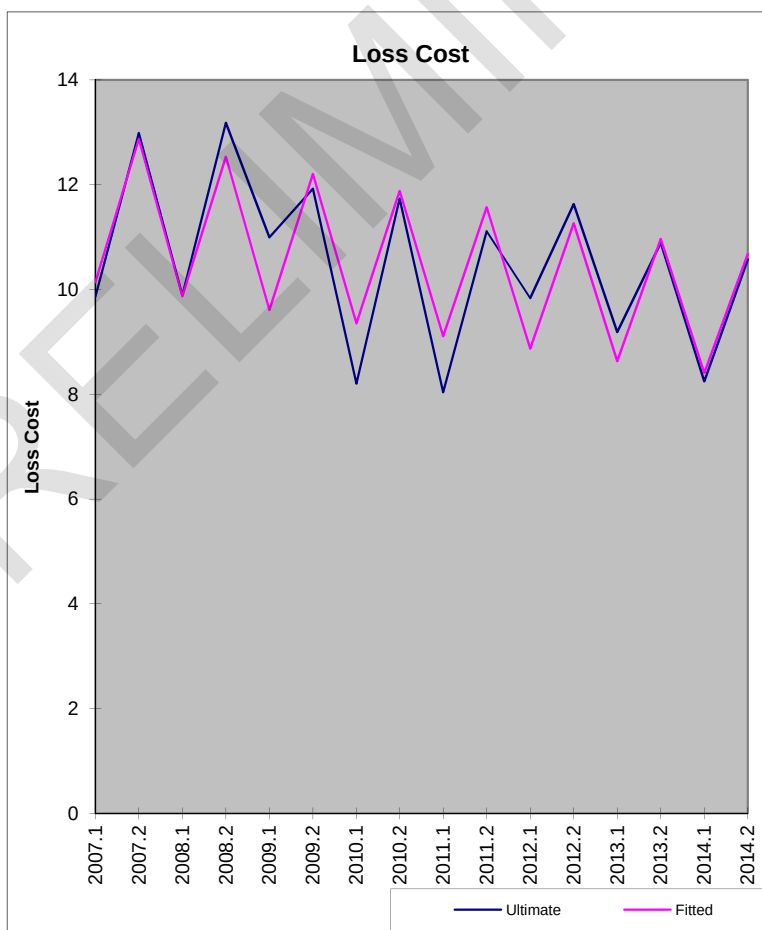


Province of Alberta  
Private Passenger Automobile (excl. Farmers)

**Accident Benefits - All Disability Income**

**Loss Cost**

|                                |                        |          |
|--------------------------------|------------------------|----------|
| <b>Regression Coefficients</b> | <b>Constant</b>        | 12.3861  |
|                                | <b>Time</b>            | 0.9867   |
|                                | <b>Seasonality</b>     | 1.2870   |
| <b>Regression Statistics</b>   | <b>Deg. of Freedom</b> | 13.0000  |
|                                | <b>F-Statistic</b>     | 25.8000  |
|                                | <b>R2</b>              | 0.7988   |
|                                | <b>SSReg</b>           | 0.2884   |
|                                | <b>SSResid</b>         | 0.0727   |
|                                | <b>Adjusted R2</b>     | 0.7678   |
| <b>p-Values</b>                | <b>Constant</b>        | 0.0000   |
|                                | <b>Time</b>            | 0.0060   |
|                                | <b>Seasonality</b>     | 0.0000   |
| <b>T-Statistics</b>            | <b>Constant</b>        | 26.9027  |
|                                | <b>Time</b>            | (3.2773) |
|                                | <b>Seasonality</b>     | 6.7099   |



Province of Alberta  
Private Passenger Automobile (excl. Farmers)

**Collision**

| Accident<br>Period | Time | Seasonality | Earned<br>Exposures | Ultimate<br>Counts | Ultimate<br>Losses | ULAE<br>Adjustment | Ultimate<br>Losses & LAE | Ultimate<br>Loss Cost | Fitted<br>Loss Cost |
|--------------------|------|-------------|---------------------|--------------------|--------------------|--------------------|--------------------------|-----------------------|---------------------|
| 2010.1             | 21   | 0           | 828,624             | 34,596             | 144,754            | 1.102              | 159,476                  | 192.46                | 205.58              |
| 2010.2             | 22   | 1           | 854,563             | 40,345             | 176,496            | 1.102              | 194,446                  | 227.54                | 211.23              |
| 2011.1             | 23   | 0           | 841,045             | 43,049             | 184,452            | 1.095              | 201,883                  | 240.04                | 217.02              |
| 2011.2             | 24   | 1           | 872,431             | 35,466             | 170,589            | 1.095              | 186,709                  | 214.01                | 222.98              |
| 2012.1             | 25   | 0           | 869,728             | 35,150             | 162,636            | 1.091              | 177,468                  | 204.05                | 229.10              |
| 2012.2             | 26   | 1           | 906,138             | 41,717             | 207,557            | 1.091              | 226,486                  | 249.95                | 235.39              |
| 2013.1             | 27   | 0           | 903,568             | 38,126             | 183,818            | 1.099              | 202,101                  | 223.67                | 241.85              |
| 2013.2             | 28   | 1           | 946,071             | 45,023             | 233,178            | 1.099              | 256,371                  | 270.99                | 248.49              |
| 2014.1             | 29   | 0           | 940,708             | 41,791             | 206,869            | 1.093              | 226,128                  | 240.38                | 255.31              |
| 2014.2             | 30   | 1           | 961,051             | 44,891             | 239,903            | 1.093              | 262,238                  | 272.87                | 262.32              |

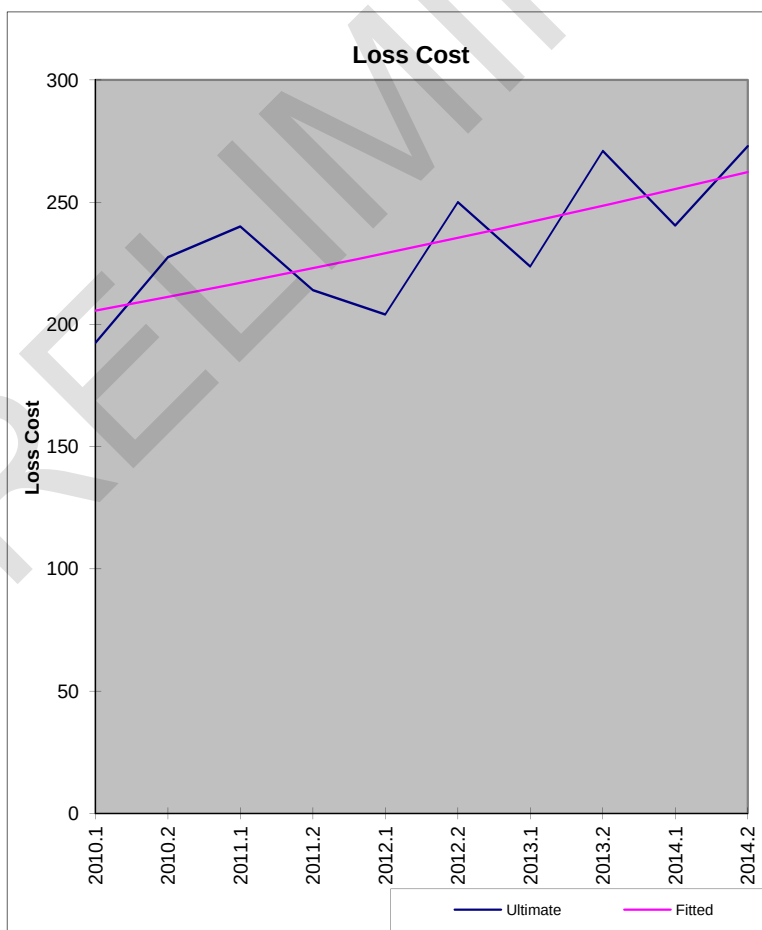
**Avg Annual Trend** 5.6%

Province of Alberta  
Private Passenger Automobile (excl. Farmers)

**Collision**

**Loss Cost**

|                                |                        |          |
|--------------------------------|------------------------|----------|
| <b>Regression Coefficients</b> | <b>Constant</b>        | 116.4212 |
|                                | <b>Time</b>            | 1.0274   |
| <b>Regression Statistics</b>   | <b>Deg. of Freedom</b> | 8.0000   |
|                                | <b>F-Statistic</b>     | 8.4097   |
|                                | <b>R2</b>              | 0.5125   |
|                                | <b>SSReg</b>           | 0.0605   |
|                                | <b>SSResid</b>         | 0.0575   |
|                                | <b>Adjusted R2</b>     | 0.4515   |
| <b>p-Values</b>                | <b>Constant</b>        | 0.0000   |
|                                | <b>Time</b>            | 0.0199   |
| <b>T-Statistics</b>            | <b>Constant</b>        | 19.8539  |
|                                | <b>Time</b>            | 2.9000   |



# 17

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## Appendix C

**Exhibit 1:** Measured trend results for various time periods; with time and seasonality parameters for all coverages except Collision, with level change parameter for Bodily Injury only, and without the ULAE provision.

PRELIMINARY

**Third Party Liability - Bodily Injury  
With Seasonality**

No Exclusions

|               | Loss Cost |        |             |                  |                         | Severity |        |             |                  |                         | Frequency |        |             |                  |                         |
|---------------|-----------|--------|-------------|------------------|-------------------------|----------|--------|-------------|------------------|-------------------------|-----------|--------|-------------|------------------|-------------------------|
|               | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Trend    | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic |
| 2005.1-2014.2 | +2.4%     | 0.73   | 26.63       | 4.31             | 5.50                    | +5.7%    | 0.87   | 67.26       | 10.85            | 3.13                    | - 3.1%    | 0.73   | 26.51       | -6.79            | 3.20                    |
| 2006.1-2014.2 | +2.9%     | 0.76   | 28.34       | 4.44             | 5.62                    | +5.7%    | 0.86   | 51.21       | 9.18             | 3.36                    | - 2.7%    | 0.64   | 15.83       | -5.06            | 2.94                    |
| 2007.1-2014.2 | +3.5%     | 0.78   | 28.11       | 4.64             | 5.35                    | +5.4%    | 0.80   | 31.04       | 6.90             | 3.03                    | - 1.7%    | 0.58   | 11.23       | -3.57            | 3.48                    |
| 2008.1-2014.2 | +4.1%     | 0.77   | 23.14       | 4.25             | 4.75                    | +5.3%    | 0.73   | 18.45       | 5.22             | 2.43                    | - 1.1%    | 0.57   | 9.65        | -2.14            | 4.07                    |
| 2009.1-2014.2 | +5.9%     | 0.90   | 48.54       | 6.52             | 6.36                    | +6.9%    | 0.80   | 23.59       | 5.99             | 2.45                    | - 1.0%    | 0.62   | 10.07       | -1.50            | 4.40                    |
| 2010.1-2014.2 | +7.3%     | 0.92   | 53.26       | 6.80             | 6.47                    | +8.6%    | 0.83   | 23.13       | 5.89             | 2.32                    | - 1.2%    | 0.56   | 6.71        | -1.23            | 3.61                    |
| 2011.1-2014.2 | +6.6%     | 0.89   | 30.20       | 4.39             | 5.30                    | +8.0%    | 0.69   | 8.70        | 3.36             | 1.69                    | - 1.3%    | 0.39   | 3.28        | -0.84            | 2.54                    |
| 2011.2-2014.2 | +5.3%     | 0.85   | 17.68       | 3.22             | 5.00                    | +4.6%    | 0.80   | 13.25       | 4.49             | 2.53                    | +0.7%     | 0.84   | 16.80       | 0.71             | 5.75                    |
| 2012.1-2014.2 | +4.1%     | 0.86   | 15.91       | 1.80             | 4.58                    | +4.9%    | 0.77   | 9.28        | 3.18             | 1.85                    | - 0.7%    | 0.95   | 52.86       | -1.00            | 10.08                   |

|               | Loss Cost |        |             |                  |                         | Severity |        |             |                  |                         | Frequency |        |             |                  |                         |
|---------------|-----------|--------|-------------|------------------|-------------------------|----------|--------|-------------|------------------|-------------------------|-----------|--------|-------------|------------------|-------------------------|
|               | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Trend    | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic |
| 2004.2-2014.1 | +1.7%     | 0.64   | 17.95       | 2.94             | 5.46                    | +5.2%    | 0.82   | 43.23       | 8.98             | 3.16                    | - 3.4%    | 0.80   | 40.04       | -8.10            | 3.08                    |
| 2005.2-2014.1 | +2.4%     | 0.72   | 22.49       | 4.04             | 5.72                    | +5.9%    | 0.84   | 45.21       | 9.26             | 3.05                    | - 3.2%    | 0.75   | 26.67       | -6.36            | 2.96                    |
| 2006.2-2014.1 | +2.8%     | 0.71   | 19.44       | 3.72             | 5.38                    | +5.5%    | 0.77   | 26.42       | 6.97             | 2.82                    | - 2.5%    | 0.69   | 18.00       | -4.63            | 3.29                    |
| 2007.2-2014.1 | +3.3%     | 0.69   | 15.72       | 3.51             | 4.77                    | +5.0%    | 0.66   | 13.74       | 4.91             | 2.42                    | - 1.6%    | 0.68   | 15.02       | -3.10            | 4.10                    |
| 2008.2-2014.1 | +5.0%     | 0.83   | 27.41       | 5.08             | 6.07                    | +6.0%    | 0.68   | 12.89       | 4.70             | 2.59                    | - 1.0%    | 0.63   | 10.42       | -1.58            | 4.01                    |
| 2009.2-2014.1 | +6.5%     | 0.86   | 29.55       | 5.54             | 6.21                    | +8.1%    | 0.76   | 15.22       | 5.22             | 2.68                    | - 1.4%    | 0.61   | 8.16        | -1.58            | 3.39                    |
| 2010.2-2014.1 | +6.0%     | 0.83   | 18.47       | 4.05             | 5.30                    | +8.7%    | 0.65   | 7.38        | 3.70             | 1.83                    | - 2.5%    | 0.60   | 6.26        | -1.84            | 2.54                    |
| 2011.2-2014.1 | +3.6%     | 0.76   | 9.11        | 1.78             | 4.23                    | +3.2%    | 0.67   | 6.03        | 3.24             | 2.14                    | +0.4%     | 0.79   | 10.20       | 0.27             | 4.39                    |

**Third Party Liability - Bodily Injury**  
**With Seasonality and Level Change**

No Exclusions

|               | Loss Cost |        |             |                  |                         |                       |                             | Severity |        |             |                  |                         |                       |                             | Frequency |        |             |                  |                         |                       |                             |
|---------------|-----------|--------|-------------|------------------|-------------------------|-----------------------|-----------------------------|----------|--------|-------------|------------------|-------------------------|-----------------------|-----------------------------|-----------|--------|-------------|------------------|-------------------------|-----------------------|-----------------------------|
|               | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Change in Level Value | Change in Level T-Statistic | Trend    | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Change in Level Value | Change in Level T-Statistic | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Change in Level Value | Change in Level T-Statistic |
| 2005.1-2014.2 | +0.2%     | 0.83   | 33.02       | 0.27             | 6.82                    | 1.18                  | 3.44                        | +4.2%    | 0.89   | 54.23       | 4.99             | 3.27                    | 1.11                  | 2.01                        | -3.9%     | 0.74   | 18.70       | -4.90            | 3.17                    | 1.06                  | 1.23                        |
| 2006.1-2014.2 | +0.4%     | 0.84   | 31.12       | 0.46             | 6.69                    | 1.16                  | 2.91                        | +3.8%    | 0.88   | 43.64       | 3.67             | 3.59                    | 1.12                  | 2.12                        | -3.2%     | 0.62   | 10.32       | -3.23            | 2.84                    | 1.04                  | 0.68                        |
| 2007.1-2014.2 | +1.0%     | 0.83   | 26.03       | 0.80             | 5.95                    | 1.14                  | 2.22                        | +2.4%    | 0.87   | 34.53       | 1.95             | 3.57                    | 1.17                  | 2.83                        | -1.3%     | 0.55   | 7.18        | -1.31            | 3.41                    | 0.98                  | -0.54                       |
| 2008.1-2014.2 | +1.4%     | 0.81   | 19.34       | 0.80             | 5.03                    | 1.13                  | 1.75                        | +1.0%    | 0.86   | 28.76       | 0.69             | 3.19                    | 1.22                  | 3.48                        | +0.4%     | 0.65   | 9.21        | 0.46             | 4.66                    | 0.93                  | -1.92                       |
| 2009.1-2014.2 | +4.1%     | 0.90   | 34.45       | 2.45             | 6.39                    | 1.07                  | 1.20                        | +2.7%    | 0.90   | 32.73       | 1.73             | 3.10                    | 1.18                  | 3.00                        | +1.3%     | 0.80   | 15.56       | 1.47             | 6.27                    | 0.91                  | -2.98                       |
| 2010.1-2014.2 | +5.7%     | 0.92   | 37.69       | 3.35             | 6.41                    | 1.06                  | 1.16                        | +4.4%    | 0.94   | 45.39       | 3.08             | 3.28                    | 1.17                  | 3.56                        | +1.2%     | 0.76   | 10.74       | 1.08             | 5.25                    | 0.91                  | -2.66                       |
| 2011.1-2014.2 | +5.3%     | 0.91   | 24.01       | 3.22             | 5.00                    | 1.08                  | 1.35                        | +4.6%    | 0.96   | 53.70       | 4.49             | 2.53                    | 1.23                  | 5.73                        | +0.7%     | 0.83   | 12.49       | 0.71             | 5.75                    | 0.88                  | -3.73                       |
| 2011.2-2014.2 | +5.3%     | 0.85   | 17.68       | 3.22             | 5.00                    |                       |                             | +4.6%    | 0.80   | 13.25       | 4.49             | 2.53                    |                       |                             | +0.7%     | 0.84   | 16.80       | 0.71             | 5.75                    |                       |                             |
| 2012.1-2014.2 | +4.1%     | 0.86   | 15.91       | 1.80             | 4.58                    |                       |                             | +4.9%    | 0.77   | 9.28        | 3.18             | 1.85                    |                       |                             | -0.7%     | 0.95   | 52.86       | -1.00            | 10.08                   |                       |                             |

|               | Loss Cost |        |             |                  |                         |                       |                             | Severity |        |             |                  |                         |                       |                             | Frequency |        |             |                  |                         |                       |                             |
|---------------|-----------|--------|-------------|------------------|-------------------------|-----------------------|-----------------------------|----------|--------|-------------|------------------|-------------------------|-----------------------|-----------------------------|-----------|--------|-------------|------------------|-------------------------|-----------------------|-----------------------------|
|               | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Change in Level Value | Change in Level T-Statistic | Trend    | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Change in Level Value | Change in Level T-Statistic | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Change in Level Value | Change in Level T-Statistic |
| 2004.2-2014.1 | -0.6%     | 0.82   | 30.48       | -0.91            | 7.23                    | 1.19                  | 4.30                        | +3.6%    | 0.85   | 38.06       | 4.23             | 3.26                    | 1.13                  | 2.32                        | -4.0%     | 0.81   | 28.35       | -6.03            | 2.97                    | 1.06                  | 1.30                        |
| 2005.2-2014.1 | +0.1%     | 0.84   | 30.01       | 0.18             | 6.98                    | 1.16                  | 3.47                        | +4.4%    | 0.86   | 34.74       | 4.21             | 2.97                    | 1.10                  | 1.68                        | -4.1%     | 0.76   | 18.62       | -4.62            | 2.80                    | 1.06                  | 1.16                        |
| 2006.2-2014.1 | -0.1%     | 0.83   | 24.67       | -0.05            | 6.31                    | 1.17                  | 3.09                        | +2.8%    | 0.84   | 26.61       | 2.30             | 2.86                    | 1.15                  | 2.48                        | -2.8%     | 0.67   | 11.19       | -2.64            | 3.07                    | 1.02                  | 0.30                        |
| 2007.2-2014.1 | -0.1%     | 0.80   | 18.21       | -0.08            | 5.21                    | 1.17                  | 2.60                        | +0.3%    | 0.86   | 28.46       | 0.27             | 2.85                    | 1.24                  | 4.15                        | -0.5%     | 0.70   | 11.20       | -0.47            | 4.40                    | 0.95                  | -1.30                       |
| 2008.2-2014.1 | +2.1%     | 0.86   | 23.69       | 1.14             | 6.07                    | 1.11                  | 1.78                        | +0.6%    | 0.86   | 22.72       | 0.32             | 2.83                    | 1.23                  | 3.42                        | +1.5%     | 0.80   | 15.24       | 1.50             | 5.93                    | 0.91                  | -2.86                       |
| 2009.2-2014.1 | +4.2%     | 0.87   | 21.15       | 1.83             | 5.76                    | 1.08                  | 1.16                        | +2.7%    | 0.88   | 22.70       | 1.24             | 2.80                    | 1.19                  | 2.80                        | +1.5%     | 0.76   | 10.70       | 1.01             | 4.82                    | 0.91                  | -2.33                       |
| 2010.2-2014.1 | +3.6%     | 0.86   | 15.34       | 1.71             | 5.24                    | 1.08                  | 1.40                        | +3.2%    | 0.87   | 16.13       | 1.45             | 2.09                    | 1.19                  | 3.04                        | +0.4%     | 0.80   | 10.39       | 0.25             | 4.12                    | 0.91                  | -2.46                       |
| 2011.2-2014.1 | +3.6%     | 0.76   | 9.11        | 1.78             | 4.23                    |                       |                             | +3.2%    | 0.67   | 6.03        | 3.24             | 2.14                    |                       |                             | +0.4%     | 0.79   | 10.20       | 0.27             | 4.39                    |                       |                             |

**Third Party Liability - Property Damage  
With Seasonality**

No Exclusions

|               | Loss Cost |        |             |                  |                         | Severity |        |             |                  |                         | Frequency |        |             |                  |                         |
|---------------|-----------|--------|-------------|------------------|-------------------------|----------|--------|-------------|------------------|-------------------------|-----------|--------|-------------|------------------|-------------------------|
|               | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Trend    | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic |
| 2005.1-2014.2 | +3.4%     | 0.67   | 19.96       | 5.44             | 2.73                    | +2.2%    | 0.74   | 27.71       | 6.70             | 2.66                    | +1.2%     | 0.25   | 4.18        | 2.28             | 1.57                    |
| 2006.1-2014.2 | +2.3%     | 0.64   | 16.35       | 4.11             | 3.56                    | +1.9%    | 0.66   | 17.39       | 5.01             | 2.61                    | +0.4%     | 0.12   | 2.18        | 0.69             | 1.89                    |
| 2007.1-2014.2 | +1.5%     | 0.59   | 11.99       | 2.81             | 3.68                    | +1.6%    | 0.54   | 9.92        | 3.42             | 2.47                    | - 0.0%    | 0.01   | 1.11        | -0.04            | 1.49                    |
| 2008.1-2014.2 | +1.7%     | 0.54   | 8.58        | 2.38             | 3.07                    | +2.1%    | 0.62   | 11.53       | 4.04             | 2.08                    | - 0.4%    | 0.02   | 1.11        | -0.51            | 1.46                    |
| 2009.1-2014.2 | +2.4%     | 0.59   | 8.98        | 2.66             | 2.88                    | +3.2%    | 0.86   | 33.94       | 7.27             | 2.78                    | - 0.7%    | 0.00   | 1.03        | -0.70            | 1.34                    |
| 2010.1-2014.2 | +3.3%     | 0.59   | 7.36        | 2.50             | 2.43                    | +3.8%    | 0.88   | 34.11       | 7.15             | 2.82                    | - 0.6%    | -0.11  | 0.55        | -0.36            | 1.04                    |
| 2011.1-2014.2 | +2.4%     | 0.35   | 2.85        | 1.21             | 1.75                    | +3.3%    | 0.86   | 23.34       | 4.85             | 3.63                    | - 0.9%    | -0.33  | 0.13        | -0.36            | 0.43                    |
| 2011.2-2014.2 | +4.9%     | 0.78   | 11.40       | 3.20             | 3.55                    | +2.5%    | 0.88   | 22.04       | 4.84             | 4.55                    | +2.4%     | 0.55   | 4.62        | 1.86             | 2.40                    |
| 2012.1-2014.2 | +2.9%     | 0.87   | 18.38       | 1.87             | 4.97                    | +2.5%    | 0.86   | 15.91       | 3.21             | 3.50                    | +0.4%     | 0.88   | 19.89       | 0.46             | 5.88                    |

**Accident Benefits - All Medical/Rehab Expenses  
With Seasonality**

No Exclusions

|               | Loss Cost |        |             |                  |                         | Severity |        |             |                  |                         | Frequency |        |             |                  |                         |
|---------------|-----------|--------|-------------|------------------|-------------------------|----------|--------|-------------|------------------|-------------------------|-----------|--------|-------------|------------------|-------------------------|
|               | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Trend    | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic |
| 2005.1-2014.2 | +1.9%     | 0.88   | 71.33       | 6.48             | 9.43                    | +4.1%    | 0.80   | 39.28       | 8.16             | 2.75                    | - 2.2%    | 0.63   | 17.29       | -5.20            | 3.19                    |
| 2006.1-2014.2 | +2.3%     | 0.94   | 127.21      | 8.96             | 12.27                   | +4.6%    | 0.83   | 43.09       | 8.39             | 3.16                    | - 2.2%    | 0.56   | 11.92       | -4.29            | 2.74                    |
| 2007.1-2014.2 | +2.4%     | 0.93   | 95.51       | 7.41             | 10.79                   | +4.0%    | 0.78   | 27.47       | 6.36             | 3.10                    | - 1.5%    | 0.42   | 6.52        | -2.71            | 2.67                    |
| 2008.1-2014.2 | +2.2%     | 0.91   | 67.82       | 5.34             | 9.61                    | +2.8%    | 0.77   | 22.71       | 4.92             | 3.95                    | - 0.6%    | 0.40   | 5.28        | -1.02            | 3.19                    |
| 2009.1-2014.2 | +2.2%     | 0.89   | 44.35       | 3.85             | 7.95                    | +2.4%    | 0.74   | 16.38       | 3.89             | 3.59                    | - 0.1%    | 0.53   | 7.15        | -0.21            | 3.77                    |
| 2010.1-2014.2 | +1.7%     | 0.86   | 29.75       | 2.07             | 6.96                    | +1.9%    | 0.63   | 8.71        | 2.22             | 3.09                    | - 0.3%    | 0.44   | 4.54        | -0.30            | 3.01                    |
| 2011.1-2014.2 | +0.4%     | 0.87   | 25.48       | 0.40             | 6.87                    | +1.5%    | 0.73   | 10.36       | 1.35             | 3.94                    | - 1.1%    | 0.33   | 2.71        | -0.82            | 2.30                    |
| 2011.2-2014.2 | +0.7%     | 0.85   | 18.47       | 0.51             | 6.06                    | +0.2%    | 0.80   | 12.83       | 0.19             | 5.06                    | +0.6%     | 0.79   | 12.01       | 0.63             | 4.86                    |
| 2012.1-2014.2 | - 1.3%    | 0.95   | 53.04       | -1.19            | 10.13                   | - 0.4%   | 0.80   | 10.80       | -0.32            | 4.53                    | - 1.0%    | 1.00   | 892.77      | -6.58            | 41.84                   |



**Accident Benefits - All Disability Income  
With Seasonality**

No Exclusions

|               | Loss Cost |        |             |                  |                         | Severity |        |             |                  |                         | Frequency |        |             |                  |                         |
|---------------|-----------|--------|-------------|------------------|-------------------------|----------|--------|-------------|------------------|-------------------------|-----------|--------|-------------|------------------|-------------------------|
|               | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Trend    | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic |
| 2005.1-2014.2 | - 0.8%    | 0.62   | 16.63       | -1.18            | 5.73                    | +5.4%    | 0.66   | 19.69       | 5.77             | 1.95                    | - 5.9%    | 0.89   | 76.70       | -11.90           | 4.44                    |
| 2006.1-2014.2 | - 1.4%    | 0.65   | 16.95       | -1.73            | 5.70                    | +4.4%    | 0.57   | 12.42       | 4.22             | 2.23                    | - 5.6%    | 0.85   | 48.66       | -9.38            | 3.96                    |
| 2007.1-2014.2 | - 2.7%    | 0.77   | 25.58       | -3.33            | 6.66                    | +2.5%    | 0.53   | 9.46        | 2.69             | 3.11                    | - 5.1%    | 0.79   | 28.95       | -7.06            | 3.58                    |
| 2008.1-2014.2 | - 2.8%    | 0.72   | 17.75       | -2.60            | 5.64                    | +1.3%    | 0.43   | 5.97        | 1.26             | 3.03                    | - 4.0%    | 0.74   | 19.57       | -5.29            | 3.97                    |
| 2009.1-2014.2 | - 2.2%    | 0.65   | 11.19       | -1.50            | 4.66                    | +0.4%    | 0.31   | 3.52        | 0.33             | 2.56                    | - 2.6%    | 0.81   | 24.06       | -4.19            | 6.08                    |
| 2010.1-2014.2 | - 0.3%    | 0.75   | 14.58       | -0.19            | 5.35                    | +1.2%    | 0.49   | 5.24        | 0.77             | 2.96                    | - 1.5%    | 0.83   | 22.88       | -2.22            | 6.68                    |
| 2011.1-2014.2 | - 1.1%    | 0.68   | 8.53        | -0.43            | 4.10                    | +1.2%    | 0.29   | 2.45        | 0.50             | 2.00                    | - 2.2%    | 0.81   | 16.33       | -2.25            | 5.62                    |
| 2011.2-2014.2 | - 4.0%    | 0.84   | 16.84       | -2.24            | 5.35                    | - 1.9%   | 0.58   | 5.15        | -1.58            | 2.79                    | - 2.1%    | 0.80   | 12.87       | -1.63            | 4.80                    |
| 2012.1-2014.2 | - 6.6%    | 0.95   | 52.89       | -5.11            | 10.03                   | - 2.7%   | 0.54   | 3.89        | -1.59            | 2.66                    | - 4.0%    | 0.94   | 37.45       | -3.96            | 8.52                    |

**Collision**  
**No Seasonality**

No Exclusions

|               | Loss Cost |        |             |                  |                         | Severity |        |             |                  |                         | Frequency |        |             |                  |                         |
|---------------|-----------|--------|-------------|------------------|-------------------------|----------|--------|-------------|------------------|-------------------------|-----------|--------|-------------|------------------|-------------------------|
|               | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Trend    | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic | Trend     | Adj R2 | F-Statistic | Time T-Statistic | Seasonality T-Statistic |
| 2005.1-2014.2 | +2.2%     | 0.17   | 5.02        | 2.24             |                         | +5.1%    | 0.77   | 65.74       | 8.11             |                         | - 2.8%    | 0.43   | 15.54       | -3.94            |                         |
| 2006.1-2014.2 | +0.8%     | -0.02  | 0.66        | 0.81             |                         | +4.3%    | 0.69   | 39.41       | 6.28             |                         | - 3.4%    | 0.49   | 17.07       | -4.13            |                         |
| 2007.1-2014.2 | +0.2%     | -0.07  | 0.03        | 0.17             |                         | +3.2%    | 0.60   | 23.11       | 4.81             |                         | - 2.9%    | 0.35   | 9.16        | -3.03            |                         |
| 2008.1-2014.2 | +1.1%     | -0.03  | 0.59        | 0.77             |                         | +2.5%    | 0.46   | 11.89       | 3.45             |                         | - 1.4%    | 0.07   | 1.96        | -1.40            |                         |
| 2009.1-2014.2 | +3.1%     | 0.20   | 3.71        | 1.93             |                         | +3.8%    | 0.74   | 31.72       | 5.63             |                         | - 0.7%    | -0.07  | 0.27        | -0.52            |                         |
| 2010.1-2014.2 | +5.7%     | 0.46   | 8.82        | 2.97             |                         | +5.1%    | 0.83   | 45.51       | 6.75             |                         | +0.6%     | -0.11  | 0.09        | 0.31             |                         |
| 2011.1-2014.2 | +5.4%     | 0.28   | 3.67        | 1.92             |                         | +4.9%    | 0.69   | 16.44       | 4.05             |                         | +0.5%     | -0.16  | 0.03        | 0.18             |                         |
| 2011.2-2014.2 | +8.4%     | 0.52   | 7.50        | 2.74             |                         | +3.6%    | 0.54   | 7.98        | 2.82             |                         | +4.7%     | 0.45   | 5.84        | 2.42             |                         |
| 2012.1-2014.2 | +9.0%     | 0.40   | 4.36        | 2.09             |                         | +4.5%    | 0.58   | 7.86        | 2.80             |                         | +4.3%     | 0.23   | 2.51        | 1.59             |                         |

# 18

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## Appendix D

**Exhibit 1:** Estimated ultimate Bodily Injury claim costs.

PRELIMINARY

Province of Alberta  
 Alberta Automobile Insurance Board - Private Passengers Vehicles (Excluding Farmers)  
 TPL BI  
 Selected Ultimate Losses  
 (based on Selected Methods)  
 Losses in \$ 000s

| Accident Semester | Car-Years as of 12/31/2014 | Incurred Losses as of 12/31/2014 | Selected Loss Development Factor | Incurred Losses Development Method | Incurred BF Method | MMR Incurred Method | Selected  |
|-------------------|----------------------------|----------------------------------|----------------------------------|------------------------------------|--------------------|---------------------|-----------|
| (1)               | (2)                        | (3)                              | (4)                              | (5)                                | (6)                | (7)                 | (8)       |
| Jun-00            | 782,580                    | 264,515                          | 1.00                             | 264,515                            |                    | 264,515             | 264,515   |
| Dec-00            | 810,796                    | 300,780                          | 1.00                             | 300,780                            |                    | 300,827             | 300,780   |
| Jun-01            | 830,225                    | 277,614                          | 1.00                             | 277,614                            |                    | 277,740             | 277,614   |
| Dec-01            | 851,902                    | 326,097                          | 1.00                             | 326,097                            |                    | 326,302             | 326,097   |
| Jun-02            | 834,467                    | 303,494                          | 1.00                             | 303,494                            |                    | 303,781             | 303,494   |
| Dec-02            | 869,889                    | 332,249                          | 1.00                             | 332,249                            |                    | 332,689             | 332,249   |
| Jun-03            | 853,493                    | 283,875                          | 1.00                             | 283,875                            |                    | 284,642             | 283,875   |
| Dec-03            | 874,537                    | 291,899                          | 1.00                             | 291,899                            |                    | 292,967             | 291,899   |
| Jun-04            | 861,327                    | 244,815                          | 1.00                             | 244,815                            |                    | 246,167             | 244,815   |
| Dec-04            | 888,617                    | 232,423                          | 1.00                             | 232,423                            |                    | 234,183             | 232,423   |
| Jun-05            | 884,451                    | 187,570                          | 1.00                             | 187,570                            |                    | 189,843             | 187,570   |
| Dec-05            | 939,959                    | 216,803                          | 1.00                             | 217,398                            |                    | 219,851             | 217,398   |
| Jun-06            | 945,710                    | 191,960                          | 1.00                             | 192,890                            |                    | 195,768             | 192,890   |
| Dec-06            | 1,001,691                  | 242,959                          | 1.01                             | 245,438                            |                    | 251,294             | 245,438   |
| Jun-07            | 1,002,213                  | 194,861                          | 1.02                             | 198,218                            |                    | 205,318             | 198,218   |
| Dec-07            | 1,056,660                  | 248,746                          | 1.03                             | 255,298                            |                    | 262,371             | 255,298   |
| Jun-08            | 1,052,706                  | 223,727                          | 1.04                             | 231,657                            |                    | 240,396             | 231,657   |
| Dec-08            | 1,097,553                  | 254,616                          | 1.04                             | 265,953                            |                    | 276,003             | 265,953   |
| Jun-09            | 1,080,218                  | 203,522                          | 1.06                             | 215,667                            |                    | 229,356             | 215,667   |
| Dec-09            | 1,119,434                  | 249,218                          | 1.08                             | 269,283                            |                    | 281,986             | 269,283   |
| Jun-10            | 1,100,281                  | 180,508                          | 1.11                             | 199,750                            |                    | 219,933             | 199,750   |
| Dec-10            | 1,147,235                  | 246,283                          | 1.15                             | 282,106                            |                    | 296,558             | 282,106   |
| Jun-11            | 1,128,779                  | 191,627                          | 1.18                             | 227,060                            |                    | 251,930             | 227,060   |
| Dec-11            | 1,178,668                  | 243,350                          | 1.25                             | 303,111                            |                    | 320,403             | 303,111   |
| Jun-12            | 1,172,340                  | 213,641                          | 1.34                             | 285,808                            |                    | 307,233             | 285,808   |
| Dec-12            | 1,224,777                  | 230,022                          | 1.46                             | 336,301                            |                    | 346,867             | 336,301   |
| Jun-13            | 1,215,606                  | 177,739                          | 1.60                             | 283,768                            |                    | 314,515             | 283,768   |
| Dec-13            | 1,274,980                  | 213,353                          | 1.74                             | 371,722                            |                    | 373,772             | 371,722   |
| Jun-14            | 1,261,700                  | 169,792                          | 1.84                             | 312,664                            |                    | 342,368             | 312,664   |
| Dec-14            | 1,285,927                  | 178,464                          | 2.29                             | 408,590                            | 391,541            | 399,686             | 408,590   |
| Total             | 30,628,723                 | 7,116,523                        | XXX                              | 8,148,013                          | 391,541            | 8,389,265           | 8,148,013 |

## Notes:

- (6) The "expected" loss is based on a fitted pure premium (at a trend rate of +3.6%), excluding ULAE.  
 (7) Refer to text  
 (8) Selected based on judgment



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