



**NEW BRUNSWICK RISK SHARING POOL**

**JANUARY 2020 OPERATIONAL REPORT**

**ACTUARIAL HIGHLIGHTS**

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**ACTUARIAL HIGHLIGHTS**  
**RSP NEW BRUNSWICK**  
**OPERATIONAL REPORT**  
**JANUARY 2020**

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## 1 Summary

### Key Points

- (a) At its Feb. 18, 2020 meeting, the FA Board appointed Mr. Cosimo Pantaleo of Ernst & Young LLP (EY) for fiscal year-end 2019. Recall that Mr. Pantaleo was Acting Appointing Actuary following the resignation of Mr. Liam McFarlane in October 2019. Mr. Pantaleo’s appointment was approved by FA Members for fiscal year 2020 at the FA Annual General Meeting held on February 20, 2020.
- (b) The month’s activities were generally aligned with projections from last month.

### 1.1 Valuation Schedule (Fiscal Year 2020)

The January 2020 Operational Report leverages actuarial assumptions consistent with last month (that is, it does not reflect the results of an updated valuation). The table below summarizes the implemented valuations for fiscal year 2020.

| <b>NEW BRUNSWICK RISK SHARING POOL<br/>FISCAL YEAR 2020 – SCHEDULE OF VALUATIONS</b> |                                  |                           |  |
|--|----------------------------------|---------------------------|--|
| <b>Valuation Date</b>  | <b>Discount Rate (per annum)</b> | <b>Operational Report</b> | <b>Description of Changes</b>  |
| Sep. 30, 2019<br>(completed)   | 1.43%<br>mfad 25 bp              | Oct. 2019                 | updated valuation (roll forward) : accident year 2019 loss ratio <u>increased</u> 0.6 points to 74.2%; discount rate <u>increased</u> 2 basis points; no change to selected margins for adverse deviations |
| Dec. 31, 2019  | %<br>mfad -- bp                  | Mar. 2020                 | update valuation   |
| Mar. 31, 2020  | %<br>mfad -- bp                  | May 2020                  | update valuation (roll-forward)  |
| Jun. 30, 2020  | %<br>mfad -- bp                  | Aug. 2020                 | update valuation   |
| Sep. 30, 2020  | %<br>mfad -- bp                  | Oct. 2020                 | update valuation (roll-forward)  |

Under the proposed schedule for fiscal year 2020, the off-half valuation quarters ending March 31, 2020 and September 30, 2020 would not reflect a full valuation update of assumptions, but would rather roll-forward key assumptions from the previous valuation.

### 1.2 Appointed Actuary and Hybrid Actuarial Services Model

Mr. Cosimo Pantaleo of Ernst & Young LLP (EY) was appointed as Actuary by the FA Board at its February 18, 2020 meeting.

Facility Association operates under a hybrid model in relation to the management and provision of actuarial services. Under this model, actuarial services are performed by both Facility Association’s

internal staff and its external actuarial consulting firm. The hybrid model approach maximizes the efficiency of resource allocation while providing access to additional expertise and capacity as needed.

### 1.3 Consideration of Recent Legal Decisions and Changes in Legislation / Regulation<sup>1</sup>

There have been no changes in these descriptions since last month’s Highlights, other than clarification that recent refers to events within the last five years.

Consideration and assessment of potential impacts of legal decisions and changes in legislation / regulation constitutes a regular part of the valuation process. At the current time, there are no specific recent (i.e. within the last five years) decisions or changes for inclusion here.

### 1.4 Harmonized Sales Tax

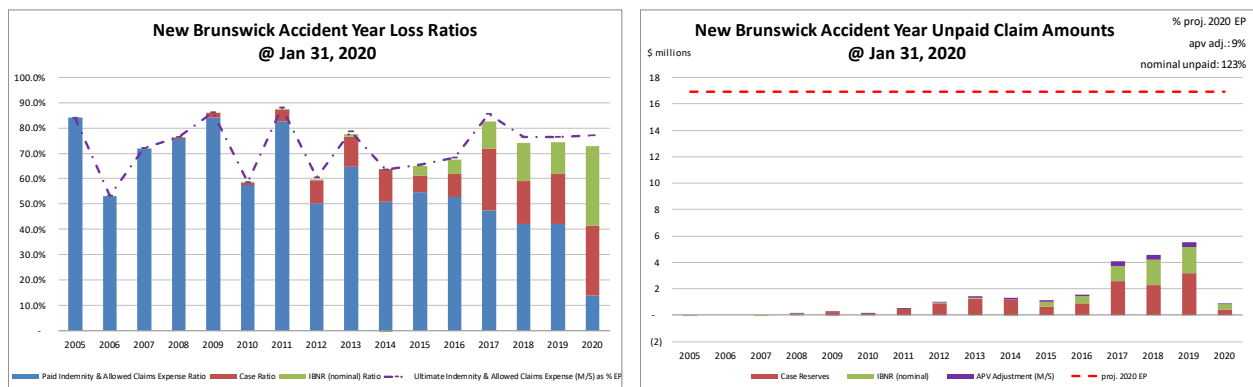
There have been no changes in these descriptions since last month’s Highlights other than updated valuation reference.

In the fiscal 2016-17 provincial budget released February 2, 2016, the New Brunswick Finance Minister announced a 2 percentage point increase in the provincial component of the harmonized sales tax (“HST”) **effective July 1, 2016** increasing the combined HST rate in the province from 13% to 15%.

No explicit adjustments have been made to the valuation assumptions from the **most recent** valuation (September 30, 2019), on the basis that current estimates have implicitly incorporated the impact.

### 1.5 Current Provision Summary

The charts below show the current levels of claim liabilities<sup>2</sup> booked by accident year. The left chart displays life-to-date payments, case reserves, IBNR, and the total including actuarial present value adjustments against accident year earned premium. The right chart shows the associated dollar amounts for the components of the claim liabilities and the current projected amount of 2020 full year earned premium (the red hash-mark line) to provide some perspective.



*“M/S” refers to “Member Statement” values – that is, actuarial present value adjustments at the selected discount rate.*

<sup>1</sup>This url to a pdf is to a helpful guide on how bills become laws: <https://www.ola.org/sites/default/files/common/how-bills-become-law-en.pdf>.

<sup>2</sup>Claim liabilities refer to provision for unpaid indemnity and allowed claims expenses. Allowed claims expenses are first party legal and other expenses as listed in the RSP Claims Guide. Claims expenses paid through the member company expense allowance are NOT included in this discussion.

The current actuarial present value adjustments balance (\$1.6 million – see table below) represents 9% of the earned premium projected for the full year 2020 (see the upper right corner of the right chart at the bottom of the previous page). If our current estimates of the nominal unpaid amounts prove to match actual claims payments, the actuarial present value adjustments will be released into the net operating result over future periods.

| claim liabilities (\$000s) |               |               |
|----------------------------|---------------|---------------|
|                            | amt           | %             |
| case                       | 14,230        | 63.7%         |
| ibnr                       | 6,536         | 29.2%         |
| M/S apv adjust.            | 1,588         | 7.1%          |
| <b>M/S total</b>           | <b>22,354</b> | <b>100.0%</b> |

The table to the left breaks down the Member Statement (M/S) claim liabilities total into component parts, showing that the majority of the claim liabilities for this RSP is in case reserves. Approximately 37% of the IBNR balance relates to accident years 2019 and 2020 (see Exhibit B). Approximately 74% of the M/S total claim

liabilities are related to accident years 2016-2020 inclusive (i.e. the most recent 5 accident years), and approximately 2% is related to accident years 2010 and prior (i.e. prior to the most recent 10 accident years).

The tables below summarize the premium liabilities and the total policy liabilities.

| premium liabilities (\$000s) |              |               | policy liabilities (\$000s) |               |               |
|------------------------------|--------------|---------------|-----------------------------|---------------|---------------|
|                              | amt          | %             |                             | amt           | %             |
| unearned prem                | 8,597        | 124.8%        | claim                       | 20,766        | 71.0%         |
| prem def/(dpac)              | (2,098)      | (30.5%)       | premium                     | 6,499         | 22.2%         |
| M/S apv adjust.              | 389          | 5.6%          | M/S apv adjust.             | 1,977         | 6.8%          |
| <b>M/S total</b>             | <b>6,888</b> | <b>100.0%</b> | <b>M/S total</b>            | <b>29,242</b> | <b>100.0%</b> |

## 2 Activity During the Month of January 2020

### 2.1 Recorded Premium and Claims Activity

The table below summarizes the extent to which premiums and claims amounts recorded during the month differ from projections reflected in the prior month's Operational Report<sup>3</sup>.

*New Brunswick RSP Actual vs Projected Summary: Recorded Transaction Amounts (\$ thousands)*

| Table 01<br>Accident Year | Earned Premium |                       | Paid Indemnity & Allowed Claims Expense |                       | Case increase / (decrease) |                       | Recorded increase / (decrease) |                       |
|---------------------------|----------------|-----------------------|---|-----------------------|----------------------------|-----------------------|--------------------------------|-----------------------|
|                           | Actual         | Actual less Projected | Actual                                  | Actual less Projected | Actual                     | Actual less Projected | Actual                         | Actual less Projected |
| Prior                     | 1              | 1                     | 686                                     | 536                   | (629)                      | (516)                 | 57                             | 20                    |
| 2018                      | 1              | 1                     | 64                                      | (108)                 | (151)                      | (111)                 | (87)                           | (219)                 |
| 2019                      | (19)           | (19)                  | 564                                     | 220                   | (75)                       | 95                    | 489                            | 315                   |
| 2020                      | 1,449          | 12                    | 203                                     | 25                    | 399                        | (42)                  | 602                            | (17)                  |
| <b>TOTAL</b>              | <b>1,432</b>   | <b>(5)</b>            | <b>1,517</b>                            | <b>673</b>            | <b>(455)</b>               | <b>(573)</b>          | <b>1,061</b>                   | <b>99</b>             |

(Recorded transaction amounts exclude IBNR & other actuarial provisions)

It is unusual to see actual earned premium transactions affecting prior accident years beyond the first prior at this time in the calendar year –prior accident years changes in the month include activity

<sup>3</sup>There may be rounding differences in values in this document compared with the associated Bulletin and/or Operational Report.

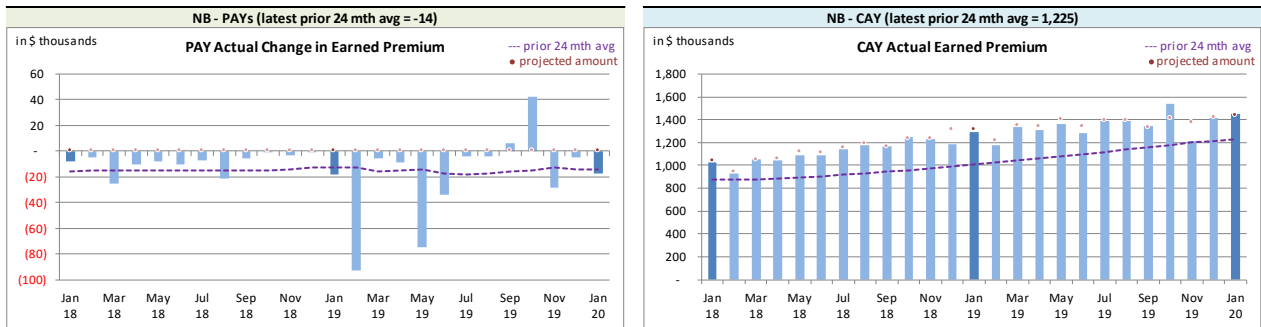
undertaken by a member reflecting recent audit findings.

Claims transaction activity is generally volatile and changes from one month to the next are anticipated due to this natural “process variance” (i.e. random variation), and this is particularly true where volumes are low as found in this RSP. Each month, the projection variances are reviewed for signs of projection bias and to identify potential ways to reduce the level of the variance. Commentary from our review is provided in the sub-sections that follow.

### 2.1.a Actual vs. Projected (AvsP): Earned Premium

The charts below show actual **earned premium**<sup>4</sup> activity in each of the most recent 25 calendar months, along with a “prior 24-month average” to show how each month’s actual compares with the average amount of the preceding 24 calendar months.

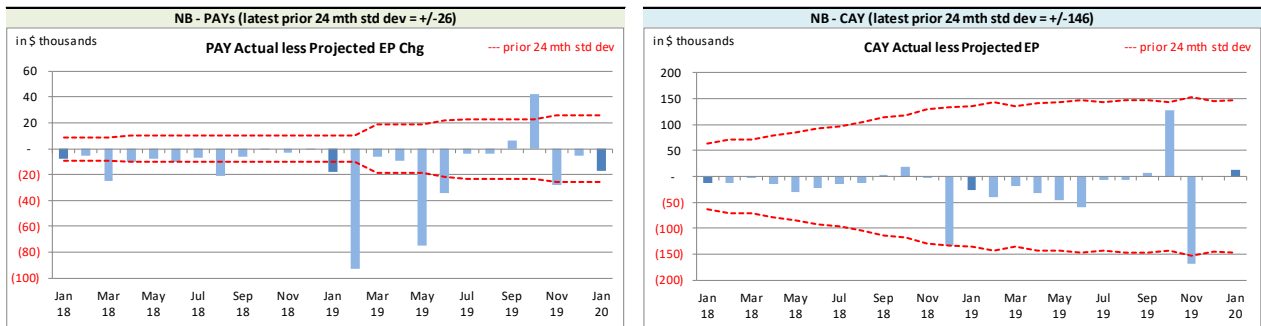
New Brunswick RSP Actual **Earned Premium** by Calendar Month



**Earned premium** changes during a given calendar month in relation to prior accident years tend to be at modest levels, although relatively high levels generally occur at the beginning of each year.

The associated variance between the actual changes and the projections from the previous month are shown in the charts below. **Earned premium** change projections are all attributed to the current accident year as the projection upload does not accept **earned premium** changes for other accident years. We do not see this limitation as being significant for our purposes, but it does mean that the actual less projection variance will equal the actual **earned premium** change in relation to prior accident years.

New Brunswick RSP Actual vs. Projected Summary: **Earned Premium** Variances by Calendar Month



<sup>4</sup>Premium is earned on a daily basis based on the transaction term measured in days. As a result, months with 31 days earned relatively more than those with 30 days, and February earns the least.

| On Latest \$ thousands           |           |        |
|----------------------------------|-----------|--------|
| Earned Premium                   | PAYs      | CAY    |
| Mthly Avg EP Chg (prior 24 mths) | (14)      | 1,225  |
| std dev                          | 26        | 146    |
| A-P <> std dev                   | 8         | 1      |
| % <> std dev                     | 32.0%     | 4.0%   |
| norm <> std dev                  | 31.7%     | 31.7%  |
| performance vs 24-mth avg:       | no better | better |

We project **earned premium** changes from known unearned premium and projected written premium levels, but upload the total projections as current accident year (CAY). This process has generated prior accident years’ (PAYs) bias<sup>5</sup>, with actuals generally lower than our projections, although the magnitude is not high relative to monthly premium. In addition to the PAYs’ bias,

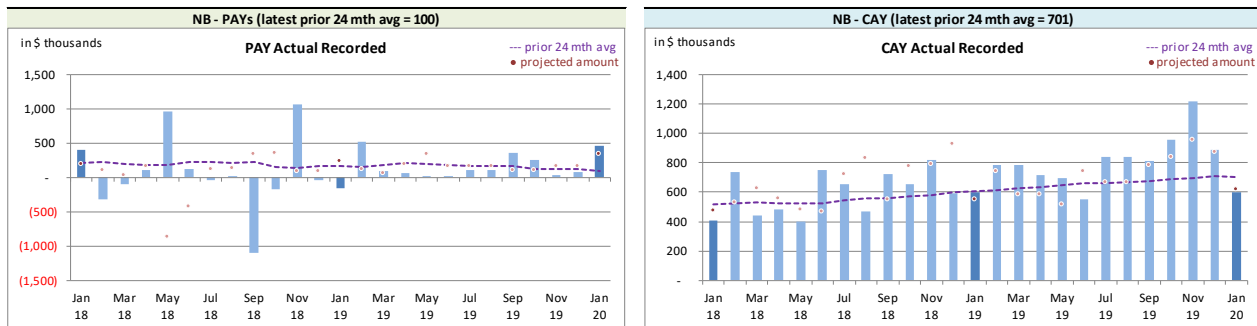
the CAY has also shown bias<sup>6</sup>, with actuals being generally lower than projected, and we have modified our projections processes in response. Over time, we may consider other projection approaches to narrow monthly variance levels further, but it is not currently deemed a priority.

Readers will note the widening of the CAY standard deviation band, reflecting the recent and sustained volume increases and the impact as those increases are earned.

### 2.1.b AvsP: Recorded Indemnity & Allowed Claims Expense

The charts below show actual **recorded** activity (**paid** and case reserve changes), in each of the most recent 25 calendar months, along with a “prior 24-month average” to show how each month’s actual compares with the average amount of the preceding 24 calendar months.

*New Brunswick RSP Actual Recorded by Calendar Month*

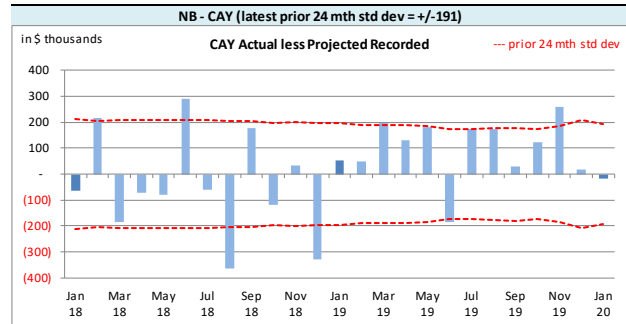
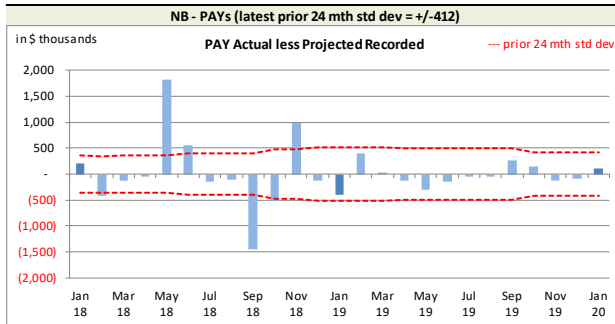


**Recorded** activity variances from the previous month’s projections are shown in the charts at the top of the next page, including the “prior 24-month standard deviation” levels to show how the variances from projection compare with historical standard deviations.

<sup>5</sup>The PAYs’ variances will show bias as the projection upload forces all earned premium projections to be attributed to the CAY.

<sup>6</sup>We measure bias based on a 95% confidence range for a binominal distribution with trials based on the range being considered (25 in this case) and 50% probability of success. The rolling 25-month CAY variances at January 2020 has only 5 months where the actual was higher than projected, and as the 95% confidence range is 8 to 17, bias continues to be indicated.

New Brunswick RSP Actual vs Projected Summary: **Recorded** Variances by Calendar Month



| On Latest \$ thousands             |          |        |           |
|------------------------------------|----------|--------|-----------|
|                                    | Recorded | PAYs   | CAY       |
| Mthly Avg Recorded (prior 24 mths) | 100      | 100    | 701       |
| std dev                            | 412      | 412    | 191       |
| A-P <> std dev                     | 6        | 6      | 7         |
| % <> std dev                       | 24.0%    | 24.0%  | 28.0%     |
| norm <> std dev                    | 31.7%    | 31.7%  | 31.7%     |
| performance vs 24-mth avg:         | better   | better | no better |

With respect to **recorded** indemnity & allowed claims expense activity, caution must be exercised in reviewing the variances as this is a small pool and single claim transactions that are normal course for the business may look unusual and generate relatively significant variances that in nominal value terms are not that significant in relative or overall terms. That said, 24% of the

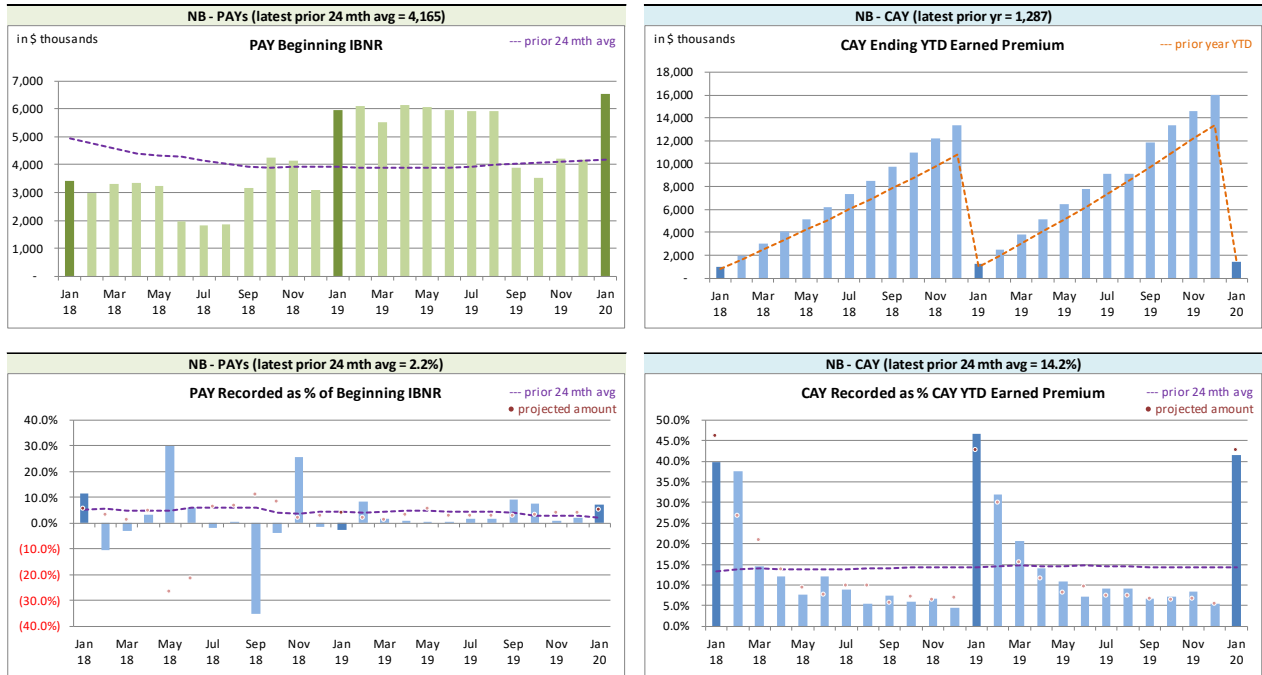
prior accident years' (PAYs) **recorded** variances over the last 25 calendar months have fallen outside of one standard deviation of the actual **recorded** amounts (see table above and to the left), suggesting the projection process has performed better than simply projecting the prior 24-month average amount (assuming it follows a normal distribution). Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (9 of 25 variances are positive).

The current accident year (CAY) **recorded** variances fell outside of one standard deviation 28% of the time over the last 25 calendar months (see table above), suggesting the projection process has performed no better than simply projecting the prior 24-month average amount. Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (15 of 25 variances are positive).

The method for establishing IBNR adjusts automatically for changes in **earned premium** and **recorded** claims activity level (see sections 2.2 and 3).

We have included, for reference, additional charts at the top of the next page related to levels influencing **recorded** activity. Note in particular the increase in the level of PAY beginning IBNR over the months. Part of this will be as a response to valuations and showing up as a beginning IBNR change one month after the valuation is implemented (i.e. April, June, September, and November).



*New Brunswick RSP Levels that influence<sup>7</sup> Recorded activity by Calendar Month*


We track PAY beginning IBNR as **recorded** activity comes out of IBNR. Changes in the PAY beginning IBNR (see upper left chart above) occur for several possible reasons:

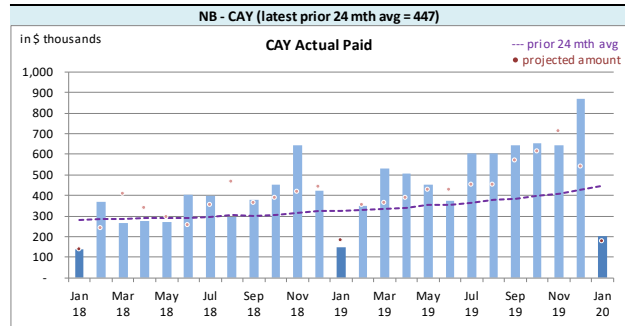
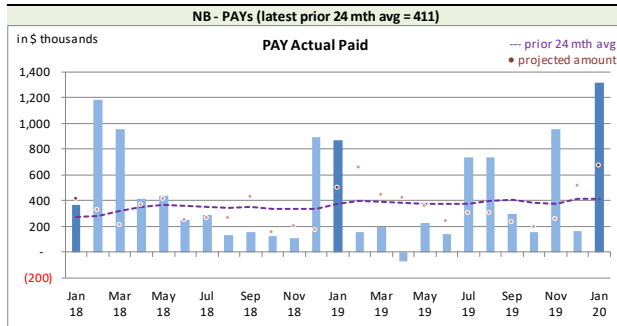
- to offset actual **recorded** activity (through loss ratio matching);
- the annual switchover as a CAY becomes a PAY (occurs in January); and
- when a new valuation is implemented, where the valuation resulted in changes to the selection of PAYs’ ultimates (will show up as a beginning IBNR change one month after the valuation is implemented, i.e. the change will generally show in April, June, September, and November).

### 2.1.c AvsP: Paid Indemnity & Allowed Claims Expense

The charts at the top of the next page show actual **paid** activity in each of the most recent 25 calendar months, along with a “prior 24-month average” to show how each month’s actual compares with the average amount of the preceding 24 calendar months.

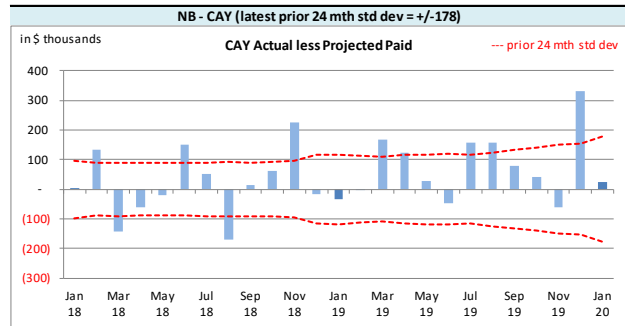
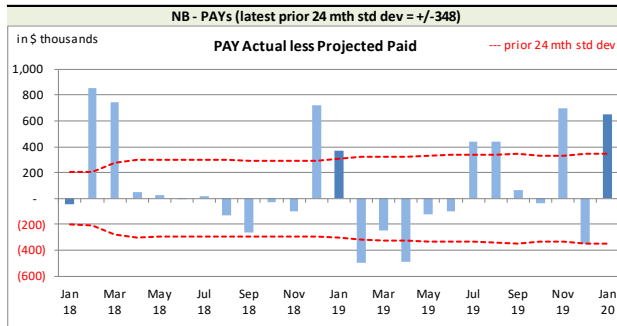
<sup>7</sup>Our recorded activity projections for the prior accident years are based on selected ratios of recorded activity to beginning unpaid balances, whereas the current accident year projections are based on selected ratios of year-to-date IBNR to year-to-date selected ultimate (i.e. selected LR x earned premium), deriving year-to-date recorded as selected ultimate less IBNR. In both cases, the ratio selection is based on our review of the more recent recorded activity and recent AvsP analyses.

*New Brunswick RSP Actual Paid activity by Calendar Month*



**Paid** activity variances from the previous month’s projections are shown in the charts below, including the “prior 24-month standard deviation” levels to show how the variances from projection compare with historical standard deviations.

*New Brunswick RSP Actual vs Projected Summary: Paid Variances by Calendar Month*



| On Latest \$ thousands         |      |       |       |
|--------------------------------|------|-------|-------|
|                                | Paid | PAYs  | CAY   |
| Mthly Avg Paid (prior 24 mths) |      | 411   | 447   |
| std dev                        |      | 348   | 178   |
| A-P <> std dev                 |      | 11    | 10    |
| % <> std dev                   |      | 44.0% | 40.0% |
| norm <> std dev                |      | 31.7% | 31.7% |
| performance vs 24-mth avg:     |      | worse | worse |

With respect to **paid** indemnity & allowed claims expense, caution must be exercised in reviewing the variances as this is a small pool, and single claim transactions that are normal course for the business may look unusual and generate relatively significant variances that in nominal value terms are not that significant in relative or overall terms. That said, 44% of the prior accident years’ (PAYs)

variances over the last 25 calendar months have fallen outside of one standard deviation of the actual **paid** amounts (see table above), suggesting the projection process has performed worse than simply projecting the prior 24-month average amount (assuming a normal distribution). Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (12 of 25 variances are positive).

The PAYs **paid** variances were outside of the one standard deviation band this month (see left chart above). The activity was reviewed and attributed to process variance.

The current accident year (CAY) **paid** variances fell outside of one standard deviation 40% of the time over the last 25 calendar months (see table above), suggesting that the projection process has performed worse than simply projecting the prior 24-month average amount. Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (16 of 25 variances are positive).

The CAY **paid** variances were outside of the one standard deviation band this month (see left chart at the bottom of the previous page). The activity was reviewed and attributed to process variance.

We have included, for reference, additional charts below related to levels influencing **paid** activity.

*New Brunswick RSP Levels that influence<sup>8</sup> Paid activity by Calendar Month*



We track the PAY beginning unpaid balance (case and IBNR) as **paid** activity comes out of the unpaid balance. Changes in the PAY beginning unpaid balance (see upper left chart above) occur for several possible reasons:

- to offset actual **paid** activity (may reduce case or IBNR or both);
- the annual switchover as a CAY becomes a PAY (occurs in January); and
- when a new valuation is implemented, where the valuation resulted in changes to the selection of PAYs’ ultimates (will show up as a beginning unpaid balance change one month after the valuation is implemented, i.e. the change will generally show in April, June, September, and November).

## 2.2 Actuarial Provisions

An ultimate loss ratio matching method (described in section 3) was used to determine the month’s IBNR<sup>9</sup>, and factors were applied to the nominal unpaid claims liability (case plus IBNR) to determine the discount amount (shown as a negative value to indicate its impact of reducing the liability) and the

<sup>8</sup>Our paid projections for the prior accident years are based on selected ratios of paid to beginning unpaid balances, whereas the current accident year projections are based on selected ratios of year-to-date paid to year-to-date selected ultimate indemnity (i.e. selected LR x earned premium). In both cases, the ratio selection is based on our review of the more recent recorded activity and recent AvsP analyses.

<sup>9</sup>For ease of discussion, “IBNR” is used in place of “provisions for incurred but not recorded (IBNR) and development”.

Provisions for Adverse Deviations. The loss ratios and the factors used to determine the current month’s provisions and projections were based on the applicable valuation.

The table below summarizes variances in provisions included in this month’s Operational Report and the associated one-month projections from last month’s Report.

*New Brunswick RSP Actual vs Projected Summary: IBNR and APV Amounts (\$ thousands)*

| Table 02      |              | actuarial present value adjustments |              |                       |              |                                   |              |  |
|---------------|--------------|-------------------------------------|--------------|-----------------------|--------------|-----------------------------------|--------------|--|
|               |              | IBNR                                |              | Discount Amount       |              | Provisions for Adverse Deviations |              | IBNR + actuarial present value adjustments |
| Accident Year | Actual       | Actual less Projected               | Actual       | Actual less Projected | Actual       | Actual less Projected             | Actual       | Actual less Projected                      |
| Prior         | 2,135        | (21)                                | (315)        | 10                    | 1,159        | (54)                              | 2,979        | (65)                                       |
| 2018          | 1,970        | 220                                 | (190)        | (5)                   | 518          | 13                                | 2,298        | 228  |
| 2019          | 1,976        | (329)                               | (247)        | 12                    | 605          | (27)                              | 2,334        | (344)                                      |
| 2020          | 455          | 25                                  | (42)         | 1                     | 100          | (2)                               | 513          | 24   |
| <b>TOTAL</b>  | <b>6,536</b> | <b>(105)</b>                        | <b>(794)</b> | <b>18</b>             | <b>2,382</b> | <b>(70)</b>                       | <b>8,124</b> | <b>(157)</b>                               |

The IBNR provision is \$0.1 million lower than projected from last month, counterbalancing the recorded claims activity and adjusting for the earned premium variance impacts indicated in section 2.1.

Exhibit G shows the accident year IBNR amount change from last month to this month broken down into:

- (i) the change projected last month;
- (ii) the additional change due to variances in earned premium (because we apply a loss ratio to earned premium in determining ultimate level) and/or recorded claims (as IBNR is calculated as ultimate less recorded) differences; and
- (iii) the additional change due to valuation implementation impacts (as applicable)

The variances associated with (ii) above are discussed in sections 2.1.a and 2.1.b.

The table at the top of the next page summarizes the variances in the provisions for premium deficiency liability / (deferred policy acquisition cost asset) included in this month’s Operational Report and the one-month projections from last month’s Report. This RSP is in a deferred policy acquisition cost asset position (shown as a negative amount) prior to and after actuarial present value adjustments. Actuarial present value adjustments decrease the asset value as the adjustments increase the expected future policy obligations (costs) associated with the unearned premium. The variances noted are mainly driven by the unearned premium variance.

*New Brunswick RSP Actual vs Projected Summary: Premium Deficiency / (DPAC) Amounts (\$ thousands)*

Table 03

|                                | Premium Deficiency /<br>(Deferred Policy<br>Acquisition Costs) |                          | actuarial present value<br>adjustments |                          | Premium Deficiency /<br>(DPAC) including<br>actuarial present value<br>adjustments |                          |
|--------------------------------|--|--------------------------|--|--------------------------|--|--------------------------|
|                                | Actual   | Actual less<br>Projected | Actual                                 | Actual less<br>Projected | Actual   | Actual less<br>Projected |
| balance:                       | (2,098)  | (70)                     | 389                                    | 14                       | (1,709)  | (56)                     |
| balance as % unearned premium: | (24.4%)  | -                        | 4.5%                                   | -                        | (19.9%)  | -                        |
| actual unearned premium:       | 8,597  |                          |  |                          |  |                          |
| less projected:                | 293  |                          |  |                          |  |                          |

### 3 Ultimate Loss Ratio Matching Method

An “ultimate loss ratio matching method” continues to be applied to the current month and two projected months shown in the Operational Reports, with IBNR determined by accident year as follows:

- (a) Earned premium to-date
- (b) Ultimate loss<sup>10</sup> ratio per latest valuation
- (c) Estimated ultimate incurred = (a) x (b)
- (d) Recorded indemnity & allowed claims expense to-date
- (e) IBNR = (c) – (d)

### 4 Calendar Year-to-Date Results

The table at the top of the next page summarizes the calendar year-to-date results for indemnity & allowed claims expenses<sup>11</sup>, including IBNR.

In calculating the amounts as percentages of earned premium, the calendar year-to-date earned premium has been used, which includes not only the earned premium associated with the current accident year, but also earned premium adjustments related to prior accident years. Specifically, the current accident year (CAY) ratio in the table is 73.8% rather than 73.0% (the valuation ultimate ratio for accident year 2020), as the calendar year-to-date earned premium includes prior accident year earned premium adjustments. (Note that the ratios in this table may differ slightly from those shown in the New Brunswick RSP Summary of Operations due to rounding.)

<sup>10</sup>“Loss” here refers to indemnity and allowed claims expenses, but does not include the claims expense allowance included in member company overall expense allowances (“Expense Allowance” in the Operational Report).

<sup>11</sup>Allowed claims expenses are first party legal and other expenses as listed in the RSP Claims Guide. Claims expenses paid through the member company expense allowance are NOT included in this analysis.

*New Brunswick RSP Calendar Year-to-Date Indemnity & Allowed Claims Expense Summary (\$ thousands)*

| Table 04 | YTD Nominal Values |        | YTD actuarial present value adjustment |        | YTD Total |        | Change from Prior Month YTD |        |
|----------|--------------------|--------|--|--------|-----------|--------|-----------------------------|--------|
|          | Amount             | % EP   | Amount                                 | % EP   | Amount    | % EP   | Amount                      | LR pts |
| PAYs     | (14)               | (1.0%) | (31)                                   | (2.2%) | (45)      | (3.1%) | #N/A                        | #N/A   |
| CAY      | 1,057              | 73.8%  | 58                                     | 4.1%   | 1,115     | 77.9%  | #N/A                        | #N/A   |
| TOTAL    | 1,043              | 72.9%  | 27                                     | 1.9%   | 1,070     | 74.7%  | #N/A                        | #N/A   |

(“% EP” based on 2019 calendar year-to-date earned premium; ratios may not total due to rounding)

In general, prior accident years (PAYs) changes from last month are due to the release of the actuarial present value adjustments with claims payments, except when valuations are implemented. The loss ratio change year-to-date in Table 04 reflects not only changes in the prior accident year levels, but also the increase in the calendar year-to-date earned premium with an additional month’s earned premium.

For the current accident year (CAY), changes in the year-to-date total reflects the additional month’s exposure and regular changes to actuarial present value adjustments as the year ages.

## 5 Current Operational Report – Additional Exhibits

Section 6 provides exhibits pertaining to the actuarial provisions reflected in the current month’s Operational Report.

IBNR (including actuarial present value adjustments) presented in section 6, Exhibit A, were derived on a discounted basis, and therefore reflect the time value of money and include an explicit provision for adverse deviations in accordance with accepted actuarial practice in Canada.

IBNR presented in section 6, Exhibit B, does NOT include any actuarial present value adjustments. The “Total IBNR” from this exhibit is shown in the Operational Report as “Undiscounted IBNR”.

The ultimate loss ratios detailed in section 6, Exhibit B, refer to the estimates derived on the basis of various actuarial methodologies applied to the experience of the New Brunswick Risk Sharing Pool for the purposes of the most recent quarterly valuation. As discussed in section 3, IBNR reflected in the current month’s Operational Report was derived as the difference between the estimated ultimate for the claims amount (i.e. earned premium x ultimate loss ratio) and the associated current recorded amounts (life-to-date payments plus current case reserves).

## 6 EXHIBITS

The exhibits listed below are provided on the pages that follow:

- EXHIBIT A IBNR for Member Sharing – includes Actuarial Present Value Adjustments
- EXHIBIT B IBNR
- EXHIBIT C Premium Liabilities
- EXHIBIT D Projected Year-end Policy Liabilities
- EXHIBIT E Discount Rate & Margins for Adverse Deviations
- EXHIBIT F Interest Rate Sensitivity
- EXHIBIT G Components of IBNR Change During Month

**EXHIBIT A**

**IBNR for Member Sharing – includes Actuarial Present Value Adjustments**

TABLE EXHIBIT A

|  |               | Amounts in \$000s |                  |                     |                     |                     |
|--|---------------|-------------------|------------------|---------------------|---------------------|---------------------|
| IBNR + M/S actuarial present value adjustments | Accident Year | Actual Dec. 2019  | Actual Jan. 2020 | Projected Feb. 2020 | Projected Mar. 2020 | Projected Dec. 2020 |
|  | 2005          | (2)               | (2)              | (2)                 | (2)                 | (2)                 |
|  | 2006          | -                 | -                | -                   | -                   | -                   |
|  | 2007          | (4)               | (4)              | (4)                 | (4)                 | (4)                 |
|  | 2008          | 11                | 11               | 11                  | 11                  | 10                  |
|  | 2009          | 16                | 17               | 18                  | 17                  | 14                  |
|  | 2010          | 29                | 29               | 29                  | 29                  | 25                  |
|  | 2011          | 49                | 49               | 49                  | 49                  | 42                  |
|  | 2012          | 117               | 114              | 112                 | 111                 | 95                  |
|  | 2013          | 153               | 191              | 187                 | 185                 | 156                 |
|  | 2014          | 59                | 11               | 12                  | 12                  | 14                  |
| discount rate                                  | 2015          | 472               | 430              | 421                 | 418                 | 353                 |
| 1.43%  | 2016          | 668               | 665              | 651                 | 630                 | 497                 |
|  | 2017          | 1,472             | 1,468            | 1,411               | 1,368               | 1,115               |
| interest rate margin                           | 2018          | 2,204             | 2,298            | 2,225               | 2,160               | 1,731               |
| 25 basis pts                                   | 2019          | 2,871             | 2,334            | 2,305               | 2,276               | 1,846               |
|  | 2020          | -                 | 513              | 646                 | 958                 | 2,951               |
|  | 2021          | -                 | -                | -                   | -                   | -                   |
|  | <b>TOTAL</b>  | <b>8,115</b>      | <b>8,124</b>     | <b>8,071</b>        | <b>8,218</b>        | <b>8,843</b>        |
|  | Change        |                   | 9                | (53)                | 147                 |                     |

*Please see Exhibit G, page 1 for Components of Change during Current Month*

EXHIBIT B

IBNR

TABLE EXHIBIT B

Amounts in \$000s

| IBNR | Ultimate<br>Loss Ratio | Accident<br>Year | Actual<br>Dec. 2019 | Actual<br>Jan. 2020 | Projected<br>Feb. 2020 | Projected<br>Mar. 2020 | Projected<br>Dec. 2020 |
|------|------------------------|------------------|---------------------|---------------------|------------------------|------------------------|------------------------|
|      | 84.0%                  | 2005             | (2)                 | (2)                 | (2)                    | (2)                    | (2)                    |
|      | 53.2%                  | 2006             | -                   | -                   | -                      | -                      | -                      |
|      | 72.0%                  | 2007             | (4)                 | (4)                 | (4)                    | (4)                    | (4)                    |
|      | 76.3%                  | 2008             | 4                   | 4                   | 4                      | 4                      | 4                      |
|      | 86.1%                  | 2009             | (4)                 | (4)                 | (4)                    | (4)                    | (4)                    |
|      | 58.4%                  | 2010             | 20                  | 20                  | 20                     | 20                     | 18                     |
|      | 87.5%                  | 2011             | 11                  | 11                  | 11                     | 11                     | 10                     |
|      | 59.7%                  | 2012             | 42                  | 40                  | 39                     | 39                     | 33                     |
|      | 77.5%                  | 2013             | 48                  | 84                  | 82                     | 81                     | 67                     |
|      | 62.8%                  | 2014             | (25)                | (75)                | (73)                   | (72)                   | (59)                   |
|      | 64.9%                  | 2015             | 356                 | 354                 | 346                    | 343                    | 288                    |
|      | 67.4%                  | 2016             | 574                 | 561                 | 550                    | 533                    | 411                    |
|      | 82.5%                  | 2017             | 1,173               | 1,146               | 1,102                  | 1,069                  | 853                    |
|      | 74.1%                  | 2018             | 1,882               | 1,970               | 1,911                  | 1,854                  | 1,461                  |
|      | 74.2%                  | 2019             | 2,479               | 1,976               | 1,956                  | 1,936                  | 1,587                  |
|      | 73.0%                  | 2020             | -                   | 455                 | 549                    | 816                    | 2,477                  |
|      | 75.0%                  | 2021             | -                   | -                   | -                      | -                      | -                      |
|      |                        | <b>TOTAL</b>     | <b>6,554</b>        | <b>6,536</b>        | <b>6,487</b>           | <b>6,624</b>           | <b>7,140</b>           |
|      |                        | Change           |                     | (18)                | (49)                   | 137                    |                        |

Please see Exhibit G, page 2 for Components of Change during Current Month



**EXHIBIT C**
**Premium Liabilities**

TABLE EXHIBIT C

| Premium Liabilities   | Amounts in \$000s |           |           |           |           |
|---|-------------------|-----------|-----------|-----------|-----------|
|   | Actual            | Actual    | Projected | Projected | Projected |
|   | Dec. 2019         | Jan. 2020 | Feb. 2020 | Mar. 2020 | Dec. 2020 |
| (1) unearned premium (UP)                                   | 8,774             | 8,597     | 7,887     | 8,050     | 8,350     |
| <b>FOR MEMBER SHARING</b>                                   |                   |           |           |           |           |
| (2) expected future costs ratio {% of (1)}                  | 80.1%             | 80.1%     | 80.1%     | 80.2%     | 82.2%     |
| (3) expected future costs {(1) x (2)}                       | 7,028             | 6,888     | 6,320     | 6,459     | 6,866     |
| (4) premium deficiency / (deferred policy acquisition cost) | (1,746)           | (1,709)   | (1,567)   | (1,591)   | (1,484)   |
| <b>Excluding Actuarial Present Value Adjustments</b>        |                   |           |           |           |           |
| (5) expected future costs ratio {% of (1)}                  | 75.6%             | 75.6%     | 75.6%     | 75.7%     | 77.6%     |
| (6) expected future costs {(1) x (5)}                       | 6,631             | 6,499     | 5,963     | 6,093     | 6,477     |
| (7) premium deficiency / (deferred policy acquisition cost) | (2,143)           | (2,098)   | (1,924)   | (1,957)   | (1,873)   |

EXHIBIT D

Projected Year-end Policy Liabilities

The table below presents the projected policy liabilities as at December 31, 2020, broken down by component.

| New Brunswick        |                  | Projected Balances as at Dec. 31, 2020 (\$000s) |                 |          |  |                          |                           |                  |            |        |  |
|----------------------|------------------|---|-----------------|----------|--|--------------------------|---------------------------|------------------|------------|--------|--|
| ending 2020          |                  | nominal values                                  |                 |          | actuarial present value adjustments (apvs) |                          |                           |                  |            |        |  |
| Acc Yr               | Case             | IBNR  | Total Unpaid    | discount | investment PfAD                            | nominal development PfAD | development PfAD discount | development PfAD | Total apvs | TOTAL  |  |
| 2005                 | -                | (2)   | (2)             | -        | -  | -                        | -                         | -                | -          | (2)    |  |
| 2006                 | -                | -   | -               | -        | -  | -                        | -                         | -                | -          | -      |  |
| 2007                 | -                | (4)   | (4)             | -        | -  | -                        | -                         | -                | -          | (4)    |  |
| 2008                 | 64               | 4   | 68              | (1)      | -  | 7                        | -                         | 7                | 6          | 74     |  |
| 2009                 | 215              | (4)   | 211             | (4)      | 1  | 21                       | -                         | 21               | 18         | 229    |  |
| 2010                 | 75               | 18  | 93              | (2)      | -  | 9                        | -                         | 9                | 7          | 100    |  |
| 2011                 | 395              | 10  | 405             | (9)      | 2  | 40                       | (1)                       | 39               | 32         | 437    |  |
| 2012                 | 755              | 33  | 788             | (18)     | 3  | 79                       | (2)                       | 77               | 62         | 850    |  |
| 2013                 | 1,056            | 67  | 1,123           | (24)     | 3  | 112                      | (2)                       | 110              | 89         | 1,212  |  |
| 2014                 | 1,002            | (59)  | 943             | (23)     | 4  | 94                       | (2)                       | 92               | 73         | 1,016  |  |
| 2015                 | 582              | 288   | 870             | (24)     | 4  | 87                       | (2)                       | 85               | 65         | 935    |  |
| 2016                 | 787              | 411   | 1,198           | (36)     | 6  | 120                      | (4)                       | 116              | 86         | 1,284  |  |
| 2017                 | 2,199            | 853   | 3,052           | (119)    | 21   | 375                      | (15)                      | 360              | 262        | 3,314  |  |
| 2018                 | 2,026            | 1,461   | 3,487           | (157)    | 24   | 422                      | (19)                      | 403              | 270        | 3,757  |  |
| 2019                 | 2,125            | 1,587   | 3,712           | (178)    | 30   | 427                      | (20)                      | 407              | 259        | 3,971  |  |
| PAYs (sub-total):    | 11,281           | 4,663   | 15,944          | (595)    | 98   | 1,793                    | (67)                      | 1,726            | 1,229      | 17,173 |  |
| CAY (2020)           | 4,459            | 2,477   | 6,936           | (340)    | 55   | 798                      | (39)                      | 759              | 474        | 7,410  |  |
| claims liabilities:  | 15,740           | 7,140   | 22,880          | (935)    | 153  | 2,591                    | (106)                     | 2,485            | 1,703      | 24,583 |  |
|                      | Unearned Premium | Premium Deficiency / (DPAC)                     | Total Provision | discount | investment PfAD                            | nominal development PfAD | development PfAD discount | development PfAD | Total apvs | TOTAL* |  |
| premium liabilities: | 8,350            | (1,873)   | 6,477           | (200)    | 31   | 576                      | (18)                      | 558              | 389        | 6,866  |  |
| policy liabilities:  |                  |   | 29,357          | (1,135)  | 184  | 3,167                    | (124)                     | 3,043            | 2,092      | 31,449 |  |

\*Total may not be sum of parts, as apvs apply to future costs within UPR

EXHIBIT E

Discount Rate & Margins for Adverse Deviations

The tables below present selected margins for adverse development by coverage (the total is a weighted average, based on the unpaid claims projection for December 31, 2019 from the valuation), followed by the selected discount rate and the associated margin for investment income.

Selected Claims Development MfADs (Sep. 30,  
2019)

| Accident<br>Year | Third Party<br>Liability<br>Margins | Accident<br>Benefits<br>Margins | Other<br>Coverages<br>Margins | Total<br>Margins |
|------------------|-------------------------------------|---------------------------------|-------------------------------|------------------|
| 2005             | 10.0%                               | 10.0%                           | 10.0%                         | 10.0%            |
| 2006             | 10.0%                               | 10.0%                           | 10.0%                         | 10.0%            |
| 2007             | 10.0%                               | 10.0%                           | 10.0%                         | 10.0%            |
| 2008             | 10.0%                               | 10.0%                           | 10.0%                         | 10.0%            |
| 2009             | 10.0%                               | 10.0%                           | 10.0%                         | 10.0%            |
| 2010             | 10.0%                               | 10.0%                           | 10.0%                         | 10.0%            |
| 2011             | 10.0%                               | 10.0%                           | 10.0%                         | 10.0%            |
| 2012             | 10.0%                               | 10.0%                           | 10.0%                         | 10.0%            |
| 2013             | 10.0%                               | 10.0%                           | 10.0%                         | 10.0%            |
| 2014             | 10.0%                               | 10.0%                           | 10.0%                         | 10.0%            |
| 2015             | 10.0%                               | 10.0%                           | 10.0%                         | 10.0%            |
| 2016             | 10.0%                               | 10.0%                           | 8.7%                          | 10.0%            |
| 2017             | 12.5%                               | 10.0%                           | 10.7%                         | 12.3%            |
| 2018             | 12.5%                               | 10.0%                           | 12.5%                         | 12.1%            |
| 2019             | 12.3%                               | 10.0%                           | 5.6%                          | 11.5%            |
| 2020             | 11.7%                               | 10.0%                           | 5.1%                          | 9.2%             |
| <u>prem liab</u> | <u>11.7%</u>                        | <u>10.0%</u>                    | <u>5.1%</u>                   | <u>9.2%</u>      |

discount rate: 1.43%  
margin (basis points): 25

**EXHIBIT F**
**Interest Rate Sensitivity**

The tables below present sensitivity to the member statement claims liability as projected to Dec. 31, 2019 from the latest valuation date (projections in exhibits A to D are to Dec. 31, 2020, and are based on more up-to-date information). We have included the most recent valuation selection (1.43%), the prior valuation assumption (1.41%) and the prior fiscal year end valuation assumption (2.29%) for comparative purposes. A 25 basis point margin for investment return adverse deviation is used in all scenarios presented.

\$ Format: \$000s

| Actuarial Present Value of Provisions at Various Discount Rates - Dec. 31, 2019 projected Unpaid |               |               |                     |               |               |               |                      |                          |
|--|---------------|---------------|---------------------|---------------|---------------|---------------|----------------------|--------------------------|
| AY   | 0.43%         | 0.93%         | 1.43%               | 1.93%         | 2.43%         | 2.93%         | 1.41%                | 2.29%                    |
| 2005   | -             | -             | -                   | -             | -             | -             | -                    | -                        |
| 2006   | -             | -             | -                   | -             | -             | -             | -                    | -                        |
| 2007   | -             | -             | -                   | -             | -             | -             | -                    | -                        |
| 2008   | 79            | 78            | 78                  | 77            | 77            | 76            | 78                   | 77                       |
| 2009   | 225           | 223           | 222                 | 220           | 219           | 217           | 222                  | 219                      |
| 2010   | 109           | 108           | 107                 | 106           | 106           | 105           | 107                  | 106                      |
| 2011   | 469           | 465           | 462                 | 458           | 454           | 451           | 462                  | 455                      |
| 2012   | 876           | 870           | 863                 | 857           | 851           | 845           | 864                  | 853                      |
| 2013   | 2,244         | 2,225         | 2,206               | 2,188         | 2,170         | 2,153         | 2,207                | 2,175                    |
| 2014   | 1,153         | 1,141         | 1,130               | 1,120         | 1,109         | 1,099         | 1,131                | 1,112                    |
| 2015   | 1,636         | 1,619         | 1,602               | 1,585         | 1,569         | 1,553         | 1,602                | 1,573                    |
| 2016   | 1,565         | 1,543         | 1,522               | 1,502         | 1,481         | 1,462         | 1,523                | 1,487                    |
| 2017   | 4,157         | 4,089         | 4,024               | 3,960         | 3,898         | 3,838         | 4,026                | 3,915                    |
| 2018   | 4,691         | 4,610         | 4,532               | 4,456         | 4,383         | 4,312         | 4,535                | 4,403                    |
| 2019   | 6,850         | 6,728         | 6,612               | 6,498         | 6,388         | 6,283         | 6,616                | 6,419                    |
| <b>Total</b>   | <b>24,054</b> | <b>23,699</b> | <b>23,360</b>       | <b>23,027</b> | <b>22,705</b> | <b>22,394</b> | <b>23,373</b>        | <b>22,794</b>            |
|  | curr - 100 bp | curr - 50 bp  | curr val assumption | curr + 50bp   | curr + 100bp  | curr + 150bp  | prior val assumption | prior fyr end assumption |

| Dollar Impact Relative to Valuation Assumption |               |              |                     |              |              |              |                      |                          |
|--|---------------|--------------|---------------------|--------------|--------------|--------------|----------------------|--------------------------|
| AY   | 0.43%         | 0.93%        | 1.43%               | 1.93%        | 2.43%        | 2.93%        | 1.41%                | 2.29%                    |
| <b>Total</b>                                   | <b>694</b>    | <b>339</b>   | <b>-</b>            | <b>(333)</b> | <b>(655)</b> | <b>(966)</b> | <b>13</b>            | <b>(566)</b>             |
|  | curr - 100 bp | curr - 50 bp | curr val assumption | curr + 50bp  | curr + 100bp | curr + 150bp | prior val assumption | prior fyr end assumption |

| Percentage Impact Relative to Valuation Assumption |               |              |                     |               |               |               |                      |                          |
|--|---------------|--------------|---------------------|---------------|---------------|---------------|----------------------|--------------------------|
| AY   | 0.43%         | 0.93%        | 1.43%               | 1.93%         | 2.43%         | 2.93%         | 1.41%                | 2.29%                    |
| 2005   | -             | -            | -                   | -             | -             | -             | -                    | -                        |
| 2006   | -             | -            | -                   | -             | -             | -             | -                    | -                        |
| 2007   | -             | -            | -                   | -             | -             | -             | -                    | -                        |
| 2008   | 1.3%          | -            | -                   | (1.3%)        | (1.3%)        | (2.6%)        | -                    | (1.3%)                   |
| 2009   | 1.4%          | 0.5%         | -                   | (0.9%)        | (1.4%)        | (2.3%)        | -                    | (1.4%)                   |
| 2010   | 1.9%          | 0.9%         | -                   | (0.9%)        | (0.9%)        | (1.9%)        | -                    | (0.9%)                   |
| 2011   | 1.5%          | 0.6%         | -                   | (0.9%)        | (1.7%)        | (2.4%)        | -                    | (1.5%)                   |
| 2012   | 1.5%          | 0.8%         | -                   | (0.7%)        | (1.4%)        | (2.1%)        | 0.1%                 | (1.2%)                   |
| 2013   | 1.7%          | 0.9%         | -                   | (0.8%)        | (1.6%)        | (2.4%)        | 0.0%                 | (1.4%)                   |
| 2014   | 2.0%          | 1.0%         | -                   | (0.9%)        | (1.9%)        | (2.7%)        | 0.1%                 | (1.6%)                   |
| 2015   | 2.1%          | 1.1%         | -                   | (1.1%)        | (2.1%)        | (3.1%)        | -                    | (1.8%)                   |
| 2016   | 2.8%          | 1.4%         | -                   | (1.3%)        | (2.7%)        | (3.9%)        | 0.1%                 | (2.3%)                   |
| 2017   | 3.3%          | 1.6%         | -                   | (1.6%)        | (3.1%)        | (4.6%)        | 0.0%                 | (2.7%)                   |
| 2018   | 3.5%          | 1.7%         | -                   | (1.7%)        | (3.3%)        | (4.9%)        | 0.1%                 | (2.8%)                   |
| 2019   | 3.6%          | 1.8%         | -                   | (1.7%)        | (3.4%)        | (5.0%)        | 0.1%                 | (2.9%)                   |
| <b>Total</b>                                       | <b>3.0%</b>   | <b>1.5%</b>  | <b>-</b>            | <b>(1.4%)</b> | <b>(2.8%)</b> | <b>(4.1%)</b> | <b>0.1%</b>          | <b>(2.4%)</b>            |
|  | curr - 100 bp | curr - 50 bp | curr val assumption | curr + 50bp   | curr + 100bp  | curr + 150bp  | prior val assumption | prior fyr end assumption |

EXHIBIT G

Page 1 of 2

Components of Member Statement IBNR (i.e. “Discounted”) Change During Month

RSP **New Brunswick**  
AccountCode Desc **IBNR - Discounted**

M/S IBNR - in \$000s

| AccYear            | Values                           |                         |                                     |   | Sum of Total Change | Sum of % Total Change | Sum of Current Month Final Amount |
|--------------------|----------------------------------|-------------------------|-------------------------------------|---|---------------------|-----------------------|-----------------------------------|
|                    | Sum of Prior Month Actual Amount | Sum of Projected Change | Sum of Change Due to AvsP Variances | Sum of Change Due to Valuation Implementation |                     |                       |                                   |
| 2005               | (2)                              | -                       | -                                   | -   | -                   | -                     | (2)                               |
| 2006               | -                                | -                       | -                                   | -   | -                   | -                     | -                                 |
| 2007               | (4)                              | -                       | -                                   | -   | -                   | -                     | (4)                               |
| 2008               | 11                               | 1                       | (1)                                 | -   | -                   | -                     | 11                                |
| 2009               | 16                               | 2                       | (1)                                 | -   | 1                   | 6.3%                  | 17                                |
| 2010               | 29                               | -                       | -                                   | -   | -                   | -                     | 29                                |
| 2011               | 49                               | 1                       | (1)                                 | -   | -                   | -                     | 49                                |
| 2012               | 117                              | (2)                     | (1)                                 | -   | (3)                 | (2.6%)                | 114                               |
| 2013               | 153                              | 2                       | 36                                  | -   | 38                  | 24.8%                 | 191                               |
| 2014               | 59                               | 3                       | (51)                                | -   | (48)                | (81.4%)               | 11                                |
| 2015               | 472                              | (5)                     | (37)                                | -   | (42)                | (8.9%)                | 430                               |
| 2016               | 668                              | (5)                     | 2                                   | -   | (3)                 | (0.4%)                | 665                               |
| 2017               | 1,472                            | 7                       | (11)                                | -   | (4)                 | (0.3%)                | 1,468                             |
| 2018               | 2,204                            | (134)                   | 228                                 | -   | 94                  | 4.3%                  | 2,298                             |
| 2019               | 2,871                            | (193)                   | (344)                               | -   | (537)               | (18.7%)               | 2,334                             |
| 2020               | -                                | 489                     | 24                                  | -   | 513                 | 100.0%                | 513                               |
| <b>Grand Total</b> | <b>8,115</b>                     | <b>166</b>              | <b>(157)</b>                        | <b>-</b>                                      | <b>9</b>            | <b>0.1%</b>           | <b>8,124</b>                      |

EXHIBIT G

Components of IBNR (i.e. “Undiscounted”) Change During Month

| RSP                |                                  | New Brunswick           |                                     |   |                     |                       |              | IBNR - in \$000s                  |
|--------------------|----------------------------------|-------------------------|-------------------------------------|---|---------------------|-----------------------|--------------|-----------------------------------|
| AccountCode Desc   |                                  | IBNR - Undiscounted     |                                     |   |                     |                       |              |                                   |
| AccYear            | Values                           |                         |                                     |   |                     |                       |              | Sum of Current Month Final Amount |
|                    | Sum of Prior Month Actual Amount | Sum of Projected Change | Sum of Change Due to AvsP Variances | Sum of Change Due to Valuation Implementation | Sum of Total Change | Sum of % Total Change |              |                                   |
| 2005               | (2)                              | -                       | -                                   | -   | -                   | -                     | (2)          |                                   |
| 2006               | -                                | -                       | -                                   | -   | -                   | -                     | -            |                                   |
| 2007               | (4)                              | -                       | -                                   | -   | -                   | -                     | (4)          |                                   |
| 2008               | 4                                | -                       | -                                   | -   | -                   | -                     | 4            |                                   |
| 2009               | (4)                              | -                       | -                                   | -   | -                   | -                     | (4)          |                                   |
| 2010               | 20                               | -                       | -                                   | -   | -                   | -                     | 20           |                                   |
| 2011               | 11                               | -                       | -                                   | -   | -                   | -                     | 11           |                                   |
| 2012               | 42                               | (1)                     | (1)                                 | -   | (2)                 | (4.8%)                | 40           |                                   |
| 2013               | 48                               | (1)                     | 37                                  | -   | 36                  | 75.0%                 | 84           |                                   |
| 2014               | (25)                             | 1                       | (51)                                | -   | (50)                | 200.0%                | (75)         |                                   |
| 2015               | 356                              | (7)                     | 5                                   | -   | (2)                 | (0.6%)                | 354          |                                   |
| 2016               | 574                              | (17)                    | 4                                   | -   | (13)                | (2.3%)                | 561          |                                   |
| 2017               | 1,173                            | (12)                    | (15)                                | -   | (27)                | (2.3%)                | 1,146        |                                   |
| 2018               | 1,882                            | (132)                   | 220                                 | -   | 88                  | 4.7%                  | 1,970        |                                   |
| 2019               | 2,479                            | (174)                   | (329)                               | -   | (503)               | (20.3%)               | 1,976        |                                   |
| 2020               | -                                | 430                     | 25                                  | -   | 455                 | 100.0%                | 455          |                                   |
| <b>Grand Total</b> | <b>6,554</b>                     | <b>87</b>               | <b>(105)</b>                        | <b>-</b>                                      | <b>(18)</b>         | <b>(0.3%)</b>         | <b>6,536</b> |                                   |