

# New Brunswick Risk Sharing Pool March 2022 Operational Report Actuarial Highlights

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# **ACTUARIAL HIGHLIGHTS**

# **RSP New Brunswick**

# **OPERATIONAL REPORT**

#### **MARCH 2022**

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#### 1 Summary

Note to members: this is the quarterly Actuarial Highlights we will release going forward to replace the monthly Actuarial Highlights. The next report will be available for reporting month May 2022 in July 2022, in line with the valuation implementation schedule. Please contact us with any questions or concerns in regards to this matter.

#### 1.1 Valuation Schedule (Fiscal Year 2022)

The March 2022 Operational Report incorporates the results of an updated valuation (as at December 31, 2021) – the impact of the implementation of the valuation is discussed in section 1.2. The following table summarizes the valuation implementations scheduled for fiscal year 2022.

New Brunswick Risk Sharing Pool Fiscal Year 2021 – Schedule of Valuations							
Valuation Date	Discount Rate (per annum)	Operational Report	Description of Changes				
Sep 30, 2021 (completed)	0.86% mfad <sup>1</sup> 25 bp	Oct. 2021	update valuation (roll-forward): ): accident year 2021 loss ratio decreased 1.2 points to 66.3%; discount rate increased by 10 basis points; no change to selected margins for adverse deviations				
Dec. 31, 2021 (completed)	1.07% mfad 25 bp	Mar. 2022	update valuation: accident year 2021 loss ratio decreased 2.0 points to 64.3% and accident year 2021 loss ratio increased 0.1 points to 84.2%; discount rate increased 21 basis points; no change to selected margins for adverse deviations				
Mar. 31, 2022	% mfad bp	May. 2022	update valuation (roll-forward):				
Jun. 30, 2022	% mfad bp	Aug. 2022	update valuation:				
Sep. 30, 2022	% mfad bp	Oct. 2022	update valuation (roll-forward):				

Under the proposed schedule for fiscal year 2022, the off-half valuation quarters ending March 31, 2022 and September 30, 2022 would not reflect a full valuation update of assumptions, but would rather roll-forward key assumptions from the previous valuation.

#### 1.2 New Valuation

A valuation of the New Brunswick Risk Sharing Pool ("RSP") as at December 31, 2021 has been

<sup>&</sup>lt;sup>1</sup> The selected interest rate margin is limited to reducing the selected discount rate to 0%; the approach is that if the net impact is negative, the discount rate will be capped at 0%.



completed since last month's Operational Report and the results of that valuation have been incorporated into this month's Report. The valuation was completed by the Facility Association's internal actuarial group in conjunction with, and approved by, the Appointed Actuary, under the hybrid model for actuarial services.

The valuation implementation impact is summarized in the following two tables, where the abbreviations PAYs refers to prior accident years, CAY refers to the current accident year (2022), and "Prem Def" refers to premium deficiency / deferred acquisition costs impacts.

Summary of Impact (\$000s) of Implementing Result of Valuation as at Dec. 31, 2021<sup>2</sup>

NB	unfav / (fav) for the month and ytd							
	IMPACT in \$000s from changes in:							
	ults 8	payout pat	terns	dsct rate	margins			
	Nominal	apv adj.	sub-tot	apv adj.	apv adj.	TOTAL		
	[1]	[2]	[3]	[4]	[5]	[6]		
PAYs	577	128	705	(158)	-	547		
CAY	5	1	6	(26)	-	(20)		
Prem Def	9	6	15	(44)	-	(29)		
TOTAL	591	135	726	(228)	-	498		

As indicated in the preceding table, the incorporation of the new valuation had an estimated **\$0.5** *million unfavourable impact* on the month's net result from operations, subtracting an estimated 9.4 points (see following table) from the **year-to-date Combined Operating Ratio** to end at **127.2%**. The impact is mainly due to changes in the ultimate loss estimates for prior accident years.

Summary of Impact (% YTD EP) of Implementing Result of Valuation as at Dec. 31, 2021

NB	ytd EP	5,307	(actual)						
	IN	IMPACT unfav / (fav) as % ytd EP from changes in:							
	ults 8	payout pat	terns	dsct rate	margins				
	Nominal	apv adj.	sub-tot	apv adj.	apv adj.	TOTAL			
	[1]	[2]	[3]	[4]	[5]	[6]			
PAYs	10.9%	2.4%	13.3%	(3.0%)	-	10.3%			
CAY	0.1%	-	0.1%	(0.5%)	-	(0.4%)			
Prem Def	0.2%	0.1%	0.3%	(0.8%)	-	(0.5%)			
TOTAL	11.1%	2.5%	13.7%	(4.3%)	-	9.4%			

The impact of the **nominal changes** is shown in column [1] of the two preceding summary tables. The change in the selected nominal ultimates was **unfavourable by \$0.6 million** overall. This reflects the impact attributable to the changes in the selected ultimate loss ratios (i.e. for each accident year, it is the product of life-to-date earned premium for the accident year and the change in the selected

<sup>&</sup>lt;sup>2</sup>In these tables, "PAYs" refers to prior accident years, "CAY" refers to the current accident year, and "Prem Def" refers to the provision for premium deficiency or the deferred policy acquisition asset (as applicable). "Nominal" refers to changes excluding any actuarial present value adjustments, whereas "apv adj." refers to actuarial present value adjustments.

The columns under the heading "ults & payout patterns" reflect the impact of changes in the valuation selected ultimates and claims payment patterns (i.e. based on unchanged selection of discount rates and margins for adverse deviation). The column "dsct rate" reflects the impact of the change in the selected discount rate and the column "margins" reflects the impact of any changes in selected margins for adverse deviations.



ultimate loss ratio).

The **PAYs** overall showed a **\$0.6** million <u>unfavourable</u> nominal variance or less than 2.3 % of the PAYs nominal unpaid balance of \$26.3 million determined at the end of last month (February 2022), relatively unchanged since the prior valuation.

The CAY and premium deficiency impacts were negligible as the nominal ultimate loss ratio for 2022 changed by just 0.1% in the latest valuation. This is a minimal change from the prior valuation. Please note that the 2022 accident year loss ratio is expected to increase in 2022 compared to 2021 as the new RSP harmonization rules come into effect, allowing companies to select up to 5% of their personal passenger automobile to cede to the pool at their discretion.

The impacts related to actuarial present value ("apv") adjustments are split into the impact prior to any change in the selected discount rate and selected margins for adverse deviations or "MfADs" (at the level they were selected i.e. coverage and accident half-year), the impact of then updating the discount rate, and finally the impact of any changes to the MfADs (at the level they were selected). The changes in actuarial present value adjustments are shown in the preceding summary tables in columns [2], [4], and [5].

Column [2] recognizes that changing the nominal selections also changed the unpaid estimates (including changes to the relative mix by government line, which has an impact on the weighted-average MfADs). It also reflects the fact that we updated the projected emergence of claims payments, resulting in a change in the projected cash flows. These changes generated an <u>unfavourable change of \$135 thousand in the actuarial present value adjustments, prior to any changes in the selected discount rate and/or MfADs.</u>

Updated projected cash flows were reviewed against the selected risk-free yield curve, derived from Government of Canada benchmark bond yields monthly series using values for December 2021. Column [4] accounts for the change in the **discount rate** selected (<u>in</u>creased 21 basis points to **1.07%**), indicating a favourable impact of \$184 thousand. The impact *related only to claims liabilities* (i.e. PAYs plus CAY) was \$228 thousand at March 2022 – this compares to the \$183 thousand change one would estimate as the impact by interpolation using the interest rate sensitivity table provided in last month's Actuarial Highlights.

Column [5] accounts for any changes to selected MfADs. The selected **investment rate MfAD** was **left unchanged at 25 basis points** and the selected **claims development MfADs** at the coverage and accident year level were also left unchanged (as per our usual practice, development margins are reviewed with the June 30 valuation).

Consideration was given to recent legal decisions and changes in legislation / regulation as outlined in section 1.4.

#### 1.3 Appointed Actuary and Hybrid Actuarial Services Model

The Annual General Meeting of the members of Facility Association ("FA") appointed Mr. Cosimo Pantaleo as the Appointed Actuary at its meeting on March 4, 2021.

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.

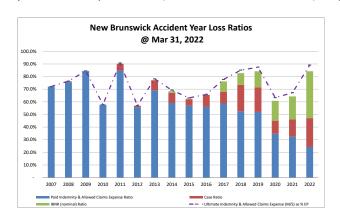
#### 1.4 Consideration of Recent Legal Decisions and Changes in Legislation / Regulation

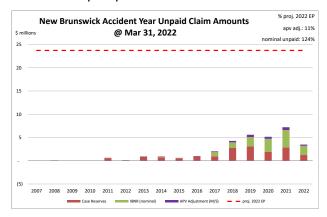
There have been no changes in these descriptions since last Highlights.

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.

#### 1.5 Current Provision Summary

The following charts show the current levels of claim liabilities<sup>3</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 2021 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.

The current actuarial present value adjustments balance (\$2.6 million – see the following table) represents 11% of the earned premium projected for the full year 2022 (see the upper right corner of the right chart above). 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.

<sup>&</sup>lt;sup>3</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.



claim liabilities (\$000s)		
	amt	%
case	16,583	51.6%
ibnr	12,913	40.2%
M/S apv adjust.	2,626	8.2%
M/S total	32,122	100.0%

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 45% of the IBNR balance relates to accident years 2021 and 2022 (see Exhibit B).

Approximately 80% of the M/S total claim liabilities are related to accident years 2018-2022 inclusive (i.e. the most recent 5 accident years), and approximately 3% is related to accident years 2012 and prior (i.e. prior to the most recent 10 accident years).

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

premium liabilities (\$0	000s)		policy liabilities (\$000s)				
	amt	%		amt	%		
unearned prem	9,439	107.3%	claim	29,496	72.1%		
prem def/(dpac)	(1,219)	(13.9%)	premium	8,220	20.1%		
M/S apv adjust.	578	6.6%	M/S apv adjust.	3,204	7.8%		
M/S total	8,798	100.0%	M/S total	40,920	100.0%		

#### 2 Activity since previous valuation implementation

#### 2.1 Recorded Premium and Claims Activity

The following table summarizes the extent to which premiums and claims amounts recorded since the prior implementation differ from the prior projection.

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

AY Group	Share Year	Share Month	Actual Earned Premium (000s)	Actual minus Projected Earned Premium (000s)	Actual Paid Claims (000s)	Actual minus Projected Paid Claims (000s)	Actual Recorded Claims (000s)	Actual minus Projected Recorded Claims (000s)
PAY	2021	November	(5)	(5)	268	(85)	43	(183)
		December	(1)	(1)	562	(123)	1,007	713
	2022	January	(8)	(8)	721	424	406	143
		February	(16)	(16)	350	(51)	(303)	(694)
		March	(6)	(6)	605	267	1,365	1,172
PAY Total			(36)	(36)	2,506	432	2,518	1,151
CAY	2021	November	1,706	(157)	445	(105)	432	(991)
		December	1,819	22	590	251	930	373
	2022	January	1,784	(46)	166	12	543	81
		February	1,596	51	567	252	885	292
		March	1,992	110	572	146	1,104	342
<b>CAY Total</b>			8,897	(20)	2,340	556	3,894	97
<b>Grand Total</b>			8,861	(56)	4,846	988	6,412	1,248

(Recorded transaction amounts exclude IBNR & other actuarial provisions)

Claims transaction activity is generally volatile and changes from one month to the next are



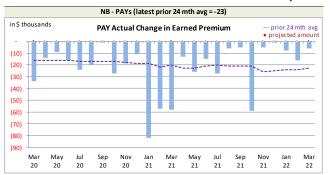
anticipated due to this natural "process variance" (i.e. random variation), and this is particularly true where volumes are low as found in this RSP. Each month, the projection variances are reviewed for signs of projection bias and to identify potential ways to reduce the level of the variance. The variances are also reviewed as part of the quarterly valuation process, as an indicator of changes in the claims development process or potential bias in ultimate claims estimates.

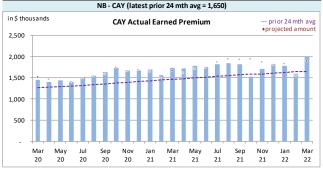
More detailed analysis and commentary on actual vs. projected for the most recent reporting months is provided below.

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

The following charts 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.

On Latest \$ thousands					
Earned Premium	PAYs	CAY			
Mthly Avg EP Chg (prior 24 mths)	(23)	1,650			
std dev	21	140			
A-P <> std dev	6	1			
% <> std dev	24.0%	4.0%			
norm <> std dev	31.7%	31.7%			
performance vs 24-mth avg:	better	better			

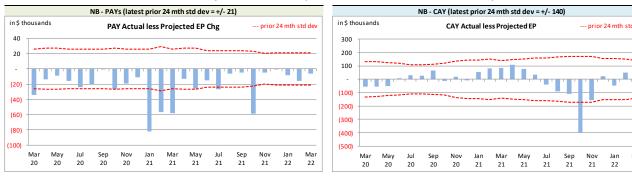
The associated variance between the actual changes and the projections from the previous month are shown in following charts. **Earned premium** change projections are all attributed to the current accident year as the projection upload does not accept **earned premium** changes for other accident years. 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.

<sup>&</sup>lt;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.



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



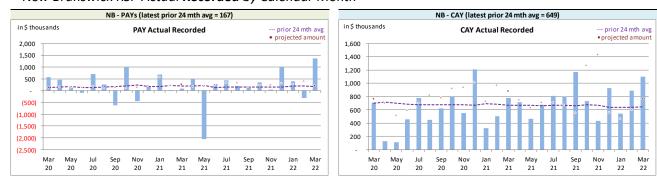
We project **earned premium** changes from known unearned premium balances and projected written premium levels, but upload the total projections as current accident year (CAY). This process has generated prior accident years' (PAYs) bias<sup>5</sup>, with actuals generally lower than our projections, although the magnitude is not high relative to monthly premium. However, for the CAY, bias<sup>6</sup> has not been indicated. Over time, we may consider other projection approaches to address the bias issue, but it is not currently deemed as 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 following charts 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



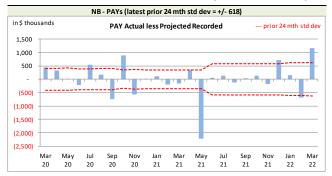
**Recorded** activity variances from the previous month's projections are shown in the following charts, including the "prior 24-month standard deviation" levels to show how the variances from projection compare with historical standard deviations.

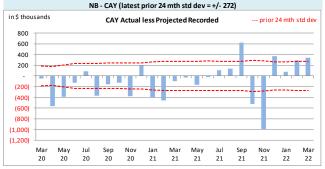
<sup>&</sup>lt;sup>5</sup>The PAYs' variances will show bias as the projection upload forces all earned premium projections to be attributed to the CAY.

<sup>&</sup>lt;sup>6</sup>For the binomial distribution with 25 trials and an assumed 50% success probability, the 95% confidence range is 8 to 17 successes. That is, favourable or unfavourable counts of 0 to 7 or 18 to 25 out of 25 outcomes would suggest bias.



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





On Latest \$ thousands					
Recorded	PAYs	CAY			
Mthly Avg Recorded (prior 24 mths)	167	649			
std dev	618	272			
A-P <> std dev	9	12			
% <> std dev	36.0%	48.0%			
norm <> std dev	31.7%	31.7%			
performance vs 24-mth avg:	no better	worse			

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

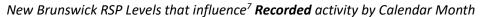
overall terms. That said, 36% of the prior accident years' (PAYs) **recorded** variances over the last 25 calendar months have fallen outside of one standard deviation of the actual **recorded** amounts (see preceding table to the left), suggesting the projection process has performed better than simply 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 (16 of 25 variances are positive).

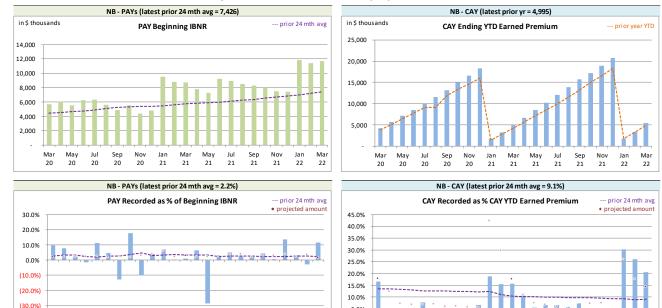
The current accident year (CAY) **recorded** variances fell outside of one standard deviation 48% of the time over the last 25 calendar months (see preceding table on the left), suggesting the projection process has performed no better than simply projecting the prior 24-month average amount. Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (9 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, the following charts 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).







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

5.0% 0.0%

May

- 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).

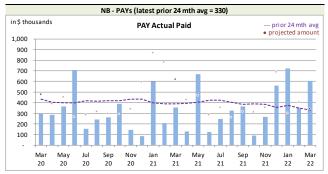
#### 2.1.c AvsP: Paid Indemnity & Allowed Claims Expense

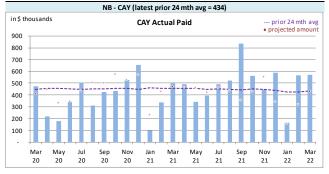
The following charts show actual **paid** activity in each of the most recent 25 calendar months, along with a "prior 24-month average" to show how each month's actual compares with the average amount of the preceding 24 calendar months.

<sup>&</sup>lt;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.



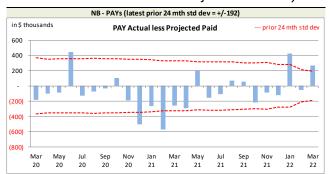
#### New Brunswick RSP Actual Paid activity by Calendar Month

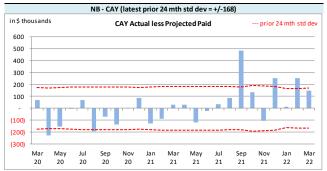




**Paid** activity variances from the previous month's projections are shown in the following charts, including the "prior 24-month standard deviation" levels to show how the variances from projection compare with historical standard deviations.

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





On Latest \$ thousands					
Paid	PAYs	CAY			
Mthly Avg Paid (prior 24 mths)	330	434			
std dev	192	168			
A-P <> std dev	5	5			
% <> std dev	20.0%	20.0%			
norm <> std dev	31.7%	31.7%			
performance vs 24-mth avg:	better	better			

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.

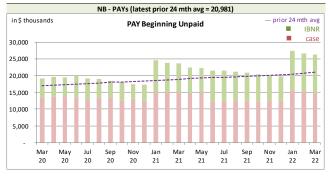
That said, 20% of the prior accident years' (PAYs) variances over the last 25 calendar months have fallen outside of one standard deviation of the actual **paid** amounts (see preceding table on the left), suggesting the projection process has performed no better than simply projecting the prior 24-month average amount (assuming a normal distribution). Bias has been indicated at a 95% confidence level on a rolling 25-month basis (7 of 25 variances are positive).

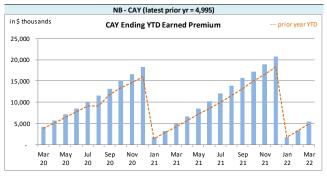
The current accident year (CAY) **paid** variances fell outside of one standard deviation 20% of the time over the last 25 calendar months (see preceding table on the left), suggesting that the projection process has performed better than simply projecting the prior 24-month average amount. Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (14 of 25 variances are positive).

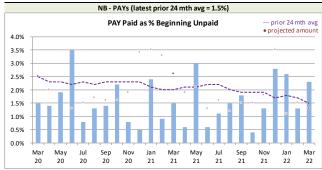


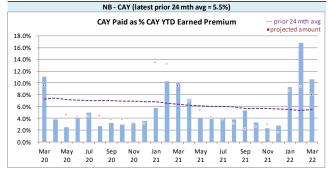
We have included, for reference, the following charts related to levels influencing paid activity.

New Brunswick RSP Levels that influence8 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 of the preceding group of charts) 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 Provisions for Adverse Deviations. The loss ratios and the factors used to determine the current

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



month's provisions and projections were based on the applicable valuation.

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)

#### 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 following table 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 84.7% rather than 84.2% (the valuation ultimate ratio for accident year 2022), 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>&</sup>lt;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>&</sup>lt;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		D Nominal Values YTD actuarial present value adjustment		YTD To	Change from Prior Mont YTD		
	Amount	% EP	Amount	% EP	Amount	% EP	Amount	LR pts
PAYs	558	10.4%	(188)	(3.5%)	370	6.9%	488	10.4%
CAY	4,523	84.7%	264	4.9%	4,787	89.6%	1,755	(0.8%)
TOTAL	5,081	95.1%	76	1.4%	5,157	96.5%	2,243	9.7%

("% EP" based on 2021 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, and due to the impact of valuation implementation.

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, and due to the impact of valuation implementation.

#### 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 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	Accident	Actual	Actual	Projected	Projected	Projected	Projected	Projected	Projected
value adjustments	Year	Feb. 2022	Mar. 2022	Apr. 2022	May. 2022	Jun. 2022	Jul. 2022	Aug. 2022	Dec. 2022
	2007	6	6	6	6	6	6	6	6
	2008	12	12	12	12	12	11	11	11
	2009	6	6	6	6	6	6	6	6
	2010	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)
	2011	(357)	57	56	54	53	53	51	50
	2012	38	12	12	11	11	11	11	11
	2013	107	104	101	99	98	97	94	90
	2014	(22)	214	209	203	201	198	192	182
	2015	96	96	93	90	89	88	85	81
	2016	190	40	40	37	36	36	36	34
discount rate	2017	1,357	1,046	1,024	1,001	990	974	947	887
1.07%	2018	1,205	1,532	1,516	1,501	1,486	1,419	1,404	1,335
	2019	2,703	2,515	2,469	2,446	2,421	2,393	2,363	2,267
interest rate margin	2020	3,204	3,271	3,209	3,176	2,978	2,924	2,880	2,639
25 basis pts	2021	5,620	4,377	4,293	4,250	4,196	4,136	4,041	3,780
	2022	1,604	2,255	3,042	3,549	3,941	4,284	4,564	5,155
	TOTAL	15,765	15,539	16,084	16,437	16,520	16,632	16,687	16,530
	Change		(226)	545	353	83	112	55	

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



Change

# **EXHIBIT B**

# **IBNR**

TABLE EXHIBIT B		Amounts in \$000s									
IBNR	Ultimate	Accident	Actual	Actual	Projected	Projected	Projected	Projected	Projected	Projected	
	Loss Ratio	Year	Feb. 2022	Mar. 2022	Apr. 2022	May. 2022	Jun. 2022	Jul. 2022	Aug. 2022	Dec. 2022	
	72.1%	2007	5	5	5	5	5	5	5	5	
	76.3%	2008	4	4	4	4	4	4	4	4	
	84.5%	2009	3	3	3	3	3	3	3	3	
	57.8%	2010	(2)	(2)	(2)	(2)	(2)	(2)	(2)	(2)	
	90.3%	2011	(375)	6	6	6	6	6	6	6	
	56.9%	2012	24	1	1	1	1	1	1	1	
	77.4%	2013	33	23	23	23	23	23	22	21	
	68.4%	2014	(81)	134	131	128	127	125	122	114	
	62.6%	2015	46	45	44	43	43	42	41	39	
	65.1%	2016	109	(37)	(36)	(35)	(35)	(34)	(33)	(32)	
	76.3%	2017	1,176	895	877	859	850	836	813	757	
	82.7%	2018	908	1,222	1,210	1,198	1,186	1,121	1,110	1,052	
	84.2%	2019	2,181	2,012	1,972	1,952	1,932	1,913	1,888	1,810	
	60.9%	2020	2,741	2,833	2,776	2,748	2,553	2,504	2,464	2,239	
	64.3%	2021	4,944	3,780	3,704	3,667	3,619	3,565	3,476	3,238	
	84.2%	2022	1,414	1,991	2,695	3,106	3,403	3,647	3,825	4,002	
		TOTAL	13,128	12,913	13,411	13,704	13,716	13,757	13,743	13,255	

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(215)

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

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(14)

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# **EXHIBIT C**

# **Premium Liabilities**

TABLE EXHIBIT C			,	Amounts in \$00	00s			
	Actual	Actual	Projected	Projected	Projected	Projected	Projected	Projected
Premium Liabilities	Feb. 2022	Mar. 2022	Apr. 2022	May. 2022	Jun. 2022	Jul. 2022	Aug. 2022	Dec. 2022
(1) unearned premium (UP)	10,092	9,439	10,504	11,298	12,426	13,566	14,568	16,388
FOR MEMBER SHARING								
(2) expected future costs ratio {% of (1)}	93.3%	93.2%	94.0%	95.0%	96.0%	97.2%	98.4%	103.9%
(3) expected future costs {(1) x (2)}	9,415	8,798	9,874	10,729	11,932	13,184	14,332	17,024
(4) premium deficiency / (deferred policy								
acquisition cost)	(677)	(641)	(630)	(569)	(494)	(382)	(236)	636
Excluding Actuarial Present Value Adjustments								
(5) expected future costs ratio {% of (1)}	86.8%	87.1%	87.8%	88.7%	89.7%	90.8%	91.9%	97.0%
(6) expected future costs {(1) x (5)}	8,756	8,220	9,227	10,023	11,147	12,317	13,388	15,902
(7) premium deficiency / (deferred policy								
acquisition cost)	(1,336)	(1,219)	(1,277)	(1,275)	(1,279)	(1,249)	(1,180)	(486)



# **EXHIBIT D**

# Projected Year-end Policy Liabilities

The table below presents the projected policy liabilities as at December 31, 2022, broken down by component.

New Brunswick	Projected Balances as at Dec. 31, 2022 (\$000s)										
ending 2022	nominal values										
Acc Yr	Case	IBNR	Total Unpaid	discount	investment PfAD	nominal development PfAD	development PfAD discount	development PfAD	Total apvs	TOTAL	
2007	-	5	5	-	-	1	-	1	1	6	
2008	65	4	69	-		7	-	7	7	76	
2009	25	3	28	-	-	3	-	3	3	31	
2010	-	(2)	(2)	-	-	-	-	-	-	(2)	
2011	486	6	492	(6)	2	49	(1)	48	44	536	
2012	104	1	105	(1)	-	11	-	11	10	115	
2013	709	21	730	(5)	1	73	-	73	69	799	
2014	639	114	753	(8)	2	75	(1)	74	68	821	
2015	442	39	481	(6)	1	48	(1)	47	42	523	
2016	801	(32)	769	(13)	3	77	(1)	76	66	835	
2017	829	757	1,586	(34)	8	159	(3)	156	130	1,716	
2018	2,553	1,052	3,605	(90)	21	361	(9)	352	283	3,888	
2019	2,811	1,810	4,621	(130)	30	573	(16)	557	457	5,078	
2020	2,067	2,239	4,306	(143)	33	527	(17)	510	400	4,706	
2021	2,767	3,238	6,005	(215)	49	734	(26)	708	542	6,547	
PAYs (sub-total):	14,298	9,253	23,551	(651)	150	2,698	(75)	2,623	2,122	25,673	
CAY (2022)	10,006	4,002	14,008	(513)	117	1,608	(59)	1,549	1,153	15,161	
claims liabilities:	24,304	13,255	37,559	(1,164)	267	4,306	(134)	4,172	3,275	40,834	
	Unearned Premium	Premium Deficiency / (DPAC)	Total Provision	discount	investment PfAD	nominal development PfAD	development PfAD discount	development PfAD	Total apvs	TOTAL*	
premium liabilities:	16,388	(486)	15,902	(407)	93	1,475	(39)	1,436	1,122	17,024	
						*	Total may not be s	um of parts, as ap	vs apply to future	costs within UPR	
policy liabilities:			53,461	(1,571)	360	5,781	(173)	5,608	4,397	57,858	



#### **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, 2022 from the valuation), followed by the selected discount rate and the associated margin for investment income.

Selected Claims Development MfADs

Accident Year	Third Party Liability	Accident Benefits	Other Coverages	Total	
	Margins	Margins	Margins	Margins	
2004	10.0%	10.0%	10.0%	10.0%	
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%	10.0%	10.0%	
2017	10.0%	10.0%	10.0%	10.0%	
2018	10.0%	10.0%	10.0%	10.0%	
2019	12.5%	10.0%	7.8%	12.4%	
2020	12.5%	10.0%	7.4%	12.2%	
2021	12.5%	10.0%	9.3%	12.2%	
2022	12.3%	10.0%	5.5%	11.5%	
prem liab	11.8%	10.0%	5.1%	9.5%	

discount rate: 1.07%

margin (basis points): 25

<sup>\*</sup>prem liabilities as at 2021m12



#### **EXHIBIT F**

# **Interest Rate Sensitivity**

The tables below present sensitivity to the member statement claims liability as projected to Dec. 31, 2022 from the latest valuation date (projections in exhibits A to D are to Dec. 31, 2022, and are based on more up-to-date information). We have included the most recent valuation selection (0.86%), the prior valuation assumption (1.07%) and the prior fiscal year end valuation assumption (0.22%) for comparative purposes. A 25 basis point margin for investment return adverse deviation is used in all scenarios presented.

						s - Dec. 31, 20		
AY	0.07%	0.57%	1.07%	1.57%	2.07%	2.57%	0.86%	0.22%
004 &								
orior	- 3	<del>-</del> .	-	-	-	-	-	-
2004				<u>-</u>	<u>-</u>			<u> </u>
2005	-	-	-	-	-	-	-	-
006								<u> </u>
007	-	-	-	-	-	-	-	-
800								
1009	10	10	10	10	10	10	10	10
010								
)11	450	448	445	443	440	437	447	450
)12	54	53	53	53	53	53	53	54
13	562	561	559	558	556	555	560	562
14	384	383	381	379	377	375	382	384
15	416	415	412	410	408	405	413	416
16	729	725	719	714	708	703	722	728
)17	1,552	1,542	1,526	1,511	1,496	1,482	1,533	1,552
18	3,371	3,344	3,305	3,267	3,229	3,193	3,321	3,370
19	5,076	5,030	4,964	4,899	4,836	4,774	4,992	5,074
20	4,354	4,307	4,240	4,174	4,111	4,049	4,268	4,351
21	6,668	6,591	6,479	6,371	6,266	6,164	6,526	6,664
22	11,457	11,320	11,123	10,933	10,749	10,570	11,205	11,450
			34,218		33,239		34,430	
tal	35,083	34,728		33,722		32,770		35,066
	curr - 100 bp	curr - 50 bp	curr val	curr + 50bp	curr + 100bp	curr + 150bp		prior fyr end
	1	1	assumption				assumption	assumption
	<u> </u>				o Valuation As			,
	0.07%	0.57%	1.07%	1 [70/			0.000/	0 220/
	-	0.0.70	1.07%	1.57%	2.07%	2.57%	0.86%	0.22%
ıl	865	511	1.07%	(496)	(978)	(1,447)	213	849
1	865 curr - 100 bp	-	curr val	(496)		(1,447)		,
<u> </u>		511	-	(496)	(978)	(1,447)	213	849
<u>                                     </u>		511	- curr val	(496)	(978)	(1,447)	213 prior val	849 prior fyr end
<u></u>		511	curr val assumption	(496) curr + 50bp	(978)	(1,447) curr + 150bp	213 prior val	849 prior fyr end
		511	curr val assumption	(496) curr + 50bp	(978) curr + 100bp	(1,447) curr + 150bp	213 prior val	849 prior fyr end
<u> </u>	curr - 100 bp	511 curr - 50 bp	curr val assumption Percentage I	(496) curr + 50bp mpact Relative	(978) curr + 100bp	(1,447) curr + 150bp Assumption	213 prior val assumption	849 prior fyr end assumption
	curr - 100 bp	511 curr - 50 bp	curr val assumption Percentage I 1.07%	(496) curr + 50bp mpact Relativ 1.57%	(978) curr + 100bp e to Valuation 2.07%	(1,447) curr + 150bp Assumption 2.57%	213 prior val assumption 0.86%	849 prior fyr end assumption 0.22%
r 1& or	curr - 100 bp	511 curr - 50 bp 0.57%	curr val assumption Percentage I 1.07%	(496) curr + 50bp mpact Relativ 1.57%	(978) curr + 100bp e to Valuation 2.07%	(1,447) curr + 150bp Assumption 2.57%	213 prior val assumption 0.86%	849 prior fyr end assumption 0.22%
1 & or 04	0.07% 0.07%	511 curr - 50 bp 0.57% 0.0%	curr val assumption Percentage I 1.07% 0.0%	(496) curr + 50bp mpact Relativ 1.57%; 0.0% 0.0%	(978) curr + 100bp e to Valuation 2.07%  0.0% 0.0%	(1,447) curr + 150bp Assumption 2.57% 0.0% 0.0%	213 prior val assumption 0.86% 0.0%	849 prior fyr end assumption  0.22%  0.0% 0.0%
,   &   or  4	0.07% 0.07% 0.0% 0.0%	511 curr - 50 bp 0.57% 0.0% 0.0%	- curr val assumption Percentage I 1.07% 0.0% 0.0% 0.0%	(496) curr + 50bp mpact Relativi 1.57%; 0.0% 0.0% 0.0%	(978) curr + 100bp e to Valuation 2.07% 0.0% 0.0% 0.0%	(1,447) curr + 150bp  Assumption 2.57%  0.0%  0.0%  0.0%	213 prior val assumption 0.86% 0.0% 0.0% 0.0%	849 prior fyr end assumption  0.22%  0.0%  0.0%  0.0%
, , & or , 4 , 95	0.0% 0.0% 0.0%	511 curr - 50 bp 0.57% 0.0% 0.0% 0.0%	- curr val assumption Percentage I 1.07% 0.0% 0.0% 0.0%	(496) curr + 50bp mpact Relativi 1.57%; 0.0% 0.0% 0.0%	(978) curr + 100bp e to Valuation 2.07%  0.0% 0.0% 0.0%	(1,447) curr + 150bp  Assumption 2.57%  0.0%  0.0%  0.0%  0.0%	213 prior val assumption  0.86%  0.0%  0.0%  0.0%	849 prior fyr end assumption 0.22% 0.0% 0.0% 0.0%
& or 4 4 5 6	0.07% 0.07% 0.0% 0.0% 0.0% 0.0%	511 curr - 50 bp 0.57% 0.0% 0.0% 0.0% 0.0%		(496) curr + 50bp mpact Relative 1.57%; 0.0% 0.0% 0.0% 0.0% 0.0%	(978) curr + 100bp  e to Valuation 2.07%  0.0% 0.0% 0.0% 0.0% 0.0%	(1,447) curr + 150bp  Assumption 2.57%  0.0% 0.0% 0.0% 0.0% 0.0%	213 prior val assumption  0.86%  0.0% 0.0% 0.0% 0.0% 0.0%	849 prior fyr end assumption 0.22% 0.0% 0.0% 0.0%
7   &   Or   14   15   16   17	0.07% 0.07% 0.0% 0.0% 0.0% 0.0% 0.0%	511 curr - 50 bp 0.57% 0.0% 0.0% 0.0% 0.0% 0.0%	curr val assumption Percentage I 1.07% 0.0% 0.0% 0.0% 0.0% 0.0%	(496) curr + 50bp mpact Relative 1.57% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	(978) curr + 100bp e to Valuation 2.07%] 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	(1,447) curr + 150bp Assumption 2.57% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	213 prior val assumption  0.86%  0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	849 prior fyr end assumption 0.22% 0.0% 0.0% 0.0% 0.0% 0.0%
7 1 & 0r 04 05 06 07 08	0.07% 0.07% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	511 curr - 50 bp 0.57% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	curr val assumption Percentage I 1.07% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	(496) curr + 50bp mpact Relative 1.57%; 0.0% 0.0% 0.0% 0.0% 0.0% -0.1%	(978) curr + 100bp e to Valuation 2.07% 0.0% 0.0% 0.0% 0.0% -0.2%	(1,447) curr + 150bp Assumption 2.57% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	213 prior val assumption  0.86%  0.0% 0.0% 0.0% 0.0% 0.0% 0.1%	849 prior fyr end assumption 0.22% 0.0% 0.0% 0.0% 0.0% 0.0%
7 1 & 0r 14 15 106 107 108 109	0.07% 0.07% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	511 curr - 50 bp 0.57% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	curr val assumption Percentage I 1.07% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	(496) curr + 50bp mpact Relativ. 1.57% 0.0% 0.0% 0.0% 0.0% -0.1% 0.0%	(978) curr + 100bp e to Valuation 2.07% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	(1,447) curr + 150bp  Assumption 2.57% 0.0% 0.0% 0.0% 0.0% -0.4% 0.0%	213 prior val assumption 0.86% 0.0% 0.0% 0.0% 0.0% 0.1% 0.0%	849 prior fyr end assumption 0.22% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.2%
0 2 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	0.07% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	511 curr - 50 bp 0.57% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Curr val assumption Percentage I 1.07% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	(496) curr + 50bp mpact Relativ. 1.57%; 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.1% 0.0%	(978) curr + 100bp e to Valuation 2.07%; 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.2% 0.0% -1.2%	(1,447) curr + 150bp  Assumption 2.57%; 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -1.8%	213 prior val assumption  0.86%  0.0% 0.0% 0.0% 0.0% 0.1% 0.0% 0.1% 0.0%	849 prior fyr end assumption  0.22%  0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 1.0%
& or 44 55 66 77 8 9 0 1 1 2 2	0.07% 0.07% 0.09% 0.09% 0.09% 0.09% 0.09% 0.29% 0.09% 1.09%	511 curr - 50 bp 0.57%; 0.0%; 0.0%; 0.0%; 0.0%; 0.1%; 0.0%; 0.0%; 0.0%;	curr val assumption Percentage I 1.07% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	(496) curr + 50bp  mpact Relative 1.57%; 0.0% 0.0% 0.0% 0.0% -0.1% 0.0% -0.6% -0.6% -0.6% -0.3%	(978) curr + 100bp e to Valuation 2.07% 0.0% 0.0% 0.0% 0.0% -0.2% 0.0% -1.2% -0.6%	(1,447) curr + 150bp  Assumption 2.57% 0.0% 0.0% 0.0% 0.0% -0.4% 0.0%	213 prior val assumption  0.86%  0.0% 0.0% 0.0% 0.0% 0.0% 0.1% 0.0% 0.3% 0.13%	849 prior fyr end assumption 0.22% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0
7 8 15 16 17 18 19 0	0.07% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	511 curr - 50 bp 0.57% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	Curr val assumption Percentage I 1.07% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	(496) curr + 50bp mpact Relativ. 1.57%; 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.1% 0.0%	(978) curr + 100bp e to Valuation 2.07%; 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.2% 0.0% -1.2%	(1,447) curr + 150bp  Assumption 2.57%; 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -1.8%	213 prior val assumption  0.86%  0.0% 0.0% 0.0% 0.0% 0.1% 0.0% 0.1% 0.0%	849 prior fyr end assumption 0.22% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0
7 1 & or 04 05 06 07 08 09 10 11	0.07% 0.07% 0.09% 0.09% 0.09% 0.09% 0.09% 0.29% 0.09% 1.09%	511 curr - 50 bp 0.57%; 0.0%; 0.0%; 0.0%; 0.0%; 0.1%; 0.0%; 0.0%; 0.0%;	curr val assumption Percentage I 1.07% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	(496) curr + 50bp  mpact Relative 1.57%; 0.0% 0.0% 0.0% 0.0% -0.1% 0.0% -0.6% -0.6% -0.6% -0.3%	(978) curr + 100bp e to Valuation 2.07% 0.0% 0.0% 0.0% 0.0% -0.2% 0.0% -1.2% -0.6%	(1,447) curr + 150bp  Assumption 2.57% 0.0% 0.0% 0.0% 0.0% -0.4% 0.0% -1.8% -0.9%	213 prior val assumption  0.86%  0.0% 0.0% 0.0% 0.0% 0.0% 0.1% 0.0% 0.3% 0.13%	849 prior fyr end assumption 0.22% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0
Y 4 4 & 00r 004 05 06 009 10 111 12 13 14	0.07% 0.07% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0	511 curr - 50 bp 0.57% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.	Curr val assumption Percentage I 1.07% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	(496) curr + 50bp mpact Relativ. 1.57%; 0.0% 0.0% 0.0% 0.0% 0.0% -0.1% 0.0% -0.1% -0.5% -0.3% -0.3%	(978) curr + 100bp e to Valuation 2.07% 0.0% 0.0% 0.0% 0.0% 0.0% -0.2% 0.0% -1.2% -0.6% -0.6%	(1,447) curr + 150bp  Assumption 2.57% 0.0% 0.0% 0.0% 0.0% -0.4% 0.0% -1.8% -0.9% -0.9% -0.9%	213 prior val assumption  0.86%  0.0% 0.0% 0.0% 0.0% 0.0% 0.1% 0.0% 0.13% 0.13% 0.14%	849 prior fyr end assumption 0.22% 0.0% 0.0% 0.0% 0.0% 0.2% 0.0% 0.2% 0.0%
// 14 & 00 r 00 d d d d d d d d d d d d d d d d	0.07%; 0.07%; 0.0%; 0.0%; 0.0%; 0.0%; 0.0%; 0.0%; 0.0%; 0.0%; 0.0%; 0.5%; 0.5%; 0.5%; 0.5%;	511 curr - 50 bp  0.57%  0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0	curr val assumption Percentage I 1.07% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	(496) curr + 50bp mpact Relativ. 1.57% 0.0% 0.0% 0.0% 0.0% -0.1% 0.0% -0.6% -0.3% -0.3% -0.3% -0.5%	(978) curr + 100bp e to Valuation 2.07%; 0.0% 0.0% 0.0% 0.0% -0.2% 0.0% -1.2% -1.2% -1.2% -1.2%	(1,447) curr + 150bp  Assumption 2.57%; 0.0% 0.0% 0.0% 0.0% 0.0% -0.4% 0.0% -1.8% -0.9% -1.5% -1.7%	213 prior val assumption  0.86%  0.0% 0.0% 0.0% 0.0% 0.1% 0.0% 0.1% 0.1	849 prior fyr end assumption  0.22%  0.0% 0.0% 0.0% 0.0% 0.10% 0.2% 0.0% 0.5% 0.5% 0.8% 1.0%
Y 4 4 & or 004 005 006 007 008 009 110 111 12 13 14 15 16	0.07% 0.07% 0.0% 0.0% 0.0% 0.0% 0.0% 0.2% 0.05% 0.5% 0.5% 0.5%	511 curr - 50 bp  0.57%  0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% 0.0% 0.3% 0.3% 0.3% 0.5% 0.5%	Curr val assumption Percentage I 1.07% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	(496) curr + 50bp mpact Relativ. 1.57%; 0.0% 0.0% 0.0% 0.0% -0.1% 0.0% -0.6% -0.3% -0.5% -0.5% -0.5%	(978) curr + 100bp e to Valuation 2.07% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% -0.2% 0.0% -1.2% -0.6% -0.6% -1.0%	(1,447) curr + 150bp  Assumption 2.57% 0.0% 0.0% 0.0% 0.0% -0.4% 0.0% -1.8% -0.9% -0.9% -1.8% -0.9% -1.8% -1.5%	213 prior val assumption  0.86%  0.0% 0.0% 0.0% 0.0% 0.1% 0.1% 0.2% 0.2%	849 prior fyr end assumption  0.22%  0.0% 0.0% 0.0% 0.0% 0.0% 0.5% 0.5% 0.
Y 4 4 & 00r 004 005 006 007 008 009 010 111 112 113 114 115 116	0.07%; 0.09%; 0.09%; 0.09%; 0.09%; 0.09%; 0.09%; 0.09%; 0.5%; 0.5%; 0.5%; 0.5%; 0.5%; 0.5%; 0.9%; 0.10%; 0.	511 curr - 50 bp  0.57%  0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% 0.5% 0.5% 0.5% 0.5% 0.5% 0.8% 0.8% 0.8%	Curr val assumption Percentage I 1.07% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	(496) curr + 50bp mpact Relativity 1.57%; 0.0% 0.0% 0.0% 0.0% 0.0% -0.1% 0.0% -0.3% -0.3% -0.5% -0.6% -0.8% -0.6%	(978) curr + 100bp e to Valuation 2.07% 0.0% 0.0% 0.0% 0.0% 0.0% -0.2% 0.0% -1.2% -0.6% -1.0% -1.2% -1.5% -1.2% -1.2%	(1,447) curr + 150bp  Assumption 2.57% 0.0% 0.0% 0.0% 0.0% -0.4% 0.0% -1.8% -0.9% -1.5% -1.7% -2.3% -2.9%	213 prior val assumption  0.86%  0.0% 0.0% 0.0% 0.0% 0.1% 0.09% 0.11% 0.09% 0.11% 0.2% 0.2% 0.2% 0.3% 0.4%	849 prior fyr end assumption 0.22% 0.0% 0.0% 0.0% 0.0% 0.2% 0.0% 0.5% 0.5% 0.8% 1.0%
Y 4 4 & or 004 005 006 007 008 009 009 111 112 113 114 115 116 117 118 119	0.07%; 0.0%; 0.0%; 0.0%; 0.0%; 0.0%; 0.0%; 0.0%; 0.0%; 0.2%; 0.5%;	511 curr - 50 bp  0.57%  0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0	Curr val assumption  Percentage I 1.07%  0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	(496) curr + 50bp mpact Relativ. 1.57%; 0.0% 0.0% 0.0% 0.0% 0.0% -0.1% 0.0% -0.6% -0.3% -0.3% -0.5% -0.6% -0.8% -0.8% -1.0%	(978) curr + 100bp e to Valuation 2.07% 0.0% 0.0% 0.0% 0.0% 0.0% -0.2% 0.0% -1.2% -0.6% -1.0% -1.2% -1.5% -2.0% -2.3%	(1,447) curr + 150bp  Assumption 2.57% 0.0% 0.0% 0.0% 0.0% -0.4% 0.0% -1.8% -0.9% -1.5% -1.7% -2.3% -2.3% -3.4%	213 prior val assumption  0.86%  0.0% 0.0% 0.0% 0.0% 0.1% 0.1% 0.1% 0.	849 prior fyr end assumption  0.22%  0.0% 0.0% 0.0% 0.0% 0.0% 0.5% 0.5% 0.
7 4 4 8 00 00 00 00 00 00 00 00 00 00 00 00 00	0.07% 0.0% 0.0% 0.0% 0.0% 0.0% 0.5% 0.5% 0.5	511 curr - 50 bp  0.57%  0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% 0.0% 0.1% 0.0% 0.3% 0.3% 0.3% 0.5% 0.6% 0.8% 1.0% 1.2% 1.3%	Curr val assumption  Percentage I 1.07%  0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	(496) curr + 50bp mpact Relativ. 1.57% 0.0% 0.0% 0.0% 0.0% 0.0% -0.1% 0.0% -0.3% -0.3% -0.3% -0.5% -0.8% -1.2% -1.2% -1.3%	(978) curr + 100bp e to Valuation 2.07% 0.0% 0.0% 0.0% 0.0% 0.0% -0.2% 0.0% -1.2% -0.6% -1.0% -1.5% -2.0% -2.3% -2.6%	(1,447) curr + 150bp  Assumption 2.57% 0.0% 0.0% 0.0% 0.0% -0.4% 0.0% -1.8% -1.5% -1.5% -2.3% -2.3% -3.4% -3.8%	213 prior val assumption  0.86%  0.0% 0.0% 0.0% 0.0% 0.1% 0.1% 0.1% 0.	849 prior fyr end assumption  0.22%  0.0% 0.0% 0.0% 0.0% 0.2% 0.2% 0
Y 4 & 0 or 0 0 4 0 0 5 0 0 6 0 7 0 0 8 0 9 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	0.07%; 0.0%; 0.0%; 0.0%; 0.0%; 0.0%; 0.0%; 0.0%; 0.5%; 0.5%; 0.5%; 0.5%; 0.5%; 0.5%; 0.5%; 2.0%; 2.0%; 2.0%; 2.3%;	511 curr - 50 bp  0.57%  0.0% 0.0% 0.0% 0.0% 0.0% 0.1% 0.6% 0.3% 0.5% 0.5% 0.5% 0.5% 1.2% 1.3% 1.2%	Curr val assumption  Percentage I 1.07%  0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0%	(496) curr + 50bp  mpact Relativ. 1.57%; 0.0% 0.0% 0.0% 0.0% 0.0% -0.1% 0.0% -0.5% -0.5% -0.5% -0.5% -1.2% -1.2% -1.3% -1.5%	(978) curr + 100bp e to Valuation 2.07%; 0.0% 0.0% 0.0% 0.0% 0.0% -0.2% 0.0% -1.2% -1.0% -1.2% -1.5% -2.0% -2.3% -2.6% -3.0%	(1,447) curr + 150bp  Assumption 2.57%; 0.0% 0.0% 0.0% 0.0% -0.4% 0.0% -1.8% -0.9% -1.5% -1.7% -2.3% -2.9% -3.4% -3.8% -4.5%	213 prior val assumption  0.86%  0.0% 0.0% 0.0% 0.0% 0.1% 0.1% 0.1% 0.	849 prior fyr end assumption  0.22%  0.0% 0.0% 0.0% 0.0% 0.5% 0.5% 0.5% 0.
Y 4 & 0 or 04 005 006 007 008 009 009 110 111 112 113 114 115 116 117 118 119 220 121	0.07%; 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.	511 curr - 50 bp  0.57%  0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.57% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 1.0% 1.2% 1.3% 1.3% 1.3% 1.3%	Curr val assumption Percentage I 1.07%	(496) curr + 50bp mpact Relativ. 1.57% 0.0% 0.0% 0.0% 0.0% 0.0% -0.1% 0.0% -0.3% -0.3% -0.5% -0.8% -1.2% -1.3% -1.2% -1.7%	(978) curr + 100bp e to Valuation 2.07% 0.0% 0.0% 0.0% 0.0% 0.0% -0.2% -0.6% -1.2% -1.2% -1.2% -2.6% -2.3% -2.6% -3.3%	(1,447) curr + 150bp  Assumption 2.57% 0.0% 0.0% 0.0% 0.0% -0.4% 0.0% -0.4% -0.9% -1.5% -1.7% -2.3% -2.9% -3.4% -3.8% -4.5% -4.9%	213 prior val assumption  0.86%  0.0% 0.0% 0.0% 0.0% 0.1% 0.0% 0.11% 0.2% 0.2% 0.2% 0.2% 0.4% 0.5% 0.6% 0.6% 0.7%	849 prior fyr end assumption 0.22% 0.0% 0.0% 0.0% 0.0% 0.2% 0.0% 0.5% 0.5% 0.8% 1.0% 2.0% 2.2% 2.2%
7 4 & 4 & 6 55 56 56 57 78 88 99 10 11 12 13 14 15 16 17 18 19 20 21 22	0.07%; 0.0%; 0.0%; 0.0%; 0.0%; 0.0%; 0.0%; 0.0%; 0.0%; 0.10%; 0.5%; 0.5%; 0.5%; 0.5%; 0.5%; 0.2%; 0.2%; 0.2%; 0.2%; 0.3%; 0.2%; 0.3%; 0.2%; 0.2%; 0.3%; 0.2%; 0.3%; 0.2%; 0.3%; 0.2%; 0.3%; 0.2%; 0.3%; 0.2%; 0.3%; 0.2%; 0.3%; 0.2%; 0.3%; 0.2%; 0.3%; 0.2%; 0.3%; 0.2%; 0.3%; 0.2%; 0.3%; 0.2%; 0.3%; 0.2%; 0.3%	511 curr - 50 bp  0.57%  0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.1% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 1.0% 1.2% 1.3% 1.2% 1.3% 1.6% 1.7% 1.8%	Curr val assumption Percentage I 1.07%  0.0% 0.096	(496) curr + 50bp mpact Relativ. 1.57%; 0.0% 0.0% 0.0% 0.0% 0.0% -0.1% 0.0% -0.18% -0.3% -0.3% -0.3% -0.3% -1.3% -1.15% -1.17%	(978) curr + 100bp e to Valuation 2.07% 0.0% 0.0% 0.0% 0.0% 0.0% -0.2% 0.0% -1.2% -0.6% -1.2% -1.5% -2.0% -2.5% -2.0% -3.3% -3.4%	(1,447) curr + 150bp  Assumption 2.57% 0.0% 0.0% 0.0% 0.0% -0.4% 0.0% -1.8% -1.9% -2.3% -2.3% -2.3% -2.3% -4.5% -4.5% -4.9% -5.0%	213 prior val assumption  0.86%  0.0% 0.0% 0.0% 0.0% 0.1% 0.18 0.18 0.18 0.18 0.19 0.2% 0.2% 0.2% 0.2% 0.7%	849 prior fyr end assumption  0.22%  0.0% 0.0% 0.0% 0.0% 0.0% 0.5% 0.5% 0.
7 18 & Por 14 15 15 16 16 17 17 18 18 19 19 10 11 11 11 11 11 11 11 11 11 11 11 11	0.07%; 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.	511 curr - 50 bp  0.57%  0.0% 0.0% 0.0% 0.0% 0.0% 0.0% 0.57% 0.5% 0.5% 0.5% 0.5% 0.5% 0.5% 1.0% 1.2% 1.3% 1.3% 1.3% 1.3%	Curr val assumption Percentage I 1.07%	(496) curr + 50bp mpact Relativ. 1.57%; 0.0% 0.0% 0.0% 0.0% 0.0% -0.19% 0.0% -0.6% -0.3% -0.3% -0.3% -1.3% -1.5% -1.7% -1.7% -1.7%	(978) curr + 100bp e to Valuation 2.07% 0.0% 0.0% 0.0% 0.0% 0.0% -0.2% -0.6% -1.2% -1.2% -1.2% -2.6% -2.3% -2.6% -3.3%	(1,447) curr + 150bp  Assumption 2.57% 0.0% 0.0% 0.0% 0.0% -0.4% 0.0% -1.8% -0.9% -1.5% -1.7% -2.3% -2.3% -3.4% -3.4% -4.5% -4.5% -4.5% -4.5% -4.5%	213 prior val assumption  0.86%  0.0% 0.0% 0.0% 0.0% 0.1% 0.0% 0.11% 0.2% 0.2% 0.2% 0.2% 0.4% 0.5% 0.6% 0.6% 0.7%	849 prior fyr end assumption 0.22% 0.0% 0.0% 0.0% 0.0% 0.2% 0.0% 0.5% 0.5% 0.8% 1.0% 2.0% 2.2% 2.2%



# **EXHIBIT G**

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# Components of Member Statement IBNR (i.e. "Discounted") Change (November 2021 to March 2022)

RSP New Brunswick
AccountCode Desc IBNR - Discounted

M/S IBNR - in \$000s

AccYear	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	Sum of Current Month Final Amount
prior	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-
2005	(2)	-	-	-	-	-	(2)
2006	-	-	-	-	-	-	-
2007	6	-	-	-	-	-	6
2008	12	-	-	-	-	-	12
2009	6	-	-	-	-	-	6
2010	(2)	-	-	-	-	-	(2)
2011	(357)	34	(34)	414	414	(116.0%)	57
2012	29	(3)	7	(22)	(18)	(62.1%)	12
2013	111	(4)	4	(3)	(3)	(2.7%)	104
2014	66	8	(100)	239	147	222.7%	214
2015	104	(9)	-	1	(8)	(7.7%)	96
2016	240	(19)	(141)	(42)	(202)	(84.2%)	40
2017	1,423	(182)	98	(296)	(380)	(26.7%)	1,046
2018	1,588	(188)	(311)	435	(64)	(4.0%)	1,532
2019	2,715	(391)	65	111	(215)	(7.9%)	2,515
2020	3,383	(414)	128	162	(124)	(3.7%)	3,271
2021	5,057	197	(428)	(452)	(683)	(13.5%)	4,336
2022	-	2,923	(648)	(20)	2,255	-	2,255
rand Total	14,379	1,952	(1,360)	527	1,119	7.8%	15,498



# **EXHIBIT G**

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# Components of IBNR (i.e. "Undiscounted") Change (November 2021 to March 2022)

RSP New Brunswick
AccountCode Desc IBNR - Undiscounted

IBNR - in \$000s

AccYear	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	Sum of Current Month Final Amount
prior	-	-	-	-	-	-	-
2001	-	-	-	-	-	-	-
2002	-	-	-	-	-	-	-
2003	-	-	-	-	-	-	-
2004	-	-	-	-	-	-	-
2005	(2)	-	-	-	-	-	(2)
2006	-	-	-	-	-	-	-
2007	5	-	-	-	-	-	5
2008	4	-	-	-	-	-	4
2009	3	-	-	-	-	-	3
2010	(2)	-	-	-	-	-	(2)
2011	(375)	34	(34)	381	381	(101.6%)	6
2012	14	(2)	9	(20)	(13)	(92.9%)	1
2013	33	(2)	2	(10)	(10)	(30.3%)	23
2014	4	13	(102)	219	130	3,250.0%	134
2015	53	(5)	(3)	-	(8)	(15.1%)	45
2016	153	(13)	(138)	(39)	(190)	(124.2%)	(37)
2017	1,243	(169)	87	(266)	(348)	(28.0%)	895
2018	1,270	(166)	(302)	420	(48)	(3.8%)	1,222
2019	2,179	(343)	50	126	(167)	(7.7%)	2,012
2020	2,888	(358)	123	180	(55)	(1.9%)	2,833
2021	4,442	91	(339)	(414)	(662)	(14.9%)	3,780
2022	-	2,604	(618)	5	1,991	-	1,991
<b>Grand Total</b>	11,912	1,684	(1,265)	582	1,001	8.4%	12,913