

# New Brunswick Risk Sharing Pool March 2021 Operational Report Actuarial Highlights

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## **ACTUARIAL HIGHLIGHTS**

## **RSP New Brunswick**

# **OPERATIONAL REPORT**

## **MARCH 2021**

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#### 1 Summary

Note to members: we are currently reviewing our member reporting requirements and intend to provide the **Actuarial Highlights quarterly instead of the current monthly reporting**, starting with the May 2021 participation reporting and aligned with the valuation schedule; please contact us with any questions or concerns in regards to this matter.

## 1.1 Valuation Schedule (Fiscal Year 2021)

The March 2021 Operational Report incorporates the results of an updated valuation (as at December 31, 2020) – 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 2021.

New Brunswick Risk Sharing Pool Fiscal Year 2021 – Schedule of Valuations									
Valuation Date	Discount Rate (per annum)	Operational Report	Description of Changes						
Sep 30, 2020 (completed)	0.22% mfad <sup>1</sup> 25 bp	Oct. 2020	update valuation (roll-forward): ): accident year 2020 loss ratio <u>de</u> creased 0.1 points to 65.2%; discount rate <u>de</u> creased 3 basis points; no change to selected margins for adverse deviations						
Dec. 31, 2020 (completed)	0.26% mfad 25 bp	Mar. 2021	update valuation: accident year 2020 loss ratio decreased 6.0 points to 59.2% and accident year 2021 loss ratio decreased 6.5 points to 70.1%;; discount rate increased 4 basis points; no change to selected margins for adverse deviations						
Mar. 31, 2021	% mfad bp	May 2021	update valuation (roll-forward):						
Jun. 30, 2021	% mfad bp	Aug. 2021	update valuation:						
Sep. 30, 2021	% mfad bp	Oct. 2021	update valuation (roll-forward):						

Under the proposed schedule for fiscal year 2021, the off-half valuation quarters ending March 31, 2021 and September 30, 2021 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 September 30, 2020 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 (2021), and "Prem Def" refers to premium deficiency / deferred acquisition costs impacts.

Summary of Impact (\$000s) of Implementing Result of Valuation as at Dec. 31, 2020<sup>2</sup>

NB	unfav / (fav) for the month and ytd								
	IMPACT in \$000s from changes in:								
	ults &	payout patt	erns	dsct rate	margins				
	Nominal	apv adj.	sub-tot	apv adj.	apv adj.	TOTAL			
	[1]	[2]	[3]	[4]	[5]	[6]			
PAYs	(826)	(19)	(845)	(2)	-	(847)			
CAY	(325)	(34)	(359)	(1)	-	(360)			
Prem Def	(606)	(57)	(663)	-	-	(663)			
TOTAL	(1,757)	(110)	(1,867)	(3)	-	(1,870)			

As indicated in the preceding table, the incorporation of the new valuation had an estimated *\$1.9 million favourable impact* on the month's net result from operations, subtracting an estimated 39.0 points (see following table) from the **year-to-date Combined Operating Ratio** to end at **75.9%**.

Summary of Impact (% YTD EP) of Implementing Result of Valuation as at Dec. 31, 2020

NB	ytd EP	4,798	(actual)			
	IN	/IPACT unfa	v / (fav) as %	6 ytd EP fron	n changes ir	n:
	ults &	payout pat	terns	dsct rate	margins	
	Nominal	apv adj.	sub-tot	apv adj.	apv adj.	TOTAL
	[1]	[2]	[3]	[4]	[5]	[6]
PAYs	(17.2%)	(0.4%)	(17.6%)	-	-	(17.7%)
CAY	(6.8%)	(0.7%)	(7.5%)	-	-	(7.5%)
Prem Def	(12.6%)	(1.2%)	(13.8%)	-	-	(13.8%)
TOTAL	(36.6%)	(2.3%)	(38.9%)	(0.1%)	-	(39.0%)

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 **favourable by \$1.8 million** overall. This reflects

<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.



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 ultimate loss ratio).

The **PAYs** overall showed a **\$0.8** million favourable nominal variance or 17.2 % of the PAYs nominal unpaid balance of \$23.6 million determined at the end of last month (February 2021), driven by favourable claims development and updates to a priori loss ratios to include more recent data and updated trends. While the valuation implementation impact does differ from the valuation changes themselves (as they apply to different periods), the main driver of PAY change was accident year 2020. Lower than expected claims frequency due to a reduction in driving as a result of the COVID-19 pandemic led to a large reduction in ultimate claims across all coverages; this is reflected in the implementation through both actual data and through revised actuarial assumptions to estimate the ultimate expected loss ratio.

The CAY and premium deficiency impacts are a result of the change in the selected loss ratio for accident year **2021** (<u>de</u>creased 6.5 points to 70.1%). This change is also driven by revised assumptions for the continuing impact of COVID-19 on claims costs in 2021.

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 a favourable change of \$110 thousand in the actuarial present value adjustments, prior to any changes in the selected discount rate and/or MfADs.

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 2020. Column [4] accounts for the change in the **discount rate** selected (<u>increased 4 basis point to **0.26%**), indicating a favourable impact of \$3 thousand. The impact *related only to claims liabilities* (i.e. PAYs plus CAY) was \$3 thousand at March 2021 – this compares to the \$31 thousand change one would estimate as the impact by interpolation using the interest rate sensitivity table provided in last month's Actuarial Highlights.</u>

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.

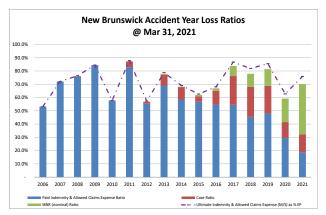
## 1.4 Consideration of Recent Legal Decisions and Changes in Legislation / Regulation

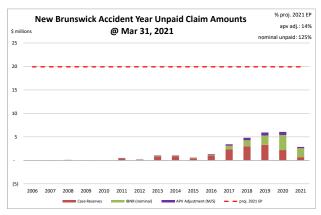
There have been no changes in these descriptions since last month's Highlights.

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 (\$2.9 million – see the following table) represents 14% of the earned premium projected for the full year 2021 (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

<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.



operating result over future periods.

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 53% of the IBNR balance relates to accident years 2020 and 2021 (see Exhibit B). Approximately 83% of the M/S total claim liabilities are related to accident years 2017-2021 inclusive (i.e. the most recent 5 accident years), and approximately 2% is related to accident years 2011 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 (\$000	Os)		policy liabilities (\$000s)		
	amt	%		amt	%
unearned prem	9,772	125.5%	claim	24,972	70.1%
prem def/(dpac)	(2,635)	(33.8%)	premium	7,137	20.0%
M/S apv adjust.	650	8.3%	M/S apv adjust.	3,515	9.9%
M/S total	7.787	100.0%	M/S total	35,624	100.0%

## 2 Activity During the Month of March 2021

## 2.1 Recorded Premium and Claims Activity

The following table 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>4</sup>.

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

Table 01	Earned Premium		Paid Indemnity & Allowed Claims Expense		Case increase / (decrease)		Recorded increase / (decrease)	
Accident	Actual	Actual less	Actual	Actual less	Actual	Actual less	Actual	Actual less
Year		Projected		Projected		Projected		Projected
Prior	(1)	(1)	235	(28)	(331)	(122)	(95)	(149)
2019	(18)	(18)	33	(123)	39	137	71	13
2020	(36)	(36)	87	(111)	28	93	115	(18)
2021	1,737	85	499	31	284	(130)	783	(99)
TOTAL	1,683	30	854	(231)	19	(22)	873	(253)

(Recorded transaction amounts exclude IBNR & other actuarial provisions)

Claims transaction activity is generally volatile and changes from one month to the next are claim liabilities (\$000s) anticipated due to this natural "process variance"

	amt	%
case	15,326	55.1%
ibnr	9,646	34.7%
M/S apv adjust.	2,865	10.3%
M/S total	27,837	100.0%

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.

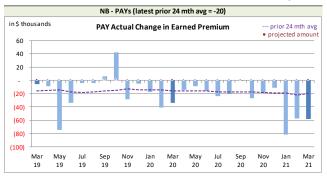
<sup>&</sup>lt;sup>4</sup>There may be rounding differences in values in this document compared with the associated Bulletin and/or Operational Report.

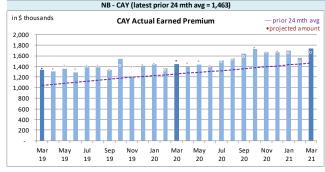


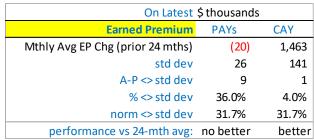
# 2.1.a Actual vs. Projected (AvsP): Earned Premium

The following charts show actual **earned premium**<sup>5</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



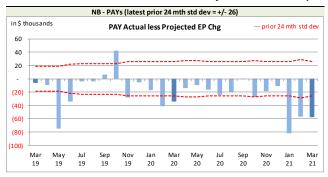


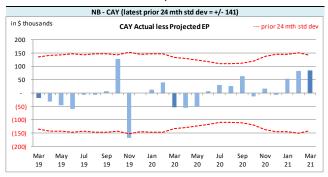


Earned premium changes during a given calendar month in relation to prior accident years tend to be at modest levels, although relatively high levels generally occur at the beginning of each year. The associated variance between the actual changes and the projections from the previous month are shown in 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.

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

<sup>&</sup>lt;sup>5</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.



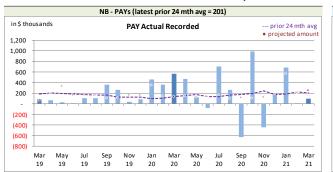
has generated prior accident years' (PAYs) bias<sup>6</sup>, with actuals generally lower than our projections, although the magnitude is not high relative to monthly premium. However, for the CAY, bias<sup>7</sup> has not been indicated. Over time, we may consider other projection approaches to address the bias issue, but it is not currently deemed as priority.

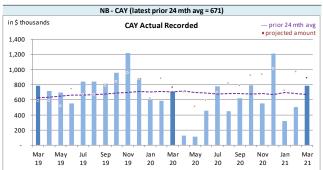
Readers will note the widening of the CAY standard deviation band, reflecting the recent and sustained volume increases and the impact as those increases are earned.

## 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.

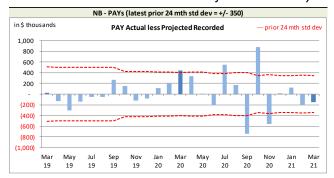
## New Brunswick RSP Actual Recorded by Calendar Month

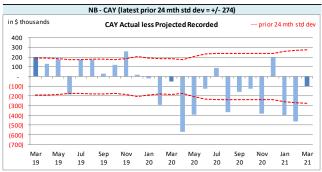




**Recorded** activity variances from the previous month's projections are shown in the following charts, including the "prior 24-month standard deviation" levels to show how the variances from projection compare with historical standard deviations.

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





<sup>&</sup>lt;sup>6</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>7</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.



On Latest \$ thousands						
Recorded	PAYs	CAY				
Mthly Avg Recorded (prior 24 mths)	201	671				
std dev	350	274				
A-P <> std dev	5	10				
% <> std dev	20.0%	40.0%				
norm <> std dev	31.7%	31.7%				
performance vs 24-mth avg:	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, 20% 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 (13 of 25 variances are positive).

The current accident year (CAY) **recorded** variances fell outside of one standard deviation 40% of the time over the last 25 calendar months (see preceding table on the left), suggesting 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 (11 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).

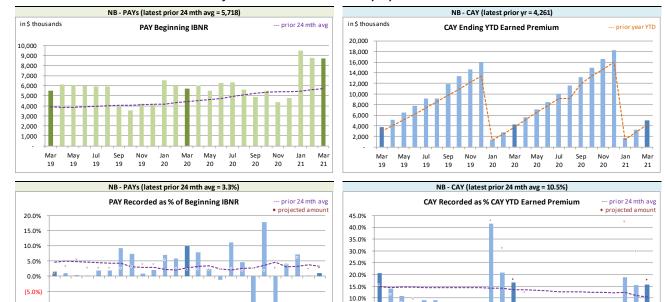
We have included, for reference, the following charts related to levels influencing **recorded** activity. Note in particular the increase in the level of PAY beginning IBNR over the months. Part of this will be as a response to valuations and showing up as a beginning IBNR change one month after the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



(10.0%)

(15.0%)

## New Brunswick RSP Levels that influence8 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 of the preceding group of charts) occur for several possible reasons:

5.0%

0.0%

- 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).

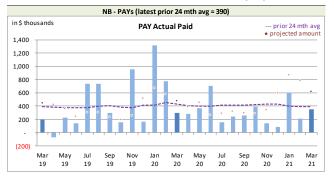
#### 2.1.c AvsP: Paid Indemnity & Allowed Claims Expense

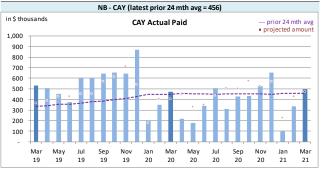
The following charts show actual **paid** activity in each of the most recent 25 calendar months, along with a "prior 24-month average" to show how each month's actual compares with the average amount of the preceding 24 calendar months.

<sup>&</sup>lt;sup>8</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.



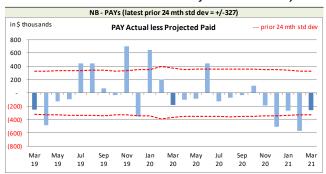
New Brunswick RSP Actual Paid activity by Calendar Month

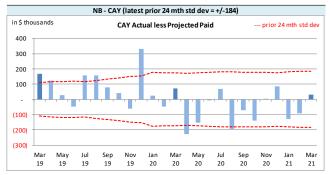




**Paid** activity variances from the previous month's projections are shown in the following charts, including the "prior 24-month standard deviation" levels to show how the variances from projection compare with historical standard deviations.

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





On Latest \$ thousands								
Paid	PAYs	CAY						
Mthly Avg Paid (prior 24 mths)	390	456						
std dev	327	184						
A-P <> std dev	9	7						
% <> std dev	36.0%	28.0%						
norm <> std dev	31.7%	31.7%						
performance vs 24-mth avg:	no better	no 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, 36% of the prior accident years' (PAYs)

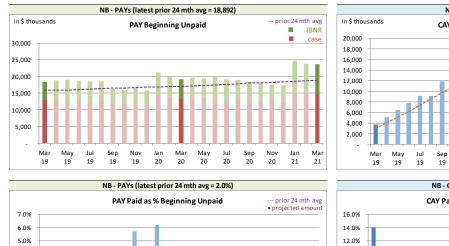
variances over the last 25 calendar months have fallen outside of one standard deviation of the actual **paid** amounts (see preceding table on the left), suggesting the projection process has performed no better than simply projecting the prior 24-month average amount (assuming a normal distribution). Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (8 of 25 variances are positive).

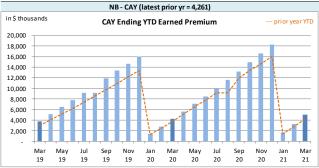
The current accident year (CAY) **paid** variances fell outside of one standard deviation 28% of the time over the last 25 calendar months (see preceding table on the left), suggesting that the projection process has performed no better than simply projecting the prior 24-month average amount. Bias has not been indicated at a 95% confidence level on a rolling 25-month basis (14 of 25 variances are positive).

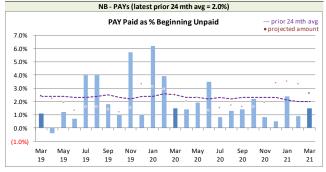


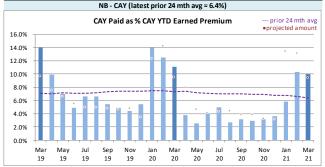
We have included, for reference, the following charts related to levels influencing paid activity.

New Brunswick RSP Levels that influence<sup>9</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 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>10</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>9</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>10</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.

The following table 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 (\$\frac{5}{2}\) thousands)

Table 02		actuarial present value adjustments						
	IBNR		IBNID		Provisions for Adverse		IBNR + actuarial present	
			Discount Amount		Deviations		value adjustments	
Accident	A ctual	Actual less	Actual	Actual less	A ctual	Actual less	Actual	Actual less
Year	Actual	Projected	Actual	Projected	Actual	Projected	Actual	Projected
Prior	2,544	265	(71)	(11)	1,340	50	3,813	304
2019	1,996	115	(42)	(7)	693	47	2,647	155
2020	3,213	(1,094)	(49)	2	702	(73)	3,866	(1,165)
2021	1,893	(161)	(23)	-	315	(31)	2,185	(192)
TOTAL	9,646	(875)	(185)	(16)	3,050	(7)	12,511	(898)

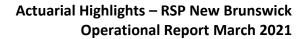
The IBNR provision is \$0.9 million lower than projected from last month, counterbalancing the recorded claims activity and adjusting for the earned premium variance impacts indicated in section 2.1, and due to the valuation implementation.

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 following table 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, and the valuation implementation.





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

Table 03		Premium Deficiency / (Deferred Policy Acquisition Costs)		actuarial present value adjustments		Premium Deficiency / (DPAC) including actuarial present value adjustments	
		Actual	Actual less	Actual	Actual less	Actual	Actual less
		7100001	Projected	7100001	Projected	, totaai	Projected
	balance:	(2,635)	(589)	650	(63)	(1,985)	(652)
	balance as % unearned premium:	(27.0%)	(6.2%)	6.7%	(0.6%)	(20.3%)	(6.8%)

actual unearned premium: 9,772 less projected: (76)

## 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>11</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>12</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 73.0% rather than 70.1% (the valuation ultimate ratio for accident year 2021), 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>11</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>12</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	(967)	(20.1%)	(165)	(3.4%)	(1,132)	(23.6%)	(930)	(17.1%)
CAY	3,501	73.0%	292	6.1%	3,793	79.1%	1,066	(8.4%)
TOTAL	2,535	52.8%	127	2.6%	2,662	55.5%	135	(25.5%)

("% 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 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 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**

**EXHIBIT G** 

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

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		
value adjustments	Year	Feb. 2021	Mar. 2021	Apr. 2021	May. 2021	Dec. 2021		
	2006	-	-	-	-	-		
	2007	6	6	6	6	6		
	2008	12	12	12	12	11		
	2009	244	6	6	6	6		
	2010	11	(2)	(2)	(2)	(2)		
	2011	57	57	55	52	48		
	2012	50	50	48	45	39		
	2013	166	167	161	153	132		
	2014	68	118	114	109	97		
	2015	206	171	164	154	130		
discount rate	2016	373	305	294	278	239		
0.26%	2017	1,253	1,112	1,100	1,073	901		
	2018	1,148	1,813	1,757	1,714	1,483		
interest rate margin	2019	2,569	2,647	2,590	2,526	2,133		
25 basis pts	2020	5,186	3,866	3,814	3,763	3,144		
•	2021	1,902	2,185	2,645	3,381	4,336		
	TOTAL	13,249	12,511	12,762	13,268	12,701		
	Change		(738)	251	506			

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



# **EXHIBIT B**

# **IBNR**

TA DI E EVI II DI T D	-				. 4000		
TABLE EXHIBIT B	_			Amount	s in \$000s		
IBNR	Ultimate	Accident	Actual	Actual	Projected	Projected	Projected
IDIVIX	Loss Ratio	Year	Feb. 2021	Mar. 2021	Apr. 2021	May. 2021	Dec. 2021
			FED. 2021	10101. 2021	Apr. 2021	IVIAY. 2021	Dec. 2021
	53.2%	2006	-	-	-	-	-
	72.1%	2007	5	5	5	5	5
	76.3%	2008	4	4	4	4	4
	84.5%	2009	219	3	3	3	3
	57.8%	2010	10	(2)	(2)	(2)	(2)
	87.4%	2011	11	11	11	10	9
	57.1%	2012	32	32	31	29	24
	77.9%	2013	75	75	72	67	54
	68.1%	2014	(21)	26	25	23	19
	62.1%	2015	149	117	112	104	85
	66.9%	2016	247	185	178	166	138
	83.8%	2017	901	803	795	771	628
	77.9%	2018	703	1,287	1,236	1,199	1,020
	81.4%	2019	1,939	1,996	1,946	1,888	1,557
	59.2%	2020	4,440	3,213	3,181	3,149	2,648
	70.1%	2021	1,669	1,893	2,277	2,918	3,243
		TOTAL	10,381	9,646	9,872	10,332	9,433
		Change		(735)	226	460	

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



# **EXHIBIT C**

# **Premium Liabilities**

TABLE EXHIBIT C		Amount	s in \$000s		
Premium Liabilities	Actual Feb. 2021	Actual Mar. 2021	Projected Apr. 2021	Projected May. 2021	Projected Dec. 2021
(1) unearned premium (UP)	9,864	9,772	9,802	9,729	9,715
FOR MEMBER SHARING					
(2) expected future costs ratio {% of (1)}	86.5%	79.7%	80.0%	80.5%	86.3%
(3) expected future costs {(1) x (2)}	8,528	7,787	7,844	7,830	8,384
(4) premium deficiency / (deferred policy					
acquisition cost)	(1,336)	(1,985)	(1,958)	(1,899)	(1,331)
Excluding Actuarial Present Value Adjustments					
(5) expected future costs ratio {% of (1)}	79.2%	73.0%	73.4%	73.8%	79.1%
<ul><li>(6) expected future costs {(1) x (5)}</li><li>(7) premium deficiency / (deferred policy</li></ul>	7,814	7,137	7,190	7,177	7,683
acquisition cost)	(2,050)	(2,635)	(2,612)	(2,552)	(2,032)



## **EXHIBIT D**

# Projected Year-end Policy Liabilities

The table below presents the projected policy liabilities as at December 31, 2021, broken down by component.

New Brunswick				Projec	ted Balances a	s at Dec. <b>31, 20</b> 2	21 (\$000s)			
ending 2021	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
2006	-	-	-	-	-	-	-	-	-	-
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	377	9	386	(2)	2	39	-	39	39	425
2012	124	24	148	(1)	1	15	-	15	15	163
2013	725	54	779	(3)	3	78	-	78	78	857
2014	761	19	780	(4)	4	78	-	78	78	858
2015	367	85	452	(2)	2	45	-	45	45	497
2016	886	138	1,024	(6)	6	102	(1)	101	101	1,125
2017	2,120	628	2,748	(16)	16	275	(2)	273	273	3,021
2018	2,738	1,020	3,758	(26)	26	466	(3)	463	463	4,221
2019	3,130	1,557	4,687	(37)	37	581	(5)	576	576	5,263
2020	1,456	2,648	4,104	(37)	37	501	(5)	496	496	4,600
PAYs (sub-total):	12,774	6,190	18,964	(134)	134	2,191	(16)	2,175	2,175	21,139
CAY (2021)	6,344	3,243	9,587	(86)	86	1,103	(10)	1,093	1,093	10,680
claims liabilities:	19,118	9,433	28,551	(220)	220	3,294	(26)	3,268	3,268	31,819
	Unearned Premium	Premium Deficiency / (DPAC)	Total Provision	discount	investment PfAD	nominal development PfAD	development PfAD discount	development PfAD	Total apvs	TOTAL*
premium liabilities:	9,715	(2,032)	7,683	(52)	52	706	(5)	701	701	8,384
						*	Total may not be s	um of parts, as ap	vs apply to future	costs within UPR
policy liabilities:			36,234	(272)	272	4,000	(31)	3,969	3,969	40,203



## **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, 2021 from the valuation), followed by the selected discount rate and the associated margin for investment income.

Selected Claims Development MfADs (Dec. 31, 2020)

Accident	Third Party	Accident	Other	Total
Year	Liability	Benefits	Coverages	Total
	Margins	Margins	Margins	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%	10.0%	10.0%
2017	10.0%	10.0%	10.0%	10.0%
2018	12.5%	10.0%	10.9%	12.4%
2019	12.5%	10.0%	12.5%	12.4%
2020	12.5%	10.0%	10.6%	12.2%
2021	12.3%	10.0%	5.5%	11.5%
prem liab	11.8%	10.0%	5.1%	9.5%

discount rate: 0.26% 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, 2021 from the latest valuation date (projections in exhibits A to D are to Dec. 31, 2021, and are based on more up-to-date information). We have included the most recent valuation selection (0.26%), the prior valuation assumption (0.22%) 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.

\$ Format: \$000s

AY	0.00%	0.00%	0.26%	0.76%	1.26%	1.76%	0.22%	0.22%
2005		0.0070	0.2070	0.7070	1.20/0	1.7070	0.2270	0.2270
2005	-	-	-	-	-	-	_	-
2006							<u>-</u>	ļ
	-	-	-	-	-	-	-	-
2008	28	28	28	28	28	28	28	2
2009	15	15	15	15	15	15	15	1!
2010	1	1	1	1	1	1	1	
2011	267	267	266	265	263	261	266	26
2012	153	153	152	151	149	148	152	15
2013	585	585	584	580	575	571	584	58
2014	679	679	678	673	667	661	679	67
2015	423	423	423	419	415	411	423	42
2016	971	971	971	960	950	940	971	97
2017	2,847	2,847	2,845	2,810	2,776	2,744	2,846	2,84
2018	3,947	3,947	3,943	3,889	3,836	3,785	3,944	3,94
2019	5,084	5,084	5,078	5,000	4,923	4,849	5,080	5,08
2020	5,631	5,631	5,624	5,527	5,432	5,341	5,626	5,62
Total	20,631	20,631	20,608	20,318	20,030	19,755	20,615	20,61
	curr - 100 bp	curr - 50 bp	curr val	curr + 50bp	curr + 100bp	curr + 150bp	prior val	prior fyr en
			assumption		·	·	assumption	assumptio
		,					,	
			Dollar Imp	act Relative t	o Valuation A	sumption		
AY	0.00%	0.00%	0.26%	0.76%	1.26%	1.76%	0.22%	0.229
Total	23	23	-	(290)	(578)	(853)		
Total		23	-	(290)	(578)	(853)	7	
Total	23		curr val	(290) curr + 50bp			7 prior val	prior fyr en
Total	23	23	-	(290) curr + 50bp	(578)	(853)	7	prior fyr en
Total	23	23	curr val assumption	(290) curr + 50bp	(578)	(853) curr + 150bp	7 prior val	prior fyr en
	23 curr - 100 bp	23 curr - 50 bp	curr val assumption Percentage I	(290) curr + 50bp mpact Relativ	(578) curr + 100bp e to Valuation	(853) curr + 150bp Assumption	7 prior val assumption	prior fyr en assumption
AY	23	23	curr val assumption	(290) curr + 50bp	(578) curr + 100bp	(853) curr + 150bp	7 prior val	prior fyr en
AY 2005	23 curr - 100 bp	23 curr - 50 bp	curr val assumption Percentage I	(290) curr + 50bp mpact Relativ	(578) curr + 100bp e to Valuation	(853) curr + 150bp Assumption	7 prior val assumption	prior fyr en assumption
AY 2005 2006	23 curr - 100 bp	23 curr - 50 bp	curr val assumption Percentage I	(290) curr + 50bp mpact Relativ	(578) curr + 100bp e to Valuation	(853) curr + 150bp Assumption	7 prior val assumption	prior fyr en assumption
AY 2005 2006 2007	23 curr - 100 bp	23 curr - 50 bp	curr val assumption Percentage I	(290) curr + 50bp mpact Relativ	(578) curr + 100bp e to Valuation	(853) curr + 150bp Assumption	7 prior val assumption	prior fyr en assumption
AY 2005 2006 2007 2008	23 curr - 100 bp	23 curr - 50 bp	curr val assumption Percentage I	(290) curr + 50bp mpact Relativ	(578) curr + 100bp e to Valuation	(853) curr + 150bp Assumption	7 prior val assumption	prior fyr en assumption
AY 2005 2006 2007 2008 2009	23 curr - 100 bp	23 curr - 50 bp	curr val assumption Percentage I	(290) curr + 50bp mpact Relativ	(578) curr + 100bp e to Valuation	(853) curr + 150bp Assumption	7 prior val assumption	prior fyr en assumption
AY 2005 2006 2007 2008 2009 2010	23 curr - 100 bp	0.00%	curr val assumption Percentage I	(290) curr + 50bp  mpact Relativ 0.76%	(578) curr + 100bp e to Valuation 1.26%	(853) curr + 150bp  Assumption 1.76%	7 prior val assumption	prior fyr en assumption
AY 2005 2006 2007 2008 2009 2010 2011	23 curr - 100 bp	23 curr - 50 bp	curr val assumption Percentage I	(290) curr + 50bp  mpact Relativ 0.76%	(578) curr + 100bp e to Valuation 1.26% (1.1%)	(853) curr + 150bp  Assumption 1.76%	7 prior val assumption	prior fyr en assumption
AY 2005 2006 2007 2008 2009 2010 2011 2012	23 curr - 100 bp	23 curr - 50 bp 0.00% - - - - - - 0.4% 0.7%	curr val assumption Percentage I	(290) curr + 50bp  mpact Relativ 0.76% (0.4%) (0.7%)	(578) curr + 100bp e to Valuation 1.26%	(853) curr + 150bp  Assumption 1.76%	7 prior val assumption	prior fyr en assumption
AY 2005 2006 2007 2008 2009 2010 2011 2012 2013	23 curr - 100 bp	23 curr - 50 bp 0.00% - - - - - - 0.4% 0.7% 0.2%	curr val assumption Percentage I	(290) curr + 50bp  mpact Relativ 0.76%	(578) curr + 100bp e to Valuation 1.26% (1.1%) (2.0%) (1.5%)	(853) curr + 150bp  Assumption 1.76%	7 prior val assumption  0.22%	prior fyr en assumption
AY 2005 2006 2007 2008 2009 2011 2012 2013 2014	23 curr - 100 bp	23 curr - 50 bp 0.00% - - - - - - 0.4% 0.7%	curr val assumption Percentage I	(290) curr + 50bp  mpact Relativ 0.76% (0.4%) (0.7%)	(578) curr + 100bp e to Valuation 1.26% (1.1%) (2.0%) (1.5%) (1.6%)	(853) curr + 150bp  Assumption 1.76%	7 prior val assumption	prior fyr en assumption
AY 2005 2006 2007 2008 2009 2010 2011 2012 2013	23 curr - 100 bp	23 curr - 50 bp 0.00% - - - - - - 0.4% 0.7% 0.2%	curr val assumption Percentage I	(290) curr + 50bp  mpact Relativ 0.76%	(578) curr + 100bp e to Valuation 1.26% (1.1%) (2.0%) (1.5%)	(853) curr + 150bp  Assumption 1.76%	7 prior val assumption  0.22%	prior fyr en assumption
AY 2005 2006 2007 2008 2010 2011 2012 2013 2014	23 curr - 100 bp	23 curr - 50 bp 0.00% - - - - - - 0.4% 0.7% 0.2%	curr val assumption Percentage I	(290) curr + 50bp  mpact Relativ 0.76% (0.4%) (0.7%) (0.7%) (0.7%)	(578) curr + 100bp e to Valuation 1.26% (1.1%) (2.0%) (1.5%) (1.6%)	(853) curr + 150bp  Assumption 1.76%	7 prior val assumption  0.22%	prior fyr en assumption
AY 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016	23 curr - 100 bp	23 curr - 50 bp 0.00% - - - - - - 0.4% 0.7% 0.2%	curr val assumption Percentage I	(290) curr + 50bp  mpact Relativ 0.76% (0.4%) (0.7%) (0.7%) (0.7%)	(578) curr + 100bp e to Valuation 1.26% (1.1%) (2.0%) (1.5%) (1.5%) (1.9%)	(853) curr + 150bp  Assumption 1.76% (1.9%) (2.6%) (2.2%) (2.5%) (2.8%)	7 prior val assumption  0.22%	prior fyr en assumption
2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015	23 curr - 100 bp	0.00%	curr val assumption Percentage I	(290) curr + 50bp  mpact Relativ 0.76%  (0.4%) (0.7%) (0.7%) (0.9%) (1.1%)	(578) curr + 100bp e to Valuation 1.26% (1.1%) (2.0%) (1.5%) (1.5%) (2.2%)	(853) curr + 150bp  Assumption 1.76% (1.9%) (2.6%) (2.2%) (2.5%) (2.8%) (3.2%)	7 prior val assumption  0.22%	0.229
AY 2005 2006 2007 2010 2011 2012 2013 2014 2015 2016 2017 2018	23 curr - 100 bp	0.00%  0.	curr val assumption Percentage I	(290) curr + 50bp  mpact Relativ 0.76%	(578) curr + 100bp e to Valuation 1.26% (1.1%) (2.0%) (1.5%) (1.5%) (2.2%) (2.2%)	(853) curr + 150bp  Assumption 1.76%	7 prior val assumption 0.22%	0.229
AY 2005 2006 2007 2010 2011 2012 2013 2014 2015 2016 2017 2018	23 curr - 100 bp	23 curr - 50 bp	curr val assumption Percentage I	(290) curr + 50bp  mpact Relativ 0.76%	(578) curr + 100bp e to Valuation 1.26%	(853) curr + 150bp  Assumption 1.76%  (1.9%) (2.6%) (2.2%) (2.5%) (3.2%) (3.6%) (4.0%)	7 prior val assumption  0.22%	0.229 0.229 0.19
AY 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019 2020	23 curr - 100 bp  0.00%	0.00%  0.00%	curr val assumption Percentage I	(290) curr + 50bp  mpact Relativ 0.76%	(578) curr + 100bp e to Valuation 1.26%	(853) curr + 150bp  Assumption 1.76%	7 prior val assumption  0.22%	0.229
AY 2005 2006 2007 2008 2009 2010 2011 2012 2013 2014 2015 2016 2017 2018 2019	23 curr - 100 bp	0.00%  0.	curr val assumption Percentage I	(290) curr + 50bp  mpact Relativ 0.76%	(578) curr + 100bp e to Valuatior 1.26%	(853) curr + 150bp  Assumption 1.76%	7 prior val assumption  0.22%	0.229



## **EXHIBIT G**

Page 1 of 2

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

RSP
AccountCode Desc IBNR - Discounted

M/S IBNR - in \$000s

	Values	ī					
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
2006	-	-	-	-	-	-	-
2007	6	-	-	-	-	-	6
2008	12	-	-	-	-	-	12
2009	244	(2)	2	(238)	(238)	(97.5%)	6
2010	11	-	-	(13)	(13)	(118.2%)	(2)
2011	57	(1)	1	-	-	-	57
2012	50	(1)	1	-	-	-	50
2013	166	(2)	2	1	1	0.6%	167
2014	68	(1)	(2)	53	50	73.5%	118
2015	206	(2)	1	(34)	(35)	(17.0%)	171
2016	373	(3)	(10)	(55)	(68)	(18.2%)	305
2017	1,253	(37)	142	(246)	(141)	(11.3%)	1,112
2018	1,148	(34)	14	685	665	57.9%	1,813
2019	2,569	(77)	(15)	170	78	3.0%	2,647
2020	5,186	(155)	5	(1,170)	(1,320)	(25.5%)	3,866
2021	1,902	475	168	(360)	283	14.9%	2,185
<b>Grand Total</b>	13,249	160	309	(1,207)	(738)	(5.6%)	12,511



## **EXHIBIT G**

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# Components of IBNR (i.e. "Undiscounted") Change During Month

RSP New Brunswick
AccountCode Desc IBNR - Undiscounted

IBNR - in \$000s

	Values						
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
2006	-	-	-	-	-	-	-
2007	5	-	-	-	-	-	5
2008	4	-	-	-	-	-	4
2009	219	(2)	2	(216)	(216)	(98.6%)	3
2010	10	-	-	(12)	(12)	(120.0%)	(2)
2011	11	-	-	-	-	-	11
2012	32	-	-	-	-	-	32
2013	75	(1)	1	-	-	-	75
2014	(21)	-	(1)	48	47	(223.8%)	26
2015	149	(1)	-	(31)	(32)	(21.5%)	117
2016	247	(2)	(10)	(50)	(62)	(25.1%)	185
2017	901	(27)	152	(223)	(98)	(10.9%)	803
2018	703	(21)	1	604	584	83.1%	1,287
2019	1,939	(58)	(28)	143	57	2.9%	1,996
2020	4,440	(133)	(5)	(1,089)	(1,227)	(27.6%)	3,213
2021	1,669	385	164	(325)	224	13.4%	1,893
<b>Grand Total</b>	10,381	140	276	(1,151)	(735)	(7.1%)	9,646